Open Source Used In Crosswork Platform Infrastructure cw-infra-opensource-4.3.0

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1.593 gojsonpointer 4e3ac2762d5f479393488629ee9370b50873b3a6
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1.596 inf 0.9.1
   1.596.1 Available under license
1.597 audit 2.8.4 3
   1.597.1 Available under license
1.598 prometheus-client 0.2.0
   1.598.1 Available under license
1.599 lithammer-dedent 1.1.0
   1.599.1 Available under license
1.600 jwalterweatherman 1.1.0
   1.600.1 Available under license
1.601 gofuzz 1.1.0
   1.601.1 Available under license
1.602 grep 3.3 1
   1.602.1 Available under license
1.603 flocker-go 0.0.0-20160920122132-2b8b7259d313
   1.603.1 Available under license
1.604 projectcalico-go-json 0.0.0-20161128004156-6219dc7339ba
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   1.605.1 Available under license
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   1.606.1 Available under license
1.607 mawk 1.3.3 17+b3
   1.607.1 Available under license
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1.609 aws-sdk-go 1.28.9
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1.610 client-go kubernetes-1.7.16
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1.618 etcd 0.5.0-alpha.5.0.20201125193152-8a03d2e9614b
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1.1 app 0.8.0

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1.16 sed 4.5 2.el8

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1.24 gettext-go 0.0.0-20160711120539-c6fed771bfd5

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1.25 kubectl kubernetes-1.18.0

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- Copy files to and from Containers in a cluster

# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.

Copy a local file to a remote Pod in a cluster.
- Local file format is `</path>`
- Remote file format is `</pod-name>:<path>`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

## Remote to Local
Copy a remote file from a Pod to a local file.

- Local file format is `</path>`
- Remote file format is `</pod-name>:<path>`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

## Specify the Container
Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

## Namespaces
Set the Pod namespace by prefixing the Pod name with `</namespace>`.
1.26 x-sync 0.0.0-20190911185100-cd5d95a43a6e

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1.30 btree 1.0.0

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1.31 x-crypto 0.0.0-20200220183623-bac4c82f6975

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1.32 libcap-ng 0.7.9 5.el8
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1.37 gonum-graph 0.6.2

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- Speed: due to the simple formulas and the O(1) complexity computation of individual Gauss-Legendre
quadrature nodes and weights. This makes it compatible with parallel computing paradigms.
- Accuracy: the error on the nodes and weights is within a few ulps (see the paper for details).

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1.38 debianutils 4.8.1.1

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1.41 prometheus-client 0.0.0-20170216185247-6f3806018612

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1.42 grpc-go 1.26.0

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1.43 x-net 0.0.0-20190813141303-74dc4d7220e7

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1.44 kubernetes-apimachinery 0.17.2

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1.45 spf13-pflag 1.0.5

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1.46 go-humanize 0.0.0-20171111073723-bb3d318650d4

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1.47 acl 2.2.53 1.el8

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d57e8b8d97adfc4a6c224fe116714bf1a1f3beb9

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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* GNU xargs was originally written by Mike Rendell, with enhancements by David MacKenzie. Modifications by James Youngman Dmitry V. Levin

* GNU locate and its associated utilities were originally written by James Woods, with enhancements by David MacKenzie, James Youngman and Bas van Gompel.

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1.74 prometheus-procfs 0.0.2

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1.75 xxhash 2.1.1

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1.77 protobuf 1.23.0

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1.90 gophercloud 0.3.0
1.90.1 Available under license :
package RESOURCE

import (
"github.com/gophercloud/gophercloud"
)
// RESOURCE represents...
type Resource struct {
}

type commonResult struct {
gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.
type GetResult struct {
    commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.
type CreateResult struct {
    commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.
type DeleteResult struct {
    gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
    commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
    pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
    resources, err := ExtractResources(r)
    return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {

var s struct {
    Links struct {
        Next     string `json:"next"`
        Previous string `json:"previous"`
    } `json:"links"`
}
err := r.ExtractInto(&s)
if err != nil {
    return "", err
}
return s.Links.Next, err
}

// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
    var s struct {
        Resources []Resource `json:"resources"
    }
    err := (r.(ResourcePage)).ExtractInto(&s)
    return s.Resources, err
}

// Extract interprets any commonResult as a Resource.
func (r commonResult) Extract() (*Resource, error) {
    var s struct {
        Resource *Resource `json:"resource"
    }
    err := r.ExtractInto(&s)
    return s.Resource, err
}

Contributor Tutorial
====================

This tutorial is to help new contributors become familiar with the processes
used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful
that everyone is new to this in the beginning. Please reach out for help or ask
for clarification if needed. No question is ever "dumb" or not worth our time
answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 5: Writing the Code
========================

At this point, you should have:
- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](/.github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](/.github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests

---------------

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [##662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [##722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.
The following Pull Requests are good examples of how to do this:

* [https://github.com/gophercloud/gophercloud/pull/584](https://github.com/gophercloud/gophercloud/pull/584)
* [https://github.com/gophercloud/gophercloud/pull/586](https://github.com/gophercloud/gophercloud/pull/586)
* [https://github.com/gophercloud/gophercloud/pull/587](https://github.com/gophercloud/gophercloud/pull/587)
* [https://github.com/gophercloud/gophercloud/pull/594](https://github.com/gophercloud/gophercloud/pull/594)

You can also use the provided [template](/docs/contributor-tutorial/template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request
---------------------------------

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're [testing](step-04-acceptance-testing.md) with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works...
as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

Dealing with Related Pull Requests

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```
```
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```
```
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

Step 6: Code Review

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
b. Code Formatting checks

c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review

---------------------

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure
about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used.

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes
-------------------

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal
-------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

```
package testing

import (
    "fmt"
    "net/http"
    "testing"

    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)
```
// ListResult provides a single page of RESOURCE results.
const ListResult = `
{
}
`

// GetResult provides a Get result.
const GetResult = `
{
}
`

// CreateRequest provides the input to a Create request.
const CreateRequest = `
{
}
`

// UpdateRequest provides the input to as Update request.
const UpdateRequest = `
{
}
`

// UpdateResult provides an update result.
const UpdateResult = `
{
}
`

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{} }

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{} }

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{} }

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource }

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
    })
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, GetResult)
    })
}

func HandleCreateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "POST")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, CreateRequest)
        w.WriteHeader(http.StatusCreated)
        fmt.Fprintf(w, GetResult)
    })
}

func HandleDeleteResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "DELETE")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.WriteHeader(http.StatusNoContent)
    })
}

func HandleUpdateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "PUT")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.WriteHeader(http.StatusNoContent)
    })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "PATCH")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, UpdateRequest)
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, UpdateResult)
    })
}

package RESOURCE

import {
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
}  

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
    q, err := gophercloud.BuildQueryString(opts)
    return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)
    if opts != nil {
        query, err := opts.ToResourceListQuery()
        if err != nil {
            return pagination.Pager{Err: err}
        }
        url += query
    }
        return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
    })}
// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    _, r.Err = client.Get(getURL(client, id), &r.Body, nil)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{201},
    })
    return
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    _, r.Err = client.Delete(deleteURL(client, id), nil)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    return
}

package testing

import {
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
}

func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.Tear downHTTP()
    HandleListResourcesSuccessfully(t)
    count := 0
        count++
        actual, err := resources.ExtractResources(page)
        th.AssertNoErr(t, err)
        th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
        return true, nil
    })
    th.AssertNoErr(t, err)
th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
    actual, err := resources.ExtractResources(allPages)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleGetResourceSuccessfully(t)

    actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
    th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleCreateResourceSuccessfully(t)

    createOpts := resources.CreateOpts{
        Name: "resource two",
    }

    actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
    th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourceSuccessfully(t)

    res := resources.Delete(client.ServiceClient(), "9fe1d3")
    th.AssertNoErr(t, res.Err)
}
func TestUpdateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleUpdateResourceSuccessfully(t)

    updateOpts := resources.UpdateOpts{
        Description: "Staging Resource",
    }

    actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

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Step 7: Congratulations!
=================================

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

/*

Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

------------------------

Open Source Used In Crosswork Platform Infrastructure cw-infra-opensource-4.3.0 516
Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/
package RESOURCE
Step 4: Acceptance Testing

If we haven't started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you **must** be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

Step 2: Create an Issue

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

When reporting a bug, please try to provide as much information as you
The following issues are good examples for reporting a bug:

* https://github.com/gophercloud/gophercloud/issues/108
* https://github.com/gophercloud/gophercloud/issues/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
* https://github.com/gophercloud/gophercloud/issues/629
* https://github.com/gophercloud/gophercloud/issues/647

Feature Request

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is to start a discussion about whether or not the feature should be included in Gophercloud. We don't want you to put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:
There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `networking/v2/networks` function. The fields reported missing weren't missing at all; they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.
### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* https://github.com/gophercloud/gophercloud/issues/723

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

Step 3: Code Hunting

===============

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621). In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package. Meaning, we want to change:

```go
type Network struct {
    ID           string   `json:"id"`
    Name         string   `json:"name"`
    AdminStateUp bool     `json:"admin_state_up"`
    Status       string   `json:"status"`
    Subnets      []string `json:"subnets"`
    TenantID     string   `json:"tenant_id"`
    Shared       bool     `json:"shared"`
}
```

... to look like

```go
type Network struct {
    ID           string   `json:"id"`
    Name         string   `json:"name"`
    AdminStateUp bool     `json:"admin_state_up"`
    Status       string   `json:"status"`
    Subnets      []string `json:"subnets"`
    TenantID     string   `json:"tenant_id"`
    Shared       bool     `json:"shared"`
}
```
Status                string   `json:"status"`
Subnets               `[]string` `json:"subnets"`
TenantID              string   `json:"tenant_id"`
Shared                `bool`    `json:"shared"`
AvailabilityZoneHints `[]string` `json:"availability_zone_hints"`
}
```

We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/). However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying > that the API docs aren't useful or that the contributors who work on the API > docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update > documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[]string`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:
Code Hunting Tips

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the ’model’ or “controller” portion of the code.

* Use Github’s search box to search for the exact field you’re working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

Step 1: Read Our Guides

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you’ve finished reading those guides, proceed to [Step 2](step-02-issues.md).
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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* github.com/BurntSushi/toml - https://github.com/BurntSushi/toml

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* github.com/kisielk/gotool https://github.com/kisielk/gotool

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match.go, match_test.go:

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* golang.org/x/mod/module - https://github.com/golang/mod

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL string `json:"url,omitempty"
}
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package simulator

import (
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "serialuri:2",
                Value: "Remote virtual Serial Port Concentrator",
            },
        },
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "dvs",
                Value: "vSphere Distributed Switch",
            },
        },
    }
}

type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{
        Self: ref
    }
    m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }
}
func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{ },
    }

    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels: req.Labels,
    })

    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)
    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{ },
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:...]...)
            return body
        }
    }

    return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{
}

    for i := range m.Licenses {
        license := &m.Licenses[i]

        if req.LicenseKey != license.LicenseKey {
            continue
        }

        // Update the label...
    }

    // Return the updated body...
}
body.Res = new(types.UpdateLicenseLabelResponse)

for j := range license.Labels {
    label := &license.Labels[j]

    if label.Key == req.LabelKey {
        if req.LabelValue == "" {
            license.Labels = append(license.Labels[:i], license.Labels[i+1:...])
        } else {
            label.Value = req.LabelValue
        }
    }
}
return body

license.Labels = append(license.Labels, types.KeyValue{
    Key:   req.LabelKey,
    Value: req.LabelValue,
})
return body

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }
            if Map.Get(id) == nil {


return body
}
}
}

body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
{
EntityId: req.EntityId,
AssignedLicense: EvalLicense,
},

return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
info := EvalLicense

info.LicenseKey = key
info.Labels = labels

return info
}

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin   string
    Option   string
    Severity string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version   string
}

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf("Plugin \"%v\" , n.Plugin)
    } else {

    }


s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
}
if n.Severity == unsupported {
    s += "is unsupported by this migration tool in " + n.Version + "."
} else if n.Severity == newdefault {
    s += "is added as a default in " + n.Version + "."
} else {
    s += "is " + n.Severity + " in " + n.Version + "."
}
if n.ReplacedBy != "" {
    s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
}
if n.Additional != "" {
    s += " " + n.Additional
}
return s

const (  
    deprecated  = "deprecated"  // deprecated, but still completely functional  
    ignored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS  
    removed     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile  
    newdefault  = "newdefault"  // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.  
    unsupported = "unsupported" // the plugin/option is not supported by the migration tool
)

// The following statuses are used for selecting/filtering notifications  
all = "all" // show all statuses  
)

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- Copy files to and from Containers in a cluster

# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `<path>`
- Remote file format is `<pod-name>:/<path>`

```
bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

---

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## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `<path>`
- Remote file format is `<pod-name>:<path>`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

## Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `<namespace>/`.

- `<pod-namespace>/<pod-name>:<path>`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```
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tomb - support for clean goroutine termination in Go.

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package engine

import (
    "bytes"
    "encoding/json"
    "strings"
    "testing"
    "time"
)

"github.com/docker/cli/cli/command/formatter"
"github.com/docker/cli/internal/licenseutils"
"github.com/docker/licensing/model"
"gotest.tools/v3/assert"
is "gotest.tools/v3/assert/cmp"
)

func TestSubscriptionContextWrite(t *testing.T) {
cases := []struct {
    context  formatter.Context
    expected string
} {
    // Errors
    {
        formatter.Context{Format: "{{InvalidFunction}}"},
        `Template parsing error: template: :1: function "InvalidFunction" not defined
        `, ``,
    },
    {
        formatter.Context{Format: "{{nil}}"},
        `Template parsing error: template: :1:2: executing "" at <nil>: nil is not a command
        `, ``,
    },
    // Table format
    {
        formatter.Context{Format: NewSubscriptionsFormat("table", false)},
        `NUM OWNER PRODUCT ID EXPIRES PRICING COMPONENTS
1 owner1 productid1 2020-01-01 10:00:00 +0000 UTC compstring
2 owner2 productid2 2020-01-01 10:00:00 +0000 UTC compstring
`, ``,
    },
    {
        formatter.Context{Format: NewSubscriptionsFormat("table", true)},
        `1:License Name: name1Quantity: 10 nodesExpiration date: 2020-01-01
        `,
    }
```
License Name: name2
Quantity: 20 nodes
Expiration date: 2020-01-01

OWNER
owner1
owner2

OWNER
owner1
owner2

// Raw Format

OWNER
owner1
owner2

// Custom Format

expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
for _, testcase := range cases {
    subscriptions := []licenseutils.LicenseDisplay{
        {
            Num:  1,
            Owner: "owner1",
            Subscription: model.Subscription{
                ID:    "id1",
                Name:  "name1",
                ProductID: "productid1",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name:  "nodes",
                        Value: 10,
                    },
                    ComponentsString: "compstring",
                },
                Num:  2,
                Owner: "owner2",
                Subscription: model.Subscription{
                    ID:    "id2",
                    Name:  "name2",
                    ProductID: "productid2",
                    Expires: &expiration,
                    PricingComponents: model.PricingComponents{
                        &model.SubscriptionPricingComponent{
                            Name:  "nodes",
                            Value: 20,
                        },
                        ComponentsString: "compstring",
                    },
                },
            out := &bytes.Buffer{ }
            testcase.context.Output = out
            err := SubscriptionsWrite(testcase.context, subscriptions)
            if err != nil {
                assert.Error(t, err, testcase.expected)
            } else {
                assert.Check(t, is.Equal(testcase.expected, out.String()))
            }
        }
    }
}
func TestSubscriptionContextWriteJSON(t *testing.T) {
    expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
    subscriptions := []licenseutils.LicenseDisplay{
        {
            Num: 1,
            Owner: "owner1",
            Subscription: model.Subscription{
                ID: "id1",
                Name: "name1",
                ProductID: "productid1",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name: "nodes",
                        Value: 10,
                    },
                },
                ComponentsString: "compstring",
            },
            Num: 2,
            Owner: "owner2",
            Subscription: model.Subscription{
                ID: "id2",
                Name: "name2",
                ProductID: "productid2",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name: "nodes",
                        Value: 20,
                    },
                },
                ComponentsString: "compstring",
            },
        },
    }
    expectedJSONs := []map[string]interface{}{
        {
            "Owner": "owner1",
            "ComponentsString": "compstring",
            "Expires": "2020-01-01T10:00:00Z",
            "DockerID": "",
            "Eusa": nil,
            "ID": "id1",
            "Start": nil,
        },
    }

    // Further test code...
}
"Name": "name1",
"Num": float64(1),
"PricingComponents": []interface{}{
  map[string]interface{}{
    "name": "nodes",
    "value": float64(10),
  },
},
"ProductID": "productid1",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name1
Quantity: 10 nodes
Expiration date: 2020-01-01",
},
{
  "Owner": "owner2",
  "ComponentsString": "compstring",
  "Expires": "2020-01-01T10:00:00Z",
  "DockerID": "",
  "Eusa": nil,
  "ID": "id2",
  "Start": nil,
  "Name": "name2",
  "Num": float64(2),
  "PricingComponents": []interface{}{
    map[string]interface{}{
      "name": "nodes",
      "value": float64(20),
    },
  },
  "ProductID": "productid2",
  "ProductRatePlan": "",
  "ProductRatePlanID": "",
  "State": "",
  "Summary": "License Name: name2
Quantity: 20 nodes
Expiration date: 2020-01-01",
},
assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
}
}
func TestSubscriptionContextWriteJSONField(t *testing.T) {
subscriptions := []licenseutils.LicenseDisplay{
{Num: 1, Owner: "owner1"},
{Num: 2, Owner: "owner2"},
}
out := &bytes.Buffer{}
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
var s string
if err := json.Unmarshal([]byte(line), &s); err != nil {
t.Fatal(err)
}
assert.Check(t, is.Equal(subscriptions[i].Owner, s))
}
}
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import (
    "time"
    "github.com/docker/cli/cli/command/formatter"
    "github.com/docker/cli/internal/licenseutils"
    "github.com/docker/licensing/model"
)

const (  
defaultSubscriptionsTableFormat = "table
  {{.Num}}	{{.Owner}}	{{.ProductID}}	{{.Expires}}	{{.ComponentsString}}"

defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}"
)

numHeader               = "NUM"
ownerHeader             = "OWNER"
licenseNameHeader       = "NAME"
idHeader                = "ID"
dockerIDHeader          = "DOCKER ID"
productIDHeader         = "PRODUCT ID"
productRatePlanHeader   = "PRODUCT RATE PLAN"
productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
startHeader             = "START"
expiresHeader           = "EXPIRES"
stateHeader             = "STATE"
eusaHeader              = "EUSA"
pricingComponentsHeader = "PRICING COMPONENTS"
)

// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) formatter.Format {
    switch source {
case formatter.TableFormatKey:
    if quiet {
        return defaultSubscriptionsQuietFormat
    }
    return defaultSubscriptionsTableFormat
case formatter.RawFormatKey:
    if quiet {
        return `license: {{.ID}}`
    }
    return `license: {{.ID}}
    name: {{.Name}}
    owner: {{.Owner}}
    components: {{.ComponentsString}}
    `}
    return formatter.Format(source)
}

// SubscriptionsWrite writes the context
func SubscriptionsWrite(ctx formatter.Context, subs []licenseutils.LicenseDisplay) error {
    render := func(format func(subContext formatter.SubContext) error) error {
        for _, sub := range subs {
            licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
            if err := format(licenseCtx); err != nil {
                return err
            }
        }
        return nil
    }
    licenseCtx := licenseContext{}
    licenseCtx.Header = map[string]string{
        "Num": numHeader,
        "Owner": ownerHeader,
        "Name": licenseNameHeader,
        "ID": idHeader,
        "DockerID": dockerIDHeader,
        "ProductID": productIDHeader,
        "ProductRatePlan": productRatePlanHeader,
        "ProductRatePlanID": productRatePlanIDHeader,
        "Start": startHeader,
        "Expires": expiresHeader,
        "State": stateHeader,
        "Eusa": eusaHeader,
        "ComponentsString": pricingComponentsHeader,
    }
    return ctx.Write(&licenseCtx, render)
}

type licenseContext struct {
    formatter.HeaderContext
    trunc bool
    l     licenseutils.LicenseDisplay
}
func (c *licenseContext) MarshalJSON() ([]byte, error) {
    return formatter.MarshalJSON(c)
}

func (c *licenseContext) Num() int {
    return c.l.Num
}

func (c *licenseContext) Owner() string {
    return c.l.Owner
}

func (c *licenseContext) ComponentsString() string {
    return c.l.ComponentsString
}

func (c *licenseContext) Summary() string {
    return c.l.String()
}

func (c *licenseContext) Name() string {
    return c.l.Name
}

func (c *licenseContext) ID() string {
    return c.l.ID
}

func (c *licenseContext) DockerID() string {
    return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
    return c.l.ProductID
}

func (c *licenseContext) ProductRatePlan() string {
    return c.l.ProductRatePlan
}

func (c *licenseContext) ProductRatePlanID() string {
    return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
    return c.l.Start
}
```go
func (c *licenseContext) Expires() *time.Time {
    return c.l.Expires
}

func (c *licenseContext) State() string {
    return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
    return c.l.Eusa
}

func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
    // Dereference the pricing component pointers in the pricing components
    // so it can be rendered properly with the template formatter

    var ret []model.SubscriptionPricingComponent
    for _, spc := range c.l.PricingComponents {
        if spc == nil {
            continue
        }
        ret = append(ret, *spc)
    }
    return ret
}

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import (  
    "context"  
    "crypto/hmac"  
    "crypto/sha256"  
    "encoding/base64"  
    "encoding/json"  
    "fmt"  
    "time"  
    "github.com/docker/libtrust"  
    "github.com/docker/licensing/lib/errors"  
    "github.com/docker/licensing/lib/go-clientlib"  
    "github.com/docker/licensing/model"  
)

func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {  
    url := c.baseURI  
    url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)

    license := new(model.IssuedLicense)  
    if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {  
        return nil, err
    }

    return license, nil
}

// Check verifies that the license identified by the given key id is valid. Note that it does not  
// interrogate the contents of the license.
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {  
    keyID := license.KeyID  
    privateKey := license.PrivateKey

    authorization, err := c.getAuthorization(ctx, license)  
    if err != nil {  
        return nil, err
    }

    signature, err := libtrust.ParseJWS(authorization)  
    if err != nil {  
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "license parse JWS failed")
    }

    // TODO: Mason - replace this parseJWS with a non libtrust lib
keys, err := signature.Verify()
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "license signature verification failed")
}

keyCnt := len(keys)
if keyCnt != 1 {
    err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
    return nil, errors.WithStack(err).With(errors.Fields{
        "key_id": keyID,
    })
}

key := keys[0]
if !c.recognizedSigningKey(key) {
    return nil, errors.New("unrecognized signing key")
}

payload, err := signature.Payload()
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "malformed signature payload")
}

checkRes := new(model.CheckResponse)
err = json.Unmarshal(payload, &checkRes)
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    })
}

return checkRes, nil

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
    for _, publicKey := range c.publicKeys {
        if key.KeyID() == publicKey.KeyID() {
            return true
        }
    }
    return false
}

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
    decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": license.KeyID,
        }, "decoding license authorization failed")
    }
    return decoded, nil
}

// All of the functions in this file assume that they are receiving a properly
// formatted private key.

// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the private key of the person who generated
// the token.
func checkToken(message, token, privateKey string) error {
    tokenBytes, err := base64.URLEncoding.DecodeString(token)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }
    generatedToken, err := generateToken(message, privateKey)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }
    generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }
    if !hmac.Equal(tokenBytes, generatedBytes) {
        return errors.Forbidden(errors.Fields{"token": token}, "invalid token")
    }
    return nil
// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
    key, err := base64.URLEncoding.DecodeString(privateKey)
    if err != nil {
        return "", errors.Wrap(err, errors.Fields{"msg": message})
    }
    h := hmac.New(sha256.New, key)
    h.Write([]byte(message))
    return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}

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package model

import "time"

// A CheckResponse is the internal content of the PublicCheckResponse signed json blob.
// A CheckResponse is the internal content of the PublicCheckResponse signed json blob.
type CheckResponse struct {
    Expiration time.Time `json:"expiration"
    Token string `json:"token"
    MaxEngines int `json:"maxEngines"
    ScanningEnabled bool `json:"scanningEnabled"
    Type string `json:"licenseType"
    Tier string `json:"tier"
}

// IssuedLicense represents an issued license
// IssuedLicense represents an issued license
type IssuedLicense struct {
    KeyID string `json:"key_id"
    PrivateKey string `json:"private_key"
    Authorization string `json:"authorization"
}

// Valid returns true if the License is syntactically valid, false otherwise
// Valid returns true if the License is syntactically valid, false otherwise
func (l *IssuedLicense) Valid() (bool, string) {
    if l.KeyID == "" {
        return false, "empty key_id"
    }
    if l.PrivateKey == "" {
        return false, "empty private_key"
    }
    if l.Authorization == "" {
        return false, "empty authorization"
    }
    return true, "valid"
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1.118 gogo-protobuf 1.3.2

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1.120 memkv 0.1.1

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1.124 go 1.15.2

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# This is the official list of people who can contribute
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# The AUTHORS file lists the copyright holders; this file
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* github.com/BurntSushi/toml - https://github.com/BurntSushi/toml

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* golang.org/x/mod/module - https://github.com/golang/mod

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* golang.org/x/tools/go/analysis - https://github.com/golang/tools

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tomb - support for clean goroutine termination in Go.

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package simulator

import {
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
}

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "serialuri:2",
                Value: "Remote virtual Serial Port Concentrator",
            },
        },
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "dvs",
                Value: "vSphere Distributed Switch",
            },
        },
    },
}

type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{
        Self: ref
        Licenses: []types.LicenseManagerLicenseInfo{EvalLicense}
    }

    if Map.IsVPX() {
am := Map.Put(&LicenseAssignmentManager{ }).Reference()
m.LicenseAssignmentManager = &am
}

return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{ },
    }
    
    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:     req.Labels,
    })
    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)
    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{ },
    }
    
    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...) 
            return body
        }
    }
    return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{} 
    
    for i := range m.Licenses {
        license := &m.Licenses[i]
if req.LicenseKey != license.LicenseKey {
    continue
}

body.Res = new(types.UpdateLicenseLabelResponse)

for j := range license.Labels {
    label := &license.Labels[j]

    if label.Key == req.LabelKey {
        if req.LabelValue == "" {
            license.Labels = append(license.Labels[:j], license.Labels[j+1:...])
        } else {
            label.Value = req.LabelValue
        }
        return body
    }
}

license.Labels = append(license.Labels, types.KeyValue{
    Key:   req.LabelKey,
    Value: req.LabelValue,
})

return body
}

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body
}

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }
        } else {
            id := types.ManagedObjectReference{
                Type: "VirtualMachine",
                Value: req.EntityId,
            }
        }
    } else {
        id := types.ManagedObjectReference{
            Type: "Datacenter",
            Value: req.EntityId,
        }
    }

    body.EntityId = id
    return body
}
if Map.Get(id) == nil {
    return body
}

body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
    {
        EntityId: req.EntityId,
        AssignedLicense: EvalLicense,
    },
}

return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}

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## Copying Container Files

### Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

### Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `/<path>`
- Remote file format is `<pod-name>::<path>`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

### Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `/<path>`
- Remote file format is `<pod-name>::<path>`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```
## Specify the Container

Specify the Container within a Pod running multiple containers.

- `\`-c <container-name>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with ``<namespace>`/`.

- `\`<pod-namespace>/<pod-name>:<path>`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
   Name string `json:"name,omitempty"`
   URL  string `json:"url,omitempty"
}

procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin     string
    Option     string // 'deprecated', 'removed', or 'unsupported'
    Severity   string // 'minor', 'major', or 'critical'
}
func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf("Plugin ", n.Plugin)
    } else {
        s += fmt.Sprintf("Option in plugin ", n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in ", n.Version + "."
    } else if n.Severity == newdefault {
        s += "is added as a default in ", n.Version + "."
    } else {
        s += "is in ", n.Version + "."
    }
    if n.ReplacedBy != "" {
        s += fmt.Sprintf(" It is replaced by ", n.ReplacedBy)
    }
    if n.Additional != "" {
        s += " " + n.Additional
    }
    return s
}

const (
    // The following statuses are used to indicate the state of support/deprecation in a given release.
    deprecated = "deprecated" // deprecated, but still completely functional
    ignored = "ignored" // if included in the corefile, it will be ignored by CoreDNS
    removed = "removed" // completely removed from CoreDNS, and would cause CoreDNS to exit if present in
    the Corefile
    newdefault = "newdefault" // added to the default corefile. CoreDNS may not function properly if it is not present
    in the corefile.
    unsupported = "unsupported" // the plugin/option is not supported by the migration tool

    // The following statuses are used for selecting/filtering notifications
    all = "all" // show all statuses
)
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```
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1.131 projectcalico-cni-plugin 3.18.4

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1.136 runc 1.3.9-1

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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1.140 utils 0.0.0-20191114184206-e782cd3c129f

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1.142 pcre 8.42 4.el8

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

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1361b9cd60be79c4c3a7fa9841b3c132e40066a
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1.146 go-uber-org-multierr 1.1.0

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1.147 libpwquality 1.4.0 9.el8

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mskala@ansuz.sooke.bc.ca
Wrote cipher/twofish.c.

GNUPG Natural Resources Canada  1998-08-11
Disclaims changes by Matthew Skala.

GNUPG Michael Roth Germany  1998-09-17
Assigns changes.
mroth@nessie.de
Wrote cipher/des.c.
Changes and bug fixes all over the place.

GNUPG Niklas Hernaeus 1998-09-18
Disclaims changes.
Weak key patches.

GNUPG

Mi Guyomarch 1999-05-25
Assigns past and future changes. (g10/compress.c, g10/encr-data.c, g10/free-packet.c, g10/mdfilter.c, g10/plaintext.c, util/iobuf.c)
rguyom@mail.dotcom.fr

ANY g10 Code GmbH 2001-06-07
Assignment for future changes terminated on 2012-12-04.
Code marked with ChangeLog entries of g10 Code employees.

LIBGCRYPT Timo Schulz 2001-08-31
Assigns past and future changes.
twoaday@freakmail.de

LIBGCRYPT Simon Josefsson 2002-10-25
Assigns past and future changes to FSF (cipher/{md4,crc}.c, CTR mode, CTS/MAC flags, self test improvements)
simon@josefsson.org

LIBGCRYPT Moritz Schulte 2003-04-17
Assigns past and future changes.
moritz@g10code.com

GNUTLS Nikolaos Mavrogiannopoulos 2003-11-22
nmav@gnutls.org
Original code for cipher/rfc2268.c.

LIBGCRYPT The Written Word 2005-04-15
Assigns past and future changes. (new: src/libgcrypt.pc.in, src/Makefile.am, src/secmem.c, mpi/hppa1.1/mpih-mul3.S, mpi/hppa1.1/udiv-qrnd.S, mpi/hppa1.1/mpih-mul2.S, mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c, tests/register.c, tests/ac.c, tests/basic.c, tests/texp.c, tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

LIBGCRYPT Brad Hards 2006-02-09
Assigns Past and Future Changes
bradh@frogmouth.net
(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex. added SHA-224, changed cipher/sha256.c, added HMAC tests.)

LIBGCRYPT Hye-Shik Chang 2006-09-07
Assigns Past and Future Changes
perky@freebsd.org
(SEED cipher)
LIBGCRYPT Werner Dittmann 2009-05-20
Assigns Past and Future Changes
werner.dittmann@t-online.de
 mpi/amd64, tests/mpitests.c

GNUPG David Shaw
Assigns past and future changes.
dshaw@jabberwocky.com
 (cipher/camellia-glue.c and related stuff)

LIBGCRYPT Andrey Jivsov 2010-12-09
Assigns Past and Future Changes
openpgp@brainhub.org
 (cipher/ecc.c and related files)

LIBGCRYPT Ulrich Müller 2012-02-15
Assigns Past and Future Changes
ulm@gentoo.org
 (Changes to cipher/idea.c and related files)

LIBGCRYPT Vladimir Serbinenko 2012-04-26
Assigns Past and Future Changes
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 (cipher/serpent.c)

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Jussi Kivilinna <jussi.kivilinna@mbnet.fi>
Libgcrypt used to be part of GnuPG but has been taken out into its own package on 2000-12-21.

Most of the stuff in mpi has been taken from an old GMP library version by Torbjorn Granlund <tege@noisy.tmg.se>.

The files cipher/rndunix.c and cipher/rndw32.c are based on those files from Cryptlib. Copyright Peter Gutmann, Paul Kendall, and Chris Wedgwood 1996-1999.

The ECC code cipher/ecc.c was based on code by Sergi Blanch i Torne, sergi at calcurco dot org.
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1.155 kubernetes-kubectl kubernetes-1.18.0

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# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `<path>`
- Remote file format is `<pod-name>:/<path>`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `~/<path>`
- Remote file format is `<pod-name>:/<path>`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

## Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `<namespace>/`.

- `<pod-namespace>/<pod-name>::<path>`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Protocol Buffers for Go with Gadgets

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http://github.com/gogo/protobuf

Go support for Protocol Buffers - Google's data interchange format

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1.163 gophercloud 0.1.0

1.163.1 Available under license:

package RESOURCE

import (  
    "github.com/gophercloud/gophercloud"  
    "github.com/gophercloud/gophercloud/pagination"  
)

// RESOURCE represents...

type Resource struct {
}

type commonResult struct {
    gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.

type GetResult struct {
    commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.

type CreateResult struct {
    commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.

type DeleteResult struct {
    gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.

type UpdateResult struct {
    commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
    resources, err := ExtractResources(r)
    return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
    var s struct {
        Links struct {
            Next string `json:"next"
            Previous string `json:"previous"
        } `json:"links"
    }
    err := r.ExtractInto(&s)
    if err != nil {
        return "", err
    }
    return s.Links.Next, err
}

// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
    var s struct {
        Resources []Resource `json:"resources"
    }
    err := (r.(ResourcePage)).ExtractInto(&s)
    return s.Resources, err
}

// Extract interprets any commonResult as a Resource.
func (r commonResult) Extract() (*Resource, error) {
    var s struct {
        Resource *Resource `json:"resource"
    }
    err := r.ExtractInto(&s)
    return s.Resource, err
}

Contributor Tutorial
====================

This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.
While we have a defined process for working on Gophercloud, we're very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 5: Writing the Code

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](/github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](/github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.
### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* https://github.com/gophercloud/gophercloud/pull/584
* https://github.com/gophercloud/gophercloud/pull/586
* https://github.com/gophercloud/gophercloud/pull/587
* https://github.com/gophercloud/gophercloud/pull/594

You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request
---------------------------------

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests
Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're testing with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

### Dealing with Related Pull Requests

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```
  $ git checkout master
  $ git pull
  $ git checkout -b identityv3-regions-create
  $ (write your code)
  $ git add .
  $ git commit -m "Implementing Regions Create"

  $ git checkout master
  $ git checkout -b identityv3-regions-update
  $ (write your code)
```
Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child Pull Requests based off of the parent.

The choice of method is up to you.
Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

Step 6: Code Review

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.
There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review

---------------------

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used).

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes

-------------------

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal

-------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.
Please proceed to [Step 7](step-07-congratulations.md).

```go
package testing

import {
    "fmt"
    "net/http"
    "testing"

    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
}

// ListResult provides a single page of RESOURCE results.
const ListResult = `{
} `

// GetResult provides a Get result.
const GetResult = `{
} `

// CreateRequest provides the input to a Create request.
const CreateRequest = `{
} `

// UpdateRequest provides the input to an Update request.
const UpdateRequest = `{
} `

// UpdateResult provides an update result.
const UpdateResult = `{
} `

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{ }

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{ }
```
// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{}

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handlermux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, ListResult)
    })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handlermux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handlermux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "POST")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, CreateRequest)

        w.WriteHeader(http.StatusCreated)
        fmt.Fprintf(w, GetResult)
    })
}
// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
test handlermux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "DELETE")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.WriteHeader(http.StatusNoContent)
    })
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "PATCH")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, UpdateRequest)
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, UpdateResult)
    })
}

package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
    q, err := gophercloud.BuildQueryString(opts)
    return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
url := listURL(client)
if opts != nil {
    query, err := opts.ToResourceListQuery()
    if err != nil {
        return pagination.Pager{Err: err}
    }
    url += query
}
    return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
})

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    _, r.Err = client.Get(getURL(client, id), &r.Body, nil)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
    // ToResourceCreateMap formats a CreateOpts into a create request.
    func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
        return gophercloud.BuildRequestBody(opts, "resource")
    }

    // Create creates a new RESOURCE.
    func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
        b, err := opts.ToResourceCreateMap()
        if err != nil {
            r.Err = err
            return
        }
        _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
            OkCodes: []int{201},
        })
    return
}

    // Delete deletes a RESOURCE.
// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    return
}

package testing

import (
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)
count := 0
    count++
    actual, err := resources.ExtractResources(page)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
    return true, nil
})
th.AssertNoErr(t, err)
th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
    actual, err := resources.ExtractResources(allPages)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleGetResourceSuccessfully(t)

    actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
    th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleCreateResourceSuccessfully(t)

    createOpts := resources.CreateOpts{
        Name: "resource two",
    }

    actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
    th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
  th.SetupHTTP()
  defer th.TeardownHTTP()
  HandleDeleteResourceSuccessfully(t)

  res := resources.Delete(client.ServiceClient(), "9fe1d3")
  th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
  th.SetupHTTP()
  defer th.TeardownHTTP()
  HandleUpdateResourceSuccessfully(t)

  updateOpts := resources.UpdateOpts{
    Description: "Staging Resource",
  }

  actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
  th.AssertNoErr(t, err)
  th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

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package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}
Step 7: Congratulations!
=================================

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

Step 4: Acceptance Testing
=================================

If we haven't started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

"/

Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/
package RESOURCE
Step 2: Create an Issue

Every patch / Pull Request requires a corresponding issue. If you're fixing
a bug for an existing issue, then there’s no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

When reporting a bug, please try to provide as much information as you
can.

The following issues are good examples for reporting a bug:

* https://github.com/gophercloud/gophercloud/issues/108
* https://github.com/gophercloud/gophercloud/issues/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
* https://github.com/gophercloud/gophercloud/issues/629
* https://github.com/gophercloud/gophercloud/issues/647

Feature Request

If you've noticed that a feature is missing from Gophercloud, you'll also
need to create an issue before doing any work. This is start a discussion about
whether or not the feature should be included in Gophercloud. We don't want to
want to see you put in hours of work only to learn that the feature is out of
scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and
responses: pagination, error handling, building request bodies, and parsing
response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than
other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* https://github.com/gophercloud/gophercloud/issues/723

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

**Step 3: Code Hunting**

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example:
[https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621). In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package. Meaning, we want to change:

```go
type Network struct {
    ID    string `json:"id"
    Name  string `json:"name"
    AdminStateUp bool `json:"admin_state_up"
    Status string `json:"status"
}`
```
Open Source Used In Crosswork Platform Infrastructure cw-infra-opensource-4.3.0  2811

Subnets  []string `json:"subnets"
TenantID  string  `json:"tenant_id"
Shared    bool    `json:"shared"
}
```

to look like
```go
type Network struct {
  ID               string   `json:"id"
  Name             string   `json:"name"
  AdminStateUp     bool     `json:"admin_state_up"
  Status           string   `json:"status"
  Subnets          []string `json:"subnets"
  TenantID         string   `json:"tenant_id"
  Shared           bool     `json:"shared"
  AvailabilityZoneHints []string `json:"availability_zone_hints"
}
```

We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/).

However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying that the API docs aren't useful or that the contributors who work on the API docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191
The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[ ]string`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Code Hunting Tips

-------------

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

Step 1: Read Our Guides

-----------------------

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.
* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

1.164 golang-genproto 0.0.0-20180817151627-c66870c02cf8

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1165 go-shellwords 1.0.5

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L. Peter Deutsch
ghost@aladdin.com

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1.178 gotenv 1.2.0

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1.179 coredns-federation 0.0.0-20190818181423-e032b096babe

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1.180 logrus 1.4.1

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1.186 client-golang 0.8.0

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1.196 pb 1.0.25

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1.198 cpp 8.3.0-6

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1.200 protobuf 1.2.1

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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1.201 govmomi 0.20.3

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 */

package license

import (
    "context"
    "flag"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
    "github.com/vmware/govmomi/vim25/types"
)

type assign struct {
*flags.ClientFlag
*flags.OutputFlag
*flags.HostSystemFlag
*flags.ClusterFlag

name string
remove bool

func init() {
cli.Register("license.assign", &assign{})
}

func (cmd *assign) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)
    
    cmd.HostSystemFlag, ctx = flags.NewHostSystemFlag(ctx)
    cmd.HostSystemFlag.Register(ctx, f)
    
    cmd.ClusterFlag, ctx = flags.NewClusterFlag(ctx)
    cmd.ClusterFlag.Register(ctx, f)
    
    f.StringVar(&cmd.name, "name", "", "Display name")
    f.BoolVar(&cmd.remove, "remove", false, "Remove assignment")
}

func (cmd *assign) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    
    if err := cmd.HostSystemFlag.Process(ctx); err != nil {
        return err
    }
    return cmd.ClusterFlag.Process(ctx)
}

func (cmd *assign) Usage() string {
    return "KEY"
}

func (cmd *assign) Description() string {


return `Assign licenses to HOST or CLUSTER.

Examples:
govc license.assign $VCSA_LICENSE_KEY
govc license.assign -host a_host.example.com $ESX_LICENSE_KEY
govc license.assign -cluster a_cluster $VSAN_LICENSE_KEY`
}

```golang
func (cmd *assign) Run(ctx context.Context, f *flag.FlagSet) error {
    if f.NArg() != 1 {
        return flag.ErrHelp
    }

    key := f.Arg(0)

    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m, err := license.NewManager(client).AssignmentManager(ctx)
    if err != nil {
        return err
    }

    host, err := cmd.HostSystemIfSpecified()
    if err != nil {
        return err
    }

    var id string
    if host == nil {
        cluster, cerr := cmd.ClusterIfSpecified()
        if cerr != nil {
            return cerr
        }

        if cluster == nil {
            // Default to vCenter UUID
            id = client.ServiceContent.About.InstanceUuid
        } else {
            id = cluster.Reference().Value
        }
    } else {
        id = host.Reference().Value
    }

    if cmd.remove {
```
return m.Remove(ctx, id)
}

info, err := m.Update(ctx, id, key, cmd.name)
if err != nil {
    return err
}

return cmd.WriteResult(licenseOutput([]types.LicenseManagerLicenseInfo{*info}))
*/

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*/

package license

import {
    "context"
    "flag"
    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
}

var featureUsage = "List licenses with given feature"

type ls struct {
    *flags.ClientFlag
    *flags.OutputFlag

    feature string
}

func init() {
    cli.Register("license.ls", &ls{})
func (cmd *ls) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)
    f.StringVar(&cmd.feature, "feature", "", featureUsage)
}

func (cmd *ls) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *ls) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    m := license.NewManager(client)
    result, err := m.List(ctx)
    if err != nil {
        return err
    }
    if cmd.feature != "" {
        result = result.WithFeature(cmd.feature)
    }
    return cmd.WriteResult(licenseOutput(result))
}

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*/

package license

import (
    "context"
    "flag"
    "fmt"

    "github.com/vmware/govmomi/govc/cl"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
    "github.com/vmware/govmomi/govmomi/vim25/types"
)

type add struct {
    *flags.ClientFlag
    *flags.OutputFlag
}

func init() {
    cli.Register("license.add", &add{ })
}

func (cmd *add) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)
}

func (cmd *add) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}
func (cmd *add) Usage() string {
    return "KEY..."
}

func (cmd *add) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m := license.NewManager(client)

    // From the vSphere 5.5 documentation:
    //
    // To specify the edition type and any optional functions, use
    // updateLicense for ESX Server and addLicense follow by
    // LicenseAssingmentManager.updateAssignedLicense for VirtualCenter.
    //
    var addFunc func(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error)
    switch t := client.ServiceContent.About.ApiType; t {
        case "HostAgent":
            addFunc = m.Update
        case "VirtualCenter":
            addFunc = m.Add
        default:
            return fmt.Errorf("unsupported ApiType: %s", t)

    }

    result := make(licenseOutput, 0)
    for _, v := range f.Args() {
        license, err := addFunc(ctx, v, nil)
        if err != nil {
            return err
        }
        result = append(result, license)
    }

    return cmd.WriteResult(licenseOutput(result))
}

load test_helper

# These tests should only run against a server running an evaluation license.
verify_evaluation() {
    if [ "$govc license.ls -json | jq -r .[0].EditionKey" != "eval" ]; then
skip "requires evaluation license"
fi
}

get_key() {
  jq ".[] | select(.LicenseKey == "$1")"
}

get_property() {
  jq -r ".Properties[] | select(.Key == "$1") .Value"
}

get_label() {
  govc license.ls -json | jq ".[] | select(.LicenseKey == "$1") .Labels[] .Key" | wc -l
}

get_nlabel() {
  govc license.ls -json | jq ".[] | select(.LicenseKey == "$1") .Labels[].Key" | wc -l
}

@test "license.add" {
  esx_env

  verify_evaluation

  run govc license.add -json 00000-00000-00000-00000-00001 00000-00000-00000-00000-00002
  assert_success

  # Expect to see an entry for both the first and the second key
  assert_equal "License is not valid for this product" "$(get_key 00000-00000-00000-00000-00001 <<<${output} | get_property diagnostic)"
  assert_equal "License is not valid for this product" "$(get_key 00000-00000-00000-00000-00002 <<<${output} | get_property diagnostic)"
}

@test "license.remove" {
  esx_env

  verify_evaluation

  run govc license.remove -json 00000-00000-00000-00000-00001
  assert_success
}

@test "license.ls" {
  vcsim_env

  verify_evaluation

run govc license.ls -json
assert_success

# Expect the test instance to run in evaluation mode
assert_equal "Evaluation Mode" "$(get_key 00000-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000 <<<$output | jq -r ".Name")"

@test "license.decode" {
esx_env
verify_evaluation

key=00000-00000-00000-00000-00000
assert_equal "eval" $(govc license.decode $key | grep $key | awk '{print $2}')
}

@test "license.label.set" {
vcsim_env
key=00000-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000
assert_equal 0 "$(get_nlabel $key)"
assert_equal "" "$(get_label $key foo)"

run govc license.label.set $key foo bar
assert_success

assert_equal 1 "$(get_nlabel $key)"
assert_equal bar "$(get_label $key foo)"

run govc license.label.set $key biz baz
assert_success
run govc license.label.set $key foo bar2
assert_success

assert_equal 2 "$(get_nlabel $key)"
assert_equal bar2 "$(get_label $key foo)"

run govc license.label.set $key foo ""
assert_success

assert_equal 1 "$(get_nlabel $key)"
assert_equal "" "$(get_label $key foo)"
}
/*

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package simulator

import (
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "serialuri:2",
                Value: "Remote virtual Serial Port Concentrator",
            }
        }
    }
}
Key: "feature",
Value: types.KeyValue{
  Key: "dvs",
  Value: "vSphere Distributed Switch",
},
},
},
},
}

type LicenseManager struct {
  moLICENSEMANAGER
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
  m := &LicenseManager{
    Self: ref
    Licenses: []types.LicenseManagerLicenseInfo{EvalLicense}
  }
  if Map.IsVPX() {
    am := Map.Put(&LicenseAssignmentManager{}).Reference()
    m.LicenseAssignmentManager = &am
  }

  return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
  body := &methods.AddLicenseBody{
    Res: &types.AddLicenseResponse{},
  }
  for _, license := range m.Licenses {
    if license.LicenseKey == req.LicenseKey {
      body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
      return body
    }
  }

  m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
    LicenseKey: req.LicenseKey,
    Labels: req.Labels,
  })

  body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

  return body
func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)
            return body
        }
    }

    return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{

    for i := range m.Licenses {
        license := &m.Licenses[i]

        if req.LicenseKey != license.LicenseKey {
            continue
        }

        body.Res = new(types.UpdateLicenseLabelResponse)

        for j := range license.Labels {
            label := &license.Labels[j]

            if label.Key == req.LabelKey {
                if req.LabelValue == "" {
                    license.Labels = append(license.Labels[:i], license.Labels[i+1:]...)
                } else {
                    label.Value = req.LabelValue
                }
            } else {
                return body
            }
        }

        license.Labels = append(license.Labels, types.KeyValue{
            Key:   req.LabelKey,
            Value: req.LabelValue,
        })

        return body
    }
}
body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault
{
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{
            
            
            
            
            
            
            
        }
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != ""
    {
        if req.EntityId != Map.content().About.InstanceUuid
        {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }

            if Map.Get(id) == nil
            {
                return body
            }
            
            
            
            
            
            
            
            
        }
    
    }

    body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
        {
            EntityId: req.EntityId,
            AssignedLicense: EvalLicense,
        },
    }

    return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}
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package license

import (  
"context"  
"flag"

"github.com/vmware/govmomi/govc/cli"

 /*
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*/


type label struct {
    *flags.ClientFlag
}

func init() {
    cli.Register("license.label.set", &label{})
}

func (cmd *label) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
}

func (cmd *label) Usage() string {
    return "LICENSE KEY VAL"
}

func (cmd *label) Description() string {
    return `Set license labels.
Examples:
govc license.label.set 00000-00000-00000-00000-00000 team cnx # add/set label
govc license.label.set 00000-00000-00000-00000-00000 team "" # remove label
govc license.ls -json | jq ".[].select(.Labels[].Key == "team")|.LicenseKey"
}

func (cmd *label) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m := license.NewManager(client)

    if f.NArg() != 3 {
        return flag.ErrHelp
    }

    req := types.UpdateLicenseLabel{
        This:       m.Reference(),
        LicenseKey: f.Arg(0),
        LabelKey:   f.Arg(1),
    }
LabelValue: f.Arg(2),
}

_, err = methods.UpdateLicenseLabel(ctx, m.Client(), &req)
return err
}
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*/

package simulator

import (  
"context"  
"reflect"  
"testing"

"github.com/vmware/govmomi"  
"github.com/vmware/govmomi/find"  
"github.com/vmware/govmomi/license"
)

func TestLicenseManagerVPX(t *testing.T) {  
ctx := context.Background()  
m := VPX()

deferr m.Remove()

err := m.Create()
if err != nil {  
t.Fatal(err)  }

s := m.Service.NewServer()
defer s.Close()
c, err := govmomi.NewClient(ctx, s.URL, true)
if err != nil {
    t.Fatal(err)
}

lm := license.NewManager(c.Client)
am, err := lm.AssignmentManager(ctx)
if err != nil {
    t.Fatal(err)
}

la, err := am.QueryAssigned(ctx, "enoent")
if err != nil {
    t.Fatal(err)
}

if len(la) != 0 {
    t.Errorf("unexpected license")
}

finder := find.NewFinder(c.Client, false)
hosts, err := finder.HostSystemList(ctx, "/...")
if err != nil {
    t.Fatal(err)
}

host := hosts[0].Reference().Value

for _, name := range []string{"", host, vcid} {
    la, err = am.QueryAssigned(ctx, name)
    if err != nil {
        t.Fatal(err)
    }

    if len(la) != 1 {
        t.Fatal("no licenses")
    }

    if !reflect.DeepEqual(la[0].AssignedLicense, EvalLicense) {
        t.Fatal("invalid license")
    }
}

func TestLicenseManagerESX(t *testing.T) {
    ctx := context.Background()
    m := ESX()
defer m.Remove()

err := m.Create()
if err != nil {
    t.Fatal(err)
}

s := m.Service.NewServer()
defers.Close()

c, err := govmomi.NewClient(ctx, s.URL, true)
if err != nil {
    t.Fatal(err)
}

lm := license.NewManager(c.Client)
_, err = lm.AssignmentManager(ctx)
if err == nil {
    t.Fatal("expected error")
}

la, err := lm.List(ctx)
if err != nil {
    t.Fatal(err)
}

if len(la) != 1 {
    t.Fatal("no licenses")
}

func TestAddRemoveLicense(t *testing.T) {
    cxt := context.Background()
m := ESX()

defer m.Remove()

err := m.Create()
if err != nil {
    t.Fatal(err)
}

s := m.Service.NewServer()
defer s.Close()

c, err := govmomi.NewClient(ctx, s.URL, true)
if err != nil {
    t.Fatal(err)
}

lm := license.NewManager(c.Client)
key := "00000-00000-00000-00000-11111"
labels := map[string]string{"key": "value"}

info, err := lm.Add(ctx, key, labels)
if err != nil {
    t.Fatal(err)
}

if info.LicenseKey != key {
    t.Fatalf("expect info.LicenseKey equal to %q; got %q", key, info.LicenseKey)
}

if len(info.Labels) != len(labels) {
    t.Fatalf("expect len(info.Labels) equal to %d; got %d", len(labels), len(info.Labels))
}

if info.Labels[0].Key != "key" || info.Labels[0].Value != "value" {
    t.Fatalf("expect label to be {key:value}; got {\%s:\%s}\n\ninfo.Labels[0].Key, info.Labels[0].Value")
}

la, err := lm.List(ctx)
if err != nil {
    t.Fatal(err)
}

if len(la) != 2 {
    t.Fatal("no licenses")
}

if la[1].LicenseKey != key {
    t.Fatalf("expect info.LicenseKey equal to %q; got %q", key, la[1].LicenseKey)
}

if len(la[1].Labels) != len(labels) {
    t.Fatalf("expect len(info.Labels) equal to %d; got %d", len(labels), len(la[1].Labels))
}
if la[1].Labels[0].Key != "key" || la[1].Labels[0].Value != "value" {
    t.Fatalf("expect label to be {key:value}; got {%s:%s}",
    la[1].Labels[0].Key, la[1].Labels[0].Value)
}

err = lm.Remove(ctx, key)
if err != nil {
    t.Fatal(err)
}

la, err = lm.List(ctx)
if err != nil {
    t.Fatal(err)
}

if len(la) != 1 {
    t.Fatal("no licenses")
}
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*/

package license

import (
    "context"
    "flag"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
)

type decode struct {
    *flags.ClientFlag
    *flags.OutputFlag

    feature string
}

func init() {
    cli.Register("license.decode", &decode{})
}

func (cmd *decode) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)

    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)

    f.StringVar(&cmd.feature, "feature", ",", featureUsage)
}

Open Source Used In Crosswork Platform Infrastructure cw-infra-opensource-4.3.0 2961
func (cmd *decode) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *decode) Usage() string {
    return "KEY..."
}

func (cmd *decode) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    var result license.InfoList
    m := license.NewManager(client)
    for _, v := range f.Args() {
        license, err := m.Decode(ctx, v)
        if err != nil {
            return err
        }
        result = append(result, license)
    }
    if cmd.feature != ""
        result = result.WithFeature(cmd.feature)
    }
    return cmd.WriteResult(licenseOutput(result))
}

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*/

package license
import (
    "context"
    "strconv"
    "strings"

    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/types"
)

type Manager struct {
    object.Common
}

func NewManager(c *vim25.Client) *Manager {
    m := Manager{
        object.NewCommon(c, *c.ServiceContent.LicenseManager),
    }
    return &m
}

func mapToKeyValueSlice(m map[string]string) []types.KeyValue {
    var r []types.KeyValue
    for k, v := range m {
        r = append(r, types.KeyValue{Key: k, Value: v})
    }
    return r
}

func (m Manager) Add(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error) {
    req := types.AddLicense{
        This:       m.Reference(),
        LicenseKey: key,
        Labels:     mapToKeyValueSlice(labels),
    }
    res, err := methods.AddLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }
    return res.Returnval, nil
}
func (m Manager) Decode(ctx context.Context, key string) (types.LicenseManagerLicenseInfo, error) {
    req := types.DecodeLicense{
        This:       m.Reference(),
        LicenseKey: key,
    }

    res, err := methods.DecodeLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }

    return res.Returnval, nil
}

func (m Manager) Remove(ctx context.Context, key string) error {
    req := types.RemoveLicense{
        This:       m.Reference(),
        LicenseKey: key,
    }

    _, err := methods.RemoveLicense(ctx, m.Client(), &req)
    return err
}

func (m Manager) Update(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error) {
    req := types.UpdateLicense{
        This:       m.Reference(),
        LicenseKey: key,
        Labels:     mapToKeyValueSlice(labels),
    }

    res, err := methods.UpdateLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }

    return res.Returnval, nil
}

func (m Manager) List(ctx context.Context) (InfoList, error) {
    var mlm mo.LicenseManager

    err := m.Properties(ctx, m.Reference(), []string{"licenses"}, &mlm)
    if err != nil {
        return nil, err
    }

    return mlm.InfoList, nil
}
return InfoList(mlm.Licenses), nil
}

func (m Manager) AssignmentManager(ctx context.Context) (*AssignmentManager, error) {
    var mlm mo.LicenseManager

    err := m.Properties(ctx, m.Reference(), []string{"licenseAssignmentManager"}, &mlm)
    if err != nil {
        return nil, err
    }

    if mlm.LicenseAssignmentManager == nil {
        return nil, object.ErrNotSupported
    }

    am := AssignmentManager{
        object.NewCommon(m.Client(), *mlm.LicenseAssignmentManager),
    }

    return &am, nil
}

type licenseFeature struct {
    name  string
    level int
}

func parseLicenseFeature(feature string) *licenseFeature {
    lf := new(licenseFeature)
    f := strings.Split(feature, ":")
    lf.name = f[0]
    if len(f) > 1 {
        var err error
        lf.level, err = strconv.Atoi(f[1])
        if err != nil {
            lf.name = feature
        }
    }

    return lf
}

func HasFeature(license types.LicenseManagerLicenseInfo, key string) bool {
    feature := parseLicenseFeature(key)
for _, p := range license.Properties {
    if p.Key != "feature" {
        continue
    }

    kv, ok := p.Value.(types.KeyValue)

    if !ok {
        continue
    }

    lf := parseLicenseFeature(kv.Key)

    if lf.name == feature.name && lf.level >= feature.level {
        return true
    }
}

return false

// InfoList provides helper methods for []types.LicenseManagerLicenseInfo

var InfoList []types.LicenseManagerLicenseInfo

func (l InfoList) WithFeature(key string) InfoList {
    var result InfoList

    for _, license := range l {
        if HasFeature(license, key) {
            result = append(result, license)
        }
    }

    return result
}

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package license

import {
    "context"
    "flag"
    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
}

type remove struct {
    *flags.ClientFlag
    *flags.OutputFlag
}

func init() {
    cli.Register("license.remove", &remove{ })
}

func (cmd *remove) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)
}

func (cmd *remove) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *remove) Usage() string {
    return "KEY..."
}

func (cmd *remove) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    if err := nil {
return err
}

m := license.NewManager(client)
for _, v := range f.Args() {
  err = m.Remove(ctx, v)
  if err != nil {
    return err
  }
}

return nil
}
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*/

package license

import (
  "context"
  "flag"
  "fmt"
  "io"
  "os"
  "text/tabwriter"

  "github.com/vmware/govmomi/govc/cli"
  "github.com/vmware/govmomi/govc/flags"
  "github.com/vmware/govmomi/license"
  "github.com/vmware/govmomi/vim25/types"
)

type assigned struct {
  *flags.ClientFlag
  *flags.OutputFlag
id string

func init() {
    cli.Register("license.assigned.ls", &assigned{ })
}

func (cmd *assigned) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)

    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)

    f.StringVar(&cmd.id, "id", "", "Entity ID")
}

func (cmd *assigned) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *assigned) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    m, err := license.NewManager(client).AssignmentManager(ctx)
    if err != nil {
        return err
    }
    assigned, err := m.QueryAssigned(ctx, cmd.id)
    if err != nil {
        return err
    }
    return cmd.WriteResult(assignedOutput(assigned))
}

type assignedOutput []types.LicenseAssignmentManagerLicenseAssignment
func (res assignedOutput) Write(w io.Writer) error {
    tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)
    fmt.Fprintf(tw, "Id:	Scope:	Name:	License:
"
    for _, v := range res {
        fmt.Fprintf(tw, "%s	", v.EntityId)
        fmt.Fprintf(tw, "%s	", v.Scope)
        fmt.Fprintf(tw, "%s	", v.EntityDisplayName)
        fmt.Fprintf(tw, "%s	", v.AssignedLicense.LicenseKey)
        fmt.Fprintf(tw, "\n")
    }
    return tw.Flush()
}

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import (  
 "fmt"  
 "io"  
 "os"  
 "text/tabwriter"

 "github.com/vmware/govmomi/vim25/types"
)

type licenseOutput []types.LicenseManagerLicenseInfo

func (res licenseOutput) Write(w io.Writer) error {  
tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)  
fmt.Fprintf(tw, "Key:	Edition:	Used:	Total:
")  
for _, v := range res {  
fmt.Fprintf(tw, "%s	", v.LicenseKey)  
fmt.Fprintf(tw, "%s	", v.EditionKey)  
fmt.Fprintf(tw, "%d	", v.Used)  
fmt.Fprintf(tw, "%d	", v.Total)  
fmt.Fprintf(tw, "\n")  
}  
return tw.Flush()
}

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    "context"
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/types"
)

type AssignmentManager struct {
    object.Common
}

func (m AssignmentManager) QueryAssigned(ctx context.Context, id string) ([]types.LicenseAssignmentManagerLicenseAssignment, error) {
    req := types.QueryAssignedLicenses{
        This:     m.Reference(),
        EntityId: id,
    }

    res, err := methods.QueryAssignedLicenses(ctx, m.Client(), &req)
    if err != nil {
        return nil, err
    }

    return res.Returnval, nil
}

func (m AssignmentManager) Remove(ctx context.Context, id string) error {
    req := types.RemoveAssignedLicense{
        This:     m.Reference(),
        EntityId: id,
    }

    _, err := methods.RemoveAssignedLicense(ctx, m.Client(), &req)

    return err
}

func (m AssignmentManager) Update(ctx context.Context, id string, key string, name string) (*types.LicenseManagerLicenseInfo, error) {
    req := types.UpdateAssignedLicense{
        This:              m.Reference(),
        Entity:            id,
        LicenseKey:        key,
        EntityDisplayName: name,
    }

    res, err := methods.UpdateAssignedLicense(ctx, m.Client(), &req)

    return res, err
}
res, err := methods.UpdateAssignedLicense(ctx, m.Client(), &req)
if err != nil {
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}

return &res.Returnval, nil

1.202 go-systemd 0.0.0-20180511133405-39ca1b05acc7

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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package engine

import {
  "bytes"
  "encoding/json"
  "strings"
  "testing"
  "time"

  "github.com/docker/cli/cli/command/formatter"
  "github.com/docker/cli/internal/licenseutils"
  "github.com/docker/licensing/model"
  "gotest.tools/v3/assert"
  is "gotest.tools/v3/assert/cmp"
}

func TestSubscriptionContextWrite(t *testing.T) {
  cases := []struct {
    context  formatter.Context
    expected string
  }

  // Errors
  
  formatter.Context{Format: "{{InvalidFunction}}"},
  "Template parsing error: template: :1: function "InvalidFunction" not defined",
  
  formatter.Context{Format: "{{nil}}"},
Template parsing error: template: :1:2: executing "" at <nil>: nil is not a command

// Table format
{
  formatter.Context{Format: NewSubscriptionsFormat("table", false)},
  NUM       OWNER     PRODUCT ID          EXPIRES                         PRICING COMPONENTS
  1         owner1   productid1          2020-01-01 10:00:00 +0000 UTC   compstring
  2         owner2   productid2          2020-01-01 10:00:00 +0000 UTC   compstring

  formatter.Context{Format: NewSubscriptionsFormat("table", true)},
  1:License Name: name1
    Quantity: 10 nodes
    Expiration date: 2020-01-01
  2:License Name: name2
    Quantity: 20 nodes
    Expiration date: 2020-01-01

  formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", false)},
  "OWNER
  owner1
  owner2
  
  formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", true)},
  "OWNER
  owner1
  owner2
  
  // Raw Format
  {
    license: id1
    name: name1
    owner: owner1
    components: compstring

    license: id2
    name: name2
    owner: owner2
    components: compstring

    
  },
license: id1
license: id2
`
`,
},

// Custom Format
{
formatter.Context{Format: NewSubscriptionsFormat("{{.Owner}}", false)},
`owner1
owner2
`
},

expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

for _, testcase := range cases {
subscriptions := []licenseutils.LicenseDisplay{
  {
    Num: 1,
    Owner: "owner1",
    Subscription: model.Subscription{
      ID: "id1",
      Name: "name1",
      ProductID: "productid1",
      Expires: &expiration,
      PricingComponents: model.PricingComponents{
        &model.SubscriptionPricingComponent{
          Name: "nodes",
          Value: 10,
        },
      },
      ComponentsString: "compstring",
    },
    {
      Num: 2,
      Owner: "owner2",
      Subscription: model.Subscription{
        ID: "id2",
        Name: "name2",
        ProductID: "productid2",
        Expires: &expiration,
        PricingComponents: model.PricingComponents{
          &model.SubscriptionPricingComponent{
            Name: "nodes",
            Value: 20,
          },
        },
      }
    }
  }
}
func TestSubscriptionContextWriteJSON(t *testing.T) {
    expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
    subscriptions := []licenseutils.LicenseDisplay{
        {
            Num:  1,
            Owner: "owner1",
            Subscription: model.Subscription{
                ID:    "id1",
                Name:  "name1",
                ProductID: "productid1",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name:  "nodes",
                        Value: 10,
                    },
                },
                ComponentsString: "compstring",
            },
            },
        },
        {
            Num:  2,
            Owner: "owner2",
            Subscription: model.Subscription{
                ID:    "id2",
                Name:  "name2",
                ProductID: "productid2",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name:  "nodes",
                        Value: 20,
                    },
                },
                ComponentsString: "compstring",
            },
        }
    }
    out := &bytes.Buffer{
    }
    testcase.context.Output = out
    err := SubscriptionsWrite(testcase.context, subscriptions)
    if err != nil {
        assert.Error(t, err, testcase.expected)
    } else {
        assert.Check(t, is.Equal(testcase.expected, out.String()))
    }
}

// Open Source Used In Crosswork Platform Infrastructure
cw-infra-opensource-4.3.0  3066
expectedJSONs := []map[string]interface{}{
    {
        "Owner":            "owner1",
        "ComponentsString": "compstring",
        "Expires":          "2020-01-01T10:00:00Z",
        "DockerID":         "",
        "Eusa":             nil,
        "ID":               "id1",
        "Start":            nil,
        "Name":             "name1",
        "Num":              float64(1),
        "PricingComponents": []interface{}{
            map[string]interface{}{
                "name":  "nodes",
                "value": float64(10),
            },
        },
        "ProductID":         "productid1",
        "ProductRatePlan":   "",
        "ProductRatePlanID": "",
        "State":             "",
        "Summary":           "License Name: name1\tQuantity: 10 nodes\tExpiration date: 2020-01-01",
    },
    {
        "Owner":            "owner2",
        "ComponentsString": "compstring",
        "Expires":          "2020-01-01T10:00:00Z",
        "DockerID":         "",
        "Eusa":             nil,
        "ID":               "id2",
        "Start":            nil,
        "Name":             "name2",
        "Num":              float64(2),
        "PricingComponents": []interface{}{
            map[string]interface{}{
                "name":  "nodes",
                "value": float64(20),
            },
        },
        "ProductID":         "productid2",
        "ProductRatePlan":   "",
        "ProductRatePlanID": "",
        "State":             "",
    },
}
"Summary": "License Name: name2\nQuantity: 20 nodes\nExpiration date: 2020-01-01",
}
}

out := &bytes.Buffer{
err := SubscriptionsWrite(formatter.Context{Format: "{{json .}}", Output: out}, subscriptions)
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
    var m map[string]interface{}
    if err := json.Unmarshal([]byte(line), &m); err != nil {
t.Fatal(err)
}
    assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
}
}

func TestSubscriptionContextWriteJSONField(t *testing.T) {
subscriptions := [][]licenseutils.LicenseDisplay{
    {Num: 1, Owner: "owner1"},
    {Num: 2, Owner: "owner2"},
}
out := &bytes.Buffer{
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
    var s string
    if err := json.Unmarshal([]byte(line), &s); err != nil {
t.Fatal(err)
}
    assert.Check(t, is.Equal(subscriptions[i].Owner, s))
}
}

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"crypto/hmac"  
"crypto/sha256"  
"encoding/base64"  
"encoding/json"  
"fmt"  
"time"  

"github.com/docker/libtrust"  
"github.com/docker/licensing/lib/errors"  
"github.com/docker/licensing/lib/go-clientlib"  
"github.com/docker/licensing/model"
)

func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {  
url := c.baseURI  
url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)

license := new(model.IssuedLicense)  
if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {  
return nil, err  
}

return license, nil
}

// Check verifies that the license identified by the given key id is valid. Note that it does not
// interrogate the contents of the license.
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
    keyID := license.KeyID
    privateKey := license.PrivateKey

    authorization, err := c.getAuthorization(ctx, license)
    if err != nil {
        return nil, err
    }

    // TODO: Mason - replace this parseJWS with a non libtrust lib
    signature, err := libtrust.ParseJWS(authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "license parse JWS failed")
    }

    keys, err := signature.Verify()
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "license signature verification failed")
    }

    keyCnt := len(keys)
    if keyCnt != 1 {
        err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
        return nil, errors.WithStack(err).With(errors.Fields{
            "key_id": keyID,
        })
    }

    key := keys[0]

    if !c.recognizedSigningKey(key) {
        return nil, errors.New("unrecognized signing key")
    }

    payload, err := signature.Payload()
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "malformed signature payload")
    }

    checkRes := new(model.CheckResponse)
err = json.Unmarshal(payload, &checkRes)
if err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    }, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    })
}

return checkRes, nil

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
    for _, publicKey := range c.publicKeys {
        if key.KeyID() == publicKey.KeyID() {
            return true
        }
    }
    return false
}

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
    decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
    if err != nil {
        return nil, errors.Wrap(err, errors.Fields{
            "key_id": license.KeyID,
        }, "decoding license authorization failed")
    }
    return decoded, nil
}

// All of the functions in this file assume that they are receiving a properly
// formatted private key.

// checkToken performs a MAC algorithm (where tokens are generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the private key of the person who generated
// the token.
func checkToken(message, token, privateKey string) error {
    tokenBytes, err := base64.URLEncoding.DecodeString(token)
    if err != nil {
return errors.Wrap(err, errors.Fields{"token": token})
}

generatedToken, err := generateToken(message, privateKey)
if err != nil {
    return errors.Wrap(err, errors.Fields{"token": token})
}

generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
if err != nil {
    return errors.Wrap(err, errors.Fields{"token": token})
}

if !hmac.Equal(tokenBytes, generatedBytes) {
    return errors.Forbidden(errors.Fields{"token": token}, "invalid token")
}

return nil

// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
    key, err := base64.URLEncoding.DecodeString(privateKey)
    if err != nil {
        return "", errors.Wrap(err, errors.Fields{"msg": message})
    }

    h := hmac.New(sha256.New, key)
    h.Write([]byte(message))
    return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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package model

import "time"

// A CheckResponse is the internal content of the PublicCheckResponse signed
// json blob.
type CheckResponse struct {
    Expiration time.Time `json:"expiration"`
    Token      string   `json:"token"`
    MaxEngines int      `json:"maxEngines"`
    ScanningEnabled bool   `json:"scanningEnabled"`
    Type       string   `json:"licenseType"`
    Tier       string   `json:"tier"`
}

// IssuedLicense represents an issued license
type IssuedLicense struct {
    KeyID string `json:"key_id"`
    PrivateKey string `json:"private_key"`
    Authorization string `json:"authorization"`
}

// Valid returns true if the License is syntactically valid, false otherwise
func (l *IssuedLicense) Valid() (bool, string) {
    if l.KeyID == "" {
        return false, "empty key_id"
    }
if l.PrivateKey == "" {
    return false, "empty private_key"
}

if l.Authorization == "" {
    return false, "empty authorization"
}

return true, ""
}

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package engine

import (  
  "time"
  "github.com/docker/cli/cli/command/formatter"
  "github.com/docker/cli/internal/licenseutils"
  "github.com/docker/licensing/model"
)

const (  
  defaultSubscriptionsTableFormat = "table
   {{.Num}}	{{.Owner}}	{{.ProductID}}	{{.Expires}}	{{.ComponentsString}}"
  defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}"

  numHeader               = "NUM"
  ownerHeader             = "OWNER"
  licenseNameHeader       = "NAME"
  idHeader                = "ID"
  dockerIDHeader          = "DOCKER ID"
  productIDHeader         = "PRODUCT ID"
  productRatePlanHeader   = "PRODUCT RATE PLAN"
  productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
  startHeader             = "START"
  expiresHeader           = "EXPIRES"
  stateHeader             = "STATE"
  eusaHeader              = "EUSA"
  pricingComponentsHeader = "PRICING COMPONENTS"
)

// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) formatter.Format {
  switch source {
  case formatter.TableFormatKey:
    if quiet {
      return formatter.Format{
        DefaultTableFormat: defaultSubscriptionsTableFormat,
        Header: []formatter.Header{
          {numHeader, "NUM"},
          {ownerHeader, "OWNER"},
          {licenseNameHeader, "NAME"},
          {idHeader, "ID"},
          {dockerIDHeader, "DOCKER ID"},
          {productIDHeader, "PRODUCT ID"},
          {productRatePlanHeader, "PRODUCT RATE PLAN"},
          {productRatePlanIDHeader, "PRODUCT RATE PLAN ID"},
          {startHeader, "START"},
          {expiresHeader, "EXPIRES"},
          {stateHeader, "STATE"},
          {eusaHeader, "EUSA"},
          {pricingComponentsHeader, "PRICING COMPONENTS"},
        },
        RowSeparator: "	",
      }
    } else {
      return formatter.Format{
        DefaultTableFormat: defaultSubscriptionsTableFormat,
        Header: []formatter.Header{
          {numHeader, "NUM"},
          {ownerHeader, "OWNER"},
          {licenseNameHeader, "NAME"},
          {idHeader, "ID"},
          {dockerIDHeader, "DOCKER ID"},
          {productIDHeader, "PRODUCT ID"},
          {productRatePlanHeader, "PRODUCT RATE PLAN"},
          {productRatePlanIDHeader, "PRODUCT RATE PLAN ID"},
          {startHeader, "START"},
          {expiresHeader, "EXPIRES"},
          {stateHeader, "STATE"},
          {eusaHeader, "EUSA"},
          {pricingComponentsHeader, "PRICING COMPONENTS"},
        },
        RowSeparator: "	",
      }
    }
  case formatter.TextFormatKey:
    return formatter.Format{
      DefaultTableFormat: defaultSubscriptionsTableFormat,
      Header: []formatter.Header{
        {numHeader, "NUM"},
        {ownerHeader, "OWNER"},
        {licenseNameHeader, "NAME"},
        {idHeader, "ID"},
        {dockerIDHeader, "DOCKER ID"},
        {productIDHeader, "PRODUCT ID"},
        {productRatePlanHeader, "PRODUCT RATE PLAN"},
        {productRatePlanIDHeader, "PRODUCT RATE PLAN ID"},
        {startHeader, "START"},
        {expiresHeader, "EXPIRES"},
        {stateHeader, "STATE"},
        {eusaHeader, "EUSA"},
        {pricingComponentsHeader, "PRICING COMPONENTS"},
      },
      RowSeparator: "	",
    }
  case formatter.JsonFormatKey:
    return formatter.Format{
      DefaultTableFormat: defaultSubscriptionsTableFormat,
      Header: []formatter.Header{
        {numHeader, "NUM"},
        {ownerHeader, "OWNER"},
        {licenseNameHeader, "NAME"},
        {idHeader, "ID"},
        {dockerIDHeader, "DOCKER ID"},
        {productIDHeader, "PRODUCT ID"},
        {productRatePlanHeader, "PRODUCT RATE PLAN"},
        {productRatePlanIDHeader, "PRODUCT RATE PLAN ID"},
        {startHeader, "START"},
        {expiresHeader, "EXPIRES"},
        {stateHeader, "STATE"},
        {eusaHeader, "EUSA"},
        {pricingComponentsHeader, "PRICING COMPONENTS"},
      },
      RowSeparator: "	",
    }
  default:
    return nil
  }
}
return defaultSubscriptionsQuietFormat
}
return defaultSubscriptionsTableFormat
case formatter.RawFormatKey:
    if quiet {
        return `license: {{.ID}}`
    }
    return `license: {{.ID}}
name: {{.Name}}
owner: {{.Owner}}
components: {{.ComponentsString}}
``
return formatter.Format(source)
}

// SubscriptionsWrite writes the context
func SubscriptionsWrite(ctx formatter.Context, subs []licenseutils.LicenseDisplay) error {
    render := func(format func(subContext formatter.SubContext) error) error {
        for _, sub := range subs {
            licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
            if err := format(licenseCtx); err != nil {
                return err
            }
        }
        return nil
    }
    licenseCtx := licenseContext{
        Header: map[string]string{
            "Num":               numHeader,
            "Owner":             ownerHeader,
            "Name":              licenseNameHeader,
            "ID":                idHeader,
            "DockerID":          dockerIDHeader,
            "ProductID":         productIDHeader,
            "ProductRatePlan":   productRatePlanHeader,
            "ProductRatePlanID": productRatePlanIDHeader,
            "Start":             startHeader,
            "Expires":           expiresHeader,
            "State":             stateHeader,
            "Eusa":              eusaHeader,
            "ComponentsString":  pricingComponentsHeader,
        }
    }
    return ctx.Write(&licenseCtx, render)
}

type licenseContext struct {
    formatter.HeaderContext
    trunc bool
    l     licenseutils.LicenseDisplay
}
func (c *licenseContext) MarshalJSON() ([]byte, error) {
    return formatter.MarshalJSON(c)
}

func (c *licenseContext) Num() int {
    return c.l.Num
}

func (c *licenseContext) Owner() string {
    return c.l.Owner
}

func (c *licenseContext) ComponentsString() string {
    return c.l.ComponentsString
}

func (c *licenseContext) Summary() string {
    return c.l.String()
}

func (c *licenseContext) Name() string {
    return c.l.Name
}

func (c *licenseContext) ID() string {
    return c.l.ID
}

func (c *licenseContext) DockerID() string {
    return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
    return c.l.ProductID
}

func (c *licenseContext) ProductRatePlan() string {
    return c.l.ProductRatePlan
}

func (c *licenseContext) ProductRatePlanID() string {
    return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
    return c.l.Start
}
func (c *licenseContext) Expires() *time.Time {
    return c.l.Expires
}

func (c *licenseContext) State() string {
    return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
    return c.l.Eusa
}

func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
    // Dereference the pricing component pointers in the pricing components
    // so it can be rendered properly with the template formatter
    var ret []model.SubscriptionPricingComponent
    for _, spc := range c.l.PricingComponents {
        if spc == nil {
            continue
        }
        ret = append(ret, *spc)
    }
    return ret
}

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1.205 x-crypto 0.0.0-20191206172530-e9b2fee46413

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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procfs provides functions to retrieve system, kernel and process 
metrics from the pseudo-filesystem proc.

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1.214 client-golang 1.2.1
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import: ../../../fossene/db/schema/thing.yml

fields:
  site: string
  author: root

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package compute_test
import (  
  "context"

  compute "cloud.google.com/go/compute/apiv1"
  computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicenseCodesRESTClient() {
  ctx := context.Background()
  c, err := compute.NewLicenseCodesRESTClient(ctx)
  if err != nil {
    // TODO: Handle error.
    }
  defer c.Close()

  // TODO: Use client.
  _ = c
}

func ExampleLicenseCodesClient_Get() {
  ctx := context.Background()
  c, err := compute.NewLicenseCodesRESTClient(ctx)
  if err != nil {
    // TODO: Handle error.
    }
  defer c.Close()

  req := &computepb.GetLicenseCodeRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
    }
  resp, err := c.Get(ctx, req)
  if err != nil {
    // TODO: Handle error.
    }
  // TODO: Use resp.
  _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
  ctx := context.Background()
  c, err := compute.NewLicenseCodesRESTClient(ctx)
  if err != nil {
    // TODO: Handle error.
    }
  defer c.Close()
req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See
  https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
  // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
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import {
  "bytes"
  "context"
  "fmt"
  "io/ioutil"
  "net/http"
  "net/url"

  gax "github.com/googleapis/gax-go/v2"
  "google.golang.org/api/googleapi"
  "google.golang.org/api/option"
  "google.golang.org/api/option/internaloption"
  httptransport "google.golang.org/api/transport/http"
  computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
  "google.golang.org/grpc"
  "google.golang.org/grpc/metadat"a
  "google.golang.org/protobuf/encoding/protojson"
}
var newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get            []gax.CallOption
    TestIamPermissions []gax.CallOption
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
        (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.

// The LicenseCodes API.
type LicenseCodesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseCodesClient

    // The call options for this service.
    CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption) (*computepb.LicenseCode, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
    httpClient, endpoint, err := httptransport.NewClient(ctx, opts...)
    if err != nil {
        return nil, err
    }
    c := &licenseCodesRESTClient{
        endpoint: endpoint,
        httpClient: httpClient,
        xGoogMetadata: xGoogMetadata{}
    }
    return c, nil
}
httpClient: httpClient,
}
c.setGoogleClientInfo()

return &LicenseCodesClient{internalClient: c, CallOptions: &LicenseCodesCallOptions{}}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),
    }
}

// setGoogleClientInfo sets the name and version of the application in
// the "x-goog-api-client" header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

// Connection returns a connection to the API service.
// // Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...
    gax.CallOption) (*computepb.LicenseCode, error) {
    baseUrl, _ := url.Parse(c.endpoint)
    req.GetLicenseCode())
// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.LicenseCode{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()
    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }
    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }
    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }
    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if e != nil {
        return nil, e
    }
    return nil, opts...}
if e != nil {
    return nil, e
}
return nil, e
}
if err != nil {
    return nil, err
}

baseUrl, _ := url.Parse(c.endpoint)

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()
    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }

    return nil,
}, opts...)  
if e != nil {
    return nil, e
}
return resp, nil

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"
    "cloud.google.com/go/compute/apiv1"
    "google.golang.org/api/iterator"
func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.DeleteLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
    }
    op, err := c.Delete(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
    }
    op, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
// TODO: Handle error.
// TODO: Use resp.

func ExampleLicensesClient_GetIamPolicy() {  
  ctx := context.Background()  
c, err := compute.NewLicensesRESTClient(ctx)  
if err != nil {  
  // TODO: Handle error.  
  
  }  
  defer c.Close()  

  req := &computepb.GetIamPolicyLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
  }  
  resp, err := c.GetIamPolicy(ctx, req)  
  if err != nil {  
    // TODO: Handle error.  
    
  }  
  // TODO: Use resp.

  func ExampleLicensesClient_Insert() {  
    ctx := context.Background()  
c, err := compute.NewLicensesRESTClient(ctx)  
if err != nil {  
  // TODO: Handle error.  
  
  }  
  defer c.Close()  

  req := &computepb.InsertLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
  }  
o, err := c.Insert(ctx, req)  
  if err != nil {  
    // TODO: Handle error.  
    
    err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}

func ExampleLicensesClient_List() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
    }
    it := c.List(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {
            break
        }
        if err != nil {
            // TODO: Handle error.
        }
        // TODO: Use resp.
        _ = resp
    }
}

func ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
func ExampleLicensesClient_TestIamPermissions() {
  ctx := context.Background()
  c, err := compute.NewLicensesRESTClient(ctx)
  if err != nil {
    // TODO: Handle error.
  }
  defer c.Close()

  req := &computepb.TestIamPermissionsLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
  }
  resp, err := c.TestIamPermissions(ctx, req)
  if err != nil {
    // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
}

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.
var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
    Delete []gax.CallOption
    Get    []gax.CallOption
    GetIamPolicy []gax.CallOption
    Insert  []gax.CallOption
    List    []gax.CallOption
    SetIamPolicy  []gax.CallOption
    TestIamPermissions []gax.CallOption
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
//
// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

    // The call options for this service.
    CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the 'x-goog-api-client' header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
// Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient
}

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// The x-goog-* metadata to be sent with each request.
xGoogMetadata metadata.MD

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }
    c := &licensesRESTClient{
        endpoint:   endpoint,
        httpClient: httpClient,
    }
    c.setGoogleClientInfo()

    o := []option.ClientOption{
        option.WithHTTPClient(httpClient),
        option.WithEndpoint(endpoint),
    }
    opC, err := NewGlobalOperationsRESTClient(ctx, o...)
    if err != nil {
        return nil, err
    }
    c.operationClient = opC

    return &LicensesClient{internalClient: c, CallOptions: &LicensesCallOptions{}, nil}
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),
    }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)
kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    if err := c.operationClient.Close(); err != nil {
        return err
    }
    return nil
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...
gax.CallOption) (*Operation, error) {
    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.RawQuery = params.Encode()
    // Build HTTP headers from client and context metadata.
    headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
    umn := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Operation{
        e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
            if err != nil {
                return err
            }
            httpReq = httpReqWithContext(ctx)
            httpReq.Header = headers
            return err
        }
    }
}
httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}
return nil
}, opts...)
if e != nil {
    return nil, e
}

op := &Operation{
    &globalOperationsHandle{
        c: c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    baseUrl, _ := url.Parse(c.endpoint)

    headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.License{
        e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
            if err != nil {

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return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
def httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil, e
}
return resp, nil

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
    opts ...gax.CallOption) (*computepb.Policy, error) {
baseUrl, _ := url.Parse(c.endpoint)
    req.GetResource())
params := url.Values{
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
    }
baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.

headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()
    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }
    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }
    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }
    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    options := []gax.CallOption{
        gax.WithHeaders(headers),
        gax.WithMetadata(metadata.Pairs("Content-Type", "application/json"))
    }
    if err != nil {
        return nil, err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()
    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return nil, err
    }
    location := httpReq.URL.Path
    location = strings.TrimSuffix(location, "/")
    path, err := gax.GetResourceName(ctx, projectID, location)
    if err != nil {
        return nil, err
    }
    res, err := c.client.Get(path)
    if err != nil {
        return nil, err
    }
    if op, err := c.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) (*Operation, error) {
        return c.client.Wait(res)
    }); err != nil {
        return nil, err
    }
    return op, nil
}
baseUrl, _ := url.Parse(c.endpoint)

params := url.Values{
}
if req != nil && req.RequestId != nil {
    params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}
baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers
        httpRsp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpRsp.Body.Close()

        if err = googleapi.CheckResponse(httpRsp); err != nil {
            return err
        }

        buf, err := ioutil.ReadAll(httpRsp.Body)
        if err != nil {
            return err
        }

        if err := unm.Unmarshal(buf, resp); err != nil {
            return maybeUnknownEnum(err)
        }

        return nil,
    }, opts...)
    if e != nil {
        return nil, e
    }
    return nil,
}
globalOperationsHandle{
  c:   c.operationClient,
  proto:  resp,
  project: req.GetProject(),
}
return op, nil
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
  it := &LicenseIterator{
    req = proto.Clone(req).(*computepb.ListLicensesRequest)
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    it.InternalFetch = func(pageSize int, pageToken string) ([][]*computepb.License, string, error) {
      resp := &computepb.LicensesListResponse{
        if pageToken != "" {
          req.PageToken = proto.String(pageToken)
        }
        if pageSize > math.MaxInt32 {
          req.MaxResults = proto.Uint32(math.MaxInt32)
        } else if pageSize != 0 {
          req.MaxResults = proto.Uint32(uint32(pageSize))
        }
        baseUrl, _ := url.Parse(c.endpoint)
        params := url.Values{
          if req != nil && req.Filter != nil {
          }
          if req != nil && req.MaxResults != nil {
            params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
          }
          if req != nil && req.OrderBy != nil {
            params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
          }
          if req != nil && req.PageToken != nil {
          }
          if req != nil && req.ReturnPartialSuccess != nil {
          }
        }
      }
      return resp, &pageToken
    }
  }
  return it
}
baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if err != nil {
        return err
    }
    httpReq.Header = headers
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()
    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }
    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }
    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }
    return nil,
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
if err != nil {
    return "", err
}
if e != nil {
    return "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
if err != nil {
    return "", err
}
it.items = append(it.items, items...)
return nextPageToken, nil
}
// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
// resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
    opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, _ := url.Parse(c.endpoint)
        req.GetResource())

    // Build HTTP headers from client and context metadata.
    headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Policy{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers
        httpRsp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpRsp.Body.Close()

        if err = googleapi.CheckResponse(httpRsp); err != nil {
            return err
        }

        buf, err := ioutil.ReadAll(httpRsp.Body)
        if err != nil {
            return err
        }

        err = unm.Unmarshal(buf, resp)
        if err != nil {
            return err
        }

        return nil
    })
    return resp, e
if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    return resp, nil
}

baseUrl, _ := url.Parse(c.endpoint)

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()
    return unm.Unmarshal(buf, resp)
})
return resp, e

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    return resp, nil
}

baseUrl, _ := url.Parse(c.endpoint)

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()
    return unm.Unmarshal(buf, resp)
})
return resp, e
if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil,
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
// LicenseIterator struct {
//     items    []*computepb.License
//     pageInfo *iterator.PageInfo
//     nextFunc func() error

// Response is the raw response for the current page.
// It must be cast to the RPC response type.
// Calling Next() or InternalFetch() updates this value.
// Response interface{

// InternalFetch is for use by the Google Cloud Libraries only.
// It is not part of the stable interface of this package.
// InternalFetch returns results from a single call to the underlying RPC.
// The number of results is no greater than pageSize.
// If there are no more results, nextPageToken is empty and err is nil.
// InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
    return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepkg.License, error) {
    var item *computepkg.License
    if err := it.nextFunc(); err != nil {
        return item, err
    }
    item = it.items[0]
    it.items = it.items[1:]
    return item, nil
}

func (it *LicenseIterator) bufLen() int {
    return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
    b := it.items
    it.items = nil
    return b
}

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1.220 fsnotify 1.4.7

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1.223 go.uber.org/atomi 1.3.2

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.238 go-capability
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1.246 kubernetes-kube-scheduler kubernetes-1.18.0

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1.247 libcap 2.25-1

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1.249 protobuf 1.24.0

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1.255 pflag 1.0.1

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1.256 gojsonschema 1.2.0

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<signature of Ty Coon>, 1 April 1989
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1.259 godotenv 1.3.0

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1.260 lsb 10.2019051400

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1.261 google-api-go-client 0.15.0

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package api

import api
"bytes"
"io/ioutil"
"os"
"path/filepath"
"regexp"
"testing"
)

// Files in this package use a BSD-style license.
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|The Go Authors)\(.*\) All rights
reserved\).)*
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`

const prefix = "// Copyright"

// A few files have to be skipped.
var skip = map[string]bool{
    "tools.go": true, // This file requires another comment above the license.
    "internal/third_party/uritemplates/uritemplates.go": true, // This file is licensed to an individual.
    "internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual.
}

// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if skip[path] {
            return nil
        }
        if err != nil {
            return err
        }

        if filepath.Ext(path) != ".go" && filepath.Ext(path) != ".sh" {
            return nil
        }

        src, err := ioutil.ReadFile(path)
        if err != nil {
            return nil
        }

        // Verify that the license is matched.
        if !sentinel.Match(src) {
            t.Errorf("%v: license header not present", path)
            return nil
        }

        // Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
if filepath.Ext(path) == "\.go" && !bytes.HasPrefix(src, []byte(prefix)) {
    t.Errorf("%v: license header not at the top", path)
} return nil
})
if err != nil {
    t.Fatal(err)
}

1.262 balena-engine 19.03.8

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1.265 fsnotify 1.4.9

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io.helidon.config.yaml.internal.YamlConfigParser

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1.268 x-crypto 0.0.0-20200622213623-75b288015ac9

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1.269 ghodss-yaml 1.0.0

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1.270 x-oauth2 0.0.0-20191202225959-858c2ad4c8b6

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1.271 e2fsprogs 1.43.4~WIP.2017.01.30-1

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LD_FLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f $(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \ 'echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \ $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB) $(BSD_LIB)
-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ..$(BSD_LIB)

This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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Index: tdba/tcb.c
===================================================================
--- tdba.orig/tdb.c
+++ tdba/tdb.c
@@ -4,11 +4,11 @@
 Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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Theodore Ts'o
23-June-2007

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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Gadi Oxman, August 1995

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1.277 apiserver kubernetes-1.13.12

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goproperties - properties file decoder for Go

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# An entry with two email addresses specifies that the
# first address should be used in the submit logs and
# that the second address should be recognized as the
# same person when interacting with Rietveld.
#
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PACKAGE

package goautoneg
import "bitbucket.org/ww/goautoneg"

HTTP Content-Type Autonegotiation.

The functions in this package implement the behaviour specified in http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html
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FUNCTIONS

func Negotiate(header string, alternatives []string) (content_type string)
Negotiate the most appropriate content_type given the accept header
and a list of alternatives.

func ParseAccept(header string) (accept []Accept)
Parse an Accept Header string returning a sorted list
of clauses

TYPES

type Accept struct {
    Type, SubType string
}
Q      float32
Params  map[string]string
}
Structure to represent a clause in an HTTP Accept Header

SUBDIRECTORIES

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

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package main

import ("strings"
)

// LicenseFilePrefix is a list of filename prefixes that indicate it
// might contain a software license
var LicenseFilePrefix = []string{
"licence", // UK spelling
"license", // US spelling
"copying",
"unlicense",
"copyright",
}
"copyleft",
"authors",
"contributors",
}

// LegalFileSubstring are substrings that indicate the file is likely
// to contain some type of legal declaration. "legal" is often used
// that it might moved to LicenseFilePrefix
var LegalFileSubstring = []string{
  "legal",
  "notice",
  "disclaimer",
  "patent",
  "third-party",
  "thirdparty",
}

// IsLicenseFile returns true if the filename might be contain a
// software license
func IsLicenseFile(filename string) bool {
  lowerfile := strings.ToLower(filename)
  for _, prefix := range LicenseFilePrefix {
    if strings.HasPrefix(lowerfile, prefix) {
      return true
    }
  }
  return false
}

// IsLegalFile returns true if the file is likely to contain some type
// of of legal declaration or licensing information
func IsLegalFile(filename string) bool {
  lowerfile := strings.ToLower(filename)
  for _, prefix := range LicenseFilePrefix {
    if strings.HasPrefix(lowerfile, prefix) {
      return true
    }
  }
  for _, substring := range LegalFileSubstring {
    if strings.Contains(lowerfile, substring) {
      return true
    }
  }
  return false
}

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BSON library for Go

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Mgo - MongoDB driver for Go

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Go support for Protocol Buffers - Google's data interchange format

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package simulator

)

// EvalLicense is the default license
type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{
        Self: ref,
        Licenses: []types.LicenseManagerLicenseInfo{EvalLicense}
    }
    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }
    return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{
        }
    }
    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }
    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:    req.Labels,
    })
    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)
    return body
}
func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...) // Remove the license
            return body
        }
    }

    return body
}

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        id := types.ManagedObjectReference{
            Type: "HostSystem",
            Value: req.EntityId,
        }

        if Map.Get(id) == nil {
            return body
        }
    }

    body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
        { /* LicenseAssignment */ EntityId: req.EntityId, AssignedLicense: EvalLicense, },
    }

    return body
}
func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
  info := EvalLicense

  info.LicenseKey = key
  info.Labels = labels

  return info
}

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Feb, 2010

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```

dataset test

dataset test
import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()
req := &computepb.TestIamPermissionsLicenseCodeRequest{
    // TODO: Fill request struct fields.
    // See
    // https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequ
    est.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp

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import (
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "net/http"
    "net/url"

gax "github.com/googleapis/gax-go/v2"
"google.golang.org/api/googleapi"
"google.golang.org/api/option"
"google.golang.org/api/option/internaloption"
httptransport "google.golang.org/api/transport/http"
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
"google.golang.org/grpc"
"google.golang.org/grpc/metadata"
"google.golang.org/protobuf/encoding/protojson"
var newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get [gax.CallOption
    TestIamPermissions [gax.CallOption
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
        (*computepb.TestIamPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseCodesClient

    // The call options for this service.
    CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the "x-goog-api-client" header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}
// Connection returns a connection to the API service.
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Get returns a specified license code. License codes are mirrored across all projects that have permissions to read the
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Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...
gax.CallOption) (*computepb.LicenseCode, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...
gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseCodesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
    clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts)
    if err != nil {
        return nil, err
    }

    c := &licenseCodesRESTClient{
        endpoint: endpoint,
    }
    return
}
httpClient: httpClient,
}
c.setGoogleClientInfo()

return &LicenseCodesClient{internalClient: c, CallOptions: &LicenseCodesCallOptions{ }, nil}
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
return []option.ClientOption{
internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
internaloption.WithDefaultAudience("https://compute.googleapis.com/")
}
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
kv := append([]string{"gl-go", versionGo()}, keyval...)
kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
// Replace httpClient with nil to force cleanup.
c.httpClient = nil
return nil
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...
gax.CallOption) (*computepb.LicenseCode, error) {
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil, err
}

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.LicenseCode{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
if err != nil {
    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers
httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
deferr httpRsp.Body.Close()
if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}
buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}
if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}
return nil
}, opts...)
// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
  m := protojson.MarshalOptions{AllowPartial: true}
  body := req.GetTestPermissionsRequestResource()
  jsonReq, err := m.Marshal(body)
  if err != nil {
    return nil, err
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
    return nil, err
  }
 (baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
    req.GetProject(), req.GetResource()))
  // Build HTTP headers from client and context metadata.
  md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
  headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
  unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
  resp := &computepb.TestPermissionsResponse{
  e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
      baseUrl.Path = settings.Path
    }
    if err != nil {
      return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
      return err
    }
    defer httpRsp.Body.Close()
    if err = googleapi.CheckResponse(httpRsp); err != nil {
      return err
    }
    }
  return
buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"
    compute "cloud.google.com/go/compute/apiv1"
    "google.golang.org/api/iterator"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.DeleteLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
    }
    op, err := c.Delete(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
}
err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
    }
    resp, err := c.GetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}
func ExampleLicensesClient_Insert() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.InsertLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
}
op, err := c.Insert(ctx, req)
if err != nil {
    // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}

func ExampleLicensesClient_List() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.ListLicensesRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
    resp, err := it.Next()
    if err == iterator.Done {
        break
    }
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}
}
func ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

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package compute

import (
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "math"
    "net/http"
    "net/url"

gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/iterator"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    "google.golang.org/grpc"
    "google.golang.org/grpc/metadata"
    "google.golang.org/protobuf/encoding/protojson"
    "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
    Delete []gax.CallOption
}
Get  []gax.CallOption
GetIamPolicy  []gax.CallOption
Insert  []gax.CallOption
List  []gax.CallOption
SetIamPolicy  []gax.CallOption
TestIamPermissions  []gax.CallOption
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently
// with method calls.
//
// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

    // The call options for this service.
    CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}
// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }
    c := &licensesRESTClient{
        endpoint:   endpoint,
        httpClient: httpClient,
    }
    c.setGoogleClientInfo()
    return c, nil
}
o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
}
opC, err := NewGlobalOperationsRESTClient(ctx, o...)
if err != nil {
  return nil, err
}
c.operationClient = opC

return &LicensesClient{internalClient: c, CallOptions: &LicensesCallOptions{}}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
  return []option.ClientOption{
    internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
    internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
    internaloption.WithDefaultAudience("https://compute.googleapis.com/")
  }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
  kv := append([]string{"gl-go", versionGo()}, keyval...)
  c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
  // Replace httpClient with nil to force cleanup.
  c.httpClient = nil
  if err := c.operationClient.Close(); err != nil {
    return err
  }
  return nil
}

// Connection returns a connection to the API service.
// // Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
  return nil
// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...
gax.CallOption) (*Operation, error) {
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}
params := url.Values{
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }
baseUrl.RawQuery = params.Encode()
// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
if err != nil {
    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers
httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
delay httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}
buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:       c.operationClient,
        proto:   resp,
        project: req.GetProject(),
    },
}
return op, nil

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    // Build HTTP headers from client and context metadata.
    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.License{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        if err != nil {
            return err
        }
        return nil
    })
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
    opts ...gax.CallOption) (*computepb.Policy, error) {
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}
req.GetResource())
params := url.Values{
if req.OptionsRequestedPolicyVersion != nil {
}
baseUrl.RawQuery = params.Encode()
// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()
    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }
    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }
    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }
    return nil
}, opts...)
if e != nil {
    return nil, e
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }

    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }
    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Operation{
    }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers
        httpRsp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpRsp.Body.Close()

        if err = googleapi.CheckResponse(httpRsp); err != nil {
            return err
        }
    })
buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil,
}, opts...)
if e != nil {
    return nil, e
}

op := &Operation{
    &globalOperationsHandle{
        c: c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}

return op, nil

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...
gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{
        req = proto.Clone(req).(*computepb.ListLicensesRequest)
        unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
        it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
            resp := &computepb.LicensesListResponse{
                if pageToken != "" {
                    req.PageToken = proto.String(pageToken)
                }
                if pageSize > math.MaxInt32 {
                    req.MaxResults = proto.Uint32(math.MaxInt32)
                } else if pageSize != 0 {
                    req.MaxResults = proto.Uint32(uint32(pageSize))
                }
                baseUrl, err := url.Parse(c.endpoint)
                if err != nil {
                    return nil, "", err
                }

                resp, err := c.operationClient.ListLicenses(ctx, req, opts...)

params := url.Values{}
if req != nil && req.Filter != nil {
}
if req != nil && req.MaxResults != nil {
    params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
    params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
}
if req != nil && req.ReturnPartialSuccess != nil {
}
baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    if err != nil {
        return err
    }
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }
if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()
return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
// resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
    opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
        req.GetResource())
    return
// Build HTTP headers from client and context metadata.

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
    baseUrl.Path = settings.Path
  }
  if err != nil {
    return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers
  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
    return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
    return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
  }

  return nil
}, opts...)
if e != nil {
  return nil, e
}
return resp, nil

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
  m := protojson.MarshalOptions{AllowPartial: true}
  body := req.GetTestPermissionsRequestResource()
  jsonReq, err := m.Marshal(body)
  if err != nil {
    return nil, err
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
    return nil, err
  }

  // Build HTTP headers from client and context metadata.
  headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
  unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
  resp := &computepb.TestPermissionsResponse{}
  e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
      baseUrl.Path = settings.Path
    }
    if err != nil {
      return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
      return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
      return err
    }
  })

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
    return err
  }
if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}

if e != nil {
    return nil, e
}
return resp, nil

// LicenseIterator manages a stream of *computepb.License.
// LicenseIterator struct {
//     items    []*computepb.License
//     pageInfo *iterator.PageInfo
//     nextFunc  func() error

// Response is the raw response for the current page.
// It must be cast to the RPC response type.
// Calling Next() or InternalFetch() updates this value.
// Response interface{}

// InternalFetch is for use by the Google Cloud Libraries only.
// It is not part of the stable interface of this package.
// InternalFetch returns results from a single call to the underlying RPC.
// The number of results is no greater than pageSize.
// If there are no more results, nextPageToken is empty and err is nil.
InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
    return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
    var item *computepb.License
    if err := it.nextFunc(); err != nil {
        return item, err
    }
    item = it.items[0]
    it.items = it.items[1:]
    return item, nil
func (it *LicenseIterator) bufLen() int {
    return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
    b := it.items
    it.items = nil
    return b
}

## 1.293 libyaml 0.2.5

### 1.293.1 Available under license:

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## 1.294 etcd 3.3.12

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procrfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Go support for Protocol Buffers - Google's data interchange format

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1.297 farsightsec-golang-framestream 0.0.0-
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- **Format:** https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
- **Upstream-Name:** golang-framestream
- **Source:** https://github.com/farsightsec/golang-framestream

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1.300 go-autorest 0.9.0

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1.306 mapstructure 1.3.3
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1.307 prometheus-procfs 0.0.0-
20171017214025-a6e9df898b13

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1.308 x-oauth2 0.0.0-20190604053449-0f29369cfe45

1.308.1 Available under license:

package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// RESOURCE represents...
type Resource struct {
}

type commonResult struct {
gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.
type GetResult struct {
    commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.
type CreateResult struct {
    commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.
type DeleteResult struct {
    gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
    commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
    resources, err := ExtractResources(r)
    return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
    var s struct {
        Links struct {
            Next string `json:"next"`
            Previous string `json:"previous"`
        }
    }
    return
This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we’re very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 5: Writing the Code

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project’s service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with
Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](/.github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](/.github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests

-------------

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* https://github.com/gophercloud/gophercloud/pull/584
* https://github.com/gophercloud/gophercloud/pull/586
You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request
---------------------------------

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're testing with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation
All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

Dealing with Related Pull Requests
----------------------------------

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests
With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
...
```

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

Step 6: Code Review

=============

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks
2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `\[wip\]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review
----------------------

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information.
Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used.

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes
------------------

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal
-------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

```go
testing

import (
    "fmt"
    "net/http"
    "testing"

    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

// ListResult provides a single page of RESOURCE results.
const ListResult = `
`
// GetResult provides a Get result.
const GetResult = `{
}
`;

// CreateRequest provides the input to a Create request.
const CreateRequest = `{
}
`;

// UpdateRequest provides the input to an Update request.
const UpdateRequest = `{
}
`;

// UpdateResult provides an update result.
const UpdateResult = `{
}
`;

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{}

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{}

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{}

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.Header().Set("Content-Type", "application/json")
    })
}
w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, ListResult)
})
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "POST")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, CreateRequest)
        w.WriteHeader(http.StatusCreated)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "DELETE")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.WriteHeader(http.StatusNoContent)
    })
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "PATCH")
    })
}
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
th.TestJSONRequest(t, r, UpdateRequest)

w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, UpdateResult)
}
}

package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
    q, err := gophercloud.BuildQueryString(opts)
    return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)
    if opts != nil {
        query, err := opts.ToResourceListQuery()
        if err != nil {
            return pagination.Pager{Err: err}
        }
        url += query
    }
        return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
    })
}

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    _, r.Err = client.Get(getURL(client, id), &r.Body, nil)
// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{201},
    })
    return
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    _, r.Err = client.Delete(deleteURL(client, id), nil)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToResourceUpdateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    return
}

goos: package testing

import (  
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    count := 0
        count++
        actual, err := resources.ExtractResources(page)
        th.AssertNoErr(t, err)
        th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
        return true, nil
    })
    th.AssertNoErr(t, err)
    th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {

th.SetupHTTP()
defer th.TeardownHTTP()
HandleListResourcesSuccessfully(t)

allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
th.AssertNoErr(t, err)
actual, err := resources.ExtractResources(allPages)
th.AssertNoErr(t, err)
th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
th.SetupHTTP()
defer th.TeardownHTTP()
HandleGetResourceSuccessfully(t)

actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
th.SetupHTTP()
defer th.TeardownHTTP()
HandleCreateResourceSuccessfully(t)

createOpts := resources.CreateOpts{
    Name: "resource two",
}

actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
th.SetupHTTP()
defer th.TeardownHTTP()
HandleDeleteResourceSuccessfully(t)

res := resources.Delete(client.ServiceClient(), "9fe1d3")
th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
th.SetupHTTP()
defer th.TeardownHTTP()
HandleUpdateResourceSuccessfully(t)
updateOpts := resources.UpdateOpts{
  Description: "Staging Resource",
}

actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
th.AssertNoErr(t, err)
th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
  return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
  return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
  return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
  return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
  return client.ServiceURL("resource", id)
}

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Step 4: Acceptance Testing

If we haven't started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.
If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

`/*
Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/

package RESOURCE

Step 7: Congratulations!

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

Step 2: Create an Issue

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:
Feature Request

---------------

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is to start a discussion about whether or not the feature should be included in Gophercloud. We don't want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The “core” of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658
There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much
appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* [https://github.com/gophercloud/gophercloud/issues/723](https://github.com/gophercloud/gophercloud/issues/723)

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

Step 3: Code Hunting

====================

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example:

[https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621). In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package.

Meaning, we want to change:

```go
type Network struct {
    ID          string `json:"id"
    Name        string `json:"name"
    AdminStateUp bool  `json:"admin_state_up"
    Status      string `json:"status"
    Subnets     []string `json:"subnets"
    TenantID    string `json:"tenant_id"
    Shared      bool  `json:"shared"
}
```

to look like

```go

```
AvailabilityZoneHints []string `json:"availability_zone_hints"
}
```

We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/). However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are not implying > that the API docs aren't useful or that the contributors who work on the API > docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update > documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[]string`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is not fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

Step 1: Read Our Guides

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/github/contributing.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/styleguide.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

1.309 cadvisor 0.34.0

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.311 debianutils 4.8.6.1

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1.312 projectcalico-node 3.18.4

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1.320 coreutils 8.26-3

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Changes:
* added Debian GNU/Linux package maintenance system files
* at times, bug fixes awaiting inclusion in the upstream source

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From Simon Josefsson

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1.337 golang-protobuf-extensions 0.0.0-
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Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data
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1.342 x-text 0.3.3

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1.344 logr 0.2.0

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1.345 go 1.13.6

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goproperties - properties file decoder for Go

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1.355 grpc-gateway 1.9.5

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.364 bzip2 1.0.6 8.1

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.365 cobra 0.0.3

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        Name: "Simplified BSD License",
        PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
                                  "2 clause bsd", "simplified bsd license"},
        Header: "All rights reserved.
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package cmd

func initBsdClause3() {
    Licenses["bsd"] = License{
        Name: "NewBSD",
        PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},
        Header: "All rights reserved.

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Name: "GNU General Public License 2.0",
PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
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package cmd

func initGpl3() {
Licenses["gpl3"] = License{
Name: "GNU General Public License 3.0",
PossibleMatches: []string{"gpl3", "GPLv3", "gpl", "gnu gpl3", "gnu gpl"},
Header: `This program is free software: you can redistribute it and/or modify
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func initApache2() {
  Licenses["apache"] = License{
    Name: "Apache 2.0",
    PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
    Header: `Licensed under the Apache License, Version 2.0 (the "License");
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package cmd

func initMit() {
    Licenses["mit"] = License{
        Name: "MIT License",
        PossibleMatches: []string{"mit"},
        Header: `Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

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1.366 x-time-rate 0.0.0-20190308202827-9d24e82272b4
1.366.1 Available under license :
No license file was found, but licenses were detected in source scan.
1.367 perl 5.28.1 6
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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---

abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the
  Module-Build mailing list at <module-build@perl.org>.
"
buildRequires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

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Ty Coon, President of Vice
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The End

# perl

=head1 NAME
copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = "
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /.*\b(\d{4,})/s
        or die "Year not found in README copyright message '$copyright_msg'";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
        or die "Copyright statement not found in perl -v output '$output'";

    $year;
}
1.368 etcd 0.5.0-alpha.5.0.20190917205325-a14579fbfb1a

1.368.1 Available under license:

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.374 conntrack-tools 1.4.5-2

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1.375 properties 1.8.1
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1.376 msgp 1.1.0

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1.377 apt 1.4.9

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1.389 glibc 2.28-10

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1.390 aws-sdk-go 1.28.2

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```
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```
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Version 3, 29 June 2007

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src/Makefile.am, src/secmem.c, mpi/hppa1.1/mpi-h-mul3.S,
mpi/hppa1.1/udiv-qrnnd.S, mpi/hppa1.1/mpi-h-mul2.S,
mpi/hppa1.1/mpi-h-mul1.S, mpi/Makefile.am, tests/prime.c,
tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c,
tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

LIBGCRYPT Brad Hards 2006-02-09
Assigns Past and Future Changes
bradh@frogmouth.net
(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex.
added SHA-224, changed cipher/sha256.c, added HMAC tests.)

LIBGCRYPT Hye-Shik Chang 2006-09-07
Assigns Past and Future Changes
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(SEED cipher)

LIBGCRYPT Werner Dittmann 2009-05-20
Assigns Past and Future Changes
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(mpi/amd64, tests/mpitests.c)

GNUPG David Shaw
Assigns past and future changes.
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(cipher/camellia-glue.c and related stuff)

LIBGCRYPT Andrey Jivsov 2010-12-09
Assigns Past and Future Changes
openpgp@brainhub.org
(cipher/ecc.c and related files)

LIBGCRYPT Ulrich MÅÃller 2012-02-15
Assigns Past and Future Changes
ulm@gentoo.org
(Changes to cipher/idea.c and related files)
LIBGCRYPT      Vladimir Serbinenko  2012-04-26
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Most of the stuff in mpi has been taken from an old GMP library version by Torbjorn Granlund <tege@noisy.tmg.se>.

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The ECC code cipher/ecc.c was based on code by Sergi Blanch i Torne, sergi at calcurco dot org.

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1.410 rfw 0.0.0-20170619235010-6f0a6f3266ba

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1.411 go-playground-locales 0.12.1

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1.412 gophercloud 0.21.0

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    package RESOURCE

    import {
        "github.com/gophercloud/gophercloud"
        "github.com/gophercloud/gophercloud/pagination"
    }

    // RESOURCE represents...
    type Resource struct {
    }

    type commonResult struct {
        gophercloud.Result
    }

    // GetResult is the response from a Get operation. Call its Extract method
    // to interpret it as a RESOURCE.
    type GetResult struct {
        commonResult
    }

    // CreateResult is the response from a Create operation. Call its Extract method
    // to interpret it as a RESOURCE.
    type CreateResult struct {
        commonResult
    }

    // DeleteResult is the response from a Delete operation. Call its ExtractErr to
    // determine if the request succeeded or failed.
    type DeleteResult struct {
        gophercloud.ErrResult
    }

    // UpdateResult is the result of an Update request. Call its Extract method to
    // interpret it as a RESOURCE.
    type UpdateResult struct {
        commonResult
    }

    // ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
resources, err := ExtractResources(r)
return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
var s struct {
    Links struct {
        Next string `json:"next"`
        Previous string `json:"previous"`
    } `json:"links"`
} err := r.ExtractInto(&s)
if err != nil {
    return "", err
}
return s.Links.Next, err
}

// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
var s struct {
    Resources []Resource `json:"resources"`
} err := (r.(ResourcePage)).ExtractInto(&s)
return s.Resources, err
}

// Extract interprets any commonResult as a Resource.
func (r commonResult) Extract() (*Resource, error) {
var s struct {
    Resource *Resource `json:"resource"`
} err := r.ExtractInto(&s)
return s.Resource, err
}

Contributor Tutorial

This tutorial is to help new contributors become familiar with the processes
used by the Gophercloud team when adding a new feature or fixing a bug.
While we have a defined process for working on Gophercloud, we're very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 5: Writing the Code

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](/.github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](/.github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.
### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* https://github.com/gophercloud/gophercloud/pull/584
* https://github.com/gophercloud/gophercloud/pull/586
* https://github.com/gophercloud/gophercloud/pull/587
* https://github.com/gophercloud/gophercloud/pull/594

You can also use the provided [template](https://github.com/gophercloud/gophercloud/) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request
---------------------------------

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests

---

Open Source Used In Crosswork Platform Infrastructure cw-infra-opensource-4.3.0 8265
Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're testing with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

Dealing with Related Pull Requests

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
```
Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```
```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child Pull Requests based off of the parent.

The choice of method is up to you.
Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

### Step 6: Code Review

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

#### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

#### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

#### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.
There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you’ve run them yourself (See [Step 4](step-04.md)).

Request a Code Review
---------------------

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used.

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes
-------------------

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It’s Never Personal
-------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.
Please proceed to [Step 7](step-07-congratulations.md).

```go
package testing

import (
    "fmt"
    "net/http"
    "testing"

    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

// ListResult provides a single page of RESOURCE results.
const ListResult = `{
}
`

// GetResult provides a Get result.
const GetResult = `{
}
`

// CreateRequest provides the input to a Create request.
const CreateRequest = `{
}
`

// UpdateRequest provides the input to an Update request.
const UpdateRequest = `{
}
`

// UpdateResult provides an update result.
const UpdateResult = `{
}
`

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{
}

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{
}`
// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{ }

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "GET")
th.TestHeader(t, r, "Accept", "application/json")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

w.Header().Set("Content-Type", "application/json")
w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, ListResult)
})
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "GET")
th.TestHeader(t, r, "Accept", "application/json")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

w.Header().Set("Content-Type", "application/json")
w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, GetResult)
})
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "POST")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

w.WriteHeader(http.StatusCreated)
fmt.Fprintf(w, GetResult)
})
}
// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "DELETE")
    th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
    w.WriteHeader(http.StatusNoContent)
})
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "PATCH")
    th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
    th.TestJSONRequest(t, r, UpdateRequest)
    w.WriteHeader(http.StatusOK)
    fmt.Fprintf(w, UpdateResult)
})
}

package testing
import (
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    count := 0
        count++
        actual, err := resources.Extract_resources(page)
        th.AssertNoErr(t, err)
        th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
        return true, nil
    })
    th.Assert(t, count == ExpectedResourcesCount, "Count must match")
    th.Assert(t, err == nil, "Expected no errors")
}

func TestDeleteResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourcesSuccessfully(t)

    count := 0
        count++
        actual, err := resources.ExtractResources(page)
        th.AssertNoErr(t, err)
        th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
        return true, nil
    })
    th.Assert(t, count == ExpectedResourcesCount, "Count must match")
    th.Assert(t, err == nil, "Expected no errors")
}

func TestUpdateResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleUpdateResourcesSuccessfully(t)

    count := 0
        count++
        actual, err := resources.ExtractResources(page)
        th.AssertNoErr(t, err)
        th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
        return true, nil
    })
    th.Assert(t, count == ExpectedResourcesCount, "Count must match")
    th.Assert(t, err == nil, "Expected no errors")
}
return true, nil
})

th.AssertNoErr(t, err)
th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
    actual, err := resources.ExtractResources(allPages)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleGetResourceSuccessfully(t)

    actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
    th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleCreateResourceSuccessfully(t)

    createOpts := resources.CreateOpts{
        Name: "resource two",
    }

    actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
    th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourceSuccessfully(t)

    res := resources.Delete(client.ServiceClient(), "9fe1d3")
th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
th.SetupHTTP()
defer th.TeardownHTTP()
HandleUpdateResourceSuccessfully(t)

updateOpts := resources.UpdateOpts{
    Description: "Staging Resource",
}

actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
th.AssertNoErr(t, err)
th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
    q, err := gophercloud.BuildQueryString(opts)
    return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)
    if opts != nil {
        query, err := opts.ToResourceListQuery()
        if err != nil {
            return pagination.Pager{Err: err}
        }
        url += query
    }

    return pagination.Pager{
        IDHeader: "id",
        NextLinkHeader: "next",
        PrevLinkHeader: "prev",
        LinkHeader: "links",
        CountHeader: "count",
        ItemKey: "resources",
        KeyFunc: func(item interface{}) string { return item.(Resource).ID }
    }
}

// Resource represents a single resource.
// Resource implements gophercloud.ResourceInterface, allowing
// it to be passed to the List, Show, Create, Update, Delete,
// and DeleteForce methods.

// ListResource returns a list of RESOURCES.
func ListResource(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    // ...
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    resp, err := client.Get(getURL(client, id), &r.Body, nil)
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    resp, err := client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{201},
    })
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    resp, err := client.Delete(deleteURL(client, id), nil)
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}
// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    resp, err := client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

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package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}
func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

Step 7: Congratulations!
=====================================

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

Step 4: Acceptance Testing
=====================================

If we haven't started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.
/*
Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE
Example to Delete a RESOURCE

*/
package RESOURCE
Step 2: Create an Issue

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* https://github.com/gophercloud/gophercloud/issues/108
* https://github.com/gophercloud/gophercloud/issues/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
* https://github.com/gophercloud/gophercloud/issues/629
* https://github.com/gophercloud/gophercloud/issues/647

Feature Request

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is to start a discussion about whether or not the feature should be included in Gophercloud. We don't want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:
### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.
Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links are required for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* https://github.com/gophercloud/gophercloud/issues/723

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

Step 3: Code Hunting

==============

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621). In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package. Meaning, we want to change:

```go
// type Network struct {
ID string `json:"id"
```
to look like

```go
type Network struct {
    ID                string `json:"id"
    Name              string `json:"name"
    AdminStateUp      bool  `json:"admin_state_up"
    Status            string `json:"status"
    Subnets           []string `json:"subnets"
    TenantID          string `json:"tenant_id"
    Shared            bool   `json:"shared"
    AvailabilityZoneHints []string `json:"availability_zone_hints"
}
```
The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[string]`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Code Hunting Tips
-----------------

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

Step 1: Read Our Guides
------------------------

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](.github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud
and how to get started. This tutorial you're reading is very similar to that
guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used
in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

1.413 hashicorp-serf
598c54895cc5a7b1a24a398d635e8c0ea09598
70

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import: ../../../../fossene/db/schema/thing.yml

fields:
  site: string
  author: root

1.423 arptables 1.8.4
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1.425 errors 0.8.1

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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1.437 p11-kit 0.23.22-1.el8

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1.438 prometheus-common 0.4.1

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1.439 projectcalico-felix 0.0.0-20210514000450-071dfeb9531e

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3cb12d277f655e57e8efe3486dca2a22fa4e30578
#
# Automatically generated file; DO NOT EDIT.
# Linux/x86 5.9.0-rc1 Kernel Configuration
#
CONFIG_CC_VERSION_TEXT="gcc (GCC) 8.2.1 20180801 (Red Hat 8.2.1-2)"
CONFIG_CC_IS_GCC=y
CONFIG_GCC_VERSION=80201
CONFIG_LD_VERSION=230000000
CONFIG_CLANG_VERSION=0
CONFIG_CC_CAN_LINK=y
CONFIG_CC_CAN_LINK_STATIC=y
CONFIG_CC_HAS_ASM_GOTO=y
CONFIG_IRQ_WORK=y
CONFIG_BUILDTIME_TABLE_SORT=y
CONFIG_THREAD_INFO_IN_TASK=y

#
# General setup
#
CONFIG_INIT_ENV_ARG_LIMIT=32
# CONFIG_COMPILE_TEST is not set
CONFIG_LOCALVERSION=""
CONFIG_LOCALVERSION_AUTO=y
CONFIG_BUILD_SALT=""
CONFIG_HAVE_KERNEL_GZIP=y
CONFIG_HAVE_KERNEL_BZIP2=y
CONFIG_HAVE_KERNEL_LZMA=y
CONFIG_HAVE_KERNEL_XZ=y
CONFIG_HAVE KERNEL_LZO=y
CONFIG_HAVE_KERNEL_LZ4=y
CONFIG_HAVE_KERNEL_ZSTD=y
CONFIG_KERNEL_GZIP=y
# CONFIG_KERNEL_BZIP2 is not set
# CONFIG_KERNEL_LZMA is not set
# CONFIG_KERNEL_XZ is not set
# CONFIG_KERNEL_LZO is not set
# CONFIG_KERNEL_LZ4 is not set
# CONFIG_KERNEL_ZSTD is not set
CONFIG_DEFAULT_INIT=""
CONFIG_DEFAULT_HOSTNAME="(none)"
CONFIG_SWAP=y
CONFIG_SYSVIPC=y
CONFIG_SYSVIPC_SYSCTL=y
CONFIG_POSIX_MQUEUE=y
CONFIG_POSIX_MQUEUE_SYSCTL=y
# CONFIG_WATCH_QUEUE is not set
CONFIG_CROSS_MEMORY_ATTACH=y
# CONFIG_USELIB is not set
CONFIG_AUDIT=y
CONFIG_HAVE_ARCH_AUDITSYSCALL=y
CONFIG_AUDITSYSCALL=y

# IRQ subsystem
#
CONFIG_GENERIC_IRQ_PROBE=y
CONFIG_GENERIC_IRQ_SHOW=y
CONFIG_GENERIC_IRQ_EFFECTIVE_AFF_MASK=y
CONFIG_GENERIC_PENDING_IRQ=y
CONFIG_GENERIC_IRQ_MIGRATION=y
CONFIG_HARDIRQS_SW_RESEND=y
CONFIG_IRQ_DOMAIN=y
CONFIG_IRQ_DOMAIN_HIERARCHY=y
CONFIG_GENERIC_MSI_IRQ=y
CONFIG_GENERIC_MSI_IRQ_DOMAIN=y
CONFIG_GENERIC_IRQ_MATRIX_ALLOCATOR=y
CONFIG_GENERIC_IRQ_RESERVATION_MODE=y
CONFIG_IRQ_FORCED_THREADING=y
CONFIG_SPARSE_IRQ=y
# CONFIG_GENERIC_IRQ_DEBUGFS is not set
# end of IRQ subsystem

CONFIG_CLOCKSOURCE_WATCHDOG=y
CONFIG_ARCH_CLOCKSOURCE_INIT=y
CONFIG_CLOCKSOURCE_VALIDATE_LAST_CYCLE=y
CONFIG_GENERIC_TIME_VSYSCALL=y
CONFIG_GENERIC_CLOCKEVENTS=y
CONFIG_GENERIC_CLOCKEVENTS_BROADCAST=y
CONFIG_GENERIC_CLOCKEVENTS_MIN_ADJUST=y
CONFIG_GENERIC_CMOS_UPDATE=y
CONFIG_HAVE_POSIX_CPU_TIMERS_TASK_WORK=y
CONFIG_POSIX_CPU_TIMERS_TASK_WORK=y

#
# Timers subsystem
#
CONFIG_TICK_ONESHOT=y
CONFIG_NO_HZ_COMMON=y
# CONFIG_HZ_PERIODIC is not set
CONFIG_NO_HZ_IDLE=y
# CONFIG_NO_HZ_FULL is not set
CONFIG_NO_HZ=y
CONFIG_HIGH_RES_TIMERS=y
# end of Timers subsystem

# CONFIG_PREEMPT_NONE is not set
# CONFIG_PREEMPT_VOLUNTARY is not set
CONFIG_PREEMPT=y
CONFIG_PREEMPT_COUNT=y
CONFIG_PREEMPTION=y

#
# CPU/Task time and stats accounting
#
CONFIG_TICK_CPU_ACCOUNTING=y
# CONFIG_VIRT_CPU_ACCOUNTING_GEN is not set
# CONFIG_IRQ_TIME_ACCOUNTING is not set
CONFIG_BSD_PROCESS_ACCT=y
# CONFIG_BSD_PROCESS_ACCT_V3 is not set
CONFIG_TASKSTATS=y
CONFIG_TASK_DELAY_ACCT=y
CONFIG_TASK_XACCT=y
CONFIG_TASK_IO_ACCOUNTING=y
# CONFIG_PSI is not set
# end of CPU/Task time and stats accounting
# CONFIG_CPU_ISOLATION is not set

#
# RCU Subsystem
#
CONFIG_TREE_RCU=y
CONFIG_PREEMPT_RCU=y
# CONFIG_RCU_EXPERT is not set
CONFIG_SRCU=y
CONFIG_TREE_SRCU=y
CONFIG_TASKS_RCU_GENERIC=y
CONFIG_TASKS_RCU=y
CONFIG_TASKS_RUDE_RCU=y
CONFIG_RCUSTALL_COMMON=y
CONFIG_RCU_NEED_SEGCBLIST=y
# end of RCU Subsystem

CONFIG_IKCONFIG=y
CONFIG_IKCONFIG_PROC=y
# CONFIG_IKHEADERS is not set
CONFIG_LOG_BUF_SHIFT=21
CONFIG_LOG_CPU_MAX_BUF_SHIFT=0
CONFIG_PRINTK_SAFE_LOG_BUF_SHIFT=13
CONFIG_HAVE_UNSTABLE_SCHED_CLOCK=y

#
# Scheduler features
#
# CONFIG_UCLAMP_TASK is not set
# end of Scheduler features

CONFIG_ARCH_SUPPORTS_NUMA_BALANCING=y
CONFIG_ARCH_WANT_BATCHED_UNMAP_TLB_FLUSH=y
CONFIG_CC_HAS_INT128=y
CONFIG_ARCH_SUPPORTS_INT128=y
CONFIG_NUMA_BALANCING=y
# CONFIG_NUMA_BALANCING_DEFAULT_ENABLED is not set
CONFIG_CGROUPS=y
CONFIG_PAGE_COUNTER=y
CONFIG_MEMCG=y
CONFIG_MEMCG_SWAP=y
CONFIG_MEMCG_KMEM=y
CONFIG_BLK_CGROUP=y
CONFIG_CGROUP_WRITEBACK=y
CONFIG_CGROUP_SCHED=y
CONFIG_FAIR_GROUP_SCHED=y
CONFIG_CFS_BANDWIDTH=y
# CONFIG_RT_GROUP_SCHED is not set
# CONFIG_CGROUP_PIDS is not set
# CONFIG_CGROUP_RDMA is not set
CONFIG_CGROUP_FREEZER=y
CONFIG_CGROUP_HUGETLB=y
CONFIG_CPUSETS=y
CONFIG_PROC_PID_CPUSET=y
CONFIG_CGROUP_DEVICE=y
CONFIG_CGROUP_CPUACCT=y
CONFIG_CGROUP_PERF=y
CONFIG_CGROUP_BPF=y
# CONFIG_CGROUP_DEBUG is not set
CONFIG.SOCK_CGROUP_DATA=y
CONFIG_NAMESPACES=y
CONFIG_UTS_NS=y
CONFIG_TIME_NS=y
CONFIG_IPC_NS=y
CONFIG_USER_NS=y
CONFIG_PID_NS=y
CONFIG_NET_NS=y
# CONFIG_CHECKPOINT_RESTORE is not set
# CONFIG_SCHED_AUTOGROUP is not set
# CONFIG_SYSFS_DEPRECATED is not set
CONFIG_RELAY=y
CONFIG_BLK_DEV_INITRD=y
CONFIG_INITRAMFS_SOURCE=""
CONFIG_RD_GZIP=y
CONFIG_RD_BZIP2=y
CONFIG_RD_LZMA=y
CONFIG_RD_XZ=y
CONFIG_RD_LZO=y
CONFIG_RD_LZ4=y
CONFIG_RD_ZSTD=y
CONFIG_BOOT_CONFIG=y
CONFIG_CC_OPTIMIZE_FOR_PERFORMANCE=y
# CONFIG_CC_OPTIMIZE_FOR_SIZE is not set
CONFIG_SYSCTL=y
CONFIG_SYSCTL_EXCEPTION_TRACE=y
CONFIG_HAVE_PCSPKR_PLATFORM=y
CONFIG_BPF=y
CONFIG_EXPERT=y
CONFIG_MULTIUSER=y
CONFIG_SGETMASK_SYSCALL=y
# CONFIG_SYSFS_SYSCALL is not set
CONFIG_FHANDLE=y
CONFIG_POSIX_TIMERS=y
CONFIG_PRINTK=y
CONFIG_PRINTK_NMI=y
CONFIG_BUG=y
CONFIG_ELF_CORE=y
CONFIG_PCSPKR_PLATFORM=y
CONFIG_BASE_FULL=y
CONFIG_FUTEX=y
CONFIG_FUTEX_PI=y
CONFIG_EPOLL=y
CONFIG_SIGNALFD=y
CONFIG_TIMERFD=y
CONFIG_EVENTFD=y
CONFIG_SHMEM=y
CONFIG_AIO=y
CONFIG_IOURING=y
CONFIG_ADVISE_SYSCALLS=y
CONFIG_MEMBARRIER=y
CONFIG_KALLSYMS=y
CONFIG_KALLSYMS_ALL=y
CONFIG_KALLSYMS_ABSOLUTE_PERCPU=y
CONFIG_KALLSYMS_BASE.Relative=y
CONFIG_BPF_LSM=y
CONFIG_BPF_SYSCALL=y
CONFIG_ARCH_WANT_DEFAULT_BPF_JIT=y
CONFIG_BPF_JIT ALWAYS ON=y
CONFIG_BPF_JIT DEFAULT ON=y
CONFIG_USERMODE_DRIVER=y
CONFIG_BPF_PRELOAD=y
CONFIG_BPF_PRELOAD_UMD=y
# CONFIG_USERFAULTFD is not set
CONFIG_ARCH_HAS_MEMBARRIER SYNC CORE=y
CONFIG_RSEQ=y
# CONFIG_DEBUG_RSEQ is not set
# CONFIG_EMBEDDED is not set
CONFIG_HAVE_PERF_EVENTS=y
# CONFIG_PC104 is not set

#
# Kernel Performance Events And Counters
#
CONFIG_PERF_EVENTS=y
# CONFIG_DEBUG_PERF_USE_VMALLOC is not set
# end of Kernel Performance Events And Counters

CONFIG_VM_EVENT_COUNTERS=y
CONFIG_SLUB_DEBUG=y
# CONFIG_SLUB_MEMCG_SYSFS_ON is not set
CONFIG_COMPAT_BRK=y
# CONFIG_SLAB is not set
CONFIG_SLUB=y
# CONFIG_SLOB is not set
CONFIG_SLAB_MERGE_DEFAULT=y
# CONFIG_SLAB_FREELIST_RANDOM is not set
# CONFIG_SLAB_FREELIST_HARDEDNED is not set
# CONFIG_SHUFFLE_PAGE_ALLOCATOR is not set
CONFIG_SLUB_CPU_PARTIAL=y
CONFIG_PROFILING=y
CONFIG_TRACEPOINTS=y
# end of General setup

CONFIG_64BIT=y
CONFIG_X86_64=y
CONFIG_X86=y
CONFIG_INSTRUCTION_DECODER=y
CONFIG_OUTPUT_FORMAT="elf64-x86-64"
CONFIG_LOCKDEP_SUPPORT=y
CONFIG_STACKTRACE_SUPPORT=y
CONFIG_MMU=y
CONFIG_ARCH_MMAP_RND_BITS_MIN=28
CONFIG_ARCH_MMAP_RND_BITS_MAX=32
CONFIG_ARCH_MMAP_RND_COMPAT_BITS_MIN=8
CONFIG_ARCH_MMAP_RND_COMPAT_BITS_MAX=16
CONFIG_GENERIC_ISA_DMA=y
CONFIG_GENERIC_BUG=y
CONFIG_GENERIC_BUG_RELATIVE_POINTERS=y
CONFIG_ARCH_MAY_HAVE_PC_FDC=y
CONFIG_GENERIC_CALIBRATE_DELAY=y
CONFIG_ARCH_HAS_CPU_RELAX=y
CONFIG_ARCH_HAS_CACHE_LINE_SIZE=y
CONFIG_ARCH_HAS_FILTER_PGPROT=y
CONFIG_HAVE_SETUP_PER_CPU_AREA=y
CONFIG_NEED_PER_CPU_EMBED_FIRST_CHUNK=y
CONFIG_NEED_PER_CPU_PAGE_FIRST_CHUNK=y
CONFIG_ARCH_HIBERNATION_POSSIBLE=y
CONFIG_ARCH_SUSPEND_POSSIBLE=y
CONFIG_ARCH_WANT_GENERAL_HUGETLB=y
CONFIG_ZONE_DMA32=y
CONFIG_AUDIT_ARCH=y
CONFIG_ARCH_SUPPORTS_DEBUG_PAGEALLOC=y
CONFIG_X86_64_SMP=y
CONFIG_ARCH_SUPPORTS_UPROBES=y
CONFIG_FIX_EARLYCON_MEM=y
CONFIG_PGTABLELEVELS=4
CONFIG_CC_HAS_SANE_STACKPROTECTOR=y

#
# Processor type and features
#
CONFIG_ZONE_DMA=y
CONFIG_SMP=y
CONFIG_X86_FEATURE_NAMES=y
CONFIG_X86_MPPARSE=y
# CONFIG_GOLDFISH is not set
# CONFIG_RETPOLINE is not set
# CONFIG_X86_CPU_RESCTRL is not set
CONFIG_X86_EXTENDED_PLATFORM=y
# CONFIG_X86_VSMP is not set
# CONFIG_X86_GOLDFISH is not set
# CONFIG_X86_AMD_PLATFORM_DEVICE is not set
# CONFIG_IOSF_MBI is not set
CONFIG_X86_SUPPORTS_MEMORY_FAILURE=y
CONFIG_SCHED_OMIT_FRAME_POINTER=y
# CONFIG_HYPERVISOR_GUEST is not set
# CONFIG_MK8 is not set
# CONFIG_MPSC is not set
CONFIG_MCORE2=y
# CONFIG_MATOM is not set
# CONFIG_GENERIC_CPU is not set
CONFIG_X86_INTERNODE_CACHE_SHIFT=6
CONFIG_X86_L1_CACHE_SHIFT=6
CONFIG_X86_INTEL_USERCOPY=y
CONFIG_X86_USE_PPRO_CHECKSUM=y
CONFIG_X86_P6_NOP=y
CONFIG_X86_TSC=y
CONFIG_X86_CMPXCHG64=y
CONFIG_X86_CMOV=y
CONFIG_X86_MINIMUM_CPU_FAMILY=64
CONFIG_X86_DEBUGCTRLMSR=y
CONFIG_1A32_FEAT_CTL=y
CONFIG_X86_VMX_FEATURE_NAMES=y
# CONFIG_PROCESSOR_SELECT is not set
CONFIG_CPU_SUP_INTEL=y
CONFIG_CPU_SUP_AMD=y
CONFIG_CPU_SUP_HYGON=y
CONFIG_CPU_SUP_CENTAUR=y
CONFIG_CPU_SUP_ZHAOXIN=y
CONFIG_HPET_TIMER=y
CONFIG_DMI=y
CONFIG_GART_IOMMU=y
# CONFIG_MAXSMP is not set
CONFIG_NR_CPUS_RANGE_BEGIN=2
CONFIG_NR_CPUS_RANGE_END=512
CONFIG_NR_CPUS_DEFAULT=64
CONFIG_NR_CPUS=128
CONFIG_SCHED_SMT=y
CONFIG_SCHED_MC=y
CONFIG_SCHED_MC_PRIO=y
CONFIG_X86_LOCAL_APIC=y
CONFIG_X86_IO_APIC=y
# CONFIG_X86_REROUTE_FOR_BROKEN_BOOT_IRQS is not set
CONFIG_X86_MCE=y
# CONFIG_X86_MCELOG_LEGACY is not set
CONFIG_X86_MCE_INTEL=y
CONFIG_X86_MCE_AMD=y
CONFIG_X86_MCE_THRESHOLD=y
# CONFIG_X86_MCE_INJECT is not set
CONFIG_X86_THERMAL_VECTOR=y

#
# Performance monitoring
#
CONFIG_PERF_EVENTS_INTEL_UNCORE=y
# CONFIG_PERF_EVENTS_INTEL_RAPL is not set
# CONFIG_PERF_EVENTS_INTEL_CSTATE is not set
# CONFIG_PERF_EVENTS_AMD_POWER is not set
# end of Performance monitoring

# CONFIG_X86_16BIT is not set
CONFIG_X86_VSYSCALL_EMULATION=y
CONFIG_X86_IOPL_IOPERM=y
# CONFIG_I8K is not set
# CONFIG_MICROCODE is not set
CONFIG_X86_MSR=y
CONFIG_X86_CPUID=y
# CONFIG_X86_5LEVEL is not set
CONFIG_X86_DIRECT_GBPAGES=y
# CONFIG_X86_CPA_STATISTICS is not set
# CONFIG_AMD_MEM_ENCRYPT is not set
CONFIG_NUMA=y
CONFIG_AMD_NUMA=y
CONFIG_X86_64 ACPI_NUMA=y
# CONFIG_NUMA_EMU is not set
CONFIG_NODES_SHIFT=6
CONFIG_ARCH_SPARSEMEM_ENABLE=y
CONFIG_ARCH_SPARSEMEM_DEFAULT=y
CONFIG_ARCH_SELECT_MEMORY_MODEL=y
CONFIG_ARCH_PROC_KCORE_TEXT=y
CONFIG_ILLEGAL_POINTER_VALUE=0xdead000000000000
# CONFIG_X86_PMEM_LEGACY is not set
# CONFIG_X86_CHECK_BIOS_CORRUPTION is not set
CONFIG_X86_RESERVE_LOW=64
CONFIG_MTRR=y
# CONFIG_MTRR_SANITIZER is not set
CONFIG_X86_PAT=y
CONFIG_ARCH_USES_PG_UNCACHED=y
CONFIG_ARCH_RANDOM=y
CONFIG_X86_SMAP=y
CONFIG_X86_UMIP=y
# CONFIG_X86_INTEL_MEMORY_PROTECTION.Keys is not set
CONFIG_X86_INTEL_TSX_MODE_OFF=y
# CONFIG_X86_INTEL_TSX_MODE_ON is not set
# CONFIG_X86_INTEL_TSX_MODE_AUTO is not set
CONFIG_EFI=y
CONFIG_EFI_STUB=y
# CONFIG_EFI_MIXED is not set
CONFIG_SECCOMP=y
# CONFIG_HZ_100 is not set
# CONFIG_HZ_250 is not set
# CONFIG_HZ_300 is not set
CONFIG_HZ_1000=y
CONFIG_HZ=1000
CONFIG_SCHED_HRTICK=y
CONFIG_KEXEC=y
# CONFIG_KEXEC_FILE is not set
# CONFIG_CRASH_DUMP is not set
CONFIG_PHYSICAL_START=0x1000000
CONFIG_RELOCATABLE=y
# CONFIGRANDOMIZE_BASE is not set
CONFIG_PHYSICAL_ALIGN=0x1000000
CONFIG_HOTPLUG_CPU=y
# CONFIG_BOOTPARAM_HOTPLUG_CPU0 is not set
# CONFIG_DEBUG_HOTPLUG_CPU0 is not set
# CONFIG_LEGACY_VSYSCALL_EMULATE is not set
# CONFIG_LEGACY_VSYSCALL_XONLY is not set
CONFIG_LEGACY_VSYSCALL_NONE=y
# CONFIG_CMDLINE_BOOL is not set
CONFIG_MODIFY_LDT_SYSCALL=y
CONFIG_HAVE_LIVEPATCH=y
# CONFIG_LIVEPATCH is not set
# end of Processor type and features

CONFIG_ARCH_HAS_ADD_PAGES=y
CONFIG_ARCH_ENABLE_MEMORY_HOTPLUG=y
CONFIG_USE_PERCPU_NUMA_NODE_ID=y
CONFIG_ARCH_ENABLE_SPLIT_PMD_PTLOCK=y
CONFIG_ARCH_ENABLE_HUGEPAGE_MIGRATION=y
CONFIG_ARCH_ENABLE_THP_MIGRATION=y

# Power management and ACPI options
#
# CONFIG_SUSPEND is not set
# CONFIG_HIBERNATION is not set
# CONFIG_PM is not set
# CONFIG_ENERGY_MODEL is not set
CONFIG_ARCH_SUPPORTS_ACPI=y
CONFIG_ACPI=y
CONFIG_ACPI_LEGACY_TABLES_LOOKUP=y
CONFIG_ARCH_MIGHT_HAVE_ACPI_PDC=y
CONFIG_ACPI_SYSTEM_POWER_STATES_SUPPORT=y
# CONFIG_ACPI_DEBUGGER is not set
# CONFIG_ACPI_SPCR_TABLE is not set
CONFIG_ACPI_LPIT=y
# CONFIG_ACPI_REV_OVERRIDE_POSSIBLE is not set
# CONFIG_ACPI_EC_DEBUGFS is not set
# CONFIG_ACPI_AC is not set
# CONFIG_ACPI_BATTERY is not set
# CONFIG_ACPI_BUTTON is not set
# CONFIG_ACPI_TINY_POWER_BUTTON is not set
# CONFIG_ACPI_VIDEO is not set
# CONFIG_ACPI_FAN is not set
# CONFIG_ACPI_QUICK DE is not set
CONFIG_ACPI_PROCESSOR_CSTATE=y
CONFIG_ACPI_PROCESSOR_IDLE=y
CONFIG_ACPI_CPPC_LIB=y
CONFIG_ACPI_PROCESSOR=y
CONFIG_ACPI_HOTPLUG_CPU=y
# CONFIG_ACPI_PROCESSOR_AGGREGATOR is not set
# CONFIG_ACPI_THERMAL is not set
CONFIG_ARCH_HAS_ACPI_TABLE_UPGRADE=y
# CONFIG_ACPI_TABLE_UPGRADE is not set
# CONFIG_ACPI_DEBUG is not set
# CONFIG_ACPI_PCI_SLOT is not set
CONFIG_ACPI_CONTAINER=y
CONFIG_ACPI_HOTPLUG_IOAPIC=y
# CONFIG_ACPI_SBS is not set
# CONFIG_ACPI_HED is not set
# CONFIG_ACPI_CUSTOM_METHOD is not set
# CONFIG_ACPI_BGRT is not set
# CONFIG_ACPI_REduced_HARDWARE_ONLY is not set
# CONFIG_ACPI_NFIT is not set
CONFIG_ACPI_NUMA=y
# CONFIG_ACPI_HMAT is not set
CONFIG_HAVE_ACPI_APEI=y
CONFIG_HAVE_ACPI_APEI_NMI=y
# CONFIG_ACPI_APEI is not set
# CONFIG_DPTF_POWER is not set
# CONFIG_PMIC_Opregion is not set
# CONFIG_ACPI_CONFIGFS is not set
# CONFIG_X86_PM_TIMER is not set
# CONFIG_SFI is not set

#
# CPU Frequency scaling
#
CONFIG_CPU_FREQ=y
CONFIG_CPU_FREQ_GOV_ATTR_SET=y
CONFIG_CPU_FREQ_GOV_COMMON=y
CONFIG_CPU_FREQ_STAT=y
CONFIG_CPU_FREQ_DEFAULT_GOV_PERFORMANCE=y
# CONFIG_CPU_FREQ_DEFAULT_GOV POWERSAVE is not set
# CONFIG_CPU_FREQ_DEFAULT_GOV USERSPACE is not set
# CONFIG_CPU_FREQ_DEFAULT_GOV ONDEMAND is not set
# CONFIG_CPU_FREQ_DEFAULT_GOV CONSERVATIVE is not set
# CONFIG_CPU_FREQ_DEFAULT_GOV SCHEDUTIL is not set
CONFIG_CPU_FREQ_GOV_PERFORMANCE=y
# CONFIG_CPU_FREQ_GOV POWERSAVE is not set
CONFIG_CPU_FREQ_GOV_USERSPACE=y
CONFIG_CPU_FREQ_GOV_ONDEMAND=y
CONFIG_CPU_FREQ_GOV_CONSERVATIVE=y
CONFIG_CPU_FREQ_GOV_SCHEDUTIL=y

#
# CPU frequency scaling drivers
#
CONFIG_X86_INTEL_PSTATE=y
# CONFIG_X86_PCC_CPUFREQ is not set
CONFIG_X86_ACPI_CPUFREQ=y
CONFIG_X86_ACPI_CPUFREQ_CPB=y
CONFIG_X86_POWERNOW_K8=y
# CONFIG_X86_AMD_FREQ_SENSITIVITY is not set
# CONFIG_X86_SPEEDSTEP_CENTRINO is not set
# CONFIG_X86_P4_CLOCKMOD is not set

#
# shared options
#
# end of CPU Frequency scaling

#
# CPU Idle
#
CONFIG_CPU_IDLE=y
CONFIG_CPU_IDLE_GOV_LADDER=y
CONFIG_CPU_IDLE_GOV_MENU=y
# CONFIG_CPU_IDLE_GOV_TEO is not set
# end of CPU Idle
# CONFIG_INTEL_IDLE is not set
# end of Power management and ACPI options

#
# Bus options (PCI etc.)
#
CONFIG_PCI_DIRECT=y
CONFIG_PCI_MMCONFIG=y
CONFIG_MMCONF_FAM10H=y
# CONFIG_PCI_CNB20LE QUIRK is not set
# CONFIG_ISA_BUS is not set
CONFIG_ISA_DMA_API=y
CONFIG_AMD_NB=y
# CONFIG_X86(SYSFB is not set
# end of Bus options (PCI etc.)

#
# Binary Emulations
#
# CONFIG_IA32_EMULATION is not set
# CONFIG_X86_X32 is not set
# end of Binary Emulations

#
# Firmware Drivers
#
# CONFIG_EDD is not set
CONFIG_FIRMWARE_MEMMAP=y
CONFIG_DMIID=y
# CONFIG_DMI_SYSFS is not set
CONFIG_DMI_SCAN_MACHINE_NON_EFI_FALLBACK=y
# CONFIG_FW_CFG_SYSFS is not set
# CONFIG_GOOGLE_FIRMWARE is not set

#
# EFI (Extensible Firmware Interface) Support
#
# CONFIG_EFI_VARS is not set
CONFIG_EFI_ESRT=y
CONFIG_EFI_RUNTIME_MAP=y
# CONFIG_EFI_FAKE_MEMMAP is not set
CONFIG_EFI_RUNTIME_WRAPPERS=y
CONFIG_EFI_GENERIC_STUB_INITRD_CMDLINE_LOADER=y
# CONFIG_EFI_CAPSULE_LOADER is not set
# CONFIG_EFI_TEST is not set
# CONFIG_APPLE_PROPERTIES is not set
# CONFIG_RESET_ATTACK_MITIGATION is not set
# CONFIG_EFI_RCI2_TABLE is not set
# CONFIG_EFI_DISABLE_PCIE_DMA is not set
# end of EFI (Extensible Firmware Interface) Support

CONFIG_EFI_EARLYCON=y

#
# Tegra firmware driver
#
# end of Tegra firmware driver
# end of Firmware Drivers

CONFIG_HAVE_KVM=y
CONFIG_VIRTUALIZATION=y
# CONFIG_KVM is not set
CONFIG_KVM_WERROR=y
CONFIG_AS_AVX512=y
CONFIG_AS_SHA1_NI=y
CONFIG_AS_SHA256_NI=y

#
# General architecture-dependent options
#
CONFIG_CRASH_CORE=y
CONFIG_KEXEC_CORE=y
CONFIG_HOTPLUG_SMT=y
CONFIG_GENERIC_ENTRY=y
# CONFIG_OPROFILE is not set
CONFIG_HAVE_OPROFILE=y
CONFIG_OPROFILE_NMI_TIMER=y
CONFIG_KPROBES=y
CONFIG_JUMP_LABEL=y
# CONFIG_STATIC_KEYS_SELFTEST is not set
CONFIG_OPTPROBES=y
CONFIG_KPROBES_ON_FTRACE=y
CONFIG_UPROBES=y
CONFIG_HAVE_EFFICIENT_UNALIGNED_ACCESS=y
CONFIG_ARCH_USE_BUILTIN_BSWAP=y
CONFIG_KRETPROBES=y
CONFIG_HAVE_IOREMAP_PROT=y
CONFIG_HAVE_KPROBES=y
CONFIG_HAVE_KRETPROBES=y
CONFIG_HAVE_OPTPROBES=y
CONFIG_HAVE_KPROBES_ON_FTRACE=y
CONFIG_HAVE_FUNCTION_ERROR_INJECTION=y
CONFIG_HAVE_NMI=y
CONFIG_HAVE_ARCH_TRACEHOOK=y
CONFIG_HAVE_DMA_CONTIGUOUS=y
CONFIG_GENERIC_SMP_IDLE_THREAD=y
CONFIG_ARCH_HAS_FORTIFY_SOURCE=y
CONFIG_ARCH_HAS_SET_MEMORY=y
CONFIG_ARCH_HAS_SET_DIRECT_MAP=y
CONFIG_HAVE_ARCH_THREAD_STRUCT_WHITELIST=y
CONFIG_ARCH_WANTS_DYNAMIC_TASK_STRUCT=y
CONFIG_HAVE_ASM_MODVERSIONS=y
CONFIG_HAVE_REGS_AND_STACK_ACCESS_API=y
CONFIG_HAVE_RSEQ=y
CONFIG_HAVE_FUNCTION_ARG_ACCESS_API=y
CONFIG_HAVE_HW_BREAKPOINT=y
CONFIG_HAVE_MIXED_BREAKPOINTS_REGS=y
CONFIG_HAVE_USER_RETURN_NOTIFIER=y
CONFIG_HAVE_PERF_EVENTS_NMI=y
CONFIG_HAVE_HARDLOCKUP_DETECTOR_PERF=y
CONFIG_HAVE_PERF_REGS=y
CONFIG_HAVE_PERF_USER_STACK_DUMP=y
CONFIG_HAVE_ARCH_JUMP_LABEL=y
CONFIG_HAVE_ARCH_JUMP_LABEL_RELATIVE=y
CONFIG_ARCH_HAVE_NMI_SAFE_CMPXCHG=y
CONFIG_HAVEAligned_STRUCT_PAGE=y
CONFIG_HAVE_CMPXCHG_LOCAL=y
CONFIG_HAVE_CMPXCHG_DOUBLE=y
CONFIG_HAVE_ARCH_SECCOMP_FILTER=y
CONFIG_SECCOMP_FILTER=y
CONFIG_HAVE_ARCH_STACKLEAK=y
CONFIG_HAVE_STACKPROTECTOR=y
# CONFIG_STACKPROTECTOR is not set
CONFIG_HAVE_ARCH_WITHIN_STACK_FRAMES=y
CONFIG_HAVE_CONTEXT_TRACKING=y
CONFIG_HAVE_VIRT_CPU_ACCOUNTING_GEN=y
CONFIG_HAVE_IRQ_TIME_ACCOUNTING=y
CONFIG_HAVE_MOVE_PMD=y
CONFIG_HAVE_ARCH_TRANSPARENT_HUGEPAGE=y
CONFIG_HAVE_ARCH_TRANSPARENT_HUGEPAGE_PUD=y
CONFIG_HAVE_ARCH_HUGE_VMAP=y
CONFIG_ARCH_WANT_HUGE_PMD_SHARE=y
CONFIG_HAVE_ARCH_SOFT_DIRTY=y
CONFIG_HAVE_MOD_ARCH_SPECIFIC=y
CONFIG_MODULES_USE_ELF_RELA=y
CONFIG_HAVE_ARCH_HAS_ELF_RANDOMIZE=y
CONFIG_HAVE_ARCH_MMAP_RND_BITS=y
CONFIG_HAVE_EXIT_THREAD=y
CONFIG_ARCH_MMAP_RND_BITS=28
CONFIG_HAVE_STACK_VALIDATION=y
CONFIG_HAVE_RELIABLE_STACKTRACE=y
CONFIG_COMPAT_32BIT_TIME=y
CONFIG_HAVE_ARCH_VMAP_STACK=y
CONFIG_VMAP_STACK=y
CONFIG_ARCH_HAS STRICT KERNEL_RWX=y
CONFIG STRICT KERNEL_RWX=y
CONFIG_ARCH_HAS STRICT MODULE_RWX=y
CONFIG STRICT MODULE_RWX=y
CONFIG_HAVE ARCH PREL32 RELOCATIONS=y
CONFIG_ARCH_USE_MEMREMAP PROT=y
# CONFIG LOCK EVENT COUNTS is not set
CONFIG_ARCH_HAS_MEM_ENCRYPT=y

# GCOV-based kernel profiling
#
# CONFIG GCOV KERNEL is not set
CONFIG_ARCH_HAS GCOV PROFILE ALL=y
# end of GCOV-based kernel profiling

CONFIG_HAVE GCC PLUGINS=y
# end of General architecture-dependent options

CONFIG_RT_MUTEXES=y
CONFIG_BASE_SMALL=0
CONFIG_MODULES=y
# CONFIG_MODULE FORCE LOAD is not set
CONFIG_MODULE_UNLOAD=y
# CONFIG_MODULE FORCE UNLOAD is not set
CONFIG_MODVERSIONS=y
CONFIG_ASM_MODVERSIONS=y
CONFIG_MODULE_SRCVERSION ALL=y
# CONFIG_MODULE SIG is not set
# CONFIG_MODULE COMPRESS is not set
# CONFIG_MODULE ALLOW MISSING NAMESPACE IMPORTS is not set
# CONFIG UNUSED SYMBOLS is not set
# CONFIG TRIM UNUSED KSYM is not set
CONFIG_MODULES_TREE_LOOKUP=y
CONFIG_BLOCK=y
CONFIG_BLK SCSI REQUEST=y
CONFIG_BLK CGROUP RWSTAT=y
CONFIG_BLK DEV BSG=y
CONFIG_BLK DEV BSGLIB=y
# CONFIG_BLK DEV INTEGRITY is not set
# CONFIG_BLK DEV ZONED is not set
CONFIG_BLK DEV THROTTLING=y
# CONFIG_BLK DEV THROTTLING LOW is not set
# CONFIG_BLK CMDLINE PARSER is not set
# CONFIG_BLK WBT is not set
CONFIG_BLK CGROUP IOLATENCY=y
# CONFIG_BLK CGROUP IOCOST is not set
CONFIG_BLK_DEBUG_FS=y
# CONFIG_BLK_SED_OPAL is not set
# CONFIG_BLK_INLINE_ENCRYPTION is not set

#
# Partition Types
#
CONFIG_PARTITION_ADVANCED=y
# CONFIG_ACORN_PARTITION is not set
# CONFIG_AIX_PARTITION is not set
CONFIG_OSF_PARTITION=y
CONFIG_AMIGA_PARTITION=y
# CONFIG_ATARI_PARTITION is not set
CONFIG_MAC_PARTITION=y
CONFIG_MSDOS_PARTITION=y
CONFIG_BSD_DISKLABEL=y
CONFIG_MINIX_SUBPARTITION=y
CONFIG_SOLARIS_X86_PARTITION=y
CONFIG_UNIXWARE_DISKLABEL=y
# CONFIG_LDM_PARTITION is not set
CONFIG_SGI_PARTITION=y
# CONFIG_ULTRIX_PARTITION is not set
CONFIG_SUN_PARTITION=y
CONFIG_KARMA_PARTITION=y
CONFIG_EFI_PARTITION=y
# CONFIG_SYSV68_PARTITION is not set
# CONFIG_CMDLINE_PARTITION is not set
# end of Partition Types

CONFIG_BLK_MQ_PCI=y
CONFIG_BLK_MQ_VIRTIO=y

#
# IO Schedulers
#
CONFIG_MQ_IOSCHED_DEADLINE=y
CONFIG_MQ_IOSCHED_KYBER=y
# CONFIG_IOSCHED_BFQ is not set
# end of IO Schedulers

CONFIG ASN1=y
CONFIG_UNINLINE_SPIN_UNLOCK=y
CONFIG_ARCH_SUPPORTS_ATOMIC_RMW=y
CONFIG_MUTEX_SPIN_ON_OWNER=y
CONFIG_RWSEM_SPIN_ON_OWNER=y
CONFIG_LOCK_SPIN_ON_OWNER=y
CONFIG_ARCH_USE_QUEUED_SPINLOCKS=y
CONFIG_QUEUED_SPINLOCKS=y
CONFIG_ARCH_USE_QUEUED_RWLOCKS=y
CONFIG_QUEUED_RWLOCKS=y
CONFIG_ARCH_HAS_NON_OVERLAPPING_ADDRESS_SPACE=y
CONFIG_ARCH_HAS_SYNC_CORE_BEFORE_USERMODE=y
CONFIG_ARCH_HAS_SYSCALL.WRAPPER=y
CONFIG_FREEZER=y

# Executable file formats
CONFIG_BINFMT_ELF=y
CONFIG_ELFCORE=y
# CONFIG_CORE_DUMP_DEFAULT_ELF_HEADERS is not set
CONFIG_BINFMT_SCRIPT=y
CONFIG_BINFMT_MISC=y
CONFIG_COREDUMP=y
# end of Executable file formats

# Memory Management options
CONFIG_SELECT_MEMORY_MODEL=y
CONFIG_SPARSEMEM_MANUAL=y
CONFIG_SPARSEMEM=y
CONFIG_NEED_MULTIPLE_NODES=y
CONFIG_SPARSEMEM_EXTREME=y
CONFIG_SPARSEMEM_VMEMMAP_ENABLE=y
CONFIG_SPARSEMEM_VMEMMAP=y
CONFIG_HAVE_FAST_GUP=y
CONFIG_MEMORY_ISOLATION=y
# CONFIG_MEMORY_HOTPLUG is not set
CONFIG_SPLIT_PTLOCK_CPUS=4
CONFIG_MEMORY_BALLOON=y
CONFIG_BALLOON_COMPACTION=y
CONFIG_COMPACTION=y
CONFIG_PAGE_REPORTING=y
CONFIG_MIGRATION=y
CONFIG_CONTIG_ALLOC=y
CONFIG_PHYS_ADDR_T_64BIT=y
CONFIG_BOUNCE=y
CONFIG_VIRT_TO_BUS=y
CONFIG_KSM=y
CONFIG_DEFAULT_MMAP_MIN_ADDR=4096
CONFIG_ARCH_SUPPORTS_MEMORY_FAILURE=y
CONFIG_MEMORY_FAILURE=y
CONFIG_HWPOISON_INJECT=y
CONFIG_TRANSPARENT_HUGEPAGE=y
# CONFIG_TRANSPARENT_HUGEPAGE_ALWAYS is not set
CONFIG_TRANSPARENT_HUGEPAGE_MADVISE=y
CONFIG_ARCH_WANTS_THP_SWAP=y
CONFIG_THP_SWAP=y
# CONFIG_CLEANCACHE is not set
# CONFIG_FRONTSWAP is not set
CONFIG_CMA=y
# CONFIG_CMA_DEBUG is not set
# CONFIG_CMA_DEBUGFS is not set
CONFIG_CMA_AREAS=7
# CONFIG_ZPOOL is not set
# CONFIG_ZBUD is not set
# CONFIG_ZSMALLOC is not set
CONFIG GENERIC EARLY IOREMAP=y
# CONFIG_DEFERRED_STRUCT_PAGE_INIT is not set
# CONFIG_IDLE_PAGE_TRACKING is not set
CONFIG_ARCH_HAS_PTE_DEVMAP=y
# CONFIG_PERCPU_STATS is not set
# CONFIG_GUP_BENCHMARK is not set
# CONFIG_READ_ONLY_THP_FOR_FS is not set
CONFIG_ARCH_HAS_PTE_SPECIAL=y
# end of Memory Management options

CONFIG_NET=y
CONFIG_NET_INGRESS=y
CONFIG_NET_EGRESS=y
CONFIG_SKB_EXTENSIONS=y

#
# Networking options
#
CONFIG_PACKET=y
# CONFIG_PACKET_DIAG is not set
CONFIG_UNIX=y
CONFIG_UNIX_SCM=y
# CONFIG_UNIX_DIAG is not set
CONFIG_TLS=y
# CONFIG_TLS_DEVICE is not set
# CONFIG_TLS_TOE is not set
CONFIG_XFRM=y
CONFIG_XFRM_ALGO=y
CONFIG_XFRM_USER=y
# CONFIG_XFRM_INTERFACE is not set
CONFIG_XFRM_SUB_POLICY=y
# CONFIG_XFRM_MIGRATE is not set
# CONFIG_XFRM_STATISTICS is not set
# CONFIG_NET_KEY is not set
CONFIG_XDP_SOCKETS=y
CONFIG_XDP_SOCKETS_DIAG=y
# CONFIG_TCP_CONG_BBR is not set
# CONFIG_DEFAULT_CUBIC is not set
CONFIG_DEFAULT_RENO=y
CONFIG_DEFAULT_TCP_CONG="reno"
CONFIG_TCP_MD5SIG=y
CONFIG_IPV6=y
CONFIG_IPV6_ROUTER_PREF=y
CONFIG_IPV6_ROUTE_INFO=y
# CONFIG_IPV6_OPTIMISTIC_DAD is not set
# CONFIG_INET6_AH is not set
# CONFIG_INET6_ESP is not set
# CONFIG_INET6_IPCOMP is not set
CONFIG_IPV6_MIP6=y
# CONFIG_IPV6_ILA is not set
CONFIG_INET6_TUNNEL=y
# CONFIG_IPV6_VTI is not set
CONFIG_IPV6_SIT=y
# CONFIG_IPV6_SIT_6RD is not set
CONFIG_IPV6_NDISC_NODETYPE=y
CONFIG_IPV6_TUNNEL=y
CONFIG_IPV6_GRE=y
CONFIG_IPV6_MULTIPLE_TABLES=y
CONFIG_IPV6_SUBTREES=y
# CONFIG_IPV6_MROUTE is not set
CONFIG_IPV6_SEG6_LWTUNNEL=y
# CONFIG_IPV6_SEG6_HMAC is not set
CONFIG_IPV6_SEG6_BPF=y
# CONFIG_IPV6_RPL_LWTUNNEL is not set
CONFIG_NETLABEL=y
# CONFIG_MPTCP is not set
CONFIG_NETWORK_SECMARK=y
CONFIG_NET_PTP_CLASSIFY=y
# CONFIG_NETWORK_PHY_TIMESTAMPING is not set
CONFIG_NETFILTER=y
CONFIG_NETFILTER_ADVANCED=y

# # Core Netfilter Configuration
# #
CONFIG_NETFILTER_INGRESS=y
CONFIG_NETFILTER_NETLINK=y
# CONFIG_NETFILTER_NETLINK_ACCT is not set
CONFIG_NETFILTER_NETLINK_QUEUE=y
CONFIG_NETFILTER_NETLINK_LOG=y
# CONFIG_NETFILTER_NETLINK_OBSF is not set
# CONFIG_NF_CONNTRACK is not set
# CONFIG_NF_LOG_NETDEV is not set
# CONFIG_NF_TABLES is not set
CONFIG_NETFILTER_XTABLES=y

#
# Xtables combined modules
#
# CONFIG_NETFILTER_XT_MARK is not set
#
# Xtables targets
#
# CONFIG_NETFILTER_XT_TARGET_AUDIT is not set
# CONFIG_NETFILTER_XT_TARGET_CLASSIFY is not set
# CONFIG_NETFILTER_XT_TARGET_HMARK is not set
# CONFIG_NETFILTER_XT_TARGET_IDLETIMER is not set
# CONFIG_NETFILTER_XT_TARGET_LOG is not set
# CONFIG_NETFILTER_XT_TARGET_MARK is not set
# CONFIG_NETFILTER_XT_TARGET_NFLOG is not set
# CONFIG_NETFILTER_XT_TARGET_NFQUEUE is not set
# CONFIG_NETFILTER_XT_TARGET_RATEEST is not set
# CONFIG_NETFILTER_XT_TARGET_TEE is not set
# CONFIG_NETFILTER_XT_TARGET_SECMARK is not set
# CONFIG_NETFILTER_XT_TARGET_TCPMSS is not set
#
# Xtables matches
#
# CONFIG_NETFILTER_XT_MATCH_ADDRTYPE is not set
# CONFIG_NETFILTER_XT_MATCH_BPF=y
# CONFIG_NETFILTER_XT_MATCH_CGROUP is not set
# CONFIG_NETFILTER_XT_MATCH_COMMENT is not set
# CONFIG_NETFILTER_XT_MATCH_CPU is not set
# CONFIG_NETFILTER_XT_MATCH_DCCP is not set
# CONFIG_NETFILTER_XT_MATCH_DEVGROUP is not set
# CONFIG_NETFILTER_XT_MATCH_DSCP is not set
# CONFIG_NETFILTER_XT_MATCH_ECN is not set
# CONFIG_NETFILTER_XT_MATCH_HC is not set
# CONFIG_NETFILTER_XT_MATCH_HASHLIMIT is not set
# CONFIG_NETFILTER_XT_MATCH_HL is not set
# CONFIG_NETFILTER_XT_MATCH_IPCOMP is not set
# CONFIG_NETFILTER_XT_MATCH_IPRANGE is not set
# CONFIG_NETFILTER_XT_MATCH_L2TP is not set
# CONFIG_NETFILTER_XT_MATCH_LENGTH is not set
# CONFIG_NETFILTER_XT_MATCH_LIMIT is not set
# CONFIG_NETFILTER_XT_MATCH_MAC is not set
# CONFIG_NETFILTER_XT_MATCH_MARK is not set
# CONFIG_NETFILTER_XT_MATCH_MULTIINTERFACE is not set
# CONFIG_NETFILTER_XT_MATCH_NFACCT is not set
# CONFIG_NETFILTER_XT_MATCH_OSF is not set
# CONFIG_NETFILTER_XT_MATCH_OWNER is not set
# CONFIG_NETFILTER_XT_MATCH_POLICY is not set
# CONFIG_NETFILTER_XT_MATCH_PKTTYPE is not set
# CONFIG_NETFILTER_XT_MATCH_QUOTA is not set
# CONFIG_NETFILTER_XT_MATCH_RATEEST is not set
# CONFIG_NETFILTER_XT_MATCH_REALM is not set
# CONFIG_NETFILTER_XT_MATCH_RECENT is not set
# CONFIG_NETFILTER_XT_MATCH_SCTP is not set
# CONFIG_NETFILTER_XT_MATCH_SOCKET is not set
# CONFIG_NETFILTER_XT_MATCH_STATISTIC=y
# CONFIG_NETFILTER_XT_MATCH_STRING is not set
# CONFIG_NETFILTER_XT_MATCH_TCPMSS is not set
# CONFIG_NETFILTER_XT_MATCH_TIME is not set
# CONFIG_NETFILTER_XT_MATCH_U32 is not set
# end of Core Netfilter Configuration

# CONFIG_IP_SET is not set
# CONFIG_IP_VS is not set

# IP: Netfilter Configuration
#
# CONFIG_NF_SOCKET_IPV4 is not set
# CONFIG_NF_TPROXY_IPV4 is not set
# CONFIG_NF_DUP_IPV4 is not set
# CONFIG_NF_LOG_ARP is not set
# CONFIG_NF_LOG_IPV4 is not set
# CONFIG_NF_REJECT_IPV4 is not set
# CONFIG_IP_NF_IPTABLES=y
# CONFIG_IP_NF_MATCH_AH is not set
# CONFIG_IP_NF_MATCH_ECN is not set
# CONFIG_IP_NF_MATCH_TTL is not set
# CONFIG_IP_NF_MATCH_TPROXY is not set
# CONFIG_IP_NF_MANGLE is not set
# CONFIG_IP_NF_RAW is not set
# CONFIG_IP_NF_SECURITY is not set
# CONFIG_IP_NF_ARPTABLES is not set
# end of IP: Netfilter Configuration

# IPv6: Netfilter Configuration
#
# CONFIG_NF_SOCKET_IPV6 is not set
# CONFIG_NF_TPROXY_IPV6 is not set
# CONFIG_NF_DUP_IPV6 is not set
# CONFIG_NF_REJECT_IPV6 is not set
# CONFIG_NF_LOG_IPV6 is not set
# CONFIG_IP6_NF_IPTABLES=y
# CONFIG_IP6_NF_MATCH_AH is not set
# CONFIG_IP6_NF_MATCH_EUI64 is not set
# CONFIG_IP6_NF_MATCH_FRAG is not set
# CONFIG_IP6_NF_MATCH_OPTS is not set
# CONFIG_IP6_NF_MATCH_HL is not set
# CONFIG_IP6_NF_MATCH_IPV6HEADER is not set
# CONFIG_IP6_NF_MATCH_MH is not set
# CONFIG_IP6_NF_MATCH_RT is not set
# CONFIG_IP6_NF_MATCH_SRH is not set
# CONFIG_IP6_NF_FILTER is not set
# CONFIG_IP6_NF_MANGLE is not set
# CONFIG_IP6_NF_RAW is not set
# CONFIG_IP6_NF_SECURITY is not set
# end of IPv6: Netfilter Configuration

CONFIG_BPFILTER=y
CONFIG_BPFILTER_UMH=m
# CONFIG_IP_DCCP is not set
# CONFIG_IP_SCTP is not set
# CONFIG_RDS is not set
# CONFIG_TIPC is not set
# CONFIG_ATM is not set
# CONFIG_L2TP is not set
# CONFIG_BRIDGE is not set
CONFIG_HAVE_NET_DSA=y
# CONFIG_NET_DSA is not set
CONFIG_VLAN_8021Q=y
# CONFIG_VLAN_8021Q_GVRP is not set
# CONFIG_VLAN_8021Q_MVRP is not set
# CONFIG_DECNET is not set
# CONFIG_LLC2 is not set
# CONFIG_ATALK is not set
# CONFIG_X25 is not set
# CONFIG_LAPB is not set
# CONFIG_PHONET is not set
# CONFIG_6LOWPAN is not set
# CONFIG_IEEE802154 is not set
CONFIG_NET_SCHED=y

# Queueing/Scheduling
#
# CONFIG_NET_SCH_CBQ is not set
# CONFIG_NET_SCH_HTB is not set
# CONFIG_NET_SCH_HFSC is not set
# CONFIG_NET_SCH_PRIO is not set
# CONFIG_NET_SCH_MULTIQ is not set
# CONFIG_NET_SCH_RED is not set
# CONFIG_NET_SCH_SFB is not set
# CONFIG_NET_SCH_SFQ is not set
# CONFIG_NET_SCH_TEQL is not set
# CONFIG_NET_SCH_TBF is not set
# CONFIG_NET_SCH_CBS is not set
# CONFIG_NET_SCH_ETF is not set
# CONFIG_NET_SCH_TAPRIO is not set
# CONFIG_NET_SCH_GRED is not set
# CONFIG_NET_SCH_DSMARK is not set
# CONFIG_NET_SCH_NETEM is not set
# CONFIG_NET_SCH_DRR is not set
# CONFIG_NET_SCH_MQPRIO is not set
# CONFIG_NET_SCH_SKBPRI0 is not set
# CONFIG_NET_SCH_CHOKE is not set
# CONFIG_NET_SCH_QFQ is not set
# CONFIG_NET_SCH_CODEL is not set
CONFIG_NET_SCH_FQ_Codel=y
# CONFIG_NET_SCH_CAKE is not set
# CONFIG_NET_SCH_FQ is not set
# CONFIG_NET_SCH_HHF is not set
# CONFIG_NET_SCH_PIE is not set
CONFIG_NET_SCH_INGRESS=y
# CONFIG_NET_SCH_PLUG is not set
# CONFIG_NET_SCH_ETS is not set
CONFIG_NET_SCH_DEFAULT=y
CONFIG_DEFAULT_FQ_Codel=y
# CONFIG_DEFAULT_PFIFO_FAST is not set
CONFIG_DEFAULT_NET_SCH="fq_codel"

# Classification

# CONFIG_NET_CLS=y
# CONFIG_NET_CLS_BASIC is not set
# CONFIG_NET_CLS_TCINDEX is not set
# CONFIG_NET_CLS_ROUTE4 is not set
# CONFIG_NET_CLS_FW is not set
# CONFIG_NET_CLS_U32 is not set
# CONFIG_NET_CLS_RSVP is not set
# CONFIG_NET_CLS_RSVP6 is not set
# CONFIG_NET_CLS_FLOW is not set
CONFIG_NET_CLS_CGROUP=y
CONFIG_NET_CLS_BPF=y
# CONFIG_NET_CLS_FLOWER is not set
# CONFIG_NET_CLS_MATCHALL is not set
CONFIG_EMATCH=y
CONFIG_EMATCH_STACK=32
# CONFIG_NET_EMATCH_CMP is not set
# CONFIG_NET_EMATCH_NBYTE is not set
# CONFIG_NET_EMATCH_U32 is not set
# CONFIG_NET_EMATCH_META is not set
# CONFIG_NET_EMATCH_TEXT is not set
# CONFIG_NET_EMATCH_IPT is not set
CONFIG_NET_CLS_ACT=y
# CONFIG_NET_ACT_POLICE is not set
# CONFIG_NET_ACT_GACT is not set
# CONFIG_NET_ACT_MIRRED is not set
# CONFIG_NET_ACT_SAMPLE is not set
# CONFIG_NET_ACT_IPT is not set
# CONFIG_NET_ACT_NAT is not set
# CONFIG_NET_ACT_PEDIT is not set
# CONFIG_NET_ACT_SIMP is not set
# CONFIG_NET_ACT_SKBEDIT is not set
# CONFIG_NET_ACT_CSUM is not set
# CONFIG_NET_ACT_MPLS is not set
# CONFIG_NET_ACT_VLAN is not set
CONFIG_NET_ACT_BPF=y
# CONFIG_NET_ACT_SKBMOD is not set
# CONFIG_NET_ACT_IEFE is not set
# CONFIG_NET_ACT_TUNNEL_KEY is not set
# CONFIG_NET_ACT_GATE is not set
CONFIG_NET_TC_SKB_EXT=y
CONFIG_NET_SCH_FIFO=y
CONFIG_DCB=y
CONFIG_DNS_RESOLVER=y
# CONFIG_BATMAN_ADV is not set
# CONFIG_OPENVSWITCH is not set
# CONFIG_VSOCKETS is not set
# CONFIG_NETLINK_DIAG is not set
CONFIG_MPLS=y
# CONFIG_NET_MPLS_GSO is not set
# CONFIG_MPLS_ROUTING is not set
# CONFIG_NET_NSH is not set
# CONFIG_HSR is not set
# CONFIG_NET_SWITCHDEV is not set
# CONFIG_NET_L3_MASTER_DEV is not set
# CONFIG_QRTR is not set
# CONFIG_NET_NCSI is not set
CONFIG_RPS=y
CONFIG_RFS_ACCEL=y
CONFIG_XPS=y
# CONFIG_CGROUP_NET_PRIO is not set
CONFIG_CGROUP_NET_CLASSID=y
CONFIG_NET_RX_BUSY_POLL=y
CONFIG_BQL=y
CONFIG_BPF_JIT=y
CONFIG_BPF_STREAM_PARSER=y
CONFIG_NET_FLOW_LIMIT=y

#
# Network testing
#
# CONFIG_NET_PKTGEN is not set
# CONFIG_NET_DROP_MONITOR is not set
# end of Network testing
# end of Networking options

# CONFIG_HAMRADIO is not set
# CONFIG_CAN is not set
# CONFIG_BT is not set
# CONFIG_AF_RXRPC is not set
# CONFIG_AF_KCM is not set
CONFIG_STREAM_PARSER=y
CONFIG_FIB_RULES=y
CONFIG_WIRELESS=y
# CONFIG_CFG80211 is not set

#
# CFG80211 needs to be enabled for MAC80211
#
CONFIG_MAC80211_STA_HASH_MAX_SIZE=0
# CONFIG_WIMAX is not set
# CONFIG_RFKILL is not set
CONFIG_NET_9P=y
CONFIG_NET_9P_VIRTIO=y
# CONFIG_NET_9P_DEBUG is not set
# CONFIG_CAIF is not set
# CONFIG_CEPH_LIB is not set
# CONFIG_NFC is not set
# CONFIG_PSAMPLE is not set
# CONFIG_NET_IFE is not set
CONFIG_LWTUNNEL=y
CONFIG_LWTUNNEL_BPF=y
CONFIG_DST_CACHE=y
CONFIG_GRO.Cells=y
CONFIG_NET.SOCK.MSG=y
CONFIG_NET.DEVLINK=y
CONFIG_FAILOVER=y
CONFIG_ETHTOOL_NETLINK=y
CONFIG_HAVE_EBPF_JIT=y

#
# Device Drivers
#

---
Open Source Used In Crosswork Platform Infrastructure cw-infra-opensource-4.3.0 8502
CONFIG_HAVE_EISA=y
# CONFIG_EISA is not set
CONFIG_HAVE_PCI=y
CONFIG_PCI=y
CONFIG_PCI DOMAINS=y
CONFIG_PCIEPORTBUS=y
# CONFIG_PCIEAER is not set
CONFIG_PCIEASPM=y
CONFIG_PCIEASPM_DEFAULT=y
# CONFIG_PCIEASPM POWERSAVE is not set
# CONFIG_PCIEASPM POWER SUPERSAVE is not set
# CONFIG_PCIEASPM PERFORMANCE is not set
# CONFIG_PCIE PTM is not set
# CONFIG_PCIE BW is not set
CONFIG_PCI_MSI=y
CONFIG_PCI_MSI IRQ_DOMAIN=y
CONFIG_PCI QUIRKS=y
# CONFIG_PCIDEBUG is not set
# CONFIG_PCI_REALLOC_ENABLE AUTO is not set
# CONFIG_PCI STUB is not set
# CONFIG_PCI_PF STUB is not set
CONFIG_PCI_ATS=y
CONFIG_PCI LOCKLESS CONFIG=y
CONFIG_PCI IOV=y
# CONFIG_PCI PRI is not set
# CONFIG_PCI PASID is not set
CONFIG_PCI LABEL=y
# CONFIG HOTPLUG_PCI is not set

# PCI controller drivers
#
# CONFIG_VMD is not set

#
# DesignWare PCI Core Support
#
# CONFIG_PCIE DW PLAT HOST is not set
# CONFIG_PCI MESON is not set
# end of DesignWare PCI Core Support

#
# Mobiveil PCIe Core Support
#
# end of Mobiveil PCIe Core Support

#
# Cadence PCIe controllers support
# end of Cadence PCIe controllers support
# end of PCI controller drivers

# PCI Endpoint
#
# CONFIG_PCI_ENDPOINT is not set
# end of PCI Endpoint

# PCI switch controller drivers
#
# CONFIG_PCI_SW_SWITCHTEC is not set
# end of PCI switch controller drivers

# CONFIG_PCCARD is not set
# CONFIG_RAPIDIO is not set

# Generic Driver Options
#
# CONFIG_UEVENT_HELPER is not set
CONFIG_DEVTMPFS=y
CONFIG_DEVTMPFS_MOUNT=y
CONFIG_STANDALONE=y
# CONFIG_PREVENT_FIRMWARE_BUILD is not set

# Firmware loader
#
CONFIG_FW_LOADER=y
CONFIG_FW_LOADER_PAGED_BUF=y
CONFIG_EXTRA_FIRMWARE=""
CONFIG_FW_LOADER_USER_HELPER=y
# CONFIG_FW_LOADER_USER_HELPER_FALLBACK is not set
# CONFIG_FW_LOADER_COMPRESS is not set
# end of Firmware loader

CONFIG_ALLOW_DEV_COREDUMP=y
# CONFIG_DEBUG_DRIVER is not set
# CONFIG_DEBUG_DEVRES is not set
# CONFIG_DEBUG_TEST_DRIVER_REMOVE is not set
# CONFIG_TEST_ASYNC_DRIVER_PROBE is not set
CONFIG_GENERIC_CPU_AUTOPROBE=y
CONFIG_GENERIC_CPU_VULNERABILITIES=y
CONFIG_DMA_SHARED_BUFFER=y
# CONFIG_DMA_FENCE_TRACE is not set
# end of Generic Driver Options

#
# Bus devices
#
# CONFIG_MHI_BUS is not set
# end of Bus devices

# CONFIG_CONNECTOR is not set
# CONFIG_GNSS is not set
# CONFIG_MTD is not set
# CONFIG_OF is not set
CONFIG_ARCH_MIGHT_HAVE_PC_PARPORT=y
# CONFIG_PARPORT is not set
CONFIG_PNP=y
# CONFIG_PNP_DEBUG_MESSAGES is not set

#
# Protocols
#
CONFIG_PNPACPI=y
CONFIG_BLK_DEV=y
# CONFIG_BLK_DEV_NULL_BLK is not set
# CONFIG_BLK_DEV_FD is not set
# CONFIG_BLK_DEV_PCIESSD_MTIP32XX is not set
# CONFIG_BLK_DEV_UMEM is not set
# CONFIG_BLK_DEV_LOOP is not set
# CONFIG_BLK_DEV_DRBD is not set
# CONFIG_BLK_DEV_NBD is not set
# CONFIG_BLK_DEV_SKD is not set
# CONFIG_BLK_DEV_SX8 is not set
CONFIG_BLK_DEV_RAM=y
CONFIG_BLK_DEV_RAM_COUNT=16
CONFIG_BLK_DEV_RAM_SIZE=16384
# CONFIG_CDROM_PKTCDVD is not set
# CONFIG_ATA_OVER_ETH is not set
CONFIG_VIRTIO_BLK=y
# CONFIG_BLK_DEV_RBD is not set
# CONFIG_BLK_DEV_RSXX is not set

#
# NVME Support
#
# CONFIG_BLK_DEV_NVME is not set
# CONFIG_NVME_FC is not set
# end of NVME Support

#
# Misc devices
#
# CONFIG_DUMMY_IRQ is not set
# CONFIG_IBM_ASM is not set
# CONFIG_PHANTOM is not set
# CONFIG_TIFM_CORE is not set
# CONFIG_ENCLOSURE_SERVICES is not set
# CONFIG_HP_ILO is not set
# CONFIG_SRAM is not set
# CONFIG_PCI_ENDPOINT_TEST is not set
# CONFIG_XILINX_SDFEC is not set
# CONFIG_PVPANIC is not set
# CONFIG_C2PORT is not set

#
# EEPROM support
#
# CONFIG_EEPROM_93CX6 is not set
# end of EEPROM support

# CONFIG_CB710_CORE is not set

#
# Texas Instruments shared transport line discipline
#
# end of Texas Instruments shared transport line discipline

#
# Altera FPGA firmware download module (requires I2C)
#
# CONFIG_INTEL_MEI is not set
# CONFIG_INTEL_MEI_ME is not set
# CONFIG_INTEL_MEI_TXE is not set
# CONFIG_VMWARE_VMCI is not set

#
# Intel MIC & related support
#
# CONFIG_INTEL_MIC_BUS is not set
# CONFIG_SCIF_BUS is not set
# CONFIG_VOP_BUS is not set
# end of Intel MIC & related support

# CONFIG_GENWQIE is not set
# CONFIG_ECHO is not set
# CONFIG_MISC_ALCOR_PCI is not set
# CONFIG_MISC_RTSX_PCI is not set
# CONFIG_HABANA_AI is not set
# end of Misc devices

CONFIG_HAVE_IDE=y
# CONFIG_IDE is not set

#
# SCSI device support
#
CONFIG_SCSI_MOD=y
# CONFIG_RAID_ATTRS is not set
# CONFIG_SCSI is not set
# end of SCSI device support

# CONFIG_ATA is not set
# CONFIG_MD is not set
# CONFIG_TARGET_CORE is not set
# CONFIG_FUSION is not set

#
# IEEE 1394 (FireWire) support
#
# CONFIG_FIREWIRE is not set
# CONFIG_FIREWIRE_NOSY is not set
# end of IEEE 1394 (FireWire) support

# CONFIG_MACINTOSH_DRIVERS is not set
CONFIG_NETDEVICES=y
CONFIG_NET_CORE=y
# CONFIG_BONDING is not set
# CONFIG_DUMMY is not set
# CONFIG_WIREGUARD is not set
# CONFIG_EQUALIZER is not set
# CONFIG_IFB is not set
# CONFIG_NET_TEAM is not set
# CONFIG_MACVLAN is not set
# CONFIG_IPVLAN is not set
CONFIG_VXLAN=y
# CONFIG_GENEVE is not set
# CONFIG_BAREUDP is not set
# CONFIG_GTP is not set
# CONFIG_MACSEC is not set
# CONFIG_NETCONSOLE is not set
CONFIG_TUN=y
# CONFIG_TUN_VNET_CROSS_LE is not set
CONFIG_VETH=y
CONFIG_VIRTIO_NET=y
# CONFIG_NLMON is not set
# CONFIG_ARCNET is not set
# Distributed Switch Architecture drivers

# end of Distributed Switch Architecture drivers

# CONFIG_Ethernet is not set
# CONFIG_FDDI is not set
# CONFIG_HIPPI is not set
# CONFIG_NET_SB1000 is not set
# CONFIG_MDIO_DEVICE is not set
# CONFIG_PHYLIB is not set
# CONFIG_PPP is not set
# CONFIG_SLIP is not set

# Host-side USB support is needed for USB Network Adapter support

# CONFIG_WLAN is not set

# Enable WiMAX (Networking options) to see the WiMAX drivers

# CONFIG_WAN is not set
# CONFIG_VMXNET3 is not set
# CONFIG_FUJITSU_ES is not set
CONFIG_NETDEVSIM=y
CONFIG_NET_FAILOVER=y
# CONFIG_ISDN is not set
# CONFIG_NVM is not set

# Input device support

# CONFIG_INPUT=y
CONFIG_INPUT_FF_MEMLESS=y
# CONFIG_INPUT_POLLDEV is not set
# CONFIG_INPUT_SPARSEKMAP is not set
# CONFIG_INPUT_MATRIXKMAP is not set

# Userland interfaces

# CONFIG_INPUT_MOUSEDEV is not set
# CONFIG_INPUT_JOYDEV is not set
CONFIG_INPUT_EVDEV=y
# CONFIG_INPUT_EVBUG is not set
# Input Device Drivers

# CONFIG_INPUT_KEYBOARD is not set
# CONFIG_INPUT_MOUSE is not set
# CONFIG_INPUT_JOYSTICK is not set
# CONFIG_INPUT_TABLET is not set
# CONFIG_INPUT_TOUCHSCREEN is not set
# CONFIG_INPUT_MISC is not set
# CONFIG_RMI4_CORE is not set

#
# Hardware I/O ports
#
CONFIG_SERIO=y
CONFIG_ARCH_MIGHT_HAVE_PC_SERIO=y
CONFIG_SERIO_I8042=y
CONFIG_SERIO_SERPORT=y
# CONFIG_SERIO_CT82C710 is not set
# CONFIG_SERIO_PCIPS2 is not set
CONFIG_SERIO_LIBPS2=y
# CONFIG_SERIO_RAW is not set
# CONFIG_SERIO_ALTERA_PS2 is not set
# CONFIG_SERIO_PS2MULT is not set
# CONFIG_SERIO_ARC_PS2 is not set
# CONFIG_USERIO is not set
# CONFIG_GAMEPORT is not set
# end of Hardware I/O ports
# end of Input device support

#
# Character devices
#
CONFIG_TTY=y
CONFIG_VT=y
CONFIG_CONSOLE_TRANSLATIONS=y
CONFIG_VT_CONSOLE=y
CONFIG_HW_CONSOLE=y
CONFIG_VT_HW_CONSOLE_BINDING=y
CONFIG_UNIX98_PTYS=y
# CONFIG_LEGACY_PTYS is not set
CONFIG_LDISC_AUTOLOAD=y

#
# Serial drivers
#
CONFIG_SERIAL_EARLYCON=y
CONFIG_SERIAL_8250=y
CONFIG_SERIAL_8250_DEPRECATED_OPTIONS=y
CONFIG_SERIAL_8250_PNP=y
# CONFIG_SERIAL_8250_16550A_VARIANTS is not set
# CONFIG_SERIAL_8250_FINTEK is not set
CONFIG_SERIAL_8250_CONSOLE=y
CONFIG_SERIAL_8250_PCI=y
CONFIG_SERIAL_8250_EXAR=y
CONFIG_SERIAL_8250_NR_UARTS=32
CONFIG_SERIAL_8250_RUNTIME_UARTS=4
CONFIG_SERIAL_8250_EXTENDED=y
CONFIG_SERIAL_8250_MANY_PORTS=y
CONFIG_SERIAL_8250_SHARE_IRQ=y
CONFIG_SERIAL_8250_DETECT_IRQ=y
CONFIG_SERIAL_8250_RSA=y
# CONFIG_SERIAL_8250_DW is not set
# CONFIG_SERIAL_8250_RT288X is not set
# CONFIG_SERIAL_8250_LPSS is not set
# CONFIG_SERIAL_8250_MID is not set

#
# Non-8250 serial port support
#
# CONFIG_SERIAL_UARTLITE is not set
CONFIG_SERIAL_CORE=y
CONFIG_SERIAL_CORE_CONSOLE=y
# CONFIG_SERIAL_JSM is not set
# CONFIG_SERIAL_LANTIQ is not set
# CONFIG_SERIAL_SCCNXP is not set
# CONFIG_SERIAL_ALTERA_JTAGUART is not set
# CONFIG_SERIAL_ALTERA_UART is not set
# CONFIG_SERIAL_ARC is not set
# CONFIG_SERIAL_RP2 is not set
# CONFIG_SERIAL_FSL_LPUART is not set
# CONFIG_SERIAL_FSL_LINFOLEXUART is not set
# CONFIG_SERIAL_SPRD is not set
# end of Serial drivers

CONFIG_SERIAL_NONSTANDARD=y
# CONFIG_ROCKETPORT is not set
# CONFIG_CYCLADES is not set
# CONFIG_MOXA_INTELLIO is not set
# CONFIG_MOXA_SMARTIO is not set
# CONFIG_SYNCLINK is not set
# CONFIG_SYNCLINKMP is not set
# CONFIG_SYNCLINK_GT is not set
# CONFIG_ISI is not set
# CONFIG_N_HDLC is not set
# CONFIG_N_GSM is not set
# CONFIG_NOZOMI is not set
# CONFIG_NULL_TTY is not set
# CONFIG_TRACE_SINK is not set
CONFIG_HVC_DRIVER=y
# CONFIG_SERIAL_DEV_BUS is not set
# CONFIG_TTY_PRINTK is not set
CONFIG_VIRTIO_CONSOLE=y
# CONFIG_IPMI_HANDLER is not set
# CONFIG_HW_RANDOM is not set
# CONFIG_APPLICOM is not set
# CONFIG_MWAVE is not set
CONFIG_DEVMEM=y
CONFIG_DEVKMEM=y
# CONFIG_NVRAM is not set
# CONFIG_RAW_DRIVER is not set
CONFIG_DEVPORT=y
CONFIG_HPET=y
# CONFIG_HPET_MMAP is not set
# CONFIG_HANGCHECK_TIMER is not set
CONFIG_TCG_TPM=y
CONFIG_TCG_TIS_CORE=y
CONFIG_TCG_TIS=y
# CONFIG_TCG_NSC is not set
# CONFIG_TCG_ATMEL is not set
# CONFIG_TCG_INFINEON is not set
CONFIG_TCG_CRB=y
# CONFIG_TCG_VTPM_PROXY is not set
# CONFIG_TELCLOCK is not set
# CONFIG_XILLYBUS is not set
# end of Character devices

# CONFIG_RANDOM_TRUST_CPU is not set
# CONFIG_RANDOM_TRUST_BOOTLOADER is not set

# I2C support
#
# CONFIG_I2C is not set
# end of I2C support

# CONFIG_I3C is not set
# CONFIG_SPI is not set
# CONFIG_SPMI is not set
# CONFIG_HSI is not set
CONFIG_PPS=y
# CONFIG_PPS_DEBUG is not set


# PPS clients support
#
# CONFIG_PPS_CLIENT_KTIMER is not set
# CONFIG_PPS_CLIENT_LDISC is not set
# CONFIG_PPS_CLIENT_GPIO is not set
#
# PPS generators support
#
# PTP clock support
#
CONFIG_PTP_1588_CLOCK=y
#
# Enable PHYLIB and NETWORK_PHY_TIMESTAMPING to see the additional clocks.
#
# end of PTP clock support
#
# CONFIG_PINCTRL is not set
# CONFIG_GPIOLIB is not set
# CONFIG_W1 is not set
# CONFIG_POWER_AVS is not set
# CONFIG_POWER_RESET is not set
CONFIG_POWER_SUPPLY=y
# CONFIG_POWER_SUPPLY_DEBUG is not set
# CONFIG_PDA_POWER is not set
# CONFIG_TEST_POWER is not set
# CONFIG_BATTERY_DS2780 is not set
# CONFIG_BATTERY_DS2781 is not set
# CONFIG_BATTERY_BQ27XXX is not set
# CONFIG_CHARGER_MAX8903 is not set
# CONFIG_HWMON is not set
CONFIG_THERMAL=y
# CONFIG_THERMAL_NETLINK is not set
# CONFIG_THERMAL_STATISTICS is not set
CONFIG_THERMAL_EMERGENCY_POWEROFF_DELAY_MS=0
CONFIG_THERMAL_WRITABLE_TRIPS=y
CONFIG_THERMAL_DEFAULT_GOV_STEP_WISE=y
# CONFIG_THERMAL_DEFAULT_GOV_FAIR_SHARE is not set
# CONFIG_THERMAL_DEFAULT_GOV_USER_SPACE is not set
# CONFIG_THERMAL_GOV_FAIR_SHARE is not set
CONFIG_THERMAL_GOV_STEP_WISE=y
# CONFIG_THERMAL_GOV_BANG_BANG is not set
CONFIG_THERMAL_GOV_USER_SPACE=y
# CONFIG_THERMAL_EMULATION is not set
# Intel thermal drivers

CONFIG_INTEL_POWERCLAMP=y
CONFIG_X86_PKG_TEMP_THERMAL=m
# CONFIG_INTEL_SOC_DTS_THERMAL is not set

# ACPI INT340X thermal drivers

# CONFIG_INT340X_THERMAL is not set
# end of ACPI INT340X thermal drivers

# CONFIG_INTEL_PCH_THERMAL is not set
# end of Intel thermal drivers

# CONFIG_WATCHDOG is not set
CONFIG_SSB_POSSIBLE=y
# CONFIG_SSB is not set
CONFIG_BCMA_POSSIBLE=y
# CONFIG_BCMA is not set

# Multifunction device drivers

# CONFIG_MFD_MADERA is not set
# CONFIG_HTC_PASIC3 is not set
# CONFIG_MFD_INTEL_QUARK_I2C_GPIO is not set
# CONFIG_LPC_ICH is not set
# CONFIG_LPC_SCH is not set
# CONFIG_MFD_INTEL_LPSS_ACPI is not set
# CONFIG_MFD_INTEL_LPSS_PCI is not set
# CONFIG_MFD_JANZ_CMADIO is not set
# CONFIG_MFD_KEMPLD is not set
# CONFIG_MFD_MT6397 is not set
# CONFIG_MFD_RDC321X is not set
# CONFIG_MFD_SM501 is not set
# CONFIG_ABX500_CORE is not set
# CONFIG_MFD_SYSCON is not set
# CONFIG_MFD_TI_AM335X_TSCADC is not set
# CONFIG_MFD_TQMX86 is not set
# CONFIG_MFD_VX855 is not set
# end of Multifunction device drivers

# CONFIG_REGULATOR is not set
# CONFIG_RC_CORE is not set
# CONFIG_MEDIA_CEC_SUPPORT is not set
# CONFIG_MEDIA_SUPPORT is not set
# Graphics support
#
CONFIG_AGP=y
CONFIG_AGP_AMD64=y
CONFIG_AGP_INTEL=y
CONFIG_AGP_SIS=y
CONFIG_AGP_VIA=y
CONFIG_INTEL_GTT=y
CONFIG_VGA_ARB=y
CONFIG_VGA_ARB_MAX_GPUS=16
# CONFIG_VGA_SWITCHEROO is not set
# CONFIG_DRM is not set

#
# ARM devices
#
# end of ARM devices

#
# Frame buffer Devices
#
CONFIG_FB_CMDLINE=y
CONFIG_FB_NOTIFY=y
CONFIG_FB=y
# CONFIG_FIRMWARE_EDID is not set
CONFIG_FB_BOOT_VESA_SUPPORT=y
CONFIG_FB_CFB_FILLRECT=y
CONFIG_FB_CFB_COPYAREA=y
CONFIG_FB_CFB_IMAGEBLIT=y
# CONFIG_FB_FOREIGN_ENDIAN is not set
CONFIG_FB_MODE_HELPERS=y
CONFIG_FB_TILEBLITTING=y

#
# Frame buffer hardware drivers
#
# CONFIG_FB_CIRRUS is not set
# CONFIG_FB_PM2 is not set
# CONFIG_FB_CYBER2000 is not set
# CONFIG_FB_ARC is not set
# CONFIG_FB_ASILIANT is not set
# CONFIG_FB_IMSTT is not set
# CONFIG_FB_VGA16 is not set
CONFIG_FB_VESA=y
# CONFIG_FB_EFI is not set
# CONFIG_FB_N411 is not set
# CONFIG_FB_HGA is not set
# CONFIG_FB_OPENCORES is not set
# CONFIG_FB_S1D13XXX is not set
# CONFIG_FB_NVIDIA is not set
# CONFIG_FB_RIVA is not set
# CONFIG_FB_I740 is not set
# CONFIG_FB_LE80578 is not set
# CONFIG_FB_INTEL is not set
# CONFIG_FB_MATROX is not set
# CONFIG_FB_RADEON is not set
# CONFIG_FB_ATY128 is not set
# CONFIG_FB_ATY is not set
# CONFIG_FB_S3 is not set
# CONFIG_FB_SAVAGE is not set
# CONFIG_FB_SIS is not set
# CONFIG_FB_NEOMAGIC is not set
# CONFIG_FB_KYRO is not set
# CONFIG_FB_3DFX is not set
# CONFIG_FB_VOODOO1 is not set
# CONFIG_FB_VT8623 is not set
# CONFIG_FB_TRIDENT is not set
# CONFIG_FB_Ark is not set
# CONFIG_FB_PM3 is not set
# CONFIG_FB_CARMINE is not set
# CONFIG_FB_IBM_GXT4500 is not set
# CONFIG_FB_VIRTUAL is not set
# CONFIG_FB_METRONOME is not set
# CONFIG_FB_M862XX is not set
# CONFIG_FB_SIMPLE is not set
# CONFIG_FB_SM712 is not set
# end of Frame buffer Devices

# Backlight & LCD device support
#
# CONFIG_LCD_CLASS_DEVICE is not set
CONFIG_BACKLIGHT_CLASS_DEVICE=y
# CONFIG_BACKLIGHT_APPLE is not set
# CONFIG_BACKLIGHT_QCOM_WLED is not set
# CONFIG_BACKLIGHT_SAHARA is not set
# end of Backlight & LCD device support

#
# Console display driver support
#
CONFIG_VGA_CONSOLE=y
CONFIG_VGACON_SOFT_SCROLLBACK=y
CONFIG_VGACON_SOFT_SCROLLBACK_SIZE=64
# CONFIG_VGACON_SOFT_SCROLLBACK_PERSISTENT_ENABLE_BY_DEFAULT is not set
CONFIG_DUMMY_CONSOLE=y
CONFIG_DUMMY_CONSOLE_COLUMNS=80
CONFIG_DUMMY_CONSOLE_ROWS=25
CONFIG_FRAMEBUFFER_CONSOLE=y
CONFIG_FRAMEBUFFER_CONSOLE_DETECT_PRIMARY=y
CONFIG_FRAMEBUFFER_CONSOLE_ROTATION=y
# CONFIG_FRAMEBUFFER_CONSOLE_DEFERRED_TAKEOVER is not set
# end of Console display driver support

CONFIG_LOGO=y
# CONFIG_LOGO_LINUX_MONO is not set
# CONFIG_LOGO_LINUX_VGA16 is not set
CONFIG_LOGO_LINUX_CLUT224=y
# end of Graphics support

# CONFIG_SOUND is not set

# # HID support
#
CONFIG_HID=y
# CONFIG_HID_BATTERY_STRENGTH is not set
# CONFIG_HIDRAW is not set
# CONFIG_UHID is not set
CONFIG_HID GENERIC=y

# # Special HID drivers
#
CONFIG_HID_A4TECH=y
# CONFIG_HID_ACRUX is not set
CONFIG_HID APPLE=y
# CONFIG_HID_AUREAL is not set
CONFIG_HID BELKIN=y
CONFIG_HID CHERRY=y
CONFIG_HID CHICONY=y
# CONFIG_HID COUGAR is not set
# CONFIG_HID_MACALLY is not set
# CONFIG_HID_CMEDIA is not set
CONFIG_HID CYPRESS=y
CONFIG_HID DRAGONRISE=y
# CONFIG_DRAGONRISE_FF is not set
# CONFIG_HID EMS_FF is not set
# CONFIG_HID ELECOM is not set
CONFIG_HID EZKEY=y
# CONFIG_HID GEMBIRD is not set
# CONFIG_HID_GFRM is not set
# CONFIG_HID_GLORIOUS is not set
# CONFIG_HID_KEYTOUCH is not set
CONFIG_HID_KYE=y
# CONFIG_HID_WALTOP is not set
# CONFIG_HID_VIEWSONIC is not set
CONFIG_HID_GYRATION=y
# CONFIG_HID_ICADE is not set
# CONFIG_HID_ITE is not set
# CONFIG_HID_JABRA is not set
CONFIG_HID_TWINHAN=y
CONFIG_HID_KENSINGTON=y
# CONFIG_HID_LCPower is not set
# CONFIG_HID_LENOVO is not set
# CONFIG_HID_MAGICMOUSE is not set
# CONFIG_HID_MALTRON is not set
# CONFIG_HID_MAYFLASH is not set
# CONFIG_HID_REDRAGON is not set
CONFIG_HID_MICROSOFT=y
CONFIG_HID_MONTEREY=y
# CONFIG_HID_MULTITOUCH is not set
# CONFIG_HID_NTI is not set
# CONFIG_HID_ORTEK is not set
CONFIG_HID_PANTHERLORD=y
# CONFIG_PANTHERLORD_FF is not set
CONFIG_HID_PETALYNX=y
# CONFIG_HID_PICOLCD is not set
# CONFIG_HID_PLANTRONICS is not set
# CONFIG_HID_PRIMAX is not set
# CONFIG_HID_SAITKE is not set
CONFIG_HID_SAMSUNG=y
# CONFIG_HID_SPEEDLINK is not set
# CONFIG_HID_STEAM is not set
# CONFIG_HID_STEELSERIES is not set
CONFIG_HID_SUNPLUS=y
# CONFIG_HID_RMI is not set
CONFIG_HID_GREENASIA=y
# CONFIG_GREENASIA_FF is not set
CONFIG_HID_SMARTJOYPLUS=y
# CONFIG_SMARTJOYPLUS_FF is not set
# CONFIG_HID_TIVO is not set
CONFIG_HID_TOPSEED=y
CONFIG_HID_THRUSTMASTER=y
CONFIG_THRUSTMASTER_FF=y
# CONFIG_HID_UDRAW_PS3 is not set
# CONFIG_HID_XINMO is not set
CONFIG_HID_ZEROPLUS=y
CONFIG_ZEROPLUS_FF=y
# CONFIG_HID_ZYDACRON is not set
# CONFIG_HID_SENSOR_HUB is not set
# CONFIG_HID_ALPS is not set
# end of Special HID drivers

#
# Intel ISH HID support
#
# CONFIG_INTEL_ISH_HID is not set
# end of Intel ISH HID support
# end of HID support

CONFIG_USB_OHCI_LITTLE_ENDIAN=y
# CONFIG_USB_SUPPORT is not set
# CONFIG_MMC is not set
# CONFIG_MEMSTICK is not set
# CONFIG_NEW_LEDS is not set
# CONFIG_ACCESSIBILITY is not set
# CONFIG_INFINIBAND is not set
CONFIG_EDAC_ATOMIC_SCRUB=y
CONFIG_EDAC_SUPPORT=y
# CONFIG_EDAC is not set
CONFIG_RTC_LIB=y
CONFIG_RTC_MC146818_LIB=y
# CONFIG_RTC_CLASS is not set
# CONFIG_DMADEVICES is not set

#
# DMABUF options
#
CONFIG_SYNC_FILE=y
# CONFIG_SW_SYNC is not set
# CONFIG_UDMABUF is not set
# CONFIG_DMABUF_MOVE_NOTIFY is not set
# CONFIG_DMABUF_SELFTESTS is not set
# CONFIG_DMABUF_HEAPS is not set
# end of DMABUF options

# CONFIG_AUXDISPLAY is not set
# CONFIG_UIO is not set
CONFIG_VIRT_DRIVERS=y
# CONFIG_VBOXGUEST is not set
CONFIG_VIRTIO=y
CONFIG_VIRTIO_MENU=y
CONFIG_VIRTIO_PCI=y
CONFIG_VIRTIO_PCI_LEGACY=y
CONFIG_VIRTIO_BALLOON=y
# CONFIG_VIRTIO_INPUT is not set
# CONFIG_VIRTIO_MMIO is not set
# CONFIG_VDPA is not set
CONFIG_VHOST_MENU=y
# CONFIG_VHOST_NET is not set
# CONFIG_VHOST_CROSS_ENDIAN_LEGACY is not set

#
# Microsoft Hyper-V guest support
#
# end of Microsoft Hyper-V guest support

# CONFIG_GREYBUS is not set
# CONFIG_STAGING is not set
# CONFIG_X86_PLATFORM_DEVICES is not set
CONFIG_PMC_ATOM=y
# CONFIG_MFD_CROS_EC is not set
# CONFIG_CHROME_PLATFORMS is not set
# CONFIG_MELLANOX_PLATFORM is not set
CONFIG_HAVE_CLK=y
CONFIG_CLKDEV_LOOKUP=y
CONFIG_HAVE_CLK_PREPARE=y
CONFIG_COMMON_CLK=y
# CONFIG_HWSPINLOCK is not set

#
# Clock Source drivers
#
CONFIG_CLKEVT_I8253=y
CONFIG_I8253_LOCK=y
CONFIG_CLKBLD_I8253=y
# end of Clock Source drivers

CONFIG_MAILBOX=y
CONFIG_PCC=y
# CONFIG_ALTERA_MBOX is not set
# CONFIG_IOMMU_SUPPORT is not set

#
# Remoteproc drivers
#
# CONFIG_REMOTEPROC is not set
# end of Remoteproc drivers

#
# Rpmsg drivers
#
# CONFIG_RPMSG_QCOM_GLINK_RPM is not set
# CONFIG_RPMSG_VIRTIO is not set
# end of Rpmsg drivers
# CONFIG_SOUNDWIRE is not set

#
# SOC (System On Chip) specific Drivers
#

#
# Amlogic SoC drivers
#
# end of Amlogic SoC drivers

#
# Aspeed SoC drivers
#
# end of Aspeed SoC drivers

#
# Broadcom SoC drivers
#
# end of Broadcom SoC drivers

#
# NXP/Freescale QorIQ SoC drivers
#
# end of NXP/Freescale QorIQ SoC drivers

#
# i.MX SoC drivers
#
# end of i.MX SoC drivers

#
# Qualcomm SoC drivers
#
# end of Qualcomm SoC drivers

# CONFIG_SOC_TI is not set

#
# Xilinx SoC drivers
#
# CONFIG_XILINX_VCU is not set
# end of Xilinx SoC drivers
# end of SOC (System On Chip) specific Drivers

# CONFIG_PM_DEVFREQ is not set
# CONFIG_EXTCON is not set
# CONFIG_MEMORY is not set
# CONFIG_IIO is not set
# CONFIG_NTB is not set
# CONFIG_VME_BUS is not set
# CONFIG_PWM is not set

#
# IRQ chip support
#
# end of IRQ chip support

# CONFIG_IPACK_BUS is not set
# CONFIG_RESET_CONTROLLER is not set

#
# PHY Subsystem
#
CONFIG_GENERIC_PHY=y
# CONFIG_BCM_KONA_USB2_PHY is not set
# CONFIG_PHY_PXA_28NM_HSIC is not set
# CONFIG_PHY_PXA_28NM_USB2 is not set
# CONFIG_PHY_INTEL_EMMC is not set
# end of PHY Subsystem

# CONFIG_POWERCAP is not set
# CONFIG_MCB is not set

#
# Performance monitor support
#
# end of Performance monitor support

CONFIG_RAS=y
# CONFIG_RAS_CEC is not set
# CONFIG_USB4 is not set

#
# Android
#
# CONFIG_ANDROID is not set
# end of Android

# CONFIG_LIBNVDIMM is not set
# CONFIG_DAX is not set
CONFIG_NVMEM=y
# CONFIG_NVMEM_SYSFS is not set

#
# HW tracing support
#
# CONFIG_STM is not set
# CONFIG_INTEL.TH is not set
# end of HW tracing support

# CONFIG_FPGA is not set
# CONFIG_TEE is not set
# CONFIG_UNISYS_VISORBUS is not set
# CONFIG_SIOX is not set
# CONFIG_SLIMBUS is not set
# CONFIG_INTERCONNECT is not set
# CONFIG_COUNTER is not set
# end of Device Drivers

#
# File systems
#
CONFIG_DCACHE_WORD_ACCESS=y
CONFIG_VALIDATE_FS_PARSER=y
CONFIG_FS_IOMAP=y
# CONFIG_EXT2_FS is not set
# CONFIG_EXT3_FS is not set
CONFIG_EXT4_FS=y
CONFIG_EXT4_USE_FOR_EXT2=y
CONFIG_EXT4_FS_POSIX_ACL=y
CONFIG_EXT4_FS_SECURITY=y
# CONFIG_EXT4_DEBUG is not set
CONFIG_JBD2=y
# CONFIG_JBD2_DEBUG is not set
CONFIG_FS_MBCACHE=y
# CONFIG_REISERFS_FS is not set
# CONFIG_JFS_FS is not set
# CONFIG_XFS_FS is not set
# CONFIG_GFS2_FS is not set
# CONFIG_BTRFS_FS is not set
# CONFIG_NILFS2_FS is not set
# CONFIG_F2FS_FS is not set
# CONFIG_FS_DAX is not set
CONFIG_FS_POSIX_ACL=y
CONFIG_EXPORTFS=y
# CONFIG_EXPORTFS_BLOCK_OPS is not set
CONFIG_FILE_LOCKING=y
CONFIG_MANDATORY_FILE_LOCKING=y
# CONFIG_FS_ENCRYPTION is not set
# CONFIG_FS_VERITY is not set
CONFIG_FSNOTIFY=y
CONFIG_DNOTIFY=y
CONFIG_INOTIFY_USER=y
# CONFIG_FANOTIFY is not set
# CONFIG_QUOTA is not set
# CONFIG_AUTOFS4_FS is not set
# CONFIG_AUTOFS_FS is not set
# CONFIG_FUSE_FS is not set
# CONFIG_OVERLAY_FS is not set

# Caches
#
# CONFIG_FSCACHE is not set
# end of Caches

#
# CD-ROM/DVD Filesystems
#
# CONFIG_ISO9660_FS is not set
# CONFIG_UDF_FS is not set
# end of CD-ROM/DVD Filesystems

#
# DOS/FAT/EXFAT/NT Filesystems
#
# CONFIG_MSDOS_FS is not set
# CONFIG_VFAT_FS is not set
# CONFIG_EXFAT_FS is not set
# CONFIG_NTFS_FS is not set
# end of DOS/FAT/EXFAT/NT Filesystems

#
# Pseudo filesystems
#
CONFIG_PROC_FS=y
CONFIG_PROC_KCORE=y
CONFIG_PROC_SYSCTL=y
CONFIG_PROC_PAGE_MONITOR=y
# CONFIG_PROC_CHILDREN is not set
CONFIG_PROC_PID_ARCH_STATUS=y
CONFIG_KERNFS=y
CONFIG_SYSFS=y
CONFIG_TMPFS=y
CONFIG_TMPFS_POSIX_ACL=y
CONFIG_TMPFS_XATTR=y
# CONFIG_TMPFS_INODE64 is not set
CONFIG_HUGETLBFS=y
CONFIG_HUGETLB_PAGE=y
CONFIG_MEMFD_CREATE=y
CONFIG_ARCH_HAS_GIGANTIC_PAGE=y
# CONFIG_CONFIGFS_FS is not set
# CONFIG_EFIVAR_FS is not set
# end of Pseudo filesystems

# CONFIG_MISC_FILESYSTEMS is not set
CONFIG_NETWORK_FILESYSTEMS=y
# CONFIG_NFS_FS is not set
# CONFIG_NFSD is not set
# CONFIG_CEPH_FS is not set
# CONFIG_CIFS is not set
# CONFIG_CODA_FS is not set
# CONFIG_AFS_FS is not set
CONFIG_9P_FS=y
CONFIG_9P_FS_POSIX_ACL=y
CONFIG_9P_FS_SECURITY=y
CONFIG_NLS=y
CONFIG_NLS_DEFAULT="utf8"
CONFIG_NLS_CODEPAGE_437=y
# CONFIG_NLS_CODEPAGE_737 is not set
# CONFIG_NLS_CODEPAGE_775 is not set
# CONFIG_NLS_CODEPAGE_850 is not set
# CONFIG_NLS_CODEPAGE_852 is not set
# CONFIG_NLS_CODEPAGE_855 is not set
# CONFIG_NLS_CODEPAGE_857 is not set
# CONFIG_NLS_CODEPAGE_860 is not set
# CONFIG_NLS_CODEPAGE_861 is not set
# CONFIG_NLS_CODEPAGE_862 is not set
# CONFIG_NLS_CODEPAGE_863 is not set
# CONFIG_NLS_CODEPAGE_864 is not set
# CONFIG_NLS_CODEPAGE_865 is not set
# CONFIG_NLS_CODEPAGE_866 is not set
# CONFIG_NLS_CODEPAGE_869 is not set
# CONFIG_NLS_CODEPAGE_936 is not set
# CONFIG_NLS_CODEPAGE_950 is not set
# CONFIG_NLS_CODEPAGE_932 is not set
# CONFIG_NLS_CODEPAGE_949 is not set
# CONFIG_NLS_CODEPAGE_874 is not set
# CONFIG_NLS_ISO8859_8 is not set
# CONFIG_NLS_CODEPAGE_1250 is not set
# CONFIG_NLS_CODEPAGE_1251 is not set
CONFIG_NLS_ASCII=y
# CONFIG_NLS_ISO8859_1 is not set
# CONFIG_NLS_ISO8859_2 is not set
# CONFIG_NLS_ISO8859_3 is not set
# CONFIG_NLS_ISO8859_4 is not set
# CONFIG_NLS_ISO8859_5 is not set
# CONFIG_NLS_ISO8859_6 is not set
# CONFIG_NLS_ISO8859_7 is not set
# CONFIG_NLS_ISO8859_9 is not set
# CONFIG_NLS_ISO8859_13 is not set
# CONFIG_NLS_ISO8859_14 is not set
# CONFIG_NLS_ISO8859_15 is not set
# CONFIG_NLS_KOIB8_R is not set
# CONFIG_NLS_KOIB8_U is not set
# CONFIG_NLS_MAC_ROMAN is not set
# CONFIG_NLS_MAC_CELTIC is not set
# CONFIG_NLS_MAC_CENTEUCO is not set
# CONFIG_NLS_MAC_CROATIAN is not set
# CONFIG_NLS_MAC_CYRILLIC is not set
# CONFIG_NLS_MAC_GAELIC is not set
# CONFIG_NLS_MAC_GREEK is not set
# CONFIG_NLS_MAC_ICELAND is not set
# CONFIG_NLS_MAC_INUIT is not set
# CONFIG_NLS_MAC_ROMANIAN is not set
# CONFIG_NLS_MAC_TURKISH is not set
# CONFIG_NLS_UTF8 is not set
# CONFIG_UNICODE is not set
CONFIG_IO_WQ=y
# end of File systems

#
# Security options
#
CONFIG_KEYS=y
# CONFIG_KEYS_REQUEST_CACHE is not set
# CONFIG_PERSISTENT_KEYRINGS is not set
# CONFIG_TRUSTED_KEYS is not set
# CONFIG_ENCRYPTED_KEYS is not set
# CONFIG_KEY_DH_OPERATIONS is not set
# CONFIG_SECURITY_DMESG_RESTRICT is not set
CONFIG_SECURITY=y
CONFIG_SECURITYF=y
CONFIG_SECURITY_NETWORK=y
CONFIG_PAGE_TABLE_ISOLATION=y
# CONFIG_SECURITY_NETWORK_XFRM is not set
# CONFIG_SECURITY_PATH is not set
CONFIG_LSM_MMAP_MIN_ADDR=65536
CONFIG_HAVE_HARDENED_USERCOPY_ALLOCATOR=y
# CONFIG_HARDENED_USERCOPY is not set
# CONFIG_FORTIFY_SOURCE is not set
# CONFIG_STATIC_USERMODEHELPER is not set
CONFIG_SECURITY_SELINUX=y
# CONFIG_SECURITY_SELINUX_BOOTPARAM is not set
# CONFIG_SECURITY_SELINUX_DISABLE is not set
CONFIG_SECURITY_SELINUX_DEVELOP=y
CONFIG_SECURITY_SELINUX_AVC_STATS=y
CONFIG_SECURITY_SELINUX_CHECKREQPROT_VALUE=0
CONFIG_SECURITY_SELINUX_SIDTAB_HASH_BITS=9
CONFIG_SECURITY_SELINUX_SID2STR_CACHE_SIZE=256
# CONFIG_SECURITY_SMACK is not set
# CONFIG_SECURITY_TOMOYO is not set
# CONFIG_SECURITY_APPARMOR is not set
# CONFIG_SECURITY_LOADPIN is not set
# CONFIG_SECURITY_YAMA is not set
# CONFIG_SECURITY_SAFESETID is not set
# CONFIG_SECURITY_LOCKDOWN_LSM is not set
CONFIG_INTEGRITY=y
# CONFIG_INTEGRITY_SIGNATURE is not set
CONFIG_INTEGRITY_AUDIT=y
CONFIG_IANA=y
CONFIG_IAMA_MEASURE_PCR_IDX=10
CONFIG_IAMA_LSM_RULES=y
# CONFIG_IAMA_TEMPLATE is not set
CONFIG_IAMA_NG TEMPLATE=y
# CONFIG_IAMA_SIG_TEMPLATE is not set
CONFIG_IAMA_DEFAULT TEMPLATE="ima-ng"
CONFIG_IAMA_DEFAULT_HASH_SHA1=y
# CONFIG_IAMA_DEFAULT HASH_SHA256 is not set
CONFIG_IAMA_DEFAULT HASH="sha1"
# CONFIG_IAMA_WRITE_POLICY is not set
# CONFIG_IAMA_READ_POLICY is not set
# CONFIG_IAMA APPRAISE is not set
CONFIG_IAMA_MEASURE ASYMMETRIC KEYS=y
CONFIG_IAMA_QUEUE_EARLY_BOOT KEYS=y
# CONFIG_IAMA_SECURE AND OR TRUSTED_BOOT is not set
# CONFIG_EVM is not set
# CONFIG_DEFAULT_SECURITY_SELINUX is not set
CONFIG_DEFAULT_SECURITY_DAC=y
CONFIG_LSM="selinux,bpf"

#
# Kernel hardening options
#

#
# Memory initialization
#
CONFIG_INIT_STACK_NONE=y
# CONFIG_INIT_ON_ALLOC_DEFAULT_ON is not set
# CONFIG_INIT_ON_FREE_DEFAULT_ON is not set
# end of Memory initialization
# end of Kernel hardening options
# end of Security options
CONFIGCRYPTO=y

# Crypto core or helper
# CONFIGCRYPTO_ALGAPI=y
CONFIGCRYPTO_ALGAPI2=y
CONFIGCRYPTO_AEAD=y
CONFIGCRYPTO_AEAD2=y
CONFIGCRYPTO_SKCIPHER=y
CONFIGCRYPTO_SKCIPHER2=y
CONFIGCRYPTO_HASH=y
CONFIGCRYPTO_HASH2=y
CONFIGCRYPTO_RNG=y
CONFIGCRYPTO_RNG2=y
CONFIGCRYPTO_RNG_DEFAULT=y
CONFIGCRYPTO_AKCIPHER2=y
CONFIGCRYPTO_AKCIPHER=y
CONFIGCRYPTO_KPP2=y
CONFIGCRYPTO_ACOMP2=y
CONFIGCRYPTO_MANAGER=y
CONFIGCRYPTO_MANAGER2=y
# CONFIGCRYPTO_USER is not set
CONFIGCRYPTO_MANAGER_DISABLE_TESTS=y
CONFIGCRYPTO_GF128MUL=y
CONFIGCRYPTO_NULL=y
CONFIGCRYPTO_NULL2=y
# CONFIGCRYPTO_PCRYPT is not set
# CONFIGCRYPTO_CRYPTD is not set
# CONFIGCRYPTO_AUTHENC is not set
# CONFIGCRYPTO_TEST is not set
CONFIGCRYPTO_ENGINE=m

# Public-key cryptography
# CONFIGCRYPTO_RSA=y
# CONFIGCRYPTO_DH is not set
# CONFIGCRYPTO_ECDH is not set
# CONFIGCRYPTO_ECRDSA is not set
# CONFIGCRYPTO_CURVE25519 is not set
# CONFIGCRYPTO_CURVE25519_X86 is not set

# Authenticated Encryption with Associated Data
# CONFIGCRYPTO_CCM is not set
CONFIG_CRYPTO_GCM=y
# CONFIG_CRYPTO_CRYPTO_CHACHA20POLY1305 is not set
# CONFIG_CRYPTO_AEGIS128 is not set
# CONFIG_CRYPTO_AEGIS128_AESNI_SSE2 is not set
CONFIG_CRYPTO_SEQIV=y
# CONFIG_CRYPTO_ECHAINIV is not set

# Block modes
#
# CONFIG_CRYPTO_CBC is not set
# CONFIG_CRYPTO_CFB is not set
CONFIG_CRYPTO_CTR=y
# CONFIG_CRYPTO_CTS is not set
# CONFIG_CRYPTO_ECB is not set
# CONFIG_CRYPTO_LRW is not set
# CONFIG_CRYPTO_OFB is not set
# CONFIG_CRYPTO_PCBC is not set
# CONFIG_CRYPTO_XTS is not set
# CONFIG_CRYPTO_KEYWRAP is not set
# CONFIG_CRYPTO_NHPOLY1305_SSE2 is not set
# CONFIG_CRYPTO_NHPOLY1305_AVX2 is not set
# CONFIG_CRYPTO_ADIANTUM is not set
# CONFIG_CRYPTO_ESSIV is not set

# Hash modes
#
# CONFIG_CRYPTO_CMAC is not set
CONFIG_CRYPTO_HMAC=y
# CONFIG_CRYPTO_XCBC is not set
# CONFIG_CRYPTO_VMAC is not set

# Digest
#
CONFIG_CRYPTO_CRC32C=y
# CONFIG_CRYPTO_CRC32C_INTEL is not set
# CONFIG_CRYPTO_CRC32 is not set
# CONFIG_CRYPTO_CRC32_PCLMUL is not set
CONFIG_CRYPTO_XXHASH=y
CONFIG_CRYPTO_BLAKE2B=y
# CONFIG_CRYPTO_BLAKE2S is not set
# CONFIG_CRYPTO_BLAKE2S_X86 is not set
CONFIG_CRYPTO_CRCT10DIF=y
# CONFIG_CRYPTO_CRCT10DIF_PCLMUL is not set
CONFIG_CRYPTO_GHASH=y
# CONFIG_CRYPTO_POLY1305 is not set
# CONFIG_CRYPTO_POLY1305_X86_64 is not set
# CONFIG_CRYPTO_MD4 is not set
CONFIG_CRYPTO_MD5=y
# CONFIG_CRYPTO_MICHAEL_MIC is not set
# CONFIG_CRYPTO_RMD128 is not set
# CONFIG_CRYPTO_RMD160 is not set
# CONFIG_CRYPTO_RMD256 is not set
# CONFIG_CRYPTO_RMD320 is not set
CONFIG_CRYPTO_SHA1=y
# CONFIG_CRYPTO_SHA1_SSSE3 is not set
# CONFIG_CRYPTO_SHA256_SSSE3 is not set
# CONFIG_CRYPTO_SHA512_SSSE3 is not set
CONFIG_CRYPTO_SHA256=y
# CONFIG_CRYPTO_SHA512 is not set
# CONFIG_CRYPTO_SHA3 is not set
# CONFIG_CRYPTO_SM3 is not set
# CONFIG_CRYPTO_STREEBOG is not set
# CONFIG_CRYPTO_TGR192 is not set
# CONFIG_CRYPTO_WP512 is not set
# CONFIG_CRYPTO_GHASH_CLMUL_NI_INTEL is not set
#
# Ciphers
#
CONFIG_CRYPTO_AES=y
# CONFIG_CRYPTO_AES_TI is not set
# CONFIG_CRYPTO_AES_NI_INTEL is not set
# CONFIG_CRYPTO_ANUBIS is not set
# CONFIG_CRYPTO_ARC4 is not set
# CONFIG_CRYPTO_BLOWFISH is not set
# CONFIG_CRYPTO_BLOWFISH_X86_64 is not set
# CONFIG_CRYPTO_CAMELLIA is not set
# CONFIG_CRYPTO_CAMELLIA_X86_64 is not set
# CONFIG_CRYPTO_CAMELLIA_AESNI_AVX_X86_64 is not set
# CONFIG_CRYPTO_CAMELLIA_AESNI_AVX2_X86_64 is not set
# CONFIG_CRYPTO_CAST5 is not set
# CONFIG_CRYPTO_CAST5_AVX_X86_64 is not set
# CONFIG_CRYPTO_CAST6 is not set
# CONFIG_CRYPTO_CAST6_AVX_X86_64 is not set
# CONFIG_CRYPTO_DES is not set
# CONFIG_CRYPTO_DES3_EDE_X86_64 is not set
# CONFIG_CRYPTO_FCRYPT is not set
# CONFIG_CRYPTO_KHAZAD is not set
# CONFIG_CRYPTO_SALSA20 is not set
# CONFIG_CRYPTO_CHACHA20 is not set
# CONFIG_CRYPTO_CHACHA20_X86_64 is not set
# CONFIG_CRYPTO_SEED is not set
# CONFIG_CRYPTO_SERPENT is not set
# CONFIG_CRYPTO_SERPENT_SSE2_X86_64 is not set
# CONFIG_CRYPTO_SERPENT_AVX_X86_64 is not set
# CONFIG_CRYPTO_SERPENT_AVX2_X86_64 is not set
# CONFIG_CRYPTO_SM4 is not set
# CONFIG_CRYPTO_TEA is not set
# CONFIG_CRYPTO_TWOFISH is not set
# CONFIG_CRYPTO_TWOFISH_X86_64 is not set
# CONFIG_CRYPTO_TWOFISH_X86_64_3WAY is not set
# CONFIG_CRYPTO_TWOFISH_AVX_X86_64 is not set

#
# Compression
#
# CONFIG_CRYPTO_DEFLATE is not set
# CONFIG_CRYPTO_LZO is not set
# CONFIG_CRYPTO_842 is not set
# CONFIG_CRYPTO_LZ4 is not set
# CONFIG_CRYPTO_LZ4HC is not set
# CONFIG_CRYPTO_ZSTD is not set

#
# Random Number Generation
#
# CONFIG_CRYPTO_ANSI_CPRNG is not set
CONFIG_CRYPTO_DRBG_MENU=y
CONFIG_CRYPTO_DRBG_HMAC=y
# CONFIG_CRYPTO_DRBG_HASH is not set
# CONFIG_CRYPTO_DRBG_CTR is not set
CONFIG_CRYPTO_DRBG=y
CONFIG_CRYPTO_JITTERENTROPY=y
CONFIG_CRYPTO_USER_API=y
CONFIG_CRYPTO_USER_API_HASH=y
# CONFIG_CRYPTO_USER_API_SKCIPHER is not set
# CONFIG_CRYPTO_USER_API_RNG is not set
# CONFIG_CRYPTO_USER_API_AEAD is not set
CONFIG_CRYPTO_HASH_INFO=y

#
# Crypto library routines
#
CONFIG_CRYPTO_LIB_AES=y
# CONFIG_CRYPTO_LIBBlake2s is not set
# CONFIG_CRYPTO_LIB_BLAKE2S is not set
# CONFIG_CRYPTO_LIB_CURVE25519 is not set
CONFIG_CRYPTO_LIB_POLY1305_RSIZE=11
# CONFIG_CRYPTO_LIB_CHACHA is not set
# CONFIG_CRYPTO_LIB_CHACHA20POLY1305 is not set
CONFIG_CRYPTO_LIB_SHA256=y
CONFIG_CRYPTO_HW=y
# CONFIG_CRYPTO_DEV_PADLOCK is not set
# CONFIG_CRYPTO_DEV_CCP is not set
# CONFIG_CRYPTO_DEV_QAT_DH895xCC is not set
# CONFIG_CRYPTO_DEV_QAT_C3XXX is not set
# CONFIG_CRYPTO_DEV_QAT_C62X is not set
# CONFIG_CRYPTO_DEV_QAT_DH895xCCVF is not set
# CONFIG_CRYPTO_DEV_QAT_C3XXXVF is not set
# CONFIG_CRYPTO_DEV_QAT_C62XVF is not set
# CONFIG_CRYPTO_DEV_NITROX_CNN55XX is not set
CONFIG_CRYPTO_DEV_VIRTIO=m
# CONFIG_CRYPTO_DEV_SAFEXCEL is not set
# CONFIG_CRYPTO_DEV_AMLOGIC_GXL is not set
CONFIG_SYMASYMETRIC_KEY_TYPE=y
CONFIG_SYMASYMETRIC_PUBLIC_KEY_SUBTYPE=y
CONFIG_X509_CERTIFICATE_PARSER=y
# CONFIG_PKCS8_PRIVATE_KEY_PARSER is not set
CONFIG_PKCS7_MESSAGE_PARSER=y

#
# Certificates for signature checking
#
CONFIG_SYSTEM_TRUSTED_KEYRING=y
CONFIG_SYSTEM_TRUSTED KEYS=""
# CONFIG_SYSTEM_EXTRbA_CERTIFICATE is not set
# CONFIG_SECONDARY TRUSTED KEYRING is not set
# CONFIG_SYSTEM_BLACKLIST_KEYRING is not set
# end of Certificates for signature checking

CONFIG_BINARY_PRINTF=y

#
# Library routines
#
# CONFIG_PACKING is not set
CONFIG_BITREVERSE=y
CONFIG_GENERIC_STRNCOPY_FROM_USER=y
CONFIG_GENERIC_STRNLEN_USER=y
CONFIG_GENERIC_NET_UTILS=y
CONFIG_GENERIC_FIND_FIRST_BIT=y
# CONFIG_CORDIC is not set
# CONFIG_PRIME NUMBERS is not set
CONFIG_RATIONAL=y
CONFIG_GENERIC_PCI_IOMAP=y
CONFIG_GENERIC_IOMAP=y
CONFIG_ARCH_USE_CMPXCHG_LOCKREF=y
CONFIG_ARCH_HAS_FAST_MULTIPLIER=y
CONFIG_ARCH_USE_SYM_ANNOTATIONS=y
CONFIG_CRC_CCITT=y
CONFIG_CRC16=y
CONFIG_CRC_T10DIF=y
# CONFIG_CRC_ITU_T is not set
CONFIG_CRC32=y
# CONFIG_CRC32_SELFTEST is not set
CONFIG_CRC32_SLICEBY8=y
# CONFIG_CRC32_SLICEBY4 is not set
# CONFIG_CRC32_SARWATE is not set
# CONFIG_CRC32_BIT is not set
# CONFIG_CRC64 is not set
# CONFIG_CRC4 is not set
# CONFIG_CRC7 is not set
CONFIG_LIBCRC32C=y
# CONFIG_CRC8 is not set
CONFIG_XXHASH=y
# CONFIG_RANDOM32_SELFTEST is not set
CONFIG_LLIB.inflate=y
CONFIG_LZ0.decompress=y
CONFIG_LZ4.decompress=y
CONFIG_ZSTD.decompress=y
CONFIG_XZ.decompress=y
CONFIG_XZ.decompress.x86=y
# CONFIG_XZ.decompress.powerpc is not set
# CONFIG_XZ.decompress.ia64 is not set
# CONFIG_XZ.decompress.arm is not set
# CONFIG_XZ.decompress.armthUMB is not set
# CONFIG_XZ.decompress.sparc is not set
CONFIG_XZ.decompress.bcj=y
# CONFIG_XZ.decompress.test is not set
CONFIG_DECOMPRESS_GZIP=y
CONFIG_DECOMPRESS_BZIP2=y
CONFIG_DECOMPRESS_LZMA=y
CONFIG_DECOMPRESS_XZ=y
CONFIG_DECOMPRESS_LZO=y
CONFIG_DECOMPRESS_LZ4=y
CONFIG_DECOMPRESS_ZSTD=y
CONFIG_GENERIC_ALLOCATOR=y
CONFIG_XARRAY_MULTI=y
CONFIG_ASSOCIATIVE_ARRAY=y
CONFIG_HAS_IOMEM=y
CONFIG_HAS_IOPORT_MAP=y
CONFIG_HAS_DMA=y
CONFIG_DMA_OPS=y
CONFIG_NEED_SG_DMA_LENGTH=y
CONFIG_NEED_DMA_MAP_STATE=y
CONFIG_ARCH_DMA_ADDR_T_64BIT=y
CONFIG_SWIOTLB=y
CONFIG_DMA_CMA=y

# Default contiguous memory area size:
# CONFIG_CMA_SIZE_MBYTES=0
CONFIG_CMA_SIZE_SEL_MBYTES=y
# CONFIG_CMA_SIZE_SEL_PERCENTAGE is not set
# CONFIG_CMA_SIZE_SEL_MIN is not set
# CONFIG_CMA_SIZE_SEL_MAX is not set
CONFIG_CMA_ALIGNMENT=8
# CONFIG_DMA_API_DEBUG is not set
CONFIG_SGL_ALLOC=y
CONFIG_IOMMU_HELPER=y
CONFIG_CPU_RMAP=y
CONFIG_DQL=y
CONFIG_GLOB=y
# CONFIG_GLOB_SELFTEST is not set
CONFIG_NLATTR=y
CONFIG_CLZ_TAB=y
CONFIG_IRQ_POLL=y
CONFIG_MPILIB=y
CONFIG_OID_REGISTRY=y
CONFIG_UCS2_STRING=y
CONFIG_HAVE_GENERIC_VDSO=y
CONFIG GENERIC GETTIMEOFDAY=y
CONFIG GENERIC VDSO_TIME_NS=y
CONFIG FONT SUPPORT=y
CONFIGFonts=y
# CONFIG_FONT_8x8 is not set
CONFIG_FONT_8x16=y
# CONFIG_FONT_6x11 is not set
# CONFIG_FONT_7x14 is not set
# CONFIG_FONT_PEARL_8x8 is not set
# CONFIG_FONT_ACORN_8x8 is not set
CONFIG_FONT_MINI_4x6=y
# CONFIG_FONT_6x10 is not set
# CONFIG_FONT_10x18 is not set
# CONFIG_FONT_SUN8x16 is not set
# CONFIG_FONT_SUN12x22 is not set
# CONFIG_FONT_TER16x32 is not set
CONFIG_ARCH_HAS_PMEM_API=y
CONFIG_ARCH_HAS_UACCESS_FLUSHCACHE=y
CONFIG_ARCH_HAS_UACCESS_MCSAFE=y
CONFIG_ARCH_STACKWALK=y
CONFIG_SBITMAP=y
# CONFIG_STRING_SELFTEST is not set
# end of Library routines
# Kernel hacking
#

# printk and dmesg options
#
CONFIG_PRINTK_TIME=y
# CONFIG_PRINTK_CALLER is not set
CONFIG_CONSOLE_LOGLEVEL_DEFAULT=7
CONFIG_CONSOLE_LOGLEVEL_QUIET=4
CONFIG_MESSAGE_LOGLEVEL_DEFAULT=4
# CONFIG_BOOT_PRINTK_DELAY is not set
# CONFIG_DYNAMIC_DEBUG is not set
# CONFIG_DYNAMIC_DEBUG_CORE is not set
CONFIG_SYMBOLIC_ERRNAME=y
CONFIG_DEBUG_BUGVERBOSE=y
# end of printk and dmesg options

#
# Compile-time checks and compiler options
#
CONFIG_DEBUG_INFO=y
# CONFIG_DEBUG_INFO_REDUCED is not set
# CONFIG_DEBUG_INFO_COMPRESSED is not set
# CONFIG_DEBUG_INFO_SPLIT is not set
# CONFIG_DEBUG_INFO_DWARF4 is not set
CONFIG_DEBUG_INFO_BTF=y
# CONFIG_GDB_SCRIPTS is not set
CONFIG_ENABLE_MUST_CHECK=y
CONFIG_FRAME_WARN=2048
# CONFIG_STRIP_ASM_SYMS is not set
# CONFIG_READABLE_ASM is not set
# CONFIG_HEADERS_INSTALL is not set
# CONFIG_DEBUG_SECTION_MISMATCH is not set
CONFIG_SECTION_MISMATCH_WARN_ONLY=y
# CONFIG_DEBUG_FORCE_FUNCTION_ALIGN_32B is not set
CONFIG_STACK_VALIDATION=y
# CONFIG_DEBUG_FORCE_WEAK_PER_CPU is not set
# end of Compile-time checks and compiler options

#
# Generic Kernel Debugging Instruments
#
CONFIG_MAGIC_SYSRQ=y
CONFIG_MAGIC_SYSRQ_DEFAULT_ENABLE=0x1
CONFIG_MAGIC_SYSRQ_SERIAL=y
CONFIG_MAGIC_SYSRQ_SERIAL_SEQUENCE=""
CONFIG_DEBUG_FS=y
CONFIG_DEBUG_FS_ALLOW_ALL=y
# CONFIG_DEBUG_FS_DISALLOW_MOUNT is not set
# CONFIG_DEBUG_FS_ALLOW_NONE is not set
CONFIG_HAVE_ARCH_KGDB=y
# CONFIG_KGDB is not set
CONFIG_ARCH_HAS_UBSAN_SANITIZE_ALL=y
# CONFIG_UBSAN is not set
# end of Generic Kernel Debugging Instruments

CONFIG_DEBUG_KERNEL=y
CONFIG_DEBUG_MISC=y

# Memory Debugging
#
# CONFIG_PAGE_EXTENSION is not set
# CONFIG_DEBUG_PAGEALLOC is not set
# CONFIG_PAGE_OWNER is not set
# CONFIG_PAGE_POISONING is not set
# CONFIG_DEBUG_PAGE_REF is not set
# CONFIG_DEBUG_RODATA_TEST is not set
CONFIG_ARCH_HAS_DEBUG_WX=y
# CONFIG_DEBUG_WX is not set
CONFIG_GENERIC_PTDUMP=y
# CONFIG_PTDUMP_DEBUGFS is not set
# CONFIG_DEBUG_OBJECTS is not set
# CONFIG_SLUB_DEBUG_ON is not set
# CONFIG_SLUB_STATS is not set
CONFIG_HAVE_DEBUG_KMEMLEAK=y
# CONFIG_DEBUG_KMEMLEAK is not set
# CONFIG_DEBUG_STACK_USAGE is not set
CONFIG_SCHED_STACK_END_CHECK=y
CONFIG_ARCH_HAS_DEBUG_VM_PGTABLE=y
# CONFIG_DEBUG_VM is not set
# CONFIG_DEBUG_VM_PGTABLE is not set
CONFIG_ARCH_HAS_DEBUG_VIRTUAL=y
# CONFIG_DEBUG_VIRTUAL is not set
CONFIG_DEBUG_MEMORY_INIT=y
# CONFIG_DEBUG_PER_CPU_MAPS is not set
CONFIG_HAVE_ARCH_KASAN=y
CONFIG_HAVE_ARCH_KASAN_VMALLOC=y
CONFIG_CC_HAS_KASAN_GENERIC=y
# end of Memory Debugging

# CONFIG_DEBUG_SHIRQ is not set
# Debug Oops, Lockups and Hangs

CONFIG_PANIC_ON_OOPS=y
CONFIG_PANIC_ON_OOPS_VALUE=1
CONFIG_PANIC_TIMEOUT=0
CONFIG_LOCKUP_DETECTOR=y
CONFIG_SOFTLOCKUP_DETECTOR=y
# CONFIG_BOOTPARAM_SOFTLOCKUP_PANIC is not set
CONFIG_BOOTPARAM_SOFTLOCKUP_PANIC_VALUE=0
CONFIG_HARDLOCKUP_DETECTOR_PERF=y
CONFIG_HARDLOCKUP_CHECK_TIMESTAMP=y
CONFIG_HARDLOCKUP_DETECTOR=y
CONFIG_BOOTPARAM_HARDLOCKUP_PANIC=y
CONFIG_BOOTPARAM_HARDLOCKUP_PANIC_VALUE=1
CONFIG_DETECT_HUNG_TASK=y
CONFIG_DEFAULT_HUNG_TASK_TIMEOUT=120
# CONFIG_BOOTPARAM_HUNG_TASK_PANIC is not set
CONFIG_BOOTPARAM_HUNG_TASK_PANIC_VALUE=0
# CONFIG_WQ_WATCHDOG is not set
# CONFIG_TEST_LOCKUP is not set
# end of Debug Oops, Lockups and Hangs

# Scheduler Debugging

CONFIG_SCHED_DEBUG=y
CONFIG_SCHED_INFO=y
CONFIG_SCHEDSTATS=y
# end of Scheduler Debugging

# CONFIG_DEBUG_TIMEKEEPING is not set
CONFIG_DEBUG_PREEMPT=y

# Lock Debugging (spinlocks, mutexes, etc...)

CONFIG_LOCK_DEBUGGING_SUPPORT=y
CONFIG_PROVE_LOCKING=y
# CONFIG_PROVE_RAW_LOCK_NESTING is not set
# CONFIG_LOCK_STAT is not set
CONFIG_DEBUG_RT_MUTEXES=y
CONFIG_DEBUG_SPINLOCK=y
CONFIG_DEBUG_MUTEXES=y
CONFIG_DEBUG_RWSEMS=y
CONFIG_DEBUG_LOCK_ALLOC=y
CONFIG_LOCKDEP=y
# CONFIG_DEBUG_LOCKDEP is not set
CONFIG_DEBUG_ATOMIC_SLEEP=y
# CONFIG_DEBUG_LOCKING_API_SELFTESTS is not set
# CONFIG_LOCK_TORTURE_TEST is not set
# CONFIG_WW_MUTEX_SELFTEST is not set
# end of Lock Debugging (spinlocks, mutexes, etc...)

CONFIG_TRACE_IRQFLAGS=y
CONFIG_TRACE_IRQFLAGS_NMI=y
CONFIG_STACKTRACE=y
# CONFIG_WARN_ALL_UNSEEDED_RANDOM is not set
# CONFIG_DEBUG_KOBJECT is not set

#
# Debug kernel data structures
#
# CONFIG_DEBUG_LIST is not set
# CONFIG_DEBUG_PLIST is not set
# CONFIG_DEBUG_SG is not set
# CONFIG_DEBUG_NOTIFIERS is not set
# CONFIG_BUG_ON_DATA_CORRUPTION is not set
# end of Debug kernel data structures

CONFIG_DEBUG_CREDENTIALS=y

#
# RCU Debugging
#
CONFIG_PROVE_RCU=y
# CONFIG_RCU_PERF_TEST is not set
# CONFIG_RCU_TORTURE_TEST is not set
# CONFIG_RCU_REF_SCALE_TEST is not set
CONFIG_RCU_CPUSTALL_TIMEOUT=60
# CONFIG_RCU_TRACE is not set
# CONFIG_RCU_EQS_DEBUG is not set
# end of RCU Debugging

# CONFIG_DEBUG_WQ_FORCE_RR_CPU is not set
# CONFIG_DEBUG_BLOCK_EXT_DEVT is not set
# CONFIG_CPU_HOTPLUG_STATE_CONTROL is not set
# CONFIG_LATENCYTOP is not set
CONFIG_USER_STACKTRACE_SUPPORT=y
CONFIG_NOP_TRACER=y
CONFIG_HAVE_FUNCTION_TRACER=y
CONFIG_HAVE_FUNCTION_GRAPH_TRACER=y
CONFIG_HAVE_DYNAMIC_FTRACE=y
CONFIG_HAVE_DYNAMIC_FTRACE_WITH_REGS=y
CONFIG_HAVE_DYNAMIC_FTRACE_WITH_DIRECT_CALLS=y
CONFIG_HAVE_FTRACE_MCOUNT_RECORD=y
CONFIG_HAVE_SYSCALL_TRACEPOINTS=y
CONFIG_HAVE_FENTRY=y
CONFIG_HAVE_C_RECORD_MCOUNT=y
CONFIG_TRACE_CLOCK=y
CONFIG_RING_BUFFER=y
CONFIG_EVENT_TRACING=y
CONFIG_CONTEXT_SWITCH_TRACER=y
CONFIG_PREEMPTIRQ_TRACEPOINTS=y
CONFIG_TRACING=y
CONFIG_GENERIC_TRACER=y
CONFIG_TRACING_SUPPORT=y
CONFIG_FTRACE=y
CONFIG_BOOTTIME_TRACING=y
CONFIG_FUNCTION_TRACER=y
CONFIG_FUNCTION_GRAPH_TRACER=y
CONFIG_DYNAMIC_FTRACE=y
CONFIG_DYNAMIC_FTRACE_WITH_REGS=y
CONFIG_DYNAMIC_FTRACE_WITH_DIRECT_CALLS=y
# CONFIG_FUNCTION_PROFILER is not set
# CONFIG_STACK_TRACER is not set
# CONFIG_IRQSOFF_TRACER is not set
# CONFIG_PREEMPT_TRACER is not set
# CONFIG_SCHED_TRACER is not set
# CONFIG_HWLAT_TRACER is not set
# CONFIG_MMIOTRACE is not set
CONFIG_FTRACE_SYSCALLS=y
# CONFIG_TRACER_SNAPSHOT is not set
# CONFIG_PROFILE_ANNOTATED_BRANCHES is not set
# CONFIG_PROFILE_ALL_BRANCHES is not set
CONFIG_BLK_DEV_IO_TRACE=y
CONFIG_KPROBE_EVENTS=y
# CONFIG_KPROBE_EVENTS_ON_NOTRACE is not set
CONFIG_UPROBE_EVENTS=y
CONFIG_BPF_EVENTS=y
CONFIG_DYNAMIC_EVENTS=y
CONFIG_PROBE_EVENTS=y
CONFIG_BPF_KPROBE_OVERRIDE=y
CONFIG_FTRACE_MCOUNT_RECORD=y
# CONFIG_SYNTH_EVENTS is not set
# CONFIG_HIST_TRIGGERS is not set
# CONFIG_TRACE_EVENT_INJECT is not set
# CONFIG_TRACEPOINT_BENCHMARK is not set
# CONFIG_RING_BUFFER_BENCHMARK is not set
# CONFIG_TRACE_EVAL_MAP_FILE is not set
# CONFIG_FTRACE_STARTUP_TEST is not set
# CONFIG_RING_BUFFER_STARTUP_TEST is not set
# CONFIG_PREEMPTIRQ_DELAY_TEST is not set
# CONFIG_KPROBE_EVENT_GEN_TEST is not set
# CONFIG_PROVIDE_OHCI1394_DMA_INIT is not set
# CONFIG_SAMPLES is not set
CONFIG_HAVE_ARCH_KCSAN=y
CONFIG_ARCH_HAS_DEVMEM_IS_ALLOWED=y
# CONFIG STRICT DEVMEM is not set

#
# x86 Debugging
#
CONFIG_TRACE_IRQFLAGS_SUPPORT=y
CONFIG_TRACE_IRQFLAGS_NMI_SUPPORT=y
CONFIG_X86_VERBOSE_BOOTUP=y
CONFIG_EARLY_PRINTK=y
# CONFIG_EARLY_PRINTK DBGP is not set
# CONFIG_EARLY_PRINTK_USB XDBC is not set
# CONFIG EFI PGT_DUMP is not set
# CONFIG_DEBUG_TLBFLUSH is not set
# CONFIG IOMMU_DEBUG is not set
CONFIG_HAVE_MMIOTRACE_SUPPORT=y
# CONFIG_X86_DECODER_SELFTEST is not set
CONFIG_IO_DELAY_0X80=y
# CONFIG_IO_DELAY_0XED is not set
# CONFIG_IO_DELAY_UDELAY is not set
# CONFIG_IO_DELAY_NONE is not set
# CONFIG_DEBUG_BOOT_PARAMS is not set
# CONFIG_CPA_DEBUG is not set
# CONFIG_DEBUG_ENTRY is not set
# CONFIG_DEBUG_NMI_SELFTEST is not set
CONFIG_X86_DEBUG_FPU=y
# CONFIG_PUNIT_ATOM_DEBUG is not set
CONFIG_UNWINDER_ORC=y
# CONFIG_UNWINDER_FRAME_POINTER is not set
# CONFIG_UNWINDER_GUESS is not set
# end of x86 Debugging

#
# Kernel Testing and Coverage
#
# CONFIG KUNIT is not set
# CONFIG NOTIFIER_ERROR_INJECTION is not set
CONFIG_FUNCTION_ERROR_INJECTION=y
CONFIG_FAULT_InJECTION=y
# CONFIG FAILSLAB is not set
# CONFIG FAIL PAGE ALLOC is not set
# CONFIG FAIL MAKE REQUEST is not set
# CONFIG FAIL IO TIMEOUT is not set
# CONFIG_FAIL_FUTEX is not set
CONFIG_FAULT_INJECTION_DEBUG_FS=y
CONFIG_FAIL_FUNCTION=y
CONFIG_ARCH_HAS_KCOV=y
CONFIG_CC_HAS_SANCOV_TRACE_PC=y
# CONFIG_KCOV is not set
# CONFIG_RUNTIME_TESTING_MENU is not set
# CONFIG_MEMTEST is not set
# end of Kernel Testing and Coverage
# end of Kernel hacking
INDEXhttps://libbpf-vmtst.s3-us-west-1.amazonaws.com/x86_64/INDEX
libbpf-vmtst-rootfs-2020.09.27.tar.zsthttps://libbpf-vmtst.s3-us-west-1.amazonaws.com/x86_64/libbpf-vmtst-rootfs-2020.09.27.tar.zst
vmlinux-4.9.0.zsthttps://libbpf-vmtst.s3-us-west-1.amazonaws.com/x86_64/vmlinux-4.9.0.zst
vmlinux-5.5.0-rc6.zsthttps://libbpf-vmtst.s3-us-west-1.amazonaws.com/x86_64/vmlinux-5.5.0-rc6.zst
vmlinux-5.5.0.zsthttps://libbpf-vmtst.s3-us-west-1.amazonaws.com/x86_64/vmlinux-5.5.0.zst
vmlinux-5.5.0-rc6https://libbpf-vmtst.s3-us-west-1.amazonaws.com/x86_64/vmlinux-5.5.0-rc6
vmlinux-5.5.0https://libbpf-vmtst.s3-us-west-1.amazonaws.com/x86_64/vmlinux-5.5.0
vmlinux-4.9.0https://libbpf-vmtst.s3-us-west-1.amazonaws.com/x86_64/vmlinux-4.9.0
This is a mirror of [bpf-next Linux source
tree](https://kernel.googlesource.com/pub/scm/linux/kernel/git/bpf/bpf-next)'s
`tools/lib/bpf` directory plus its supporting header files.

All the gory details of syncing can be found in `scripts/sync-kernel.sh` script.

Some header files in this repo (`include/linux/*.h`) are reduced versions of
their counterpart files at[bpf-next](https://git.kernel.org/pub/scm/linux/kernel/git/bpf/bpf-next.git)'s
`tools/include/linux/*.h` to make compilation successful.

**BPF questions**

All general BPF questions, including kernel functionality, libbpf APIs and
their application, should be sent to bpf@vger.kernel.org mailing list. You can
subscribe to it [here](http://vger.kernel.org/vger-lists.html#bpf) and search
its archive [here](https://lore.kernel.org/bpf/). Please search the archive
before asking new questions. It very well might be that this was already
addressed or answered before.

bpf@vger.kernel.org is monitored by many more people and they will happily try
to help you with whatever issue you have. This repository's PRs and issues
should be opened only for dealing with issues pertaining to specific way this
libbpf mirror repo is set up and organized.

**Build**

libelf is an internal dependency of libbpf and thus it is required to link against and must be installed on the system for applications to work. pkg-config is used by default to find libelf, and the program called can be overridden with `PKG_CONFIG`.

If using `pkg-config` at build time is not desired, it can be disabled by setting `NO_PKG_CONFIG=1` when calling make.

To build both static libbpf.a and shared libbpf.so:
```bash
$ cd src
$ make
```

To build only static libbpf.a library in directory build/ and install them together with libbpf headers in a staging directory root/:
```bash
$ cd src
$ mkdir build root
$ mkdir build
$ BUILD_STATIC_ONLY=y OBJDIR=build DESTDIR=root make install
```

To build both static libbpf.a and shared libbpf.so against a custom libelf dependency installed in /build/root/ and install them together with libbpf headers in a build directory /build/root/:
```bash
$ cd src
$ PKG_CONFIG_PATH=/build/root/lib64/pkgconfig DESTDIR=/build/root make install
```

Distributions
=============

Distributions packaging libbpf from this mirror:
- [Fedora](https://src.fedoraproject.org/rpms/libbpf)
- [Gentoo](https://packages.gentoo.org/packages/dev-libs/libbpf)
- [Debian](https://packages.debian.org/sid/libbpf-dev)
- [Arch](https://www.archlinux.org/packages/exTRA/x86_64/libbpf/)
- [Ubuntu](https://packages.ubuntu.com/source/groovy/libbpf)

Benefits of packaging from the mirror over packaging from kernel sources:
- Consistent versioning across distributions.
- No ties to any specific kernel, transparent handling of older kernels. Libbpf is designed to be kernel-agnostic and work across multitude of kernel versions. It has built-in mechanisms to gracefully handle older kernels, that are missing some of the features, by working around or gracefully degrading functionality. Thus libbpf is not tied to a specific kernel version and can/should be packaged and versioned independently.

- Continuous integration testing via [TravisCI](https://travis-ci.org/libbpf/libbpf).
- Static code analysis via [LGTM](https://lgtm.com/projects/g/libbpf/libbpf) and [Coverity](https://scan.coverity.com/projects/libbpf).

Package dependencies of libbpf, package names may vary across distros:

- zlib
- libelf

BPF CO-RE (Compile Once Run Everywhere)

Libbpf supports building BPF CO-RE-enabled applications, which, in contrast to [BCC](https://github.com/iovisor/bcc/), do not require Clang/LLVM runtime being deployed to target servers and doesn’t rely on kernel-devel headers being available.

It does rely on kernel to be built with [BTF type information](https://www.kernel.org/doc/html/latest/bpf/btf.html), though. Some major Linux distributions come with kernel BTF already built in:

- Fedora 31+
- RHEL 8.2+
- OpenSUSE Tumbleweed (in the next release, as of 2020-06-04)
- Arch Linux (from kernel 5.7.1.arch1-1)
- Ubuntu 20.10

If your kernel doesn't come with BTF built-in, you'll need to build custom kernel. You'll need:

- `pahole` 1.16+ tool (part of `dwarves` package), which performs DWARF to BTF conversion;
- kernel built with `CONFIG_DEBUG_INFO_BTF=y` option;
- you can check if your kernel has BTF built-in by looking for `~/sys/kernel/btf/vmlinux` file:

```shell
$ ls -la /sys/kernel/btf/vmlinux
-r--r--r--. 1 root root 3541561 Jun  2 18:16 /sys/kernel/btf/vmlinux
```

To develop and build BPF programs, you'll need Clang/LLVM 10+. The following distributions have Clang/LLVM 10+ packaged by default:

- Fedora 32+
Open Source Used In Crosswork Platform Infrastructure cw-infra-opensource-4.3.0  8543

- Ubuntu 20.04+
- Arch Linux
- Ubuntu 20.10 (LLVM 11)

Otherwise, please make sure to update it on your system.

The following resources are useful to understand what BPF CO-RE is and how to use it:
- [BPF Portability and CO-RE](https://facebookmicrosites.github.io/bpf/blog/2020/02/19/bpf-portability-and-core.html)
- [HOWTO: BCC to libbpf conversion](https://facebookmicrosites.github.io/bpf/blog/2020/02/20/bcc-to-libbpf-howto-guide.html)
- [libbpf-tools in BCC repo](https://github.com/iovisor/bcc/tree/master/libbpf-tools)

contain lots of real-world tools converted from BCC to BPF CO-RE. Consider converting some more to both contribute to the BPF community and gain some more experience with it.

License
=======

This work is dual-licensed under BSD 2-clause license and GNU LGPL v2.1 license. You can choose between one of them if you use this work.

`SPDX-License-Identifier: BSD-2-Clause OR LGPL-2.1`

# vi: set ts=2 sw=2:

extraction:

cpp:
    prepare:
        packages:
            - libelf-dev
            - pkg-config
    after_prepare:
        # As the buildsystem detection by LGTM is performed _only_ during the
        # 'configure' phase, we need to trick LGTM we use a supported build
        # system (configure, meson, cmake, etc.). This way LGTM correctly detects
        # that our sources are in the src/ subfolder.
        - touch src/configure
        - chmod +x src/configure

# TEMPORARY
LIBBPFF_0.0.1 {
    global:
        bpf_btf_get_fd_by_id;
        bpf_create_map;
        bpf_create_map_in_map;
        bpf_create_map_in_map_node;
        bpf_create_map_name;
        bpf_create_map_node;
        bpf_create_map_xattr;
bpf_load_btf;
bpf_load_program;
bpf_load_program_xattr;
bpf_map__btf_key_type_id;
bpf_map__btf_value_type_id;
bpf_map__def;
bpf_map__fd;
bpf_map_is_offload_neutral;
bpf_map__name;
bpf_map__next;
bpf_map__pin;
bpf_map__prev;
bpf_map__priv;
bpf_map__reuse_fd;
bpf_map__set_ifindex;
bpf_map__set_inner_map_fd;
bpf_map__set_priv;
bpf_map__unpin;
bpf_map_delete_elem;
bpf_map__get_fd_by_id;
bpf_map__get_next_id;
bpf_map__get_next_key;
bpf_map__lookup_and_delete_elem;
bpf_map__lookup_elem;
bpf_map__update_elem;
bpf_obj_get;
bpf_obj__get_info_by_fd;
bpf_obj__pin;
bpf_obj__btf_fd;
bpf_obj__close;
bpf_obj__find_map_by_name;
bpf_obj__find_map_by_offset;
bpf_obj__find_program_by_title;
bpf_obj__kversion;
bpf_obj__load;
bpf_obj__name;
bpf_obj__next;
bpf_obj__open;
bpf_obj__open_buffer;
bpf_obj__open_xattr;
bpf_obj__pin;
bpf_obj__pin_maps;
bpf_obj__pin_programs;
bpf_obj__priv;
bpf_obj__set_priv;
bpf_obj__unload;
bpf_obj__unpin_maps;
bpf_obj__unpin_programs;
bpf_perf_event_read_simple;
bpf_prog_attach;
bpf_prog_detach;
bpf_prog_detach2;
bpf_prog_get_fd_by_id;
bpf_prog_get_next_id;
bpf_prog_load;
bpf_prog_load_xattr;
bpf_prog_query;
bpf_prog_test_run;
bpf_prog_test_run_xattr;
bpf_program__fd;
bpf_program__is_kprobe;
bpf_program__is_perf_event;
bpf_program__is_raw_tracepoint;
bpf_program__is_sched_act;
bpf_program__is_sched_cls;
bpf_program__is_socket_filter;
bpf_program__is_tracepoint;
bpf_program__is_xdp;
bpf_program__load;
bpf_program__next;
bpf_program__nth_fd;
bpf_program__pin;
bpf_program__pin_instance;
bpf_program__prev;
bpf_program__priv;
bpf_program__set_expected_attach_type;
bpf_program__set_ifindex;
bpf_program__set_kprobe;
bpf_program__set_perf_event;
bpf_program__set_prep;
bpf_program__set_priv;
bpf_program__set_raw_tracepoint;
bpf_program__set_sched_act;
bpf_program__set_sched_cls;
bpf_program__set_socket_filter;
bpf_program__set_tracepoint;
bpf_program__set_type;
bpf_program__set_xdp;
bpf_program__title;
bpf_program__unload;
bpf_program__unpin;
bpf_program__unpin_instance;
bpf_prog_linfo__free;
bpf_prog_linfo__new;
bpf_prog_linfo__lfind_addr_func;
bpf_prog_linfo__lfind;
bpf_raw_tracepoint_open;
bpf_set_link_xdp_fd;
bpf_task_fd_query;
bpf_verify_program;
btf__fd;
btf__find_by_name;
btf__free;
btf__get_from_id;
btf__name_by_offset;
btf__new;
btf__resolve_size;
btf__resolve_type;
btf__type_by_id;
libbpf_attach_type_by_name;
libbpf_get_error;
libbpf_prog_type_by_name;
libbpf_set_print;
libbpf_strerror;
local:
*;
};

LIBBPF_0.0.2 {
   global:
bpf_probe_helper;
bpf_probe_map_type;
bpf_probe_prog_type;
bpf_map__resize;
bpf_map_lookup_elem_flags;
bpf_object__btf;
bpf_object__find_map_fd_by_name;
bpf_get_link_xdp_id;
btf__dedup;
btf__get_map_kv_tids;
btf__get_nr_types;
btf__get_raw_data;
btf__load;
btf__ext__free;
btf__ext__func_info_rec_size;
btf__ext__get_raw_data;
btf__ext__line_info_rec_size;
btf__ext__new;
btf__ext__reloc_func_info;
btf__ext__reloc_line_info;
xsk_umem__create;
xsk_socket__create;
xsk_umem__delete;
xsk_socket__delete;
xsk_umem__fd;
xsk_socket__fd;
bpf_program__get_prog_info_linear;
bpf_program__bpil_addr_to_offs;
bpf_program__bpil_offs_to_addr;
} LIBBPF_0.0.1;

LIBBPF_0.0.3 {
global:
bpf_map__is_internal;
bpf_map_freeze;
btf__finalize_data;
} LIBBPF_0.0.2;

LIBBPF_0.0.4 {
global:
bpf_link__destroy;
bpf_object__load_xattr;
bpf_program__attach_kprobe;
bpf_program__attach_perf_event;
bpf_program__attach_raw_tracepoint;
bpf_program__attach_tracepoint;
bpf_program__attach_uprobe;
btf_dump__dump_type;
btf_dump__free;
btf_dump__new;
btf__parse_elf;
libbpf_num_possible_cpus;
perf_buffer__free;
perf_buffer__new;
perf_buffer__new_raw;
perf_buffer__poll;
xsk_umem__create;
} LIBBPF_0.0.3;

LIBBPF_0.0.5 {
global:
bpf_btf_get_next_id;
} LIBBPF_0.0.4;

LIBBPF_0.0.6 {
global:
bpf_get_link_xdp_info;
bpf_map__get_pin_path;
bpf_map__is_pinned;
bpf_map__set_pin_path;
bpf_object__open_file;
bpf_object__open_mem;
bpf_program__attach_trace;
bpf_program__get_expected_attach_type;
bpf_program__get_type;
bpf_program__is_tracing;
bpf_program__set_tracing;
bpf_program__size;
btf__find_by_name_kind;
libbpf_find_vmlinux_btf_id;
} LIBBPFL.0.0.5;

LIBBPFL.0.0.7 {
global:
btf_dump__emit_type_decl;
bpf_link__disconnect;
bpf_map__attach_struct_ops;
bpf_map_delete_batch;
bpf_map_lookup_and_delete_batch;
bpf_map_lookup_batch;
bpf_map_update_batch;
bpf_object__find_program_by_name;
bpf_object__attach_skeleton;
bpf_object__destroy_skeleton;
bpf_object__detach_skeleton;
bpf_object__load_skeleton;
bpf_object__open_skeleton;
bpf_probe_large_insn_limit;
bpf_prog_attach_xattr;
bpf_program__attach;
bpf_program__name;
bpf_program__is_extension;
bpf_program__is_struct_ops;
bpf_program__set_extension;
bpf_program__set_struct_ops;
btf__align_of;
libbpf_find_kernel_btf;
} LIBBPFL.0.0.6;

LIBBPFL.0.0.8 {
global:
bpf_link__fd;
bpf_link__open;
bpf_link__pin;
bpf_link__pin_path;
bpf_link__unpin;
bpf_link__update_program;
bpf_link_create;
bpf_link_update;
bpf_map__set_initial_value;
bpf_program__attach_cgroup;
bpf_program__attach_lsm;
bpf_program__is_lsm;
bpf_program__set_attach_target;
bpf_program__set_lsm;
bpf_set_link_xdp_fd_opts;
} LIBBPF_0.0.7;

LIBBPF_0.0.9 {
    global:
bpf_enable_stats;
bpf_iter_create;
bpf_link_get_fd_by_id;
bpf_link_get_next_id;
bpf_program__attach_iter;
bpf_program__attach_netns;
perf_buffer__consume;
ring_buffer__add;
ring_buffer__consume;
ring_buffer__free;
ring_buffer__new;
ring_buffer__poll;
} LIBBPF_0.0.8;

LIBBPF_0.1.0 {
    global:
bpf_link__detach;
bpf_link_detach;
bpf_map__ifindex;
bpf_map__key_size;
bpf_map__map_flags;
bpf_map__max_entries;
bpf_map__numa_node;
bpf_map__set_key_size;
bpf_map__set_map_flags;
bpf_map__set_max_entries;
bpf_map__set_numa_node;
bpf_map__set_type;
bpf_map__set_value_size;
bpf_map__type;
bpf_map__value_size;
bpf_program__attach_xdp;
bpf_program__autoload;
bpf_program__is_sk_lookup;
bpf_program__set_autoload;
bpf_program__set_sk_lookup;
btf__parse;
btf__parse_raw;
btf__pointer_size;
btf__set_fd;
btf__set_pointer_size;
} LIBBPF_0.0.9;

LIBBPF_0.2.0 {
  global:
bpf_prog_bind_map;
bpf_prog_test_run_opts;
bpf_program__attach_freplace;
bpf_program__section_name;
btf__add_array;
btf__add_const;
btf__add_enum;
btf__add_enum_value;
btf__add_datasec;
btf__add_datasec_var_info;
btf__add_field;
btf__add_func;
btf__add_func_param;
btf__add_func_proto;
btf__add_fwd;
btf__add_int;
btf__add_ptr;
btf__add_restrict;
btf__add_str;
btf__add_struct;
btf__add_typedef;
btf__add_union;
btf__add_var;
btf__add_volatile;
btf__endianness;
btf__find_str;
btf__new_empty;
btf__setendianness;
btf__str_by_offset;
perf_buffer__buffer_cnt;
perf_buffer__buffer_fd;
perf_buffer__epoll_fd;
perf_buffer__consume_buffer;
xsk_socket__create_shared;
} LIBBPF_0.1.0;
Format: http://dep.debian.net/deps/dep5
Upstream-Name: calico
Source: http://github.com/projectcalico/felix

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prefix=@PREFIX@
libdir=@LIBDIR@
includedir=${prefix}/include

Name: libbpf
Description: BPF library
Version: @VERSION@
Libs: -L${libdir} -lbpf
Requires.private: libelf zlib
Cflags: -I${includedir}

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The sample BIRD configuration in this directory is distributed under
GPLv3. See the file COPYING-v3 for details.
sudo: required
language: bash
dist: bionic
services:
  - docker

env:
  global:
  - PROJECT_NAME="libbpf"
  - AUTHOR_EMAIL="$\(git log -1 --pretty="\"%ae\"\)"
- REPO_ROOT="STRAVIS_BUILD_DIR"
- CI_ROOT="$REPO_ROOT/travis-ci"
- VMTEST_ROOT="$CI_ROOT/vmtest"

addons:
  apt:
    packages:
      - qemu-kvm
      - zstd
      - binutils-dev
      - elfutils
      - libcap-dev
      - libelf-dev
      - libdw-dev

stages:
  # Run Coverity periodically instead of for each PR for following reasons:
  # 1) Coverity jobs are heavily rate-limited
  # 2) Due to security restrictions of encrypted environment variables
  # in Travis CI, pull requests made from forks can't access encrypted
  # env variables, making Coverity unusable
  # See: https://docs.travis-ci.com/user/pull-requests/#pull-requests-and-security-restrictions
  - name: Coverity
    if: type = cron

jobs:
  include:
    - stage: Builds & Tests
      name: Kernel LATEST + selftests
      language: bash
      env: KERNEL=LATEST
      script: $CI_ROOT/vmtest/run_vmtest.sh || travis_terminate 1

    - name: Kernel 4.9.0 + selftests
      language: bash
      env: KERNEL=4.9.0
      script: $CI_ROOT/vmtest/run_vmtest.sh || travis_terminate 1

    - name: Kernel 5.5.0 + selftests
      language: bash
      env: KERNEL=5.5.0
      script: $CI_ROOT/vmtest/run_vmtest.sh || travis_terminate 1

    - name: Debian Build
      language: bash
      install: $CI_ROOT/managers/debian.sh SETUP
      script: $CI_ROOT/managers/debian.sh RUN || travis_terminate 1
      after_script: $CI_ROOT/managers/debian.sh CLEANUP
- name: Debian Build (ASan+UBSan)
  language: bash
  install: $CI_ROOT/managers/debian.sh SETUP
  script: $CI_ROOT/managers/debian.sh RUN_ASAN || travis_terminate 1
  after_script: $CI_ROOT/managers/debian.sh CLEANUP

- name: Debian Build (clang)
  language: bash
  install: $CI_ROOT/managers/debian.sh SETUP
  script: $CI_ROOT/managers/debian.sh RUN_CLANG || travis_terminate 1
  after_script: $CI_ROOT/managers/debian.sh CLEANUP

- name: Debian Build (clang ASan+UBSan)
  language: bash
  install: $CI_ROOT/managers/debian.sh SETUP
  script: $CI_ROOT/managers/debian.sh RUN_CLANG_ASAN || travis_terminate 1
  after_script: $CI_ROOT/managers/debian.sh CLEANUP

- name: Debian Build (gcc-8)
  language: bash
  install: $CI_ROOT/managers/debian.sh SETUP
  script: $CI_ROOT/managers/debian.sh RUN_GCC8 || travis_terminate 1
  after_script: $CI_ROOT/managers/debian.sh CLEANUP

- name: Debian Build (gcc-8 ASan+UBSan)
  language: bash
  install: $CI_ROOT/managers/debian.sh SETUP
  script: $CI_ROOT/managers/debian.sh RUN_GCC8_ASAN || travis_terminate 1
  after_script: $CI_ROOT/managers/debian.sh CLEANUP

- name: Ubuntu Bionic Build
  language: bash
  script: sudo $CI_ROOT/managers/ubuntu.sh || travis_terminate 1

- name: Ubuntu Bionic Build (arm)
  arch: arm64
  language: bash
  script: sudo $CI_ROOT/managers/ubuntu.sh || travis_terminate 1

- name: Ubuntu Bionic Build (s390x)
  arch: s390x
  language: bash
  script: sudo $CI_ROOT/managers/ubuntu.sh || travis_terminate 1

- name: Ubuntu Bionic Build (ppc64le)
  arch: ppc64le
  language: bash
script: sudo $CI_ROOT/managers/ubuntu.sh || travis_terminate 1

- stage: Coverity
  language: bash
  env:
    # Coverity configuration
    # COVERITY_SCAN_TOKEN=xxx
    # Encrypted using `travis encrypt --repo libbpf/libbpf COVERITY_SCAN_TOKEN=xxx`
  - secure:
      "I9OsMRhb82lUivDp+i+w/jEQFOJgBDAqYqf1ollqCMtQQhocxMc9bwIAgfPhdXi2hohV7sRrVMZstahY67FA
      vJLGxNopii4APDIaAlFexG00yDxMhaTMx5xDIIMwIlm2FOP/9gB9BQsd6M7CmoQZgXYwB1v7xd1ooxoQrh2rO
      K1YrR7UQu3+c3zPTjDIFYZzR3bFttMqZ9/c4Uv08Ry5IFXr3hCshmdHA1TtttUr5rl5lZcmVclch7Jy6zCbcOu/2
      lGv0B/7rWXrF8M7T09jPtFOhJ1Dc2zhw2n4j9YT3a8OhtnM61L.A6ask632mwCOxspFLTun7AzuR1Cb5mdPH
      sxhnxCHeXXARa2mJjem0QG1hwxwJE8sbRDqojxxCvweY1EN40ofwMDSnj/qNt95Xlcrk0tibqGFx0gVNWvAd
      dmZwx+N4mwGPMTAN0AEOfjgl1+ZdB89m+L/CbEgE1fc8QxUxJhc5P0h6yR0z9qYOp0nXibHsiaCBrvt/7L
      qFRQfheifzrWVz4mdQlCkS9geOQ9oKicPevKO1L0u3c7U7p7jOpMs++cdh3XokJtUeYEr1NijMHT9+CTAhh
      O5RToWXIZRon719z3fwoUBNDREATwVFM1VxqSO/pbYgaKminigYbf785S89YYA65E5UvaKRHM6KHKMD
      szs="
      - COVERITY_SCAN_PROJECT_NAME="libbpf"
      - COVERITY_SCAN_NOTIFICATION_EMAIL="${AUTHOR_EMAIL}"
      - COVERITY_SCAN_BRANCH_PATTERN="STRAVIS_BRANCH"
    # Note: `make -C src/` as a BUILD_COMMAND will not work here
    - COVERITY_SCAN_BUILD_COMMAND_PREPEND="cd src/"
    - COVERITY_SCAN_BUILD_COMMAND="make"
  install:
    - sudo echo 'deb-src http://archive.ubuntu.com/ubuntu/ bionic main restricted universe multiverse'

>>/etc/apt/sources.list
    - sudo apt-get update
    - sudo apt-get -y build-dep libelf-dev
    - sudo apt-get install -y libelf-dev pkg-config
  script:
    - scripts/coverity.sh || travis_terminate 1
  allow_failures:
    - env: KERNEL=x.x.x
      c66dca98a24cb5f3493dd08d40bcfa94a220fa92
      LGPL-2.1 OR BSD-2-Clause

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1.440 ncurses 6.1-7.20180224.el8

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1.441 tzdata 2021a 1.el8

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1.451 grpc-go 1.23.1

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1.458 xz 5.2.4 3.el8
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If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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```
Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.
```

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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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1.464 govalidator 0.0.0-20190424111038-f61b66f89f4a

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1.465 go-oidc 2.1.0

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1.475 clockwork 0.1.0

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Clockwork - a scheduler process to replace cron
===============================================

Cron is non-ideal for running scheduled application tasks, especially in an app deployed to multiple machines. [More details.](http://adam.heroku.com/past/2010/4/13/rethinking_cron/)

Clockwork is a lightweight, long-running Ruby process which sits alongside your web processes (Mongrel/Thin) and your worker processes (DJ/Resque/Minion/Stalker) to schedule recurring work at particular times or dates. For example, refreshing feeds on an hourly basis, or send reminder emails on a nightly basis, or generating invoices once a month on the 1st.

Example
-------
Create schedule.rb:

```ruby
require 'clockwork'
include Clockwork

every('10s') { puts 'every 10 seconds' }
every('3m') { puts 'every 3 minutes' }
every('1h') { puts 'once an hour' }

every('1d', :at => '00:00') { puts 'every night at midnight' }
```

Run it with the clockwork binary:

```bash
$ clockwork schedule.rb
```

Or run directly with Ruby:

```bash
$ ruby -r schedule -e Clockwork.run
```

Use with queueing

------------

Clockwork only makes sense as a place to schedule work to be done, not to do the work. It avoids locking by running as a single process, but this makes it impossible to parallelize. For doing the work, you should be using a job queueing system, such as

- [Delayed Job](http://www.therailsway.com/2009/7/22/do-it-later-with-delayed-job),
- [Beanstalk/Stalker](http://adam.heroku.com/past/2010/4/24/beanstalk_a_simple_and_fast_queueing_backend/),
- [RabbitMQ/Minion](http://adamblog.heroku.com/past/2009/9/28/background_jobs_with_rabbitmq_and_minion/), or
- [Resque](http://github.com/blog/542-introducing-resque). This design allows a simple scheduler process with no locks, but also offers near infinite horizontal scalability.

For example, if you're using Beanstalk/Staker:

```ruby
require 'clockwork'
include Clockwork

require 'stalker'
include Stalker

every('1h') { enqueue('feeds.refresh') }
every('1d', :at => '01:30') { enqueue('reminders.send') }
```

Using a queueing system which doesn't require that your full application be loaded is preferable, because the scheduler process can keep a tiny memory.
footprint. If you're using DJ or Resque, however, you can go ahead and load your full application environment. For example, with DJ/Rails:

```ruby
require 'config/boot'
require 'config/environment'

require 'clockwork'
include Clockwork

every('1h') { Feed.send_later(:refresh) }
every('1d', :at => '01:30') { Reminder.send_later(:send_reminders) }
```

In production
-------------

Only one scheduler process should ever be running across your whole application deployment. For example, if your app is running on three VPS machines (two app servers and one database), your app machines might have the following process topography:

* Machine 1: 3 web (thin start), 3 workers (rake jobs:work), 1 scheduler (clockwork schedule.rb)
* Machine 2: 3 web (thin start), 3 workers (rake jobs:work)

You should use Monit, God, Upstart, or Inittab to keep your scheduler process running the same way you keep your web and workers running.

Meta
----

Created by Adam Wiggins

Inspired by [rufus-scheduler](http://rufus.rubyforge.org/rufus-scheduler/) and [http://github.com/bvandenbos/resque-scheduler](resque-scheduler)

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http://github.com/adamwiggins/clockwork

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1.477 mux 1.8.0

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package cloud

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "testing"
    "testing"
)

var sentinels = []string{
    "Copyright",
    "Google",
    "Licensed under the Apache License, Version 2.0 (the "License")",
}

func TestLicense(t *testing.T) {
    t.Parallel()
    skip := map[string]bool{
        "bigtable/cmd/cbt/cbt.doc.go": true,
    }
}
// BSD license, which is compatible, is embedded in the file.
"cmd/go-cloud-debug-agent/internal/debug/elf/elf.go": true,

"third_party pkgsite/print_type.go": true,
"third_party pkgsite/synopsis.go": true,
}
err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
if err != nil {
return err
}

if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
return nil
}
if strings.HasSuffix(path, ".pb.go") {
// .pb.go files are generated from the proto files.
// .proto files must have license headers.
return nil
}
if skip[path] {
return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
return nil
}

src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels {
if !bytes.Contains(src, []byte(sentinel)) {
  t.Errorf("%v: license header not present. want %q", path, sentinel)
  return nil
}
}

return nil
})
if err != nil {
  t.Fatal(err)
}

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1.479 systemd 241-7~deb10u3

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1.483 libseccomp 2.3.3-4

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1.484 selinux 2.6-3+b3

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Version 3, 29 June 2007

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    // Code generated by protoc-gen-go_gapic. DO NOT EDIT.

    package compute_test

    import {
        "context"
    }

    compute "cloud.google.com/go/compute/apiv1"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequest.
    }
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
    // TODO: Use resp.
_ = resp

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "net/http"
    "net/url"
    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport "google.golang.org/api/transport/http"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
    "google.golang.org/grpc"
    "google.golang.org/grpc/metadata"
    "google.golang.org/protobuf/encoding/protojson"
)

var newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
  Close() error
  setGoogleClientInfo(...string)
  Connection() *grpc.ClientConn
  Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
  TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
      (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
// The LicenseCodes API.
type LicenseCodesClient struct {
  // The internal transport-dependent client.
  internalClient internalLicenseCodesClient
  // The call options for this service.
  CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
  return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the 'x-goog-api-client' header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
  c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
  return c.internalClient.Connection()
}
// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...
gax.CallOption) (*computepb.LicenseCode, error) {
  return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...
gax.CallOption) (*computepb.TestPermissionsResponse, error) {
  return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licenseCodesRESTClient struct {
  // The http endpoint to connect to.
  endpoint string

  // The http client.
  httpClient *http.Client

  // The x-goog-* metadata to be sent with each request.
  xGoogMetadata metadata.MD
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
// // The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
  clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
  httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
  if err != nil {
    return nil, err
  }

c := &licenseCodesRESTClient{
  endpoint:   endpoint,
  httpClient: httpClient,
}
c.setGoogleClientInfo()

  return &LicenseCodesClient{internalClient: c, CallOptions: &LicenseCodesCallOptions{[]}}, nil
}
func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
  return []option.ClientOption{
    internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
    internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
    internaloption.WithDefaultAudience("https://compute.googleapis.com"),
    internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
  kv := append([]string{"gl-go", versionGo()}, keyval...)
  kv = append(kv, "gapic", gax.Version, "rest", "UNKNOWN")
  c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
  // Replace httpClient with nil to force cleanup.
  c.httpClient = nil
  return nil
}

// Connection returns a connection to the API service.
// Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
  return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption) (*computepb.LicenseCode, error) {
  baseUrl, _ := url.Parse(c.endpoint)
  // Build HTTP headers from client and context metadata.
  headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
  unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
  resp := &computepb.LicenseCode{
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {

if err != nil {
    return err
}
httpReq = httpReqWithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
deref httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil,
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil

 TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{
  e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if err != nil {
          return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers
        httpRsp, err := c.httpClient.Do(httpReq)
        if err != nil {
          return err
        }
        defer httpRsp.Body.Close()
        if err = googleapi.CheckResponse(httpRsp); err != nil {
          return err
        }
        buf, err := ioutil.ReadAll(httpRsp.Body)
        if err != nil {
          return err
        }
        if err := unm.Unmarshal(buf, resp); err != nil {
          return maybeUnknownEnum(err)
        }
        return nil
    }, opts...)}
if e != nil {
  return nil, e
}
return resp, nil

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"
    "compute")

const compute "cloud.google.com/go/compute/apiv1"
"google.golang.org/api/iterator"
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"

func ExampleNewLicensesRESTClient() {}
if err != nil {
    // TODO: Handle error.
}
def c.Close()

// TODO: Use client.
_ = c

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.DeleteLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
    }
    op, err := c.Delete(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

c := &compute.LicensesClient{}
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
def c.Close()

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
}
// TODO: Use resp.
_ = resp

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp

func ExampleLicensesClient_Insert() {
    ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.InsertLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
}
op, err := c.Insert(ctx, req)
if err != nil {
    // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}

func ExampleLicensesClient_List() {

}
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.ListLicensesRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
    resp, err := it.Next()
    if err == iterator.Done {
        break
    }
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.SetIamPolicyLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
}
resp, err := c.SetIamPolicy(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}

defer c.Close()

req := &computepb.TestIamPermissionsLicenseRequest{
    // TODO: Fill request struct fields.
    // See
    // https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_=resp

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package compute

import (
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "math"
    "net/http"
    "net/url"

gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/iterator"
    "google.golang.org/api/option"
var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
    Delete    []gax.CallOption
    Get       []gax.CallOption
    GetIamPolicy []gax.CallOption
    Insert    []gax.CallOption
    List      []gax.CallOption
    SetIamPolicy []gax.CallOption
    TestIamPermissions []gax.CallOption
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
    (*computepb.TestPermissionsResponse, error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient
}
// The call options for this service.
CallOptions *LicensesCallOptions

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the 'x-goog-api-client' header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
// Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.

```go
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.

```go
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}
```

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```go
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...
gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}
```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.

```go
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest,
 opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}
```

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.

type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
}

// NewLicensesRESTClient creates a new licenses rest client.
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (* LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }
    c := &licensesRESTClient{
        endpoint:   endpoint,
        httpClient: httpClient,
    }
    c.setGoogleClientInfo()
    o := []option.ClientOption{
        option.WithHTTPClient(httpClient),
        option.WithEndpoint(endpoint),
    }
    opC, err := NewGlobalOperationsRESTClient(ctx, o...)
    if err != nil {
        return nil, err
    }
    c.operationClient = opC

    return &LicensesClient{internalClient: c, CallOptions: &LicensesCallOptions{}}, nil
}

func defaultLicensesRESTClientOptions() [] option.ClientOption {
    return [] option.ClientOption {
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/")
    }
}

// setGoogleClientInfo sets the name and version of the application in
// the 'x-goog-api-client' header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
// Replace httpClient with nil to force cleanup.
c.httpClient = nil
if err := c.operationClient.Close(); err != nil {
    return err
}
return nil
}

// Connection returns a connection to the API service.
// Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    baseUrl, _ := url.Parse(c.endpoint)
    params := url.Values{
        "requestId": fmt.Sprintf("%v", req.GetRequestId()),
    }
    baseUrl.RawQuery = params.Encode()
    // Build HTTP headers from client and context metadata.
    headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
    resp := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers
        httpRsp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpRsp.Body.Close()
        e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
            if err != nil {
                return err
            }
            httpReq = httpReq.WithContext(ctx)
            httpRsp, err := c.httpClient.Do(httpReq)
            if err != nil {
                return err
            }
            defer httpRsp.Body.Close()
            return e
        })
    })
    return &Operation{
        StatusDesc: fmt.Sprintf("Deleted %v for project %v", req.GetLicense(), req.GetProject()),
        OperationMetadata: map[string]string{
            "operationType": "DELETE",
            "requestId": fmt.Sprintf("%v", req.GetRequestId()),
        },
        ResourceName: baseUrl.String(),
    }, err
}
if err = googleapi.CheckResponse(httpRsp); err != nil {
return err
}
buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
return err
}
if err := unm.Unmarshal(buf, resp); err != nil {
return maybeUnknownEnum(err)
}
return nil
}, opts...)
if e != nil {
return nil, e
}
op := &Operation{
&globalOperationsHandle{
c:
c.operationClient,
proto: resp,
project: req.GetProject(),
},
}
return op, nil
}
// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
baseUrl, _ := url.Parse(c.endpoint)
// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.License{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers
httpRsp, err := c.httpClient.Do(httpReq)

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if err != nil {
    return err
}
def httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
baseUrl, _ := url.Parse(c.endpoint)
req.GetResource())

params := url.Values{
if req != nil && req.OptionsRequestedPolicyVersion != nil {
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if err != nil {

return err
}
httpReq = httpReqWithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}
return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...
gax.CallOption) (*Operation, error) {
m := protojson.MarshalOptions{AllowPartial: true}
body := req.GetLicenseResource()
jsonReq, err := m.Marshal(body)
if err != nil {
    return nil, err
}

baseURL, _ := url.Parse(c.endpoint)
baseURL.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())
params := url.Values{
    if req != nil && req.RequestId != nil {

---
params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if err != nil {
    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
deferr httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil,
}, opts...)
// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by the third-party partners who are creating
Cloud Marketplace images.

func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts...
gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{
        req = proto.Clone(req).(*computepb.ListLicensesRequest)
        unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
        it.InternalFetch = func(pageSize int, pageToken string) ([][]*computepb.License, string, error) {
            resp := &computepb.LicensesListResponse{
                if pageToken != "" {
                    req.PageToken = proto.String(pageToken)
                }
                if pageSize > math.MaxInt32 {
                    req.MaxResults = proto.Uint32(math.MaxInt32)
                } else if pageSize != 0 {
                    req.MaxResults = proto.Uint32(uint32(pageSize))
                }
                baseUrl, _ := url.Parse(c.endpoint)

                params := url.Values{
                    if req != nil & & req.Filter != nil {
                    }
                    if req != nil & & req.MaxResults != nil {
                        params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
                    }
                    if req != nil & & req.OrderBy != nil {
                        params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
                    }
                    if req != nil & & req.PageToken != nil {
                    }
                    if req != nil & & req.ReturnPartialSuccess != nil {
                    }
                }
                baseUrl.RawQuery = params.Encode()

                // Build HTTP headers from client and context metadata.
                headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
                e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {

return op, nil
}
if err != nil {
    return err
}
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
deferr httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, ",", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken, nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {

m := protojson.MarshalOptions{AllowPartial: true}
body := req.GetGlobalSetPolicyRequestResource()
jsonReq, err := m.Marshal(body)
if err != nil {
    return nil, err
}

baseUrl, _ := url.Parse(c.endpoint)

headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers
        httpRsp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpRsp.Body.Close()
        if err = googleapi.CheckResponse(httpRsp); err != nil {
            return err
        }
        buf, err := ioutil.ReadAll(httpRsp.Body)
        if err != nil {
            return err
        }
        if err := unm.Unmarshal(buf, resp); err != nil {
            return maybeUnknownEnum(err)
        }
        return nil
    })

    return resp, nil
}
// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
 * computepb.TestIamPermissionsLicenseRequest, opts ... gax.CallOption) (* computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
 req.GetResource())

    // Build HTTP headers from client and context metadata.
    headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := & computepb.TestPermissionsResponse { }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers
        httpRsp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpRsp.Body.Close()
        if err = googleapi.CheckResponse(httpRsp); err != nil {
            return err
        }
        buf, err := ioutil.ReadAll(httpRsp.Body)
        if err != nil {
            return err
        }
        return nil
    })
if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
    items []*computepb.License
    pageInfo *iterator.PageInfo
    nextFunc func() error

    // Response is the raw response for the current page.
    // It must be cast to the RPC response type.
    // Calling Next() or InternalFetch() updates this value.
    Response interface{}

    // InternalFetch is for use by the Google Cloud Libraries only.
    // It is not part of the stable interface of this package.
    //
    // InternalFetch returns results from a single call to the underlying RPC.
    // The number of results is no greater than pageSize.
    // If there are no more results, nextPageToken is empty and err is nil.
    InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
    return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
    var item *computepb.License
    if err := it.nextFunc(); err != nil {
        return item, err
    }
    item = it.items[0]
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Version 2.0, January 2004
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1.491 gogoprotobuf 1.2.1

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1.498 pcre 10.32 2.el8

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1.509 yaml 1.2.0
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    Found in path(s):
    * /opt/cola/permits/1212207596_1633726302.78/0/helidon-config-yaml-1-2-0-sources-1-jar/io/helidon/config/yaml/package-info.java
    * /opt/cola/permits/1212207596_1633726302.78/0/helidon-config-yaml-1-2-0-sources-1-jar/io/helidon/config/yaml/YamlConfigParserBuilder.java
    * /opt/cola/permits/1212207596_1633726302.78/0/helidon-config-yaml-1-2-0-sources-1-jar/io/helidon/config/yaml/internal/package-info.java
    * /opt/cola/permits/1212207596_1633726302.78/0/helidon-config-yaml-1-2-0-sources-1-jar/io/helidon/config/yaml/internal/YamlFileTypeDetector.java

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Found in path(s):
* /opt/cola/permits/1212207596_1633726302.78/0/helidon-config-yaml-1-2-0-sources-1-
jar/io/helidon/config/yaml/internal/YamlConfigParser.java
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#

io.helidon.config.yaml.internal.YamlConfigParser

Found in path(s):
* /opt/cola/permits/1212207596_1633726302.78/0/helidon-config-yaml-1-2-0-sources-1-jar/META-
INF/services/io.helidon.config.spi.ConfigParser
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Found in path(s):
* /opt/cola/permits/1212207596_1633726302.78/0/helidon-config-yaml-1-2-0-sources-1-jar/META-INF/maven/io.helidon.config/helidon-config-yaml/pom.xml
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#

io.helidon.config.yaml.internal.YamlFileTypeDetector

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1.510 grpc-go 1.23.0

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1.511 hostname 3.21

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1.512 pcre 8.39-3

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-----------------------------

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import (  
    "bytes"  
    "context"  
    "fmt"  
    "io/ioutil"  
    "net/http"  
    "net/url"
)

gax "github.com/googleapis/gax-go/v2"  
"google.golang.org/api/option"  
"google.golang.org/api/option/internaloption"  
httptransport "google.golang.org/api/transport/http"  
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"  
"google.golang.org/grpc"  
"google.golang.org/grpc/metadata"  
"google.golang.org/protobuf/encoding/protojson"
)

var newLicensesClientHook clientHook

LicensesCallOptions contains the retry settings for each method of LicensesClient.

type LicensesCallOptions struct {  
    Delete []gax.CallOption  
    Get []gax.CallOption  
    GetIamPolicy []gax.CallOption  
    Insert []gax.CallOption  
    List []gax.CallOption  
    SetIamPolicy []gax.CallOption  
    TestIamPermissions []gax.CallOption
}

internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.

type internalLicensesClient interface {  
    Close() error  
    setGoogleClientInfo(...string)  
    Connection() *grpc.ClientConn  
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*computepb.Operation, error)  
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)  
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)  
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*computepb.Operation, error)  
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) (*computepb.LicensesListResponse, ...gax.CallOption) (*computepb.License, error)  
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsRequest, ...gax.CallOption) (*computepb.TestIamPermissionsResponse, ...gax.CallOption)
error)
SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
//
// The Licenses API.
type LicensesClient struct {
// The internal transport-dependent client.
internalClient internalLicensesClient

// The call options for this service.
CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*computepb.Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*computepb.Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) (*computepb.LicensesListResponse, error) {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestIamPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
  // The http endpoint to connect to.
  endpoint string

  // The http client.
  httpClient *http.Client

  // The x-goog-* metadata to be sent with each request.
  xGoogMetadata metadata.MD
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
  clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
  httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
  if err != nil {
    return nil, err
  }

  c := &licensesRESTClient{
    endpoint:   endpoint,
    httpClient: httpClient,
  }
  c.setGoogleClientInfo()

  return &LicensesClient{internalClient: c, CallOptions: &LicensesCallOptions{}, nil}
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
  return []option.ClientOption{
    internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
    internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
    internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
    internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
  kv := append([]string{"gl-go", versionGo()}, keyval...)
  kv = append(kv, "gapic", gax.Version, "rest", "UNKNOWN")
  c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}
// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
c.httpClient = nil
    return nil
}

// Connection returns a connection to the API service.
// Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...
gax.CallOption) (*computepb.Operation, error) {
    baseUrl, _ := url.Parse(c.endpoint)
    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }
    baseUrl.RawQuery = params.Encode()

    if err != nil {
        return nil, err
    }
    httpReq = httpReqWithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()

    if httpRsp.StatusCode != http.StatusOK {
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
  baseUrl, _ := url.Parse(c.endpoint)

  if err != nil {
    return nil, err
  }
  httpReq = httpReqWithContext(ctx)
  for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
  }
  httpReq.Header["Content-Type"] = []string{"application/json"}

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
    return nil, err
  }
  defer httpRsp.Body.Close()

  if httpRsp.StatusCode != http.StatusOK {
    return nil, fmt.Errorf(httpRsp.Status)
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
    return nil, err
  }

  unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
  rsp := &computepb.Operation{}

  return rsp, unm.Unmarshal(buf, rsp)
}
rsp := &computepb.License{

return rsp, unm.Unmarshal(buf, rsp)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images. func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
baseUrl, _ := url.Parse(c.endpoint)

params := url.Values{
if req != nil && req.OptionsRequestedPolicyVersion != nil {
}
baseUrl.RawQuery = params.Encode()

if err != nil {
    return nil, err
}
httpReq = httpReqWithContext(ctx)
// Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
deferr httpRsp.Body.Close()

if httpRsp.StatusCode != http.StatusOK {
    return nil, fmt.Errorf(httpRsp.Status)
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Policy{

---

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func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...
gax.CallOption) (*computepb.Operation, error) {
  m := protojson.MarshalOptions{AllowPartial: true}
  body := req.GetLicenseResource()
  jsonReq, err := m.Marshal(body)
  if err != nil {
    return nil, err
  }

  baseUrl, _ := url.Parse(c.endpoint)

  params := url.Values{
    "project": req.GetProject()}
  if req != nil && req.RequestId != nil {
    params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
  }

  baseUrl.RawQuery = params.Encode()

  if err != nil {
    return nil, err
  }

  httpReq = httpReqWithContext(ctx)
  // Set the headers
  for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
  }
  httpReq.Header["Content-Type"] = []string{"application/json"}

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
    return nil, err
  }

  defer httpRsp.Body.Close()

  if httpRsp.StatusCode != http.StatusOK {
    return nil, fmt.Errorf(httpRsp.Status)
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
    return nil, err
  }

  return rsp, unm.Unmarshal(buf, rsp)
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) (*computepb.LicensesListResponse, error) {
    baseUrl, _ := url.Parse(c.endpoint)

    params := url.Values{}
    if req != nil && req.Filter != nil {
    }
    if req != nil && req.MaxResults != nil {
        params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
    }
    if req != nil && req.OrderBy != nil {
        params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
    }
    if req != nil && req.PageToken != nil {
    }
    if req != nil && req.ReturnPartialSuccess != nil {
    }

    baseUrl.RawQuery = params.Encode()

    if err != nil {
        return nil, err
    }
    httpReq = httpReq.WithContext(ctx)

    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}
httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
defer httpRsp.Body.Close()

if httpRsp.StatusCode != http.StatusOK {
    return nil, fmt.Errorf(httpRsp.Status)
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.LicensesListResponse{}

return rsp, unm.Unmarshal(buf, rsp)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    baseUrl, _ := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    httpReq = httpReqWithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}
httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
defer httpRsp.Body.Close()

if httpRsp.StatusCode != http.StatusOK {
    return nil, fmt.Errorf(httpRsp.Status)
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Policy{
}

return rsp, unm.Unmarshal(buf, rsp)

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    baseUrl, _ := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    httpReq = httpReqWithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}
httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
defer httpRsp.Body.Close()

if httpRsp.StatusCode != http.StatusOK {
    return nil, fmt.Errorf(httpRsp.Status)
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.TestPermissionsResponse{}
return rsp, unm.Unmarshal(buf, rsp)

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"
    compute "cloud.google.com/go/compute/apiv1"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
def c.Close()

// TODO: Use client.
_ = c

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
def c.Close()

    req := &computepb.DeleteLicenseRequest{
        // TODO: Fill request struct fields.
    }
    resp, err := c.Delete(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
def c.Close()

    req := &computepb.GetLicenseRequest{
        // TODO: Fill request struct fields.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
    // TODO: Fill request struct fields.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp

func ExampleLicensesClient_Insert() {
    ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.InsertLicenseRequest{
    // TODO: Fill request struct fields.
}
resp, err := c.Insert(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp

func ExampleLicensesClient_List() {
    ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.ListLicensesRequest{
    // TODO: Fill request struct fields.
}
resp, err := c.List(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "net/http"
    "net/url"

    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport "google.golang.org/api/transport/http"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
    "google.golang.org/grpc"
    "google.golang.org/grpc/metadata"
    "google.golang.org/protobuf/encoding/protojson"
)

var newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get []gax.CallOption
    TestIamPermissions []gax.CallOption
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API. Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
// The LicenseCodes API.
type LicenseCodesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseCodesClient

    // The call options for this service.
    CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when the client is no longer required.
func (c *LicenseCodesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in the `x-goog-api-client` header passed on each request. Intended for use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service. Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption) (*computepb.LicenseCode, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.

licenseCodesRESTClient struct {
    endpoint string
    httpClient *http.Client

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
}

// NewLicenseCodesRESTClient creates a new license codes rest client.

func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
    clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }
    c := &licenseCodesRESTClient{
        endpoint: endpoint,
        httpClient: httpClient,
    }
    c.setGoogleClientInfo()

    return &LicenseCodesClient{internalClient: c, CallOptions: &LicenseCodesCallOptions{}}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption { return []option.ClientOption{
    internaloption.WithDefaultEndpoint("https://compute.googleapis.com/"),
    internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com/"),
    internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
    internaloption.WithDefaultScopes(DefaultAuthScopes()...),
}}

// setGoogleClientInfo sets the name and version of the application in
func (c *LicenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)  
    kv = append(kv, "gapi", versionClient, "gax", gax.Version, "rest", "UNKNOWN")  
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

// Connection returns a connection to the API service.
// Deprecated.
func (c *LicenseCodesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *LicenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...
gax.CallOption) (*computepb.LicenseCode, error) {
    baseUrl, _ := url.Parse(c.endpoint)  
    if err != nil {
        return nil, err
    }
    httpReq = httpReq.WithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()
if httpRsp.StatusCode != http.StatusOK {
    return nil, fmt.Errorf(httpRsp.Status)
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.LicenseCode{}
return rsp, unm.Unmarshal(buf, rsp)

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution: This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    return nil, err
}

baseUrl, _ := url.Parse(c.endpoint)
baseUrl.Path += fmt.Sprintf(`/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions`,
    req.GetProject(), req.GetResource())

if err != nil {
    return nil, err
}

httpReq = httpReqWithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header[`Content-Type`] = []string{`application/json`}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
deface httpRsp.Body.Close()
if httpRsp.StatusCode != http.StatusOK {
    return nil, fmt.Errorf(httpRsp.Status)
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &compute pb.TestPermissionsResponse{
}

return rsp, unm.Unmarshal(buf, rsp)

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package compute_test

import 
"context"

compute "cloud.google.com/go/compute/apiv1"
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"

func ExampleNewLicenseCodesRESTClient() {
  ctx := context.Background()
  c, err := compute.NewLicenseCodesRESTClient(ctx)
  if err != nil {
    // TODO: Handle error.
  }
  defer c.Close()

  // TODO: Use client.
  _ = c
}

func ExampleLicenseCodesClient_Get() {
  ctx := context.Background()
  c, err := compute.NewLicenseCodesRESTClient(ctx)
  if err != nil {
    // TODO: Handle error.
  }
  defer c.Close()

  req := &computepb.GetLicenseCodeRequest{
    // TODO: Fill request struct fields.
  }
  resp, err := c.Get(ctx, req)
  if err != nil {
    // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

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text-utils/hexdump.c
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The End

#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) { 
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;
my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}
done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = "
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /.*(\d{4,})/s
    or die "Year not found in README copyright message '$copyright_msg'";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987\b(\d{4,})\b/ 
    or die "Copyright statement not found in perl -v output '$output'";

    $year;
}
1.525 kingpin 2.2.6

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1.526 errwrap 1.0.0

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### 1.528 go-yaml 2.2.2

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1.546 pcre 8.39 12

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THE BASIC LIBRARY FUNCTIONS

-----------------------------

Written by: Philip Hazel
PCRE JUST-IN-TIME COMPILATION SUPPORT
-------------------------------------

Written by:       Zoltan Herczeg
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1.547 yaml 2.4.0

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1.548 cobra 0.0.5

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```cobra
DeluxePage

This is a continuation of the framework found in WebPages.cobra.

cobra -r=System.Web WebPages.cobra DeluxePage.cobra > deluxe.html

class DeluxePage
inherits Page

DeluxePage adds these capabilities:

* A more sophisticated page structure with header, left sidebar, right sidebar, content well and footer. This more closely reflects the structure of typical web pages. All parts are optional.

* Word-wrapped output with a left and right margin and indent/dedent capability.

```
var _writer as DeluxeWriter?

def indent
    _writer.indent

def indent(s as String)
    _writer.indent

defindent(s as String)
    _writer.dedent

defindent(s as String)
    _writer.dedent

def writeLineAndIndent(s as String)
    _writer.writeLine(s)
    _writer.indent

def dedentAndWriteLine(s as String)
    _writer.dedent
    _writer.writeLine(s)

def begin(name as String, tag as Object)
    _writer.writeLine('<!-- >> begin [name] -->')
    _writer.indent
    _writer.writeLine('[HtmlUtils.toHtml(tag)]\n')
    _writer.indent

def end(name as String, tag as Object)
    _didWrite = false
    if tag inherits String
if not tag.startsWith('<')
    .writeLine('<[/tag]>')
didWrite = true
if not didWrite
    .writeLine(HtmlUtils.toHtml(tag))
    .dedent
    .writeLine('<!-- << end [name] -->\n')

def writeHtml(tw as TextWriter)
    _writer = writer = DeluxeWriter(tw, _rightHtmlSourceMargin)
    try
        base.writeHtml(writer)  # TODO: axe writer local and use "_writer to !" when it's available
    finally
        _writer = nil

    var _wholePageTableTag = Tag('table', 'class=wholePage border=0 cellpadding=0 cellspacing=0')
    var _leftBarTdTag = Tag('td', 'class', 'leftBar', 'valign', 'top', 'width', 0)

    get numCols as int
    return 1 + if(.hasLeftBar,1,0) + if(.hasRightBar,1,0)

def writeBodyParts is override
    numCols = .numCols
    .indent
    .begin('whole page', _wholePageTableTag)
    if .hasPageHeader
        .writePageHeader
    .begin('page row', '<tr class=pageRow>')
    if .hasLeftBar
        .begin('left bar', _leftBarTdTag)
        .writeLine('<div class=leftBar>')
        .writeLeftBar
        .writeLine('</div>')
        .end('left bar', 'td')
    .begin('page content', '<td class=pageContent valign=top width=0> <div class=pageContent>')
    .writeContent
    .end('page content', '</div> </td>')
    if .hasRightBar
        .begin('right bar', '<td class=rightBar valign=top width=0>')
        .writeRightBar
        .end('right bar', 'td')
    if .hasPageFooter
        .begin('page footer', '<tr class=pageFooter>')
        .indent('<td class=pageFooter colSpan=[numCols]>\n')
        .writePageFooter
        .dedent('\n</td>\n')
        .end('page footer', 'tr')
        .end('page row', 'tr')
def writePageHeader
    .begin('page header', '<tr class=pageHeader>')</n    .indent('<td class=pageHeader colSpan=[.numCols]>\n')
    .innerWritePageHeader
    .dedent('\n</td>\n')
    .end('page header', 'tr')

def innerWritePageHeader
    .writeLine(.htTitle)

def writeLeftBar
    pass

def writeRightBar
    pass

def writePageFooter
    .writeLine('Copyright &copy; [DateTime.now.year]. All Rights Reserved.')

def writeContent is override
    .writeLine('Added unit testing as a language level feature. You can now write test sections for methods, properties and classes. Because these unit tests can be specified next to what they actually test, they are more likely to be kept')
up to date. Also, because they are a natural part of the source code, they benefit from development environment features such as syntax highlighting and autocompletion. Finally, more programmers may be encouraged to write unit tests when it is this easy.

class DeluxeWriter
inherits TextWriter

***

Provides:

* indented writing (useful for structured HTML pages)
* right margin (useful for yielding easy-to-read HTML)

Used internally by DeluxePage although you are free to use DeluxeWriter if you have a need for it.

***

test
iw = DeluxeWriter(StringWriter())
assert iw.toString==", iw.toString
nl = iw.newLine
tab = ’ ’
iw.writeLine('one')
assert iw.toString=='one', iw.toString
iw.indent
iw.writeLine('two')
assert iw.toString=='one[tab]two', iw.toString
iw.dedent
iw.writeLine('three')
assert iw.toString=='one[tab]two[tab]three', iw.toString

var _innerWriter as TextWriter
var _lastChar = " # use a string because _innerWriter.NewLine is a string
var _indentString = ' ' 
var _indentLevel = 0
var _totalIndentString = "
var _isWritingIndent = false
var _column = 1
var _rightMargin = 80

def init(tw as TextWriter)
    _innerWriter = tw

def init(tw as TextWriter, rightMargin as int)
    .init(tw)
    # TODO: require
    assert rightMargin>10
_rightMargin = rightMargin

def indent
    _indentLevel += 1
    _setTotalIndentString()

def dedent
    _indentLevel -= 1
    _setTotalIndentString()

pro indentString from var
    ==
    Returns the string used for one level of indentation.
    Default value is "\t".
    ==

    get newLine2 as String
    return \n' # because NewLine is "\n" but we don't require the \r

# *** Being a TextWriter ***

def write(value as char) is override
    if _isWritingIndent
        _innerWriter.write(value)
        _column += 1
        return
    if _lastChar==_innerWriter.newLine or _lastChar==newLine2
        _column = 1
        _isWritingIndent = true
        try
            .write(_totalIndentString)
            _column += _totalIndentString.length
        finally
            _isWritingIndent = false
            _innerWriter.write(value)
            _column += 1
            _lastChar = value.toString
    if _column>_rightMargin and _lastChar==''
        # TODO: need a better word wrapping algorithm that doesn't allow words to poke out of the right hand margin
        # but this is good enough for now
        .write(_innerWriter.newLine)

def write(value as String) is override
    if _isWritingIndent
        _innerWriter.write(value)
    else
        base.write(value)
get encoding as Encoding? is override
return _innerWriter.encoding

def toString as String is override
return _innerWriter.toString

# *** Private Util ***

def _setTotalIndentString is protected
sb = StringBuilder()
for i = 0 .. _indentLevel
  sb.append(_indentString)
_totalIndentString = sb.toString

#class Program
#
#def main is shared
#p = MyPage()
#p.writeHtml(Console.out)

Found in path(s):
* /opt/cola/permits/1275718997_1646325227.61/0/cobra-0-7-0-tar-gz/Cobra-0.7.0/Reusables/DeluxePage.cobra
No license file was found, but licenses were detected in source scan.

-------------------------------------------------------------------------------
The Cobra Programming Language
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-------------------------------------------------------------------------------

Version........ 0.7
Release Date... 2007-01-26
Platform....... .NET 2.0 / Mono 1.2.6
Status.......... beta
Home Page...... http://Cobra-Language.com/

The term "Cobra" is used herein to refer to "The Cobra Programming Language"

Cobra is a high-performance, rapid-development programming language.
It combines features from Python, C#, Objective-C, Eiffel and other languages
in order to boost developer productivity.

See also: http://Cobra-Language.com/docs/why/

Requirements
Microsoft .NET 2.0 - Cobra can be used with or without the SDK installed.
-or-
Novell Mono 1.2.6

.NET:   http://www.microsoft.com/downloads/
Mono:   http://www.mono-project.com/

Installation

You can put Cobra wherever you like in your file system, however, if you are on
a UNIX/POSIX-type system such as Linux, BSD or Mac, then you’ll probably want
to run the ‘install’ script. There is a comment block inside it with further
instructions.

Running Cobra

On Windows:

To run:
   > path\to\cobra MyProgram.cobra
The source code extension is not required:
   > path\to\cobra MyProgram
To run again:
   > MyProgram.exe
To just compile:
   > path\to\cobra -c MyProgram
If cobra is in your path:
   > cobra MyProgram
To learn about all the options:
   > cobra -help

On Unix-like systems:

To run:
   $ cobra MyProgram.cobra
The source code extension is not required:
   $ cobra MyProgram
To run again:
   > mono MyProgram.exe
To just compile:
   > cobra -c MyProgram
To learn about all the options:
> cobra -help

Learning

See http://Cobra-Language.com/docs/

Those docs are not currently included in this package, so you have to read them online.

And check out the HowTo and Samples subdirectories. You'll find these online, and also in this package.

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Note: The source code is not actually provided yet as it needs to be cleaned up for various reasons (including that some of it is written in an older style of Cobra). The source code will be provided in February 2008.

Found in path(s):
* /opt/cola/permits/1275718997_1646325227.61/0/cobra-0.7.0-tar-gz/Cobra-0.7.0/ReadMe.text
1.549 errors 0.9.1

1.549.1 Available under license:

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1.550 go-playground-validator 9.28.0

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1.551 go-uuid 1.1.1

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shawnps
theory
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1.552 go-systemd 0.0.0-20190321100706-95778dfbb74e

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1.554 purell 1.1.1

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1.556 google-cloud-go 0.38.0

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package compute_test

import (  
      "context"
)

compute "cloud.google.com/go/compute/apiv1"
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"

func ExampleNewLicenseCodesRESTClient() {  
  ctx := context.Background()  
  c, err := compute.NewLicenseCodesRESTClient(ctx)  
  if err != nil {  
    // TODO: Handle error.  
    }  
  defer c.Close()  

  // TODO: Use client.  
  _ = c  
}
func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

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package compute

import (
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "net/http"
    "net/url"

gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport "google.golang.org/api/transport/http"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
    "google.golang.org/grpc"
    "google.golang.org/grpc/metadata"
    "google.golang.org/protobuf/encoding/protojson"
)

var newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.

var _ LicenseCodesClient = (*internalLicenseCodesClient)(nil)

// SetGoogleClientInfo sets the user agent name and version for the client.

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.

// SetGoogleClientInfo sets the user agent name and version for the client.

// Close closes the connection to the server.

// Connection returns a connection to the server.

// GetLicenseCodes returns the LicenseCodes of the specified project.

// TestIamPermissions tests the IAM permissions of the user.

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.

// SetGoogleClientInfo sets the user agent name and version for the client.

// Close closes the connection to the server.

// Connection returns a connection to the server.

// GetLicenseCodes returns the LicenseCodes of the specified project.

// TestIamPermissions tests the IAM permissions of the user.

// NewLicenseCodesClient creates a new instance of LicenseCodesClient.

// NewOptions creates a new instance of LicenseCodesCallOptions.

// New sets the default options for all methods in LicenseCodesClient.

// New sets the default options for all methods in LicenseCodesClient.

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.

// The LicenseCodes API.
type LicenseCodesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseCodesClient

    // The call options for this service.
    CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the ‘x-goog-api-client’ header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption) (*computepb.LicenseCode, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption) (*computepb.TestIamPermissionsResponse, error) {
return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licenseCodesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
    clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }
    c := &licenseCodesRESTClient{
        endpoint: endpoint,
        httpClient: httpClient,
    }
    c.setGoogleClientInfo()

    return &LicenseCodesClient{internalClient: c, CallOptions: &LicenseCodesCallOptions{}}}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),
    }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {

kv := append([]string{"gl-go", versionGo()}, keyval...)  
kv = append(kv, "gapiic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")  
c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

// Connection returns a connection to the API service.
// // Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...
gax.CallOption) (*computepb.LicenseCode, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
req.GetLicenseCode())
    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",

    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    unmr := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.LicenseCode{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        return nil
    })
    if err != nil {
        return nil, err
    }
    return resp, err
}
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil, e
}

if e != nil {
    return nil, e
}

return resp, nil

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }

    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
        req.GetProject(), req.GetResource())

    httpReq.Header = headers
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }

    return nil, e
}

if e != nil {
    return nil, e
}

return resp, nil

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }

    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
        req.GetProject(), req.GetResource())
// Build HTTP headers from client and context metadata.

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    if err != nil {
        return err
    }
    httpReq = httpReqWithContext(ctx)
    httpReq.Header = headers

    httpResp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpResp.Body.Close()

    if err = googleapi.CheckResponse(httpResp); err != nil {
        return err
    }

    buf, err := ioutil.ReadAll(httpResp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil

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package compute_test

import (�
  "context"
  "compute "cloud.google.com/go/compute/apiv1"
  "google.golang.org/api/iterator"
  "compute pb google.golang.org/genproto/googleapis/cloud/compute/v1"
)
func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.DeleteLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
    }
    op, err := c.Delete(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
    }
resp, err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_get = resp
}

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
    }
    resp, err := c.GetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_Insert() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.InsertLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
    }
    op, err := c.Insert(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
// ExampleLicensesClient_List() 
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
  // TODO: Handle error.
}
def c.Close()

req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
  resp, err := it.Next()
  if err == iterator.Done {
    break
  }
  if err != nil {
    // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
}

// ExampleLicensesClient_SetIamPolicy() 
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
  // TODO: Handle error.
}
def c.Close()

req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
}
resp, err := c.SetIamPolicy(ctx, req)
if err != nil {
  // TODO: Handle error.
}
// TODO: Use resp.
_ = resp

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
        }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseRequest{
            // TODO: Fill request struct fields.
            // See
            https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
        }
    // TODO: Use resp.
    _ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute
import (  "bytes"  "context"  "fmt"  "io/ioutil"  "math"  "net/http"  "net/url"

gax "github.com/googleapis/gax-go/v2"  google.golang.org/api/googleapi  "google.golang.org/api/iterator"  google.golang.org/api/option  google.golang.org/api/option/internaloption"  httptransport "google.golang.org/api/transport/http"  computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"  google.golang.org/grpc  google.golang.org/grpc/metadata  "google.golang.org/protobuf/encoding/protojson"  google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
  Delete []gax.CallOption
  Get []gax.CallOption
  GetIamPolicy []gax.CallOption
  Insert []gax.CallOption
  List []gax.CallOption
  SetIamPolicy []gax.CallOption
  TestIamPermissions []gax.CallOption
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
  Close() error
  setGoogleClientInfo(...string)
  Connection() *grpc.ClientConn
  Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
  Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
  GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
  Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
  List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
  SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*Operation, error)
  TestIamPermissions(context.Context, *computepb.TestIamPermissionsRequest, ...gax.CallOption) (*Operation, error)
}

---

Open Source Used In Crosswork Platform Infrastructure cw-infra-opensource-4.3.0 9470
LicensesClient is a client for interacting with the Google Compute Engine API.
 Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.

// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

    // The call options for this service.
    CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.

```go
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}
```

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```go
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}
```

// Insert creates a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```go
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```go
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}
```

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```go
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}
```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```go
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}
```

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.

type licensesRESTClient struct {

```
// The http endpoint to connect to.
endpoint string

// The http client.
httpClient *http.Client

// operationClient is used to call the operation-specific management service.
operationClient *GlobalOperationsClient

// The x-goog-* metadata to be sent with each request.
xGoogMetadata metadata.MD

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

c := &licensesRESTClient{
    endpoint:   endpoint,
    httpClient: httpClient,
}
c.setGoogleClientInfo()

    o := []option.ClientOption{
        option.WithHTTPClient(httpClient),
        option.WithEndpoint(endpoint),
    }
    opC, err := NewGlobalOperationsRESTClient(ctx, o...)
    if err != nil {
        return nil, err
    }
c.operationClient = opC

    return &LicensesClient{internalClient: c, CallOptions: &LicensesCallOptions{}}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/")
    }
}
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...) 
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN") 
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...)) 
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    if err := c.operationClient.Close(); err != nil {
        return err
    }
    return nil
}

// Connection returns a connection to the API service.
// Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...
gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    if err != nil {
        return nil, err
    }
    baseUrl.RawQuery = params.Encode()
    // Build HTTP headers from client and context metadata.

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
    baseUrl.Path = settings.Path
  }
  if err != nil {
    return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers
  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
    return err
  }
  defer httpRsp.Body.Close()
  if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
  }
  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
    return err
  }
  if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
  }
  return nil
}, opts...)
if e != nil {
  return nil, e
}
op := &Operation{
  &globalOperationsHandle{
    c: c.operationClient,
    proto: resp,
    project: req.GetProject(),
  },
}
// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
    return nil, err
  }

  // Build HTTP headers from client and context metadata.
  headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
  unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
  e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
      baseUrl.Path = settings.Path
    }
    if err != nil {
      return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
      return err
    }
    defer httpRsp.Body.Close()
    if err = googleapi.CheckResponse(httpRsp); err != nil {
      return err
    }
    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
      return err
    }
    if err := unm.Unmarshal(buf, resp); err != nil {
      return maybeUnknownEnum(err)
    }
    return nil
  })
  return resp, nil
}
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    params := url.Values{
    }
    if req != nil & req.OptionsRequestedPolicyVersion != nil {
    }
    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Policy{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        httpRsp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        if e != nil {
            return nil, e
        }
        return resp, nil
    })

    // GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil,
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...
gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }
    baseUrl.RawQuery = params.Encode()
// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",
url.QueryEscape(req.GetProject())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers
        httpRsp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpRsp.Body.Close()
        if err = googleapi.CheckResponse(httpRsp); err != nil {
            return err
        }
        buf, err := ioutil.ReadAll(httpRsp.Body)
        if err != nil {
            return err
        }
        if err := unm.Unmarshal(buf, resp); err != nil {
            return maybeUnknownEnum(err)
        }
        return nil
    }, opts...)}
    e != nil {
        return nil, e
    }
    op := &Operation{
        &globalOperationsHandle{
            c: c.operationClient,
            proto: resp,
            project: req.GetProject(),
        }
    }

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.

func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...
gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{
        req = proto.Clone(req).(*computepb.ListLicensesRequest)
        unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
        it.InternalFetch = func(pageSize int, pageToken string) ([1]*computepb.License, string, error) {
            resp := &computepb.LicensesListResponse{
                if pageToken != "" {
                    req.PageToken = proto.String(pageToken)
                }
                if pageSize > math.MaxInt32 { req.MaxResults = proto.Uint32(math.MaxInt32) } else if pageSize != 0 { req.MaxResults = proto.Uint32(uint32(pageSize)) }
                baseUrl, err := url.Parse(c.endpoint)
                if err != nil {
                    return nil, "", err
                }

                params := url.Values{
                    if req != nil && req.Filter != nil {
                    }
                    if req != nil && req.MaxResults != nil {
                        params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
                    }
                    if req != nil && req.OrderBy != nil {
                        params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
                    }
                    if req != nil && req.PageToken != nil {
                    }
                    if req != nil && req.ReturnPartialSuccess != nil {
                    }
                }
                resp, _, err := c.httpClient.RoundTrip()
                if err != nil {
                    return nil, "", err
                }
                return resp, params.Encode(), err
            }
        }
    }
    return op, nil
}
baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
if err != nil {
return err
}
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
if err != nil {
return nil, "", err
}

it.items = append(it.items, items...)
return nextPageToken, nil

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
m := protojson.MarshalOptions{AllowPartial: true}
body := req.GetGlobalSetPolicyRequestResource()
jsonReq, err := m.Marshal(body)
if err != nil {
    return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    if err != nil {
        return err
    }
    httpReq = httpReqWithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {


// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unn := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()
    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }
    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }
    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }
    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
    items    []*computepb.License
    pageInfo *iterator.PageInfo
    nextFunc func() error

    // Response is the raw response for the current page.
}
// It must be cast to the RPC response type.
// Calling Next() or InternalFetch() updates this value.
Response interface{}

// InternalFetch is for use by the Google Cloud Libraries only.
// It is not part of the stable interface of this package.
//
// InternalFetch returns results from a single call to the underlying RPC.
// The number of results is no greater than pageSize.
// If there are no more results, nextPageToken is empty and err is nil.
InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
    return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
    var item *computepb.License
    if err := it.nextFunc(); err != nil {
        return item, err
    }
    item = it.items[0]
    it.items = it.items[1:]
    return item, nil
}

func (it *LicenseIterator) bufLen() int {
    return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
    b := it.items
    it.items = nil
    return b
}

---

1.557 kubernetes 1.18.12
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//
// For more information: http://goo.gl/8us55a#licenseObject
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  Name string `json:"name,omitempty"
  URL   string `json:"url,omitempty"
}
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*/

// Copyright 2017 VMware, Inc. All Rights Reserved.
package simulator

import (
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "serialuri:2",
                Value: "Remote virtual Serial Port Concentrator",
            },
        },
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "dvs",
                Value: "vSphere Distributed Switch",
            },
        },
    },
}

type LicenseManager struct {
    mo.LicenseManager
func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{
        Self: ref,
        Licenses: []types.LicenseManagerLicenseInfo{EvalLicense}
    }

    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }

    return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{
    }
    }

    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:    req.Labels,
    })

    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{
    }
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)
            return body
        }
    }
func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{
        for i := range m.Licenses {
            license := &m.Licenses[i]

            if req.LicenseKey != license.LicenseKey {
                continue
            }

            body.Res = new(types.UpdateLicenseLabelResponse)

            for j := range license.Labels {
                label := &license.Labels[j]

                if label.Key == req.LabelKey {
                    if req.LabelValue == "" {
                        license.Labels = append(license.Labels[:i], license.Labels[i+1:]...)
                    } else {
                        label.Value = req.LabelValue
                    }
                    return body
                }
            }

            license.Labels = append(license.Labels, types.KeyValue{
                Key:   req.LabelKey,
                Value: req.LabelValue,
            })

            return body
        }

        body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey")
        return body
    }
}

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        for i := range m.Licenses {
            license := &m.Licenses[i]

            if license == nil {
                continue
            }

            body.Res = new(types.QueryAssignedLicensesResponse)

            for j := range license.Labels {
                label := &license.Labels[j]

                if label.Key == req.LabelKey {
                    if req(LabelValue == "" {
                        license.Labels = append(license.Labels[:i], license.Labels[i+1:]...)
                    } else {
                        label.Value = req(LabelValue
                    }
                    return body
                }
            }

            license.Labels = append(license.Labels, types.KeyValue{
                Key:   req.LabelKey,
                Value: req.LabelValue,
            })

            return body
        }

        body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey")
        return body
    }
}
// EntityId can be a HostSystem or the vCenter InstanceUuid
if req.EntityId != "" {
    if req.EntityId != Map.content().About.InstanceUuid {
        id := types.ManagedObjectReference{
            Type: "HostSystem",
            Value: req.EntityId,
        }
    }
    if Map.Get(id) == nil {
        return body
    }
}

body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
    {
        EntityId: req.EntityId,
        AssignedLicense: EvalLicense,
    },
}
return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense
    info.LicenseKey = key
    info.Labels = labels
    return info
}

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin string
    Option string
    Severity string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
}
func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf("Plugin ", n.Plugin)
    } else {
        s += fmt.Sprintf("Option ", n.Plugin, n.Option)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in ". Version + "."
    } else if n.Severity == newdefault {
        s += "is added as a default in ". Version + "."
    } else {
        s += " is " + n.Severity + " in ". Version + "."
    }
    if n.ReplacedBy != "" {
        s += fmt.Sprintf(" It is replaced by ", n.ReplacedBy)
    }
    if n.Additional != "" {
        s += " + n.Additional"
    }
    return s
}

const (
    // The following statuses are used to indicate the state of support/deprecation in a given release.
    deprecated = "deprecated" // deprecated, but still completely functional
    ignored = "ignored" // if included in the corefile, it will be ignored by CoreDNS
    removed = "removed" // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
    newdefault = "newdefault" // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
    unsupported = "unsupported" // the plugin/option is not supported by the migration tool

    // The following statuses are used for selecting/filtering notifications
    all = "all" // show all statuses
)

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# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `<path>`
- Remote file format is `<pod-name>:<path>`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `<path>`
- Remote file format is `<pod-name>:<path>`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```
## Specify the Container

Specify the Container within a Pod running multiple containers.

```
```
```
c -c <container-name>
```
```
```bash
```
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```
```
```
{ % method % }

## Namespaces

Set the Pod namespace by prefixing the Pod name with `\<namespace>\`.

```
```
```
c - <pod-namespace>/<pod-name>:<path>
```
```
```bash
```
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```
```
```
{ % endmethod % }

runc

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goproperties - properties file decoder for Go

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tomb - support for clean goroutine termination in Go.

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1.558 pflag 1.0.0

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1.559 leodido-go-urn 0.0.0-20181204092800-a67a23e1c1af

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1.561 selinux 2.8-1+b1
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// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
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```go
package main

import "strings"

// LicenseFilePrefix is a list of filename prefixes that indicate it
// might contain a software license
var LicenseFilePrefix = []string{
    "licence", // UK spelling
    "license", // US spelling
    "copying",
    "unlicense",
    "copyright",
    "copyleft",
    "authors",
    "contributors",
}
```
// LegalFileSubstring are substrings that indicate the file is likely
// to contain some type of legal declaration. "legal" is often used
// that it might moved to LicenseFilePrefix
var LegalFileSubstring = []string{
    "legal",
    "notice",
    "disclaimer",
    "patent",
    "third-party",
    "thirdparty",
}

// IsLicenseFile returns true if the filename might be contain a
// software license
func IsLicenseFile(filename string) bool {
    lowerfile := strings.ToLower(filename)
    for _, prefix := range LicenseFilePrefix {
        if strings.HasPrefix(lowerfile, prefix) {
            return true
        }
    }
    return false
}

// IsLegalFile returns true if the file is likely to contain some type
// of of legal declaration or licensing information
func IsLegalFile(filename string) bool {
    lowerfile := strings.ToLower(filename)
    for _, prefix := range LicenseFilePrefix {
        if strings.HasPrefix(lowerfile, prefix) {
            return true
        }
    }
    for _, substring := range LegalFileSubstring {
        if strings.Contains(lowerfile, substring) {
            return true
        }
    }
    return false
}

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FUNCTIONS

func Negotiate(header string, alternatives []string) (content_type string)
Negotiate the most appropriate content_type given the accept header
and a list of alternatives.

func ParseAccept(header string) (accept []Accept)
Parse an Accept Header string returning a sorted list
of clauses

TYPES

type Accept struct {
  Type, SubType string
  Q    float32
  Params map[string]string
}
Structure to represent a clause in an HTTP Accept Header

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BSON library for Go

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mgo - MongoDB driver for Go

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package simulator

import (
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name:       "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {
            Key: "feature",
            Value: types.KeyValue{
                Key:   "serialuri:2",
                Value: "Remote virtual Serial Port Concentrator",
            },
        },
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "dvs",
                Value: "vSphere Distributed Switch",
            },
        },
    }
}
type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{
        Self: ref,
    }
    m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}
    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{ }).Reference()
        m.LicenseAssignmentManager = &am
    }
    return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{ }
    }
    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }
    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:     req.Labels,
    })
    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)
    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{ }
    }
}
for i, license := range m.Licenses {
    if req.LicenseKey == license.LicenseKey {
        m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...) 
        return body 
    }
}
return body 

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault 
{
    body := &methods.QueryAssignedLicensesBody{ 
        Res: &types.QueryAssignedLicensesResponse{}, 
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid 
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid { 
            id := types.ManagedObjectReference{ 
                Type: "HostSystem", 
                Value: req.EntityId, 
            }
            if Map.Get(id) == nil { 
                return body 
            }
        }
    }

    body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{ 
        { 
            EntityId: req.EntityId, 
            AssignedLicense: EvalLicense, 
        }, 
    }

    return body 
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo { 
    info := EvalLicense 

    info.LicenseKey = key
info.Labels = labels

return info
}

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Feb, 2010

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1.569 glibc 2.24-11+deb9u4

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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package cloud

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "strings"
    "testing"
)

var sentinels = []string{
    "Copyright",
    "Google",
    `Licensed under the Apache License, Version 2.0 (the "License");
    
    function TestLicense(t *testing.T) {
        t.Parallel()
        err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
            if err != nil {
                return err
            }
            return nil
        })
if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
    return nil
}
if strings.HasSuffix(path, ".pb.go") {
    // .pb.go files are generated from the proto files.
    // .proto files must have license headers.
    return nil
}
if path == "bigtable/cmd/cbt/cbtdoc.go" {
    // Automatically generated.
    return nil
}
if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
    // BSD license, which is compatible, is embedded in the file.
    return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
    return nil
}
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels {
    if !bytes.Contains(src, []byte(sentinel)) {
        t.Errorf("%v: license header not present. want %q", path, sentinel)
        return nil
    }
}

return nil
}
if err != nil {
    t.Fatal(err)
}

1.587 goprotobuf 1.3.2
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Protocol Buffers for Go with Gadgets

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1.610 client-go kubernetes-1.7.16

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package goautoneg

import "bitbucket.org/ww/goautoneg"

HTTP Content-Type Autonegotiation.

The functions in this package implement the behaviour specified in
http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html

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FUNCTIONS

func Negotiate(header string, alternatives []string) (content_type string)
Negotiate the most appropriate content_type given the accept header
and a list of alternatives.

func ParseAccept(header string) (accept []Accept)
Parse an Accept Header string returning a sorted list
of clauses

TYPES

type Accept struct {
    Type, SubType string
    Q      float32
    Params map[string]string
}
Structure to represent a clause in an HTTP Accept Header

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# buffruneio

Buffruneio is a wrapper around bufio to provide buffered runes access with unlimited unreads.

```go
import "github.com/pelletier/go-buffruneio"
```

## Examples

```go
import (  
    "fmt"
    "github.com/pelletier/go-buffruneio"
    "strings"
)

fmt.Println(reader.ReadRune()) // 'a'
fmt.Println(reader.ReadRune()) // 'b'
fmt.Println(reader.ReadRune()) // 'c'
reader.UnreadRune()
reader.UnreadRune()
fmt.Println(reader.ReadRune()) // 'b'
fmt.Println(reader.ReadRune()) // 'c'
```

## Documentation

The documentation and additional examples are available at [godoc.org](http://godoc.org/github.com/pelletier/go-buffruneio).

## Contribute

Feel free to report bugs and patches using GitHub's pull requests system on [pelletier/go-toml](https://github.com/pelletier/go-buffruneio). Any feedback is much appreciated!

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goproperties - properties file decoder for Go

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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#
## <summary>Polaris dbgd Policy Rules.</summary>

###################################
## <summary>
## Write dbgd /var/run socket file
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface('polaris_dbgd_var_sock_write',
    gen_require(
        type polaris_dbgd_t;
        type polaris_dbgd_var_run_t;
        type var_run_t;
    )
    write_sock_files_pattern($1, var_run_t, polaris_dbgd_var_run_t)
    allow $1 polaris_dbgd_t:unix_stream_socket { connectto };
)

Found in path(s):
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## <summary>Polaris cpp_stats Policy Rules.</summary>

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# Map GNSS TTY to correct device context
/dev/ttyS1 -c gen_context(system_u:object_r:polaris_cabo_gnss_device_t,s0)

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policy_module(polarisnginx, 1.0);

general_require('  
    type polaris nginx t;
')

polaris_btrace_data_manage(polaris nginx t)
polaris_chasfs_manage(polaris nginx t)
polaris_tdldresolve_read(polaris nginx t)
polaris_tdldb_list_dirs(polaris nginx t)
polaris_cpld_read(polaris nginx t)
polaris_lua_read(polaris nginx t)
polaris_flashlib_read(polaris nginx t)
polaris_crlt_data_manage(polaris nginx t)
polaris_ripc_sman ui serv connect(polaris nginx t)
polaris_lua_read(polaris nginx t)
polaris_disk harddisk read_lnk(polaris nginx t)

allow polaris nginx t self:tcp_socket { bind create listen accept setopt getopt shutdown};
allow polaris nginx t self:capability2 block_suspend;
allow polaris nginx t self:capability { setgid setuid sys_resource };

polaris_lfts_dev_use(polaris nginx t)
logging_send_syslog_msg(polaris nginx t)
corenet_tcp_connect_http_port(polaris nginx t)
corenet_tcp_bind_generic_node(polaris nginx t)
corenet_tcp_bind_http_port(polaris nginx t)
corenet_tcp_connect_pki server_port(polaris nginx t)
# FIXME: add interface to allow bind to port 1025-65535
corenet_tcp_bind_all_ports(polaris nginx t)
# Allow the nginx to search/read the web servers config files
apache_read_config(polaris nginx t)
apache_search_config(polaris nginx t)
# allow read httpd sys content_t (/var/www/...)
apache_read_sys content(polaris nginx t)
gen_require("
    type httpd_var_run_t;
    type syslogd_var_run_t;
")
setattr_dirs_pattern(polaris_nginx_t, httpd_var_run_t, httpd_var_run_t)
manage_dirs_pattern(polaris_nginx_t, httpd_var_run_t, httpd_var_run_t)
manage_files_pattern(polaris_nginx_t, httpd_var_run_t, httpd_var_run_t)
manage_sock_files_pattern(polaris_nginx_t, httpd_var_run_t, httpd_var_run_t)
files_pid_filetrans(polaris_nginx_t, httpd_var_run_t, { file sock_file dir unix_stream_socket })

polaris_socketat_nsfs_read(polaris_nginx_t)
# socketat does setsockopt SO_VRF
allow polaris_nginx_t self:capability net_admin;
auth_use_nsswitch(polaris_nginx_t)

allow polaris_nginx_t tmp_t:dir create_dir_perms;
files_tmp_filetrans(polaris_nginx_t, httpd_log_t, file, "ngx_access.log")
files_tmp_filetrans(polaris_nginx_t, httpd_log_t, file, "ngx_error.log")
files_tmp_filetrans(polaris_nginx_t, httpd_log_t, file, "nginx.pid")
files_tmp_filetrans(polaris_nginx_t, httpd_log_t, file, "nginx.lock.accept")
files_tmp_filetrans(polaris_nginx_t, httpd_log_t, file, "nginx.lock.cookie_tbl")
files_tmp_filetrans(polaris_nginx_t, httpd_log_t, file, "nginx.lock.login_count")
filetrans_pattern(polaris_nginx_t, syslogd_var_run_t, httpd_log_t, file, "openresty.log")
filetrans_pattern(polaris_nginx_t, syslogd_var_run_t, httpd_log_t, file, "nginx.csrf.log")
filetrans_pattern(polaris_nginx_t, syslogd_var_run_t, httpd_log_t, file, "nginx.test.log")
create_dirs_pattern(polaris_nginx_t, httpd_log_t, httpd_log_t)
manage_files_pattern(polaris_nginx_t, httpd_log_t, httpd_log_t)
apache_read_log(polaris_nginx_t)
apache_write_log(polaris_nginx_t)
polaris_restconf_tmp_use(polaris_nginx_t)
dev_read_sysfs(polaris_nginx_t)

# dev/zram0 needs fs_t:filesystem getattr
ifdef("quake_platform",
    fs_getattr_xattr_fs(fs(polaris_nginx_t))
')

type polaris_nginx_tmp_t;
files_tmp_file(polaris_nginx_tmp_t)
manage_files_pattern(polaris_nginx_t, polaris_nginx_tmp_t, polaris_nginx_tmp_t)
manage_dirs_pattern(polaris_nginx_t, polaris_nginx_tmp_t, polaris_nginx_tmp_t)
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, file, "nginx_aaa")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, file, "nginx_master")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, file, "nginx_session")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, file, "ciscosdwan.cfg")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, dir, "proxy_temp")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, dir, "client_temp")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, dir, "fastcgi_temp")

files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, dir, "scgi_temp")

files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, dir, "uwsgi_temp")

files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, dir, "pki")

files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, dir, "auth")

polaris_restconf_read(polaris_nginx_t)

##########################################################################
# webui_helper.sh/webui_helper_upgrade.sh
##########################################################################
polaris_process_domain_template(nginx_webui)
polaris_process_domain_template(nginx_webui_install)

polaris_nginx_exec_domain(polaris_nginx_webui_t, polaris_nginx_webui_exec_t)
polaris_nginx_exec_domain(polaris_nginx_webui_install_t, polaris_nginx_webui_install_exec_t)

corecmd_exec_bin(polaris_nginx_webui_t)
corecmd_exec_bin(polaris_nginx_webui_install_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_nginx_webui_t)
auth_use_nsswitch(polaris_nginx_webui_install_t)

#allow polaris_nginx_webui_t/polaris_nginx_webui_install_t access to nginx webui /tmp base folder
# /tmp/nginx/webui_tmp
manage_files_pattern(polaris_nginx_webui_t, polaris_nginx_tmp_t, polaris_nginx_tmp_t)
manage_files_pattern(polaris_nginx_webui_install_t, polaris_nginx_tmp_t, polaris_nginx_tmp_t)

#allow polaris_file_transfer_client_t to access nginx webui /tmp base folder
# /tmp/nginx/webui_tmp. We also need to allow chvrf to use the FIFO in cases
# where we use the VRF interface

gen_require('type polaris_file_transfer_client_t;

type polaris_chvrf_t;
')
manage_files_pattern(polaris_file_transfer_client_t, polaris_nginx_tmp_t, polaris_nginx_tmp_t)
manage_fifo_files_pattern(polaris_file_transfer_client_t, polaris_nginx_t, polaris_nginx_t)
manage_fifo_files_pattern(polaris_chvrf_t, polaris_nginx_t, polaris_nginx_t)

#fts_client binary requires access to chassis, tdlresolve and cpld
polaris_tdlresolve_read(polaris_file_transfer_client_t)
polaris_chasfs_manage(polaris_file_transfer_client_t)
polaris_cpld_read(polaris_file_transfer_client_t, polaris_sysfs_cpld_t, polaris_sysfs_cpld_t)

gen_require('type polaris_file_transfer_client_exec_t;
type polaris_fts_client_tmp_t;
files_tmp_file(polaris_fts_client_tmp_t)
polaris_fts_client_tmp_manage(polaris_file_transfer_client_t)

# on ultra /var/www directory created by systemd unit that runs /mount_packages.sh
# under unconfined_service_t domain
gen_require('  
  type unconfined_service_t;
')
files_var_filetrans(unconfined_service_t, httpd_sys_content_t, dir, "www")

allow polaris_nginx_t self:capability dac_override;

# iox local mgr in webui connects to caf service on port 8098
corenet_tcp_connect_polaris_caf_api_port(polaris_nginx_t)

# IOx downloads the application package using network protocol (e.g http)
gen_require('  
  type fifo_var_run_t;
')
allow polaris_file_transfer_client_t fifo_var_run_t:fifo_file read;

# webui connects to dbm backend service on port 9090
corenet_tcp_connect_polaris_wnc mgrd_port(polaris_nginx_t)

# webui connects to poljvm service on port 9093
corenet_tcp_connect_polaris_poljvm_websocket_port(polaris_nginx_t)

# remote docker workflow
corenet_tcp_connect_us_cli_port(polaris_nginx_t)

# webui sw mgmt app which does install and smu, invokes webui helper shell
# scripts which inturn invoke installer scripts. Hence need to provide transition
# rule to polaris_install_engine_t domain
polaris_install_engine_domtrans(polaris_nginx_webui_install_t)
polaris_install_show_domtrans(polaris_nginx_webui_install_t)

# Allow pipe operations during install command invocation
polaris_nginx_manage_fifo_files(polaris_bexecute_t)
polaris_nginx_manage_fifo_files(polaris_code_verify_t)
polaris_nginx_manage_fifo_files(polaris_install_engine_t)
polaris_nginx_manage_fifo_files(polaris_install_show_t)
polaris_nginx_manage_fifo_files(rsync_t)

# During install-add via WebUI, code_sign_verify generates a file:map denial
# "/usr/bin/code_sign_verify package
#/tmp/patch/smus/10_vwlacapsp_ap3g3_17.6.bin/mount/C9800-CL-mono-patch.2021-01-11_11.31_radonep"
require {
  type etc_runtime_t;
}
allow polaris_code_verify_t etc_runtime_t:file map;

# Provide sys_resource capability to webui install scripts for sys_pipe calls.
allow polaris_nginx_webui_install_t self:capability sys_resource;

# nginx/webui File-manager app provides bootflash file-mgmt facility.
# as part of this it needs RW access to bootflash.
# TODO: Bug CSCvp83328 to isolate the access to another utility, which
# can have its own domain and nginx_t can transition to it.
polaris_bootflash_manage(polaris_nginx_t)

# allow nginx to manage core files
polaris_core_file_manage(polaris_nginx_t)

# luajit module for nginx triggers execmem denial due to mprotect call.
# TODO: cdets CSCvp70095 is used to track this vulnerability in
# current nginx component.
allow polaris_nginx_t self:process execmem;

# FIXME : allow shell/binary execution
# Elevated privilege needs to be addressed
# Tracked by Bugid : CSCvp93448
corecmd_exec_bin(polaris_nginx_t)
corecmd_exec_shell(polaris_nginx_t)

#FIXME
# Need to re-evaluate these privileges
#Tracked by Bugid : CSCvp92908, CSCvt81963(fts_client)
polaris_file_transfer_client_domtrans(polaris_nginx_webui_install_t)
# nginx need access btrace fifo file:
polaris_use_btrace_fifo(polaris_nginx_t)
gen_require(
  type proc_t;
  )
manage_files_pattern(polaris_nginx_t, polaris_nginx_t, polaris_nginx_t)
allow polaris_nginx_t proc_t:filesystem { associate };
# nginx needs access to /dev/stdout which is owned by pman
allow polaris_nginx_t polaris_pman_t:fifo_file open;

******************************************************************************
# aireos_translate_helper.sh
# Invokes a python library that converts aireos config to ewlc config.
type polaris_aireos_translator_scripts_t;
files_type(polaris_aireos_translator_scripts_t)
polaris_process_domain_template(nginx_webui_aireos_translator)
polaris_nginx_exec_domain(polaris_nginx_webui_aireos_translator_t, polaris_nginx_webui_aireos_translator_exec_t)
allow polaris_nginx_t polaris_aireos_translator_scripts_t:dir { getattr open read search };
allow polaris_nginx_t polaris_aireos_translator_scripts_t:file { getattr ioctl open read };
allow polaris_nginx_t polaris_nginx_webui_aireos_translator_exec_t:file ioctl;
allow polaris_nginx_t self:process setfscreate;
files_list_var(polaris_nginx_t)

############################################################################
# ra_trace_webui_helper.sh
# Invokes mcp_trace_filter.sh to perform radio active tracing.
############################################################################
polaris_process_domain_template(nginx_webui_trace_filter)
polaris_nginx_exec_domain(polaris_nginx_webui_trace_filter_t, polaris_nginx_webui_trace_filter_exec_t)
corecmd_exec_bin(polaris_nginx_webui_trace_filter_t)
manage_files_pattern(polaris_nginx_webui_trace_filter_t, polaris_nginx_tmp_t, polaris_nginx_tmp_t)
manage_dirs_pattern(polaris_nginx_webui_trace_filter_t, polaris_nginx_tmp_t, polaris_nginx_tmp_t)
auth_use_nsswitch(polaris_nginx_webui_trace_filter_t)
polaris_trace_filter_domtrans(polaris_nginx_webui_trace_filter_t)
polaris_nginx_manage_fifo_files(polaris_trace_filter_t)

############################################################################
# nginx_helper.sh
#nginx show command helper run by pman invoking curl
############################################################################
polaris_utility_domain_template(nginx_helper)
polaris_pman_entry(polaris_nginx_helper_t, polaris_nginx_helper_exec_t)

gen_require(`
    type polaris_curl_t;
    `
)
# allow execution of /usr/bin/curl on the pkiserver port
polaris_curl_domtrans(polaris_nginx_helper_t)
corenets_tcp_connect_pkiserver_port(polaris_curl_t)

# allow curl to write into chasfs
polaris_chasfs_manage(polaris_curl_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.10/selinux-tar/selinux/polarisnginx.te
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#
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#

### <summary>Polaris cpp_cdm Policy Rules.</summary>

************************************************************
### <summary>
### Allow access to semaphore with type polaris_cpp_cdm_t
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface(`polaris_cpp_cdm_sem_use',
    gen_require(
        type polaris_cpp_cdm_t;
    )
    allow $1 polaris_cpp_cdm_t:sem rw_sem_perms;
);

************************************************************
### <summary>
### Allow access to shared memory with type polaris_cpp_cdm_t
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface(`polaris_cpp_cdm_shm_use',

gen_require(
    type polaris_cpp_cdm_t;
)
allow $1 polaris_cpp_cdm_t:shm rw_shm_perms;
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppcdm.if
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#
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#
## <summary>Polaris dmi_ndbmand Policy Rules.</summary>

#######################################
## <summary>
## Work with NDBLOAD_LOCK_PATH.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_ndbload_lock_use',``
    gen_require(`
        type polaris_dmi_ndbutil_lock_t;
        type tmp_t;
    `)
    manage_files_pattern($1, tmp_t, polaris_dmi_ndbutil_lock_t)
    files_tmp_filetrans($1, polaris_dmi_ndbutil_lock_t, file, ".l.ndbutil-load")
    files_tmp_filetrans($1, polaris_dmi_ndbutil_lock_t, file, ".l.ndbutil-use")
  `)

#######################################
## <summary>
## Manage polaris_ndbmand_ndbutil_t files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
open source used in crosswork platform infrastructure

cw-infra-opensource-4.3.0 15619

#
interface('polaris_ndbmand_ndbutil_manage',
   gen_require(
       type polaris_ndbmand_ndbutil_t;
       type polaris_confd_ndbutil_lock_t;
   ')
)
manage_files_pattern($1, polaris_confd_ndbutil_lock_t, polaris_ndbmand_ndbutil_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmindbmand.if
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#
#
### <summary>Polaris sif_mgr Policy Rules.</summary>

########################################################################
### <summary>
###   Allow the specified domain able to read sif_mgr /tmp files.
### </summary>
### <param name="type">
###   <summary>
###   Domain allowed access.
### </summary>
### </param>
### <param name="object">
###   <summary>
###   File name in /tmp that the sif_mgr domain creates and other domains
###   access.
### </summary>
### </param>
#
interface('polaris_sif_mgr_tmp_files_read',
   gen_require(
       type polaris_sif_mgr_tmp_t;
   ')
)
read_files_pattern($1, polaris_sif_mgr_tmp_t, polaris_sif_mgr_tmp_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissifmgr.if
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## <summary>Polaris Chasfs Policy Rules.</summary>

Chasfs policy

### <summary>Manage chasfs files</summary>

#### <summary>Domain allowed access.</summary>

### Read chasfs files

# chasfs contains a lot of weird permission files
allow $1 self:capability dac_read_search;

allow $1 polaris_chasfs_t:{file dir} watch;

manage_dirs_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
manage_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
manage_lnk_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
manage_fifo_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
manage_sock_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
Domain allowed access.

```
interface('polaris_chasfs_read',
  gen_require(''
    type polaris_chasfs_t;
  ')
  list_dirs_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
  read_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
  read_link_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
  read_fifo_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
  read_socket_pattern($1, polaris_chasfs_t, polaris_chasfs_t)

  allow $1 polaris_chasfs_t:{file dir} watch;

  # chasfs contains a lot of weird permission files
  allow $1 self:capability dac_read_search;

')
```

```
Manage chasync file(user_input_custom.xml)
```

```
getattr allowed access.
```

```
interface('polaris_chasync_files_manage',
  gen_require(''
    type polaris_chasync_files_t;
  ')
  manage_files_pattern($1, polaris_chasync_files_t, polaris_chasync_files_t)

')
```

```
Watch read chasfs directories
```

```
Domain allowed access.
```

```
```
## <rolebase/>

```polaris_chasfs_t
allow $1 polaris_chasfs_t:dir watch_reads;
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarischasfs.if

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#

/dev/dev_lfts -c gen_context(system_u:object_r:polaris_lfts_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislfts.fc

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#

```<summary>Polaris GR Manager Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgrmgr.if

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#
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#
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#

policy_module(polarisngwc, 1.0);
# chdrvmmmap device (MMAP Driver for ASIC Memory mapping)
type polaris_chdrvmmmap_device_t;
dev_node(polaris_chdrvmmmap_device_t)

# gettysburg_fpga device (/dev/gettysburg_dev1)
type polaris_gettysburg_fpga_device_t;
dev_node(polaris_gettysburg_fpga_device_t)

# dplr io memory mapping driver /dev/cisco/dplriomem
type polaris_dplr_iomem_mmapdrv_device_t;
dev_node(polaris_dplr_iomem_mmapdrv_device_t)

# /dev/shm/ngwc_shm shared memory
type polaris_ngwc_shm_t;
files_type(polaris_ngwc_shm_t)

# /dev/shm/ngwc_scc_shm shared memory
type polaris_ngwc_scc_shm_t;
files_type(polaris_ngwc_scc_shm_t)

# /dev/shm/iomd_to_fed_ptp_offload shared memory
type polaris_ngwc_itfpo_t;
files_type(polaris_ngwc_itfpo_t)

# /dev/shm/sdm shared memory
type polaris_sdm_shm_t;
files_type(polaris_sdm_shm_t)

# /dev/shm/i2c_data shared memory
type polaris_i2c_data_t;
files_type(polaris_i2c_data_t)

#FPGA io memory mapping driver /dev/cisco/fpgaiomem
type polaris_fpga_iomem_mmapfpga_device_t;
dev_node(polaris_fpga_iomem_mmapfpga_device_t)

# Mapping permission for /dev/shm/<name>
ifdef('quake_platform',
    gen_require('
        type systemd_tmpfiles_t;
    ')
    mmap_files_pattern(systemd_tmpfiles_t, polaris_quake_i2c_t, polaris_quake_i2c_t)
  ')

# In combined image we have several policies and we choose
# one to use in run-time, but file system is shared and
# labeled with different file_context files, so it is
# possible that we may have some labels that other policy
# does not understand for now just hard missing entries
#ifdef(`nyquist_platform',`

# Adding here as this unmount command is specific to Nyquist platform.
/bin/cat9k_ssd_auth_cmds.sh
polaris_utility_domain_template(ssd_unmount)
corecmd_exec_bin(polaris_ssd_unmount_t)
storage_getattr_fixed_disk_dev(polaris_ssd_unmount_t)
fstools_domtrans(polaris_ssd_unmount_t)
mount_domtrans(polaris_ssd_unmount_t)
polaris_use_btrace_fifo(polaris_ssd_unmount_t)

#allow to read /etc/passwd
auth_use_nsswitch(polaris_ssd_unmount_t)
polaris_chasfs_read(polaris_ssd_unmount_t)
polaris_cpld_read(polaris_ssd_unmount_t)

#Read /tmp/sw/boot files
polaris_boot_tmp_read(polaris_ssd_unmount_t)

# Allow read to btrace tmp files
polaris_btrace_tmppub_read(polaris_ssd_unmount_t)
# Allow getattr to tmpfs
fs_getattr_tmfs(polaris_ssd_unmount_t)
# Allow read to ssd auth tmp files /tmp/ssd_blk_device created by udev
polaris_read_ssd_tmp_files(polaris_ssd_unmount_t)

# allow creation/access of temporary files created by bash such as
#/tmp/sh-thd-1499428203 etc
type polaris_ssd_unmount_tmp_t:
files_tmp_file(polaris_ssd_unmount_tmp_t)
files_tmp_filetrans(polaris_ssd_unmount_tmp_t, polaris_ssd_unmount_tmp_t, file)
manage_files_pattern(polaris_ssd_unmount_tmp_t, polaris_ssd_unmount_tmp_t, file)
allow polaris_ssd_unmount_t polaris_ssd_unmount_tmp_t:file { unlink };

#Allow nfs dir/file read
rpc_manage_nfs_state_data_dir(polaris_ssd_unmount_t)
rpc_manage_nfs_state_data(polaris_ssd_unmount_t)
#Allow read access to files on nfsd file system
fs_read_nfsd_files(polaris_ssd_unmount_t)
kernell_rw_rpc_sysctls(polaris_ssd_unmount_t)
fs_getattr_xattr_fs(polaris_ssd_unmount_t)

# allow create/sendto/connect operations for logger
allow polaris_ssd_unmount_t self:unix_dgram_socket sendto;
allow polaris_ssd_unmount_t self:unix_dgram_socket create_socket_perms;
logging_create_devlog_dev(polaris_ssd_unmount_t)
logging_send_syslog_msg(polaris_ssd_unmount_t)
polaris_persistent_getattr(polaris_ssd_unmount_t)
# allow dir:search getattr read for udev tmp files
# allow file:write open for udev tmp files
polaris_udev_tmp_manage(polaris_ssd_unmount_t)
gen_require(
    type rsync_exec_t;
    type rsync_port_t;

')

# allow tcp_socket:name_connect for rsync_port_t
# polaris_ssd_unmount_t has superset privileges of rsync, so its good
# to run rsync in unmount domain. This is not the case everywhere. Please use
# corenet_tcp_connect_rsync_port if rsync needs to be run in its own domain
allow polaris_ssd_unmount_t rsync_port_t:tcp_socket name_connect;
# allow file:get_attar exec read open map execute_no_trans for rsync_exec_t
allow polaris_ssd_unmount_t rsync_exec_t:file { execute execute_no_trans getattr map open read };
# allow dir:getattr for removable_t
polaris_getattr_removable(polaris_ssd_unmount_t)

')

ifdef('passport_platform',
    type polaris_auto_upgrade_server_rp_exec_t;
    files_type(polaris_auto_upgrade_server_rp_exec_t)
    type polaris_bt_logger_exec_t;
    files_type(polaris_bt_logger_exec_t)
    type polaris_cmm_exec_t;
    files_type(polaris_cmm_exec_t)
    type polaris_ngwc_plfm_mgr_exec_t;
    files_type(polaris_ngwc_plfm_mgr_exec_t)
    type polaris_sif_mgr_exec_t;
    files_type(polaris_sif_mgr_exec_t)
    type polaris_torch_exec_t;
    files_type(polaris_torch_exec_t)
    type polaris_xcvr_test_exec_t;
    files_type(polaris_xcvr_test_exec_t)
    type polaris_faked_exec_t;
    files_type(polaris_faked_exec_t)
    type polaris_emd_exec_t;
    files_type(polaris_emd_exec_t)
    type polaris_ngwc_ishow_exec_t;
    files_type(polaris_ngwc_ishow_exec_t)
type polaris_gr_mgr_exec_t;
files_type(polaris_gr_mgr_exec_t)
type polaris_ioxss_rp_exec_t;
files_type(polaris_ioxss_rp_exec_t)
')
ifdef(`starfleet_platform',

type polaris_xcvr_test_exec_t;
files_type(polaris_xcvr_test_exec_t)
type polaris_auto_upgrade_server_rp_exec_t;
files_type(polaris_auto_upgrade_server_rp_exec_t)
type polaris_bt_logger_exec_t;
files_type(polaris_bt_logger_exec_t)
type polaris_cmm_exec_t;
files_type(polaris_cmm_exec_t)
type polaris_ngwc_plfm_mgr_exec_t;
files_type(polaris_ngwc_plfm_mgr_exec_t)
type polaris_sif_mgr_exec_t;
files_type(polaris_sif_mgr_exec_t);
type polaris_torch_exec_t;
files_type(polaris_torch_exec_t);
')


type polaris_disk_ucode0_t;
files_type(polaris_disk_ucode0_t);


type polaris_nplusm_power_file_t;
polaris_pfile_type(polaris_nplusm_power_file_t)

#permission for /ucode0
optional_policy(''
    gen_require(''
        type polaris_periodic_t;
    ')
    polaris_disk_ucode0_read_lnk(polaris_periodic_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwc.te
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#
# February 2020, Victor Kamensky
#
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#
#
## <summary>Polaris cfgmgr Policy Rules.</summary>
## <summary>
## Write cfmgr /var/run socket file
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>

```c
interface('polaris_cfgmgr_var_sock_write',
    gen_require('polaris_cfgmgr_t;
    type polaris_cfgmgr_var_run_t;
    type var_run_t;
    ')
    write_sock_files_pattern($1, var_run_t, polaris_cfgmgr_var_run_t)
    allow $1 polaris_cfgmgr_t:unix_stream_socket { connectto; }
    ')
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscfgmgr.if
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#

policy_module(polarisstackmgr, 1.0);

gen_require('polaris_stack_mgr_t;
    ')
polaris_btrace_data_manage(polaris_stack_mgr_t)
polaris_crft_data_manage(polaris_stack_mgr_t)
polaris_chasfs_manager(polaris_stack_mgr_t)
polaris_tdldresolve_read(polaris_stack_mgr_t)
polaris_tdlldb_list_dirs(polaris_stack_mgr_t)
polaris_cpld_read(polaris_stack_mgr_t)
polaris_lua_read(polaris_stack_mgr_t)
polaris_flashlib_read(polaris_stack_mgr_t)
polaris_ripc_sman_ui_serv_connect(polaris_stack_mgr_t)
polaris_db_tld_db_dir_use(polaris_stack_mgr_t)

# allow to send message to /dev/log
logging_send_syslog_msg(polaris_stack_mgr_t)

allow polaris_stack_mgr_t self:capability { dac_override };

polaris_dyn_cfg_tmp_read(polaris_stack_mgr_t)

corecmd_exec_bin(polaris_stack_mgr_t)
corecmd_exec_shell(polaris_stack_mgr_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_stack_mgr_t)

# read /proc/cmdline
kernel_read_system_state(polaris_stack_mgr_t)

# open /dev/ttyS0 console in stack_console_write_init
term_use_unallocated_ttys(polaris_stack_mgr_t)

# on ngwc/vwlc FIPS code reads /tmp/hw_entropy
polaris_hw_entropy_use(polaris_stack_mgr_t)

# stackmgr runs mcp_trace_request.sh
polaris_trace_request_domtrans(polaris_stack_mgr_t)

# stack mgr needs to be able to access /tmp/issustk/prst_sync_rld_info_prcsd
polaris_issu_stack_tmp_manage(polaris_stack_mgr_t)

# may use mcp_chvrf.sh to access other nodes in system.
# Note that we do not actually need to transition to the chvrf domain, however
# a file descriptor leak can occur and the domain transition permission macro
# expands to allow polaris_chvrf_t to access the fifo
polaris_chvrf_domtrans(polaris_stack_mgr_t)

# Allow read on bootflash to be able to read reload_history
polaris_bootflash_read(polaris_stack_mgr_t)

# stackmgr tmp files
type polaris_stack_mgr_tmp_t;
files_tmp_file(polaris_stack_mgr_tmp_t)
files_tmp_filetrans(polaris_stack_mgr_t, polaris_stack_mgr_tmp_t, file, "ngwc_reload_reason")
manage_files_pattern(polaris_stack_mgr_t, polaris_stack_mgr_tmp_t, polaris_stack_mgr_tmp_t)

allow polaris_stack_mgr_t self:capability sys_nice;
allow polaris_stack_mgr_t self:process setsched;
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisstackmgr.te
No license file was found, but licenses were detected in source scan.

#
# January 2018, Manohar Hungund
#
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#

# polarisctdplogrp file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisctdplogrp.fc
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
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#

## <summary>Polaris cedge_start Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscedgestart.if
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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl
define('polaris_mqipc_service_server_aux',
dnl type $1;
polaris_mqipc_type($1)
polaris_mqipc_$2_create_name($3))

define('polaris_mqipc_service_server',
dnl polaris_mqipc_service_server_aux(mqipc_label($1), mqipc_stem($1), process_label($2))
)
define('polaris_mqipc_service_client_aux',
dnl polaris_mqipc_$2_use($3))
define('polaris_mqipc_service_client',');
dnl polaris_mqipc_service_client_aux(mqipc_label($1), mqipc_stem($1), process_label($2))dnl 
')

define('polaris_mqipc_service_server_elastic_client',')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_mqipc_te.m4

No license file was found, but licenses were detected in source scan.

# 
# March 2017, Victor Kamensky
#
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#
#
## <summary>Polaris polarisqfp Policy Rules.</summary>

######################################
## <summary>
##      Work (read, write, ioctl) with /dev/netmap device
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_netmap_dev_use',
gen_require(
   type device_t;
type polaris_netmap_device_t;
')
   write_chr_files_pattern($1, device_t, polaris_netmap_device_t)
   read_chr_files_pattern($1, device_t, polaris_netmap_device_t)
   allow $1 polaris_netmap_device_t:chr_file map;
')

######################################
## <summary>
##      Work (read, write, ioctl) with /dev/svc_eng_puntNN devices
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
# interface('polaris_svc_eng_punt_dev_use',
# gen_require(
#     type device_t;
# type polaris_sep_device_t;
# )
#     write_chr_files_pattern($1, device_t, polaris_sep_device_t)
#     read_chr_files_pattern($1, device_t, polaris_sep_device_t)
# )

########################################
## <summary>
##      Allow access to semaphore with type polaris_qfp_t
## </summary>
## <param name="domain">
##     <summary>
##     Domain allowed access.
##     </summary>
## </param>
#
# interface('polaris_qfp_sem_use',
# gen_require(
#     type polaris_qfp_t;
# )
#     allow $1 polaris_qfp_t:sem rw_sem_perms;
# )

########################################
## <summary>
##	Send messages to qfp unix datagram sockets.
## </summary>
## <param name="domain">
##     <summary>
##     Domain allowed access.
##     </summary>
## </param>
#
# interface('polaris_qfp_dgram_send',
# gen_require(
#     type polaris_qfp_t;
# )
#     allow $1 polaris_qfp_t:unix_dgram_socket sendto;
# )

# CSR & C8KV infiniband devices in Azure
interface('polaris_infiniband_dev_use',
gen_require('}
type device_t;

$device_t$ = "device_t"

write_chr_files_pattern($1, device_t, $device_t$)
read_chr_files_pattern($1, device_t, $device_t$)
allow $1$ $device_t$:chr_file_map;

########################################
## <summary>
##      Execute iodbd.sh script in the polaris_iodbd_t domain.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
interface('polaris_iodbd_domtrans',
        gen_require(
            type polaris_iodbd_t, polaris_iodbd_exec_t;
          )
        corecmd_search_bin($1)
        domtrans_pattern($1, polaris_iodbd_exec_t, polaris_iodbd_t)
      )

########################################
## <summary>
##      Manage files and directories under /tmp/iodb
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface('polaris_iodb_tmp_manage',
          gen_require(
              type polaris_iodb_tmp_t;
            )
          manage_files_pattern($1, polaris_iodb_tmp_t, polaris_iodb_tmp_t)
          manage_dirs_pattern($1, polaris_iodb_tmp_t, polaris_iodb_tmp_t)
          fs_getattr_tmpfs($1)
        )
$$\text{Manage files and directories under /tmp/memif}$$

$$\text{Domain allowed access.}$$

$$\text{Allow $1$ polaris_qfp_memif_t:file map;}$$

$$\text{Work (read, write, ioctl) with /dev/icp_adf_ctl and}$$
$$\text{/dev/icp_dev_mem devices}$$
## <param name="domain">
##  
## Domain allowed access.
##  
## </param>
#
interface('polaris_icp_dev_use',
  gen_require(''
    type device_t;
    type polaris_icp_device_t;
  ')
  write_chr_files_pattern($1, device_t, polaris_icp_device_t)
  read_chr_files_pattern($1, device_t, polaris_icp_device_t)
  allow $1 polaris_icp_device_t:chr_file map;
')

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisqfp.if
No license file was found, but licenses were detected in source scan.

#  
# March 2017, Victor Kamensky
#  
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#  
# All rights reserved
#  
#/usr/binos/bin/*.linux_iosd.*ms -- gen_context(system_u:object_r:polaris_iosd_exec_t,s0)
#/usr/binos/bin/mcpcc-lc-ms -- gen_context(system_u:object_r:polaris_iosd_exec_t,s0)

/tmp/boottime              gen_context(system_u:object_r:polaris_iosd_tmp_files_t,s0)
/tmp/booted                gen_context(system_u:object_r:polaris_iosd_tmp_files_t,s0)
/tmp/restconf(/.*)?         gen_context(system_u:object_r:polaris_restconf_tmp_files_t,s0)
/tmp/netio0(/.*)?           gen_context(system_u:object_r:polaris_iosd_tmp_files_t,s0)
/tmp/nginx.conf            gen_context(system_u:object_r:httpd_config_t,s0)
/bootflash/.geo(/.*)?      gen_context(system_u:object_r:polaris_geodb_files_t,s0)
/harddisk/.geo(/.*)?        gen_context(system_u:object_r:polaris_geodb_files_t,s0)

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisisod.fc
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#  
# March 2017, Victor Kamensky
#  
# Copyright (c) 2016-2019 by Cisco Systems, Inc.
## <summary>Polaris cli_agent Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscliagent.if

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# August 2017, Shawn Lu
#
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#

# polarisrogued file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrogued.fc

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# July 2017, Victor Kamensky
#
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#

## <summary>Polaris MCP Platform Policy Rules.</summary>


```c
interface(`polaris_scooby_dev_use',`
  gen_require(`
    type device_t;
    type polaris_scooby_device_t;
  ')

  write_chr_files_pattern($1, device_t, polaris_scooby_device_t)
  read_chr_files_pattern($1, device_t, polaris_scooby_device_t)
```
### <summary>
### Work (read, write, ioctl) with /dev/spa[0123]
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface('polaris_spa_dev_use','
gen_require('
    type device_t;
type polaris_spa_device_t;
')
    write_chr_files_pattern($1, device_t, polaris_spa_device_t)
    read_chr_files_pattern($1, device_t, polaris_spa_device_t)
    allow $1 polaris_spa_device_t:chr_file map;
')

### <summary>
### Work (read, write, ioctl) with /dev/htdp[0-9]*
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface('polaris_htdp_dev_use','
gen_require('
    type device_t;
type polaris_htdp_device_t;
')
    write_chr_files_pattern($1, device_t, polaris_htdp_device_t)
    read_chr_files_pattern($1, device_t, polaris_htdp_device_t)
')

### <summary>
### Work (read, write, ioctl) with /sys/devices/virtual/sys_platform
### </summary>
### <param name="domain">
### Domain allowed access.
# <summary>
# Work (read, write, ioctl) with /dev/ds31408
# <summary>
# <param name="domain">
# <summary>
# Domain allowed access.
# </summary>
# </param>
#
interface('polaris_ds31408_dev_use',
  gen_require(
    type device_t;
    type polaris_ds31408_device_t;
  )
  rw_chr_files_pattern($1, device_t, polaris_ds31408_device_t)
)

# <summary>
# Allow access to /dev/cbdma
# <summary>
# <param name="domain">
# <summary>
# Domain allowed access.
# </summary>
# </param>
#
interface('polaris_cbdma_dev_use',
  gen_require(
    type device_t;
    type polaris_cbdma_device_t;
  )
  write_chr_files_pattern($1, device_t, polaris_cbdma_device_t)
  read_chr_files_pattern($1, device_t, polaris_cbdma_device_t)
  allow $1 polaris_cbdma_device_t:chr_file map;
)

########################################################################

### Open Source Used In Crosswork Platform Infrastructure cw-infra-opensource-4.3.0 15637
## Summary

Allow access to `/dev/cpp_htdp`

### Domain

Domain allowed access.

```c
interface('polaris_cpp_htdp_dev_use',
    gen_require(
        type polaris_cpp_htdp_device_t;
    )
    write_chr_files_pattern($1, device_t, polaris_cpp_htdp_device_t)
    read_chr_files_pattern($1, device_t, polaris_cpp_htdp_device_t)
    allow $1 polaris_cpp_htdp_device_t:chr_file map;
)
```

### Summary

Allow access to `/dev/n2_device`

### Domain

Domain allowed access.

```c
interface('polaris_n2_dev_use',
    gen_require(
        type device_t;
        type polaris_n2_device_t;
    )
    write_chr_files_pattern($1, device_t, polaris_n2_device_t)
    read_chr_files_pattern($1, device_t, polaris_n2_device_t)
)
```

### Summary

Allow access to `/dev/cy2213`

### Domain

Domain allowed access.

```c
interface('polaris_cy2213_dev_use',
```
gen_require('  
  type device_t;  
  type polaris_cy2213_device_t;  
')  
write_chr_files_pattern($1, device_t, polaris_cy2213_device_t)  
read_chr_files_pattern($1, device_t, polaris_cy2213_device_t)  
')  

#  

# <summary>  
# Allow access to /dev/vega  
# </summary>  
# <param name="domain">  
# <summary>  
# Domain allowed access.  
# </summary>  
# </param>  
#  
# interface('polaris_vega_dev_use',"  
# gen_require('  
#  type device_t;  
#  type polaris_vega_device_t;  
# ')  
# write_chr_files_pattern($1, device_t, polaris_vega_device_t)  
# read_chr_files_pattern($1, device_t, polaris_vega_device_t)  
# ')

#  

# <summary>  
# Work (read, write, ioctl) with /dev/dash_fpga device  
# </summary>  
# <param name="domain">  
# <summary>  
# Domain allowed access.  
# </summary>  
# </param>  
#  
# interface('polaris_dash_dev_mcp_use',"  
# gen_require('  
#  type device_t;  
# type polaris_dash_device_t;  
# ')  
# write_chr_files_pattern($1, device_t, polaris_dash_device_t)  
# read_chr_files_pattern($1, device_t, polaris_dash_device_t)  
# allow $1 polaris_dash_device_t:chr_file map;  
# ')  

Found in path(s):
No license file was found, but licenses were detected in source scan.

dnl
April 2018, Victor Kamensky
dnl
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dnl
Crankshaft (Overlord, Utah and Fugazi) Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 3)
max_bay_map_set(`cc', `per_bay', 3)
max_bay_map_set(`fp', `per_bay', 3)

max_bay_ripc_map_set(`rp', `per_bay', 3)
max_bay_ripc_map_set(`cc', `per_bay', 3)
max_bay_ripc_map_set(`fp', `per_bay', 3)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/mcpmaps.m4
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#
# March 2017, Victor Kamensky
#
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#

policy_module(polarisiosd, 1.0);

    gen_require(
        "type polaris_iosd_t;
    ");

    #ifdef(`nyquist_platform',
    gen_require(
        "type polaris_bt_logger_iosd_mqipc_t;
    ");
    # iosd may start first and create this mqipc channel
    polaris_mqipc_create_name(polaris_iosd_t, polaris_bt_logger_iosd_mqipc_t, bt_logger_iosd)
    ");

polaris_btrace_data_manage_all(polaris_iosd_t)
polaris_chasfs_manage(polaris_iosd_t)
polaris_tdlresolve_read(polaris_iosd_t)
polaris_tdlldb_list_dirs(polaris_iosd_t)
polaris_cpld_read(polaris_iosd_t)
polaris_lua_read(polaris_iosd_t)
polaris_flashlib_read(polaris_iosd_t)
polaris_crft_data_manage_all(polaris_iosd_t)
optional_policy('
polaris_gnmib_gnoi_images_manage(polaris_iosd_t)
')
polaris_ripc_sman_ui_serv_connect(polaris_iosd_t)
polaris_db_tdlldb_dir_use(polaris_iosd_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_iosd_t)

# allow iosd read/write via hostname <>
systemd_hostnamed_manage_config(polaris_iosd_t)

# creates /etc/nets/1/resolv.conf via ip domain-name <> command
# creates /etc/nets/vrf.VRFNAME via ip vfr VRFNAME command
# creates /etc/nets/vrf.VRFNAME/resolv.conf via ip
# domain-name vrf VRFNAME <> command
gen_require(''
    type net_conf_t;
')
files_etc_filetrans(polaris_iosd_t, net_conf_t, file, "resolv.conf")
files_etc_filetrans(polaris_iosd_t, net_conf_t, file, "hosts")
files_etc_filetrans(polaris_iosd_t, net_conf_t, dir, "netns")
sysnet_manage_config(polaris_iosd_t)
sysnet_manage_config_dirs(polaris_iosd_t)

# for pluggable FS, allow iosd to access files on them.
polaris_getattr_removable(polaris_iosd_t)
polaris_removable_manage(polaris_iosd_t)
fs_read_removable_symlinks(polaris_iosd_t)

polaris_lsmpi_dev_use(polaris_iosd_t)
polaris_lsmpi_sysctl_read(polaris_iosd_t)
polaris_cfg_data_manage(polaris_iosd_t)
polaris_proc_rmonbifo_read(polaris_iosd_t)
polaris_icc_broken_relocations(polaris_iosd_t)

allow polaris_iosd_t self:capability { sys_nice chown fsetid sys_rawio dac_override dac_read_search ipc_lock }
gen_require(
    type httpd_config_t;
    type tmp_t;
)

# iosd creates /tmp/nginx.conf file
manage_files_pattern(polaris_iosd_t, tmp_t, httpd_config_t)
# transition nginx.conf into httpd_config_t
files_tmp_filetrans(polaris_iosd_t, httpd_config_t, file, "nginx.conf")
# RW access to /usr/binos/conf/nginx-conf/servers (utd feature)
manage_dirs_pattern(polaris_iosd_t, httpd_config_t, httpd_config_t)

#iosd create /tmp/nginx/cert/ca.cert
polaris_nginx_tmp_manage(polaris_iosd_t)

# !!!LOOK AT ME!!! - we allow iosd to read raw memory
# dev_read_raw_memory(polaris_iosd_t)

polaris_flashlib_write(polaris_iosd_t)
polaris_nvram_manage(polaris_iosd_t)
polaris_persistent_manage(polaris_iosd_t)

# smu management in iosd (linked in via libbcrdu.so) accesses
# files created by the installer under /tmp/patch
polaris_install_tmp_read(polaris_iosd_t)

optional_policy(
    polaris_cpp_tmp_ifdev_use(polaris_iosd_t)
    )

polaris_dyncfg_tmp_read(polaris_iosd_t)

# lsmpi_fetch_linux_ifindex tries to ioctl(skfd, SIOCGIFINDEX, &ifr) on
# non existent ethN interface, as result kernel triggers attempt to
# load kernel module that would correspond to such interface. Deny
# and don't audit iosd_t attempt to load kernel modules.
# LOOK AT ME: in long term we don't want iosd even try to load modules
# and we would actually would want to report and fail such
kernel_dontaudit_request_load_module(polaris_iosd_t)

# iosd calls nice function to change fast path priority (mcp_fastpath_thread_func)
allow polaris_iosd_t self:process setsched;

ifdef("crankshaft_family",
    ifconfig_attach_tun_iface(polaris_iosd_t)
corenent_rw_tun_tap_dev(polaris_iosd_t)
    )
ifdef(`mcp_family',
ifconfig_attach_tun_iface(polaris_iosd_t)
corenct_rw_tun_tap_dev(polaris_iosd_t)
allow polaris_iosd_t polaris_iosd_t:tun_socket relabelfrom;
')

# on ultra iosd is figuring out parameters of interfaces of underlying
# hypervisors kvm, vmware, etc. See vxe_gethd_ifdb_scan
ifdef(`crankshaft_family',
dev_rw_sysfs(polaris_iosd_t)
polaris_disk_objstore_manage(polaris_iosd_t)
')
ifdef(`vxe_family',
dev_read_sysfs(polaris_iosd_t)
polaris_disk_objstore_manage(polaris_iosd_t)
polaris_objstore_sem_use(polaris_iosd_t)
')
ifdef(`vwlc_platform',
polaris_disk_objstore_manage(polaris_iosd_t)
onlitical_policy(
    polaris_vwlc_grub_efi_use(polaris_iosd_t)
)
)
ifdef(`wlc_family',
dev_read_sysfs(polaris_iosd_t)
polaris_tls_cd_uds_manage(polaris_iosd_t)
gen_require(
    type polaris_tls_cd_t;
)
allow polaris_iosd_t polaris_tls_cd_t:unix_dgram_socket sendto;
')

# on 1ng mcpcc-lc-ms reads /sys/devices/system/cpu/online
ifdef(`mcp_family',
dev_read_sysfs(polaris_iosd_t)
')

# neptune need to figure fan type by reading
# /sys/bus/platform/devices/nios/n2h_fan_ctrl_fan_tray_status
ifdef(`neptune_platform',
dev_read_sysfs(polaris_iosd_t)
')

# radium need to figure fan type by reading
# /sys/bus/platform/devices/nios/n2h_fan_ctrl_fan_tray_status
ifdef(`radium_platform',
dev_read_sysfs(polaris_iosd_t)
')

# __get_nprocs opens /sys/devices/system/cpu/online
ifdef(`quake_platform',
dev_read_sysfs(polaris_iosd_t)
)
# __get_nprocs opens /sys/devices/system/cpu/online
ifdef('supernova_platform',
    dev_read_sysfs(polaris_iosd_t)
)

# work with /tmp/boottime, /tmp/booted files: create/write
type polaris_iosd_tmp_files_t;
files_tmp_file(polaris_iosd_tmp_files_t)
files_tmp_filetrans(polaris_iosd_t, polaris_iosd_tmp_files_t, file, "boottime")
files_tmp_filetrans(polaris_iosd_t, polaris_iosd_tmp_files_t, file, "booted")
create_files_pattern(polaris_iosd_t, polaris_iosd_tmp_files_t, polaris_iosd_tmp_files_t)

#allow polaris_iosd_t polaris_udev_tmp_files_t:dir { getattr open read search };
#allow polaris_iosd_t polaris_udev_tmp_files_t:file { open, read, write };
# LOOK AT ME (need to review write access with iosd team)
polaris_udev_tmp_manage(polaris_iosd_t)

# work with /tmp/restconf
type polaris_restconf_tmp_t;
files_tmp_file(polaris_restconf_tmp_files_t)
polaris_restconf_tmp_use(polaris_iosd_t)
files_tmp_filetrans(polaris_iosd_t, polaris_restconf_tmp_files_t, dir, "restconf")
filetrans_pattern(polaris_iosd_t, polaris_restconf_tmp_files_t, polaris_restconf_tmp_files_t, file)

# work with /tmp/netio0
files_tmp_filetrans(polaris_iosd_t, polaris_iosd_tmp_files_t, dir, "netio0")
# sockets and dirs created under /tmp/netio0
manage_dirs_pattern(polaris_iosd_t, polaris_iosd_tmp_files_t, polaris_iosd_tmp_files_t)
manage_sock_files_pattern(polaris_iosd_t, polaris_iosd_tmp_files_t, polaris_iosd_tmp_files_t)
allow polaris_iosd_t self:unix_dgram_socket create_socket_perms;

gen_require('   type inetd_child_t;
')
# sendto permission for /tmp/netio0/ttyC100
allow polaris_iosd_t inetd_child_t:unix_dgram_socket sendto;
polaris_socketat_nsfs_read(polaris_iosd_t)

# onep uses TIPC sockets see onep_tipc_transport_start
allow polaris_iosd_t self:socket { bind create listen accept getattr read ioctl getopt setopt };

# mcp_eobc_create_socket creates UDP socket for eobc
corenet_udp_bind_polaris_iosd_eobc_port(polaris_iosd_t)
gen_require('   type node_t;
allow polaris_iosd_t node_t:udp_socket node_bind;
allow polaris_iosd_t self:udp_socket { bind create ioctl setopt read write };

# direct access to serial TTY devices like /dev/ttyS1
term_use_unallocated_ttys(polaris_iosd_t)

# on ultra cvac_load_config function tried to access cdrom0:/iosxe_config.txt
# and if exists read
ifdef(`vxe_family',`
    fs_read_iso9660_files(polaris_iosd_t)
')
ifdef(`wlc_family',`
    fs_read_iso9660_files(polaris_iosd_t)
')

# ifs_get_free_bytes invokes mcp_fs_statfs and eventually mcp_wrapper_statvfs
# with "/bootflash"...this needs attr access for "/
fs_getattr_xattr_fs(polaris_iosd_t)

# iosd works with cpp /dev/shm/cpp_ifdev_shmem shared mmon
optional_policy(`
    polaris_cpp_tmpfs_ifdev_rw(polaris_iosd_t)
')

# iosd reads/writes into grubenv for confreg
optional_policy(`
    polaris_grub_efi_use(polaris_iosd_t)
')

# when /bootflash or /harddisk are 100% full
allow polaris_iosd_t self:capability sys_resource;

# mcp_set_clock wants to call settimeofday
allow polaris_iosd_t self:capability sys_time;

# Need this for bluetooth to work. HCI library uses this
allow polaris_iosd_t self:capability net_raw;

ifdef(`mcp_family',`
polaris_obfl_data_read(polaris_iosd_t)
')

# iosd uses quack on mcp and crankshaft and ngwc
ifdef(`mcp_family',`
polaris_quack_dev_use(polaris_iosd_t)
')
ifdef(`crankshaft_family',`
polaris_quack_dev_use(polaris_iosd_t)
')
ifdef('ngwc_family',
polaris_quack_dev_use(polaris_iosd_t)
')
ifdef('qwlc_platform',
polaris_quack_dev_use(polaris_iosd_t)
')
ifdef('katar_platform',
polaris_quack_dev_use(polaris_iosd_t)
')

ifdef('mcp_family',
polaris_spa_dev_use(polaris_iosd_t)
polaris_sysfs_platform_dev_use(polaris_iosd_t)
')

# on 1ng write/ioctl into /dev/cpld-ha
# on vwlc ha scenario, iosd needs write access to /dev/cpld-ha
optional_policy(
polaris_cpld_dev_use(polaris_iosd_t)
')

# deals with /dev/shm files semaphors; like uuid_sem semaphore
# created by btrace_get_uuid function
type polaris_iosd_tmpfs_t;
files_tmpfs_file(polaris_iosd_tmpfs_t)
fs_tmpfs_filetrans(polaris_iosd_t, polaris_iosd_tmpfs_t, file)
manage_files_pattern(polaris_iosd_t, tmpfs_t, polaris_iosd_tmpfs_t)

optional_policy(
polaris_iodb_tmp_manage(polaris_iosd_t)
')

# on ngwc FIPS code reads /tmp/hw_entropy
# seems like iosd can delete the file as well
polaris_hw_entropy_create(polaris_iosd_t)

optional_policy(
#on macallan iosd needs to access /dev/cpld
polaris_cpld_dev_read(polaris_iosd_t)
')

# on tsn iosd needs write access to
# sys/devices/platform/cpld/reg_rp_reset_button_status
# sys/devices/platform/cpln-110-master DSR/DTR status
ifdef('crankshaft_family',

}
type polaris_quake_i2c_t;

polaris_cpld_write(polaris_iosd_t)
polaris_ggpio_dev_read_write(polaris_iosd_t)
polaris_quake_i2c_manage(polaris_iosd_t)
')

ifdef('katar_platform',
polaris_cpld_write(polaris_iosd_t)
')

# on tsn iosd needs access to /sys/devices/platform/moka_fpga
# /sys/devices/platform/moka_fpga/led_status
optional_policy('polaris_mokafpga_rw(polaris_iosd_t)
')

# iosd reads /tmp/iosd_level
polaris_lm_tmp_read(polaris_iosd_t)

# iosd needs manage_dirs, manage_files and manage_link
# permissions at "/tmp/ufs/lic0/<remote_ip>/*"
optional_policy('polaris_ncd_tmp_manage(polaris_iosd_t)
')

# access NFS mounted directories from other nodes or members
fs_getattr_nfs(polaris_iosd_t)

# mcp/mcprp/if_unix_se.c code works with /sys/devices/virtual/contdev
# files and /proc/net/dev
polaris_manage_contdev_dev(polaris_iosd_t)
kernell_read_network_state(polaris_iosd_t)

# iosd creates /tmp/iox_xml.dat file
optional_policy('polaris_iox_manage_tmp_files(polaris_iosd_t)
')
polaris_caf_var_run_files_manage(polaris_iosd_t)
container_read_lib_files(polaris_iosd_t)

# work with files like /tmp/tp/shell_exec.5B1BF1D7648E21AEE3000002

type polaris_iosd2iox_tmp_t;
files_tmp_file(polaris_iosd2iox_tmp_t)
files_tmp_filetrans(polaris_iosd2iox_tmp_t, file)
polaris_iosd2iox_tmp_manage(polaris_iosd_t)
# work with response
optional_policy(
    polaris_iox2iosd_tmp_manage(polaris_iosd_t)
)

polaris_sandbox_file_dir_list(polaris_iosd_t)

# lfts 2.0 iosd provides route information to kernel. it talks
# using generic netlink family socket. See iosd bsock_sar_netlink_process
# allow polaris_iosd_t self:netlink_generic_socket create_socket_perms;
# LOOK AT ME
# on nyquist iosd accesses files like lic0-2:/sanosync.data.readLock
# from saLockCheck function and it happens just right after lic0-2 was
# mounted over NFSv4. It seems that labels from remote node did not
# take an effect yet. For now allow access to dir and files that
# are not yet labeled.
ifdef(`nyquist_platform',`
    files_manage_isid_type_dirs(polaris_iosd_t)
    files_manage_isid_type_files(polaris_iosd_t)
  ')

ifdef(`ngwc_family',`
    polaris_getattr_filesystem_disk_ucode(polaris_iosd_t)
    #policy needed for accessing sys/bus/usb/drivers/usb/*/authorized
dev_rw_sysfs(polaris_iosd_t)
  ')

ifdef(`passport_platform',`
    polaris_cm_rp_tmp_manage(polaris_iosd_t)
  ')

polaris_lfts_dev_use(polaris_iosd_t)

# /dev/shm/vrf_shm access for show command
polaris_vrf_shm_manage(polaris_iosd_t)

# /dev/shm/sdm access
optional_policy(
    polaris_sdm_shm_manage(polaris_iosd_t)
  ')

# iosd needs access to logging facility
logging_send_syslog_msg(polaris_iosd_t)

#iosd need access to /webui/*.odm files
polaris_read_webui_files(polaris_iosd_t)
# allow getting binos networking stats AF_NETLINK
allow polaris_iosd_t self:netlink_route_socket rw_netlink_socket_perms;

# confd needs to talk with IOSd via real linux udp snmp socket
allow polaris_iosd_t self:udp_socket { create_socket_perms recv_msg send_msg };  
corenetsudpbindsnmp_port(polaris_iosd_t)

# PLEASE LOOK AT code should not use sysv IPC ARIs,
# instead POSIX variants must be used. Remove after
# code changed in proper way
# allow access sysv semaphor created by qfp process
ifdef(`vxe_family',`
polaris_qfp_sem_use(polaris_iosd_t)
')
ifdef(`wlcfamily',`
polaris_qfp_sem_use(polaris_iosd_t)
ifconfigattach tun iface(polaris_iosd_t)
corenetsrwtuntapdev(polaris_iosd_t)
')

# lsmpi replacement punt/inject over domain sockets
ifdef(`vxe_family',`
polaris_pi uds manage(polaris_iosd_t)
polaris_qfp dgram send(polaris_iosd_t)
corenetsrwtuntapdev(polaris_iosd_t)
ifconfigattach tun iface(polaris_iosd_t)
')

# CSR when operating in VGA mode uses /dev/tty0 as the console for the system
# (including IOSD). IOSD setup scripts pass in the tty device(s) to use in the
# REAL_CONSOLE and REAL_AUX environment variables. IOSD configures the tty
# for its operation and hence need the capability.
allow polaris_iosd_t self:capability sys tty config;

# LOOK AT ME: hot patch upon a reboot requires execmem operation - which
# currently is not allowed. Remove the following policy when CSCv59763
# has been completed.
allow polaris_iosd_t self:process execmem;

# /dev/epaN on qwlc/asr1k(mcp)
optional_policy(`
polaris epa dev use(polaris_iosd_t)
')

# /dev/qae_mem device access on overlord
optional_policy(`
polaris qae dev use(polaris_iosd_t)
')
# ioucon binary invoked on standby console attach.
polaris_ioucon_dgram_send(polaris_iosd_t)

# usb device requires read permissions.
kernell_read_debugfs(polaris_iosd_t)

# iosd requires access to /tmp/sv
ifdef(`ngwc_family`,
polaris_sv_tmp_use(polaris_iosd_t)
ifconfig_attach_tun_iface(polaris_iosd_t)
corenet_rw_tun_tap_dev(polaris_iosd_t)
')

polaris_i2c_use(polaris_iosd_t)

# on CSR AWS deployment iosd needs read access to /dev/console
term_read_console(polaris_iosd_t)

# On vxe platforms the cloudint config is stored in /varied. We need # to be able to read it.
ifdef(`vxe_family`,
polaris_disk_varied_read(polaris_iosd_t)
')

# In stacked and ha setup secondary SUP bootflash and hardisk # are mounted on active and is accessed by iosd.
polaris_getattr_bootflash(polaris_iosd_t)
polaris_getattr_harddisk(polaris_iosd_t)

# read access to /dev/random
dev_read_rand(polaris_iosd_t)

# Allow access of /tmp/maroon_stats files
polaris_maroon_data_manage_all(polaris_iosd_t)

#access to /dev/bp_async device on nanook platform
optional_policy(
polaris_bp_async_dev_use(polaris_iosd_t)
')

#Permission for access file attribute to list the file info
polaris_caf_tmp_files_getattr(polaris_iosd_t)

#DB persistence
polaris_tdldbpersist_setup(polaris_iosd_t)
polaris_tmp_tdldb_persist_setup(polaris_iosd_t)
# IOSCC needs access to /mnt/firmware for intelligent spa during bootup
polaris_firmware_read(polaris_iosd_t)

# On Sparrow platform: IOSd requires access to /dev/remap_mem0
# and /dev/usb.Console for OOB management
# Also allows access to /dev/sparrow_psu and /dev/net/tun
# /dev/shm/sem._dev_i2c_0 sempahor
ifdef(`sparrow_platform',`
    gen_require(`
        type polaris_cm_cc_tmpfs_t;
    `)
polaris_remap_mem_dev_use(polaris_iosd_t)
term_use_usb_ttys(polaris_iosd_t)
polaris_sparrow_psu_dev_use(polaris_iosd_t)
polaris_i2c_sem_manage(polaris_iosd_t)
ifconfig_attach_tun_iface(polaris_iosd_t)
corenet_rw_tun_tap_dev(polaris_iosd_t)
mmap_files_pattern(polaris_iosd_t, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
`')

# On Blackheart platform: /dev/shm/sem._dev_i2c_0 sempahor
# Allow access to /tmp/udev/etc/udev/msata/udev-info and /dev/net/tun
# Allow access to /dev/remap_mem0 for alarm port
ifdef(`blackheart_platform',`
    gen_require(`
        type polaris_cm_cc_tmpfs_t;
    `)
polaris_udev_access(polaris_iosd_t)
polaris_remap_mem_dev_use(polaris_iosd_t)
polaris_i2c_sem_manage(polaris_iosd_t)
ifconfig_attach_tun_iface(polaris_iosd_t)
corenet_rw_tun_tap_dev(polaris_iosd_t)
mmap_files_pattern(polaris_iosd_t, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
`')

# handle /tmp/rp/.iosp_client_app token
type polaris_iosp_client_app_token_t;
files_tmp_file(polaris_iosp_client_app_token_t)
files_tmp_filetrans(polaris_iosd_t, polaris_iosp_client_app_token_t, file, ".iosp_client_app")
manage_files_pattern(polaris_iosd_t, polaris_iosp_client_app_token_t, polaris_iosp_client_app_token_t)

# handle /tmp/rp/.iosp_client_dmi token
type polaris_iosp_client_dmi_token_t;
files_tmp_file(polaris_iosp_client_dmi_token_t)
files_tmp_filetrans(polaris_iosd_t, polaris_iosp_client_dmi_token_t, file, ".iosp_client_dmi")
manage_files_pattern(polaris_iosd_t, polaris_iosp_client_dmi_token_t, polaris_iosp_client_dmi_token_t)
# handle /tmp/rp/.iosp_dmiauthd token
type polaris_dmiauthd_token_t;
files_tmp_file(polaris_dmiauthd_token_t)
files_tmp_filetrans(polaris_iosd_t, polaris_dmiauthd_token_t, file, ".iosp_dmiauthd")
manage_files_pattern(polaris_iosd_t, polaris_dmiauthd_token_t, polaris_dmiauthd_token_t)

# handle /tmp/rp/.iosp_gnmib token
type polaris_gnmib_token_t;
files_tmp_file(polaris_gnmib_token_t)
files_tmp_filetrans(polaris_iosd_t, polaris_gnmib_token_t, file, ".iosp_gnmib")
manage_files_pattern(polaris_iosd_t, polaris_gnmib_token_t, polaris_gnmib_token_t)

polaris_udev_tmp_watch(polaris_iosd_t)

# Interfaces needed for Aventus platform, allow access to
# /dev/shm/sem_.dev_i2c_0 sempahor
# /dev/usb_console for OOB management
# /dev/net/tun
# brctl process needs access to fifo_file
ifdef(`aventus_platform',`
gen_require(`
    type brctl_t;
    type polaris_pman_t;
    type polaris_cm_cc_tmpfs_t;
    type ifconfig_t;
    type polaris_i2c_device_t;
')
polaris_i2c_sem_manage(polaris_iosd_t)
ifconfig_attach_tun_iface(polaris_iosd_t)
corenet_rw_tun_tap_dev(polaris_iosd_t)
term_use_usb_ttys(polaris_iosd_t)
allow brctl_t polaris_pman_t:fifo_file append;
mmap_files_pattern(polaris_iosd_t, polaris_cm_cc_tmpfs_t, polaris_cm_cm_cmfs_t)
allow ifconfig_t polaris_i2c_device_t:chr_file { read write ;}
')

# allow access and modify files in /tftp/inv directory
# TODO Need to revisit this for further analysis
ifdef(`mcp_family',`
gen_require(`
    type tftpdir_rw_t;
')
read_files_pattern(polaris_iosd_t, tftpdir_rw_t, tftpdir_rw_t)
')

#allow access and modify awips file in /bootflash
gen_require(`
type polaris_awips_signature_file_t;

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filetrans_pattern(polaris_iosd_t, polaris_disk_bootflash_t, polaris_awips_signature_file_t, file, "awips.json")
allow polaris_iosd_t polaris_awips_signature_file_t;file { write create read open getattr unlink};

# handle geodb file access
type polaris_geodb_files_t;
polaris_disk_type(polaris_geodb_files_t)
filetrans_pattern(polaris_iosd_t, polaris_disk_bootflash_t, polaris_geodb_files_t, dir, ".geo")
filetrans_pattern(polaris_iosd_t, polaris_disk_harddisk_t, polaris_geodb_files_t, dir, ".geo")
polaris_geodb_files_manage(polaris_iosd_t)

# handle /var/ip_local_port_range
type polaris_ip_linux_port_var_t;
files_tmp_file(polaris_ip_linux_port_var_t)
files_var_filetrans(polaris_iosd_t, polaris_ip_linux_port_var_t, file, "ip_local_port_range")

# linux_iosd-imag access to file /var/ip_local_port_range
manage_files_pattern(polaris_iosd_t, var_t, polaris_ip_linux_port_var_t)

# Allow access to /bootflash/certs
polaris_wlc_ap_cert_manage(polaris_iosd_t)

# commad "ls" on /var/ip_local_port_range
gen_require(
    type polaris_shell_t;
)
allow polaris_shell_t polaris_ip_linux_port_var_t;file getattr;

# handling /boot/vcpu_template.txt or /csl_p_0/vcpu_template.txt file
# created by iosd by platform resource config command
type polaris_iosd_vcpu_t;
files_type(polaris_iosd_vcpu_t)
gen_require(
    type polaris_disk_csl_p_t;
    type polaris_disk_varied_t;
)
filetrans_pattern(polaris_iosd_t, { polaris_disk_csl_p_t polaris_disk_varied_t }, polaris_iosd_vcpu_t, file,
    "vcpu_template.txt")
manage_files_pattern(polaris_iosd_t, { polaris_disk_csl_p_t polaris_disk_varied_t }, polaris_iosd_vcpu_t)

# allow open/read/search cgroup files like /sys/fs/cgroup/cpu,cpuacct/machine
fs_read_cgroup_files(polaris_iosd_t)
fs_search_cgroup_dirs(polaris_iosd_t)

# for Dynamic Core Allocation IOSd needs write access to cpu sets/shares
ifdef(\crankshaft_family',
fs_write_cgroup_files(polaris_iosd_t)
)
# sdwan_admintech_generate() creates admintech and admintech_trace files

```c
    type polaris_admin_tech_data_t;

    )
```

```c
polaris_bootflash_filetrans(polaris_iosd_t, polaris_admin_tech_data_t, file, "admintech")
polaris_bootflash_filetrans(polaris_iosd_t, polaris_admin_tech_data_t, file, "admintech_trace")
filetrans_pattern(polaris_iosd_t, polaris_chafapfs_t, polaris_admin_tech_data_t, file, "ios_admintech_done")
filetrans_pattern(polaris_iosd_t, polaris_chafapfs_t, polaris_admin_tech_data_t, file, "ios_admintech_request")
polaris_admin_tech_data_manage(polaris_iosd_t)
```

```c
    # with "/bootflash"...this needs attr to access for logfile
    polaris_user_file_getattr(polaris_iosd_t)
    allow polaris_iosd_t polaris_user_file_t:file { open unlink };
```

```c
    # petra platform
    ifdef("petra_platform",
```

```c
    # iods need access to petra fpga
    polaris_iots_fpga_dev_use(polaris_iosd_t)
    # iods need access to memory devices
    polaris_iots_mem_dev_use(polaris_iosd_t)
    # allow map permission for /dev/shm/TM_A53_APIS
    allow polaris_iosd_t polaris_iosd_tmpfs_t:file map;
    # allow access to polaris_cm_rp_t sem
    polaris_cm_rp_sem_use(polaris_iosd_t)
    # allow access to userio
    dev_rw_userio_dev(polaris_iosd_t)
    allow polaris_iosd_t userio_device_t:chr_file { map };
    # iods need access to sysfs
    dev_rw_sysfs(polaris_iosd_t)
    allow polaris_iosd_t sysfs_t:file { create map };
    dev_manage_sysfs_dirs(polaris_iosd_t)
    # iods need access to sdflash files image is stored
    polaris_swipedrive_file_manage(polaris_iosd_t)
    polaris_getattr_swipedrive(polaris_iosd_t)
    # iods need access to mmcbk0p3
    gen_require("
        type polaris_disk_recovery_t;
    ")
    allow polaris_iosd_t polaris_disk_recovery_t:filesystem getattr;
    # iods need access to mmcbk0p2
    polaris_getattr_filesystem_disk_ucode(polaris_iosd_t)
    # iods need access to /dev/mvDmaDrv
    polaris_mvdmaDrv_dev_use(polaris_iosd_t)
    # iods need access to /dev/mvIntDrv
    polaris_mvIntDrv_dev_use(polaris_iosd_t)
    # iods need permission for LED
    polaris_led_dev_use(polaris_iosd_t)
    # iods need access to rawip socket by initscripts/rc.d/init.d/iptables
    allow polaris_iosd_t self:rawip_socket create_socket_perms;
# iosd needs access to /opt/cisco/caf/config/system-config.ini
polaris_caf_files_read(polaris_iosd_t)

# iosd need permission to /dev/rtc0 done via imsp_update_sw_hwclock()
dev_rw_realtime_clock(polaris_iosd_t)
)

# work with /tmp/usb-disable: create/write
type polaris_iosd_usb_disable_tmp_t;
files_tmp_file(polaris_iosd_usb_disable_tmp_t);
polaris_iosd_usb_disable_tmp_manage(polaris_iosd_t)

ifdef(`ngwc_family',`

# SELINUX Mismatch warning when doing power redundancy configuration commands
# Allow access /bootflash/nplusm-power
polaris_nplusm_power_manage(polaris_iosd_t)
)

optional_policy(

polaris_efi_files_list_dirs(polaris_iosd_t)
)

# work with /dev/shm/mq.-iosd_to_timingd
type polaris_iosd_timing_mqipc_t;
polaris_mqipc_type(polaris_iosd_timing_mqipc_t)

polaris_mqipc_create_name(polaris_iosd_t, polaris_iosd_timing_mqipc_t, iosd_to_timingd)

# watch /tmp
allow polaris_iosd_t tmp_t:dir watch;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiosd.te
No license file was found, but licenses were detected in source scan.

#
# January 2018, Manohar Hungund
#
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#
## <summary>Polaris oct_dp_log_rp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiosd.te
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
## <summary>Polaris cedge Policy Rules.</summary>

### interface('polaris_cedge_xml_tmp_manage',
  
  gen_require(
    type polaris_cedge_xml_tmp_t;
  )
  manage_dirs_pattern($1, polaris_cedge_xml_tmp_t, polaris_cedge_xml_tmp_t)
  manage_files_pattern($1, polaris_cedge_xml_tmp_t, polaris_cedge_xml_tmp_t)
  files_tmp_filetrans($1, polaris_cedge_xml_tmp_t, dir, "xml")
  allow $1 polaris_cedge_xml_tmp_t:dir { watch mounton };
  allow $1 polaris_cedge_xml_tmp_t:file map;

)

## <summary>Manage /tmp/xml files and directories</summary>

### interface('polaris_cedge_tmp_manage',
  
  gen_require(
    type polaris_cedge_tmp_t;
  )
  manage_dirs_pattern($1, polaris_cedge_tmp_t, polaris_cedge_tmp_t)
  manage_files_pattern($1, polaris_cedge_tmp_t, polaris_cedge_tmp_t)
  files_tmp_filetrans($1, polaris_cedge_xml_tmp_t, dir, "xml")
  allow $1 polaris_cedge_xml_tmp_t:dir { watch mounton };
  allow $1 polaris_cedge_xml_tmp_t:file map;

)
## <summary>
## Manage /etc/viptela files and directories
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_cedge_etc_manage',`
    gen_require('`
        type polaris_cedge_etc_t;
    `);
    manage_dirs_pattern($1, polaris_cedge_etc_t, polaris_cedge_etc_t)
    manage_files_pattern($1, polaris_cedge_etc_t, polaris_cedge_etc_t)
    manage_lnk_files_pattern($1, polaris_cedge_etc_t, polaris_cedge_etc_t)
    files_etc_filetrans($1, polaris_cedge_etc_t, dir, "viptela")
`)

## <summary>
## Read /etc/viptela files and directories
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_cedge_etc_read',`
    gen_require('`
        type polaris_cedge_etc_t;
    `);
    search_dirs_pattern($1, polaris_cedge_etc_t, polaris_cedge_etc_t)
    read_files_pattern($1, polaris_cedge_etc_t, polaris_cedge_etc_t)
    read_lnk_files_pattern($1, polaris_cedge_etc_t, polaris_cedge_etc_t)
    files_etc_filetrans($1, polaris_cedge_etc_t, dir, "viptela")
`)

## <summary>
## Watch cedge_etc directories and files
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
interface("polaris_cedge_etc_watch",
    gen_require(
        type polaris_cedge_etc_t;
    )
    allow $1 polaris_cedge_etc_t:{ dir file } watch;
')

######################################
## <summary>
##      Read access /var/run/netns/* performed from vip_util_set_ns
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface("polaris_cedge_set_ns",
    init_read_state($1)
    fs_read_nsfs_files($1)
    sysnet_manage_ifconfig_run($1)
')

######################################
## <summary>
##      Read access /proc/1/ns/net performed from vip_util_reset_ns
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface("polaris_cedge_reset_ns",
    init_read_state($1)
')

######################################
## <summary>
##      Manage /dev/shm viptela files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
interface('polaris_cedge_tmpfs_manage',
    gen_require('type polaris_cedge_tmpfs_t;
    type tmpfs_t;
    )
    fs_tmpfs_filetrans($1, polaris_cedge_tmpfs_t, file)
    manage_files_pattern($1, tmpfs_t, polaris_cedge_tmpfs_t)
    allow $1 polaris_cedge_tmpfs_t:file map;
')

interface('polaris_econfd2sysmgr_tmp_manage',
    gen_require('type polaris_econfd2sysmgr_tmp_t;
    )
    manage_dirs_pattern($1, polaris_econfd2sysmgr_tmp_t, polaris_econfd2sysmgr_tmp_t)
    manage_files_pattern($1, polaris_econfd2sysmgr_tmp_t, polaris_econfd2sysmgr_tmp_t)
    files_tmp_filetrans($1, polaris_econfd2sysmgr_tmp_t, dir, ".econfd2sysmgr-ipc")
    allow $1 polaris_econfd2sysmgr_tmp_t:dir watch;
')

interface('polaris_vconfd_cert_tmp_manage',
    gen_require('type polaris_vconfd_cert_tmp_t;
    )
    manage_dirs_pattern($1, polaris_vconfd_cert_tmp_t, polaris_vconfd_cert_tmp_t)
    manage_files_pattern($1, polaris_vconfd_cert_tmp_t, polaris_vconfd_cert_tmp_t)
    files_tmp_filetrans($1, polaris_vconfd_cert_tmp_t, dir, ".vconfd_cert_tmp")
    allow $1 polaris_vconfd_cert_tmp_t:dir watch;
')
manage_dirs_pattern($1, polaris_vconfd_cert_tmp_t, polaris_vconfd_cert_tmp_t)
manage_files_pattern($1, polaris_vconfd_cert_tmp_t, polaris_vconfd_cert_tmp_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscedge.if
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#
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#
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#

## <summary>Polis cpp_driver Policy Rules.</summary>

########################################
## <summary>
##      Allow access to semaphore with type polaris_cpp_driver_t
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_cpp_driver_sem_use',
    gen_require(
        type polaris_cpp_driver_t;
    )
    allow $1 polaris_cpp_driver_t:sem rw_sem_perms;
')

########################################
## <summary>
##      Allow access to shared memory with type polaris_cpp_driver_t
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_cpp_driver_shm_use',
    gen_require(
        type polaris_cpp_driver_t;
    )
)
allow $1 polaris_cct_driver_t:shm rw_shm_perms;
')

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppdriver.if
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#

## <summary>Polaris polarisautoupgrade Policy Rules.</summary>

####################################
## <summary>
##     Execute auto-upgrade scripts in their own domain
## </summary>
## <param name="domain">
##     <summary>
##     Domain allowed access.
##     </summary>
## </param>

interface('polaris_autoupgrade_domtrans',
    gen_require(
        type polaris_autoupgrade_t;
        type polaris_autoupgrade_exec_t;
    )
    domtrans_pattern($1, polaris_autoupgrade_exec_t, polaris_autoupgrade_t)
)

####################################
## <summary>
##     Manage tmp files created by autoupgrade.
## </summary>
## <param name="domain">
##     <summary>
##     Domain allowed access.
##     </summary>
## </param>

interface('polaris_autoupgrade_tmp_manage',

gen_require(
    type polaris_autoupgrade_tmp_t;
')

manage_files_pattern($1, polaris_autoupgrade_tmp_t, polaris_autoupgrade_tmp_t)
manage_lnk_files_pattern($1, polaris_autoupgrade_tmp_t, polaris_autoupgrade_tmp_t)
manage_fifo_files_pattern($1, polaris_autoupgrade_tmp_t, polaris_autoupgrade_tmp_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisautoupgrade.if
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#
# October 2019, Patrick O'Halloran
#
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#
## <summary>Polaris CRFT Policy Rules.</summary>
#
### <summary>CRFT policy</summary>

## <summary>Allow read-only access to CRFT generated files</summary>
## <param name="domain">
##   Domain allowed access.
## </param>
## <param name="file_type">
##   File type of crft that corresponds to given domain.
## </param>
## <rolebase/>
#
interface('polaris_crf_t_data_read',
    gen_require(' type polaris_crf_t_data_t;
    type polaris_crf_t_request_t;
    type polaris_crf_t_request_crf_t;
    ')
read_lnk_files_pattern($1, polaris_crft_data_t, polaris_crft_data_t)
polaris_disk_bootflash_read_lnk($1)
polaris_disk_hddisk_read_lnk($1)
read_files_pattern($1, polaris_crft_request_crft_t, polaris_crft_request_crft_t)
allow $1 polaris_crft_request_t:fifo_file { ioctl write };
')

#<summary>
# Manage crft persistent files
#</summary>
manage_dirs_pattern($1, polaris_crft_data_t, polaris_crft_data_t)
manage_lnk_files_pattern($1, polaris_crft_data_t, polaris_crft_data_t)
manage_files_pattern($1, polaris_crft_data_t, polaris_crft_data_t)
# Note: Based on dicussion with SElinux team, we need to call this
# out specifically here for lnk file access, as:
# - NGWC /harddisk -(symlink)-> /misc/scratch -(symlink)-> /mnt/sda3/user
polaris_disk_bootflash_read_lnk($1)
polaris_disk_hddisk_read_lnk($1)
allow $1 polaris_crft_data_t:file map;
')

#<summary>
# Manage crft files
#</summary>
manage_lnk_files_pattern($1, polaris_crft_data_t, polaris_crft_data_t)
manage_files_pattern($1, polaris_crft_data_t, polaris_crft_data_t)
# out specifically here for lnk file access, as:
# - NGWC /harddisk -(symlink)-> /misc/scratch -(symlink)-> /mnt/sda3/user
polaris_disk_bootflash_read_lnk($1)
polaris_disk_hddisk_read_lnk($1)
allow $1 polaris_crft_data_t:file map;
')
gen_require(' 
    attribute polaris_crft_data_domain;  
    type polaris_crft_data_t;  
  ')

manage_files_pattern($1, polaris_crft_data_t, polaris_crft_data_domain)  
manage_lnk_files_pattern($1, polaris_crft_data_t, polaris_crft_data_domain)  
allow $1 polaris_crft_data_domain:file map;
')

##########################################################################  
## <summary>  
## Make the specified type usable as crft data file type.  
## </summary>  
## <param name="type">  
## Type to be used for files.  
## </param>  
## </summary>  
## <param>  
#  
interface('polaris_crft_data_type',  
   files_type($1)  
   polaris_pfile_type($1)  
   gen_require('  
       attribute polaris_crft_data_domain;  
   ')  
   typeattribute $1 polaris_crft_data_domain;  
')

##########################################################################  
## <summary>  
## Process to manage its own crft files  
## </summary>  
## <param name="domain">  
## Domain allowed access.  
## </param>  
## <param name="file_type">  
## File type of crft that corresponds to given domain.  
## </param>  
## </summary>  
## <rolebase/>  
#  
interface('polaris_crft_data_client',  
   gen_require('
type polaris_crft_data_t;
')

manage_dirs_pattern($1, polaris_crft_data_t, $2)
manage_files_pattern($1, polaris_crft_data_t, $2)
manage_link_files_pattern($1, polaris_crft_data_t, $2)
filetrans_pattern($1, polaris_crft_data_t, $2, file)
allow $1 $2:file map;
')

#######################################
## <summary>
##      Process to manage its own crft files
## </summary>
## <param name="domain_stem">
##      <summary>
##      Stream of domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface('polaris_crft_data_client_template',
  gen_require(
      attribute polaris_crft_data_domain;
      type polaris_crft_data_t;
  )
)

type polaris_$1_crft_t;
polaris_crft_data_type(polaris_$1_crft_t)
polaris_crft_data_client(polaris_$1_t, polaris_$1_crft_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscrft.if
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#
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#
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#
/usr/cpp/bin/cpp_ha_top_level_server -- gen_context(system_u:object_r:polaris_cpp_ha_exec_t,s0)
/usr/cpp/bin/cpp_ha_top_level_server_ledp -- gen_context(system_u:object_r:polaris_cpp_ha_exec_t,s0)
/usr/cpp/bin/cpp_ha_top_level_server_us_ledp -- gen_context(system_u:object_r:polaris_cpp_ha_exec_t,s0)
/usr/cpp/bin/cpp_ha_top_level_server_vvclc -- gen_context(system_u:object_r:polaris_cpp_ha_exec_t,s0)
/usr/cpp/bin/cpp_ha_top_level_server_vwlec -- gen_context(system_u:object_r:polaris_cpp_ha_exec_t,s0)
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Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppha.fc
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#
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#
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#

policy_module(polariscfg, 1.0);

##############################################################################
# Cfg files policy
##############################################################################

type polaris_cfg_data_t;
files_type(polaris_cfg_data_t)

gen_require(',
    attribute polaris_extended_domain;
')

files_tmp_filetrans(polaris_extended_domain, polaris_cfg_data_t, dir, "cfg")

##############################################################################
# cfg_sync.sh policy
##############################################################################

polaris_utility_domain_template(cfg_sync)

polaris_bexecute_domain(polaris_cfg_sync_t, polaris_cfg_sync_exec_t)
polaris_boot_tmp_read(polaris_cfg_sync_t)
polaris_btrace_data_manage(polaris_cfg_sync_t)
polaris_chasfs_read(polaris_cfg_sync_t)
polaris_cpld_read(polaris_cfg_sync_t)
polaris_use_btrace_fifo(polaris_cfg_sync_t)
corecmd_exec_bin(polaris_cfg_sync_t)
auth_use_nsswitch(polaris_cfg_sync_t)
polaris_bootflash_read(polaris_cfg_sync_t)
polaris_nvram_manage(polaris_cfg_sync_t)
telnet_use_ptys(polaris_cfg_sync_t)
gen_require("
    type rsync_t;
")
rsync_entry_domtrans(polaris_cfg_sync_t, rsync_t)
allow rsync_t polaris_cfg_sync_t:process sigchld;
# file descriptor leak when rsync is called
allow rsync_t polaris_cfg_sync_t:fifo_file { write getattr };
logging_send_syslog_msg(polaris_cfg_sync_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscfg.te
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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl
# polarisvxeipcbaseauto file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_base_fc.m4
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#
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#

## <summary>Polaris cm_fp Policy Rules.</summary>

########################################
##
##	Execute cmand_fp in the polaris_cm_fp_t domain.
##
##</summary>
## <param name="domain">
##
## Domain allowed to transition.
##</param>
#
interface("polaris_cm_fp_domtrans",
gen_require("
    type polaris_cm_fp_t, polaris_cm_fp_exec_t;"
corecmd_search_bin($1)
domtrans_pattern($1, polaris_cm_fp_exec_t, polaris_cm_fp_t)
"

#################################################################
## <summary>
##      Allow the specified domain to manage cm_fp_tmp files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_cm_fp_tmp_manage',`
   gen_require(`
      type polaris_cm_fp_tmp_t;
      type tmp_t;
   `)
    
    manage_files_pattern($1, { polaris_cm_fp_tmp_t tmp_t }, polaris_cm_fp_tmp_t)
"

#################################################################
## <summary>
##      Create objects in /tmp with a polaris_cm_fp_tmp_t
##      type using a type_transition.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_cm_fp_tmp_filetrans',`
   gen_require(`
      type polaris_cm_fp_tmp_t;
   `)
    
    files_tmp_filetrans($1, polaris_cm_fp_tmp_t, file, "octeon-remote-lock-pci:0")
"

#################################################################
## <summary>
##      Allow access to semaphore with type polaris_cm_fp_t
## </summary>
## <param name="domain">

## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface(`polaris_cm_fp_sem_use',`
    gen_require(`
        type polaris_cm_fp_t;
    `)
    allow $1 polaris_cm_fp_t:sem rw_sem_perms;
`)

########################################
## <summary>
## Allow access to shared memory with type polaris_cm_fp_t
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface(`polaris_cm_fp_shm_use',`
    gen_require(`
        type polaris_cm_fp_t;
    `)
    allow $1 polaris_cm_fp_t:shm rw_shm_perms;
`)

########################################
## <summary>
## Allow access to /dev/hkp with type polaris_cm_fp_t
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface(`polaris_hkp_dev_use',`
    gen_require(`
        type device_t;
        type polaris_hkp_device_t;
    `)
    write_chr_files_pattern($1, device_t, polaris_hkp_device_t)
    read_chr_files_pattern($1, device_t, polaris_hkp_device_t)
`)

---

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# August 2017, Shawn Lu
#
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#
# polarisifmgr file contexts place holder

# August 2017, Victor Kamensky
#
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#

## <summary>Polaris crankshaft Platform Policy Rules.</summary>

###################################################################
## <summary>
## Work (read, write, ioctl) with /dev/linux-(user|kernel)-bde devices
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## </summary>
#
interface(`polaris_bde_dev_use',`
  gen_require(`
    type device_t;
    type polaris_bde_device_t;
  `)
  write_chr_files_pattern($1, device_t, polaris_bde_device_t)
  read_chr_files_pattern($1, device_t, polaris_bde_device_t)
  allow $1 polaris_bde_device_t:chr_file map;
)`

###################################################################
## Work (read, write, ioctl) with /dev/dash_fpga device
## <summary>
## <param name="domain">
## Domain allowed access.
## </summary>

interface('polaris_dash_dev_use',
  gen_require(
    type device_t;
    type polaris_dash_device_t;
  )
  write_chr_files_pattern($1, device_t, polaris_dash_device_t)
  read_chr_files_pattern($1, device_t, polaris_dash_device_t)
  allow $1 polaris_dash_device_t:chr_file map;
')

## Work (read, write, ioctl) with /dev/huron_fpga device
## <summary>
## <param name="domain">
## Domain allowed access.
## </summary>

interface('polaris_huron_dev_use',
  gen_require(
    type device_t;
    type polaris_huron_device_t;
  )
  write_chr_files_pattern($1, device_t, polaris_huron_device_t)
  read_chr_files_pattern($1, device_t, polaris_huron_device_t)
  allow $1 polaris_huron_device_t:chr_file map;
')

## Work (read, write, ioctl) with /dev/dplr_sumatra
## <summary>
## <param name="domain">
## Domain allowed access.
## </summary>

#
interface('polaris_sumatra_doppler_dev_use',
  gen_require(
    type device_t;
    type polaris_sumatra_doppler_device_t;
  )
  write_chr_files_pattern($1, device_t, polaris_sumatra_doppler_device_t)
  read_chr_files_pattern($1, device_t, polaris_sumatra_doppler_device_t)
  allow $1 polaris_sumatra_doppler_device_t:chr_file map;
)

# Work (open, read, write, ioctl) with /dev/sirius_fpga device
## Domain allowed access.
## <param name="domain">## <summary>## <summary>## <summary>## <summary>## <summary>
# interface('polaris_sirius_fpga_dev_use',
  gen_require(
    type device_t;
    type polaris_siriusfpga_device_t;
  )
  rw_chr_files_pattern($1, device_t, polaris_siriusfpga_device_t);
)

# Work (read, write, ioctl) with /dev/nios device
## Domain allowed access.
## <param name="domain">## <param name="domain">## <param name="domain">## <param name="domain">## <param name="domain">
# interface('polaris_nios_dev_use',
  gen_require(
    type device_t;
    type polaris_nios_device_t;
  )
  write_chr_files_pattern($1, device_t, polaris_nios_device_t)
  read_chr_files_pattern($1, device_t, polaris_nios_device_t)
)

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## <summary>
## Work (read, write, ioctl) with /dev/qae_mem device
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_qae_dev_use`,
gen_require(`
  type device_t;
type polaris_qae_device_t;
`)write_chr_files_pattern($1, device_t, polaris_qae_device_t)
  read_chr_files_pattern($1, device_t, polaris_qae_device_t)
`)

####################################
## <summary>
## Read mokafpga files in /sys/devices/platform directory
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_mokafpga_read`,
gen_require(`
  type polaris_sysfs_mokafpga_t;
type sysfs_t;
`)read_files_pattern($1, polaris_sysfs_mokafpga_t, polaris_sysfs_mokafpga_t)
  list_dirs_pattern($1, polaris_sysfs_mokafpga_t, polaris_sysfs_mokafpga_t)
`)

####################################
## <summary>
## Read/Write mokafpga files in /sys/devices/platform directory
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_mokafpga_rw`,

---

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gen_require(
  type polaris_sysfs_mokafpga_t;
  type sysfs_t;
)

rw_files_pattern($1, polaris_sysfs_mokafpga_t, polaris_sysfs_mokafpga_t)
list_dirs_pattern($1, polaris_sysfs_mokafpga_t, polaris_sysfs_mokafpga_t)

####################################
## <summary>
##      Work (read, write, ioctl) with /dev/moka_fpga
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_mokafpga_dev_use',`
  gen_require(
    type device_t;
    type polaris_mokafpga_device_t;
  )
  write_chr_files_pattern($1, device_t, polaris_mokafpga_device_t)
  read_chr_files_pattern($1, device_t, polaris_mokafpga_device_t)
')

####################################
## <summary>
##      Work (read, write, ioctl) with /dev/nim_dm_0_1 and
## /dev/nim_dm devices
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_nim_dm_dev_use',`
  gen_require(
    type device_t;
    type polaris_nim_dm_device_t;
  )
  write_chr_files_pattern($1, device_t, polaris_nim_dm_device_t)
  read_chr_files_pattern($1, device_t, polaris_nim_dm_device_t)
  allow $1 polaris_nim_dm_device_t:chr_file map;
  allow $1 device_t:chr_file map;
')
## <summary>
## Execute a domain transition to run load_usbnet.sh.
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </param>
#
interface(`polaris_load_usbnet_domtrans',`
    gen_require(`
        type polaris_load_usbnet_t, polaris_load_usbnet_exec_t;
    `)
)

domtrans_pattern($1, polaris_load_usbnet_exec_t, polaris_load_usbnet_t)
`)

## <summary>
## Label and allow access to i2c semaphore files.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_i2c_sem_manage',`
    gen_require(`
        type tmpfs_t;
        type polaris_cm_cc_tmpfs_t;
    `)
)
manage_files_pattern($1, tmpfs_t, polaris_cm_cc_tmpfs_t)
mmap_files_pattern($1, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
`)

## <summary>
## Work (read, write, ioctl) with /dev/bp_async device
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
interface('polaris_bp_async_dev_use',
    gen_require('  
        type device_t;
        type polaris_bp_async_device_t;
    ')
    write_chr_files_pattern($1, device_t, polaris_bp_async_device_t)
    read_chr_files_pattern($1, device_t, polaris_bp_async_device_t)
    allow $1 polaris_bp_async_device_t:chr_file map;
    ')

*****************************************************************************
## <summary>
##      Label and allow access to i2c semaphore files.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </summary>
## </param>
#
interface('polaris_udev_access',
    gen_require('  
        type tmpfs_t;
        type polaris_udev_tmp_files_t;
    ')
    manage_files_pattern($1, tmpfs_t, polaris_udev_tmp_files_t)
    ')

*****************************************************************************
## <summary>
## Work (read, write, ioctl) with /dev/sparrow_psu device
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </summary>
## </param>
#
interface('polaris_sparrow_psu_dev_use',
    gen_require('  
        type device_t;
        type polaris_sparrow_psu_device_t;
    ')
    write_chr_files_pattern($1, device_t, polaris_sparrow_psu_device_t)
    read_chr_files_pattern($1, device_t, polaris_sparrow_psu_device_t)
    ')

*****************************************************************************
## Work (read, write, ioctl) with /dev/nutella_fpga device

### Domain allowed access.

```c
interface('polaris_nutella_fpga_dev_use',
gen_require(
    type device_t;
    type polaris_nutella_fpga_device_t;
)
write_chr_files_pattern($1, device_t, polaris_nutella_fpga_device_t)
read_chr_files_pattern($1, device_t, polaris_nutella_fpga_device_t)
)
```

---

## Read and write to qcqmi devices.

### Domain allowed access.

```c
interface('polaris_qcqmi_dev_use',
gen_require(
    type device_t, qcqmi_device_t;
)
write_chr_files_pattern($1, device_t, qcqmi_device_t)
)
```

---

## Work (read, write, ioctl) with /dev/sm_nim_adpt device files

### Domain allowed access.

```c
interface('polaris_sm_nim_adpt_dev_use',
gen_require(
    type device_t;
    type polaris_sm_nim_adpt_device_t;
)
write_chr_files_pattern($1, device_t, polaris_sm_nim_adpt_device_t)
)
```
type device_t;

type polaris_sm_nim_adpt_device_t;

write_chr_files_pattern($1, device_t, polaris_sm_nim_adpt_device_t)
read_chr_files_pattern($1, device_t, polaris_sm_nim_adpt_device_t)
allow $1 polaris_sm_nim_adpt_device_t:chr_file map;

interface(`polaris_dio_dev_use`,
  gen_require(
    type device_t;
    type polaris_dio_device_t;
  )
  write_chr_files_pattern($1, device_t, polaris_dio_device_t)
  read_chr_files_pattern($1, device_t, polaris_dio_device_t)
  allow $1 polaris_dio_device_t:chr_file map;
)

interface(`polaris_dio_dev_read`,
  gen_require(
    type device_t;
    type polaris_dio_device_t;
  )
  read_chr_files_pattern($1, device_t, polaris_dio_device_t)
## <summary>
## Work (read, write, ioctl) with /dev/ttyNMEA* and /dev/ttyTunNMEA*
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface(`polaris_tty_NMEA_dev_use',
  gen_require(
    type device_t;
    type polaris_tty_NMEA_device_t;
  )
  write_chr_files_pattern($1, device_t, polaris_tty_NMEA_device_t)
  read_chr_files_pattern($1, device_t, polaris_tty_NMEA_device_t)
  allow $1 polaris_tty_NMEA_device_t:chr_file map;
')

######################################
## <summary>
## Read /dev/ttyNMEA* and /dev/ttyTunNMEA*
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## </summary>
## </param>
#
# interface(`polaris_tty_NMEA_dev_read',
  gen_require(
    type device_t;
    type polaris_tty_NMEA_device_t;
  )
  read_chr_files_pattern($1, device_t, polaris_tty_NMEA_device_t)
)

######################################
## <summary>
## Work (read, write, ioctl) with /dev/nim_phy
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
# interface(`polaris_nim_phy_dev_use',

gen_require(
  type device_t;
  type polaris_nim_phy_device_t;
)
  rw_chr_files_pattern($1, device_t, polaris_nim_phy_device_t)
    allow $1 polaris_nim_phy_device_t:chr_file map;
)

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscrankshaft.if
  No license file was found, but licenses were detected in source scan.

dnl
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dnl
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dnl
dnl c8kv Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 3)
max_bay_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `per_bay', 0)
max_bay_ripc_map_set(`cc', `per_bay', 3)
max_bay_ripc_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `global', 0)
max_bay_ripc_map_set(`cc', `global', 3)
max_bay_ripc_map_set(`fp', `global', 0)

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/c8kvmaps.m4
  No license file was found, but licenses were detected in source scan.

#
# August 2017, Victor Kamensky
#
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#

# /bootflash labels
/bootflash(/.*)?       gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/bootflash/ssh(/.*)?  gen_context(system_u:object_r:ssh_home_t,s0)
/bootflash/ssh/ssh_host.*_key.pub  gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/ssh/ssh_host.*_key    gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/tracelogs(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
Open Source Used In Crosswork Platform Infrastructure cw-infra-opensource-4.3.0

# /objstore/.swtam for hybrid TAM access
/objstore(/.*)? gen_context(system_u:object_r:polaris_disk_objstore_t,s0)

/csl_p_0(/.*)? gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/csl_p_1(/.*)? gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/csl_s_0(/.*)? gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)
/csl_s_1(/.*)? gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)
/obfl(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t,s0)

# not really a license file stored by iosd during platform resource config command
/csl_p_0/vcpu_template.txt gen_context(system_u:object_r:polaris_iosd_vcpu_t,s0)

# nvram devices
/dev/bootflash2 -b gen_context(system_u:object_r:polaris_nvram_file_t,s0)
/dev/bootflash3 -b gen_context(system_u:object_r:polaris_nvram_file_t,s0)
/dev/sda2 -b gen_context(system_u:object_r:polaris_nvram_file_t,s0)
/dev/sda3 -b gen_context(system_u:object_r:polaris_nvram_file_t,s0)
/dev/linux-user-bde -c gen_context(system_u:object_r:polaris_bde_device_t,s0)
/dev/linux-kernel-bde -c gen_context(system_u:object_r:polaris_bde_device_t,s0)
/dev/dash_fpga -c gen_context(system_u:object_r:polaris_dash_device_t,s0)
/dev/dash_fpga_cc0 -c gen_context(system_u:object_r:polaris_dash_device_t,s0)
/dev/dash_fpga_cc1 -c gen_context(system_u:object_r:polaris_dash_device_t,s0)
/dev/dash_fpga_cc2 -c gen_context(system_u:object_r:polaris_dash_device_t,s0)
/dev/dash_fpga_cc3 -c gen_context(system_u:object_r:polaris_dash_device_t,s0)
/dev/dash_fpga_nios -c gen_context(system_u:object_r:polaris_dash_device_t,s0)
/dev/huron_fpga -c gen_context(system_u:object_r:polaris_huron_device_t,s0)
/dev/dplr_sumatra -c gen_context(system_u:object_r:polaris_sumatra_doppler_device_t,s0)
/dev/nios -c gen_context(system_u:object_r:polaris_nios_device_t,s0)
/dev/qae_mem -c gen_context(system_u:object_r:polaris_qae_device_t,s0)
/dev/icp_adf_gige_wd -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev0csr -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev0ring -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev_mem -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev_mem_page -c gen_context(system_u:object_r:polaris_icp_device_t,s0)

# moka fpga
/dev/moka_fpga -c gen_context(system_u:object_r:polaris_mokafpga_device_t,s0)
/dev/moka_fpga_cc -c gen_context(system_u:object_r:polaris_mokafpga_device_t,s0)

# for load usbnet module
/usr/binos/conf/load_usbnet.sh -- gen_context(system_u:object_r:polaris_load_usbnet_exec_t,s0)

/dev/nim_dm -c gen_context(system_u:object_r:polaris_nim_dm_device_t,s0)
/dev/nim_dm_0_1 -c gen_context(system_u:object_r:polaris_nim_dm_device_t,s0)

/dev/nim_phy -c gen_context(system_u:object_r:polaris_nim_phy_device_t,s0)

# file-system on blackheart/sparrow
# /crashinfo is symbolic link to /flash1
/crashinfo gen_context(system_u:object_r:polaris_disk_crashinfo_t,s0)

# /flash is symbolic link to /flash1
/flash gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

# /flash0 NVRAM
/flash0(/.*)? gen_context(system_u:object_r:polaris_nvram_file_t,s0)

# /flash1 Bootflash
/flash1(/.*)? gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/flash1/tracelog(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/flash1/geo(/.*)? gen_context(system_u:object_r:polaris_geodb_files_t,s0)
/flash1/USWAP(/.*)? gen_context(system_u:object_r:polaris_uswap_files_t,s0)
/flash1/dbpersist(/.*)? gen_context(system_u:object_r:polaris_disk_dbm_t,s0)
/flash1/debug.conf -- gen_context(system_u:object_r:polaris_debug_conf_t,s0)
/flash1/packages.conf -- gen_context(system_u:object_r:polaris_packages_conf_t,s0)
/flash1/core(/.*)? gen_context(system_u:object_r:polaris_core_file_t,s0)
/flash1/rollback_timer(/.*)? gen_context(system_u:object_r:polaris_rbtimer_bootflash_t,s0)
/flash1/installer(/.*)? gen_context(system_u:object_r:polaris_disk_install_t,s0)
/flash1/ssh(/.*)? gen_context(system_u:object_r:ssh_home_t,s0)
/flash1/ssh/ssh_host.*_key.pub gen_context(system_u:object_r:sshd_key_t,s0)
/flash1/ssh/ssh_host.*_key gen_context(system_u:object_r:sshd_key_t,s0)

# /flash3 OBFL
/flash3(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t,s0)
/flash3/OBFL(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t,s0)

# harddisk
/vol/harddisk(/.*)? gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)
/mnt/msata(/.*)? gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)

# for usage by IOx
/vol/usb1(/.*)? gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)
/dev/shm/sem\_.dev_i2c_0 gen_context(system_u:object_r:polaris_cm_cc_tmpfs_t,s0)
/dev/shm/sem\_.dev_i2c_1 gen_context(system_u:object_r:polaris_cm_cc_tmpfs_t,s0)
# Nvram symlink on Aventus platform
/aventus_config/nvram

gensystem_u:object_r:polaris_nvram_file_t,s0

# Nvram symlink on Cabo platform
/cabo_config/nvram

gensystem_u:object_r:polaris_nvram_file_t,s0

# Device applicable to Betelgeuse platform
/dev/sirius_fpga

gensystem_u:object_r:polaris_siriusfpga_device_t,s0

# Device applicable to Nanook platform
/dev/bp_async -c gensystem_u:object_r:polaris_bp_async_device_t,s0

# Device applicable to Sparrow platform
/dev/remap_mem0 -c gensystem_u:object_r:polaris_remap_mem_device_t,s0
/dev/sparrow_psu -c gensystem_u:object_r:polaris_sparrow_psu_device_t,s0
/dev/dio-upstream -c gensystem_u:object_r:polaris_dio_device_t,s0
/dev/dio-[1-4] -c gensystem_u:object_r:polaris_dio_device_t,s0
/dev/ttyNMEA[0-1] -c gensystem_u:object_r:polaris_tty_NMEA_device_t,s0
/dev/ttyTunNMEA[0-1] -c gensystem_u:object_r:polaris_tty_NMEA_device_t,s0

# Device applicable to Nutella platform
/dev/nutella_fpga -c gensystem_u:object_r:polaris_nutella_fpga_device_t,s0

# Only qcqmi0 and qcqmi1 are generated for Telit/SWI modems
/dev/qcqmi0 -c gensystem_u:object_r:qcqmi_device_t,s0
/dev/qcqmi1 -c gensystem_u:object_r:qcqmi_device_t,s0

# SM NIM Adpater Switzer-CC device files
/dev/sm_nim_adpt_fpga_1 -c gensystem_u:object_r:polaris_sm_nim_adpt_device_t,s0
/dev/sm_nim_adpt_nim_oir_1_0 -c gensystem_u:object_r:polaris_sm_nim_adpt_device_t,s0
/dev/sm_nim_adpt_nim_oir_1_1 -c gensystem_u:object_r:polaris_sm_nim_adpt_device_t,s0
/dev/sm_nim_adpt_fpga_2 -c gensystem_u:object_r:polaris_sm_nim_adpt_device_t,s0
/dev/sm_nim_adpt_nim_oir_2_0 -c gensystem_u:object_r:polaris_sm_nim_adpt_device_t,s0
/dev/sm_nim_adpt_nim_oir_2_1 -c gensystem_u:object_r:polaris_sm_nim_adpt_device_t,s0

# CLI: show platform hardware msata
/usr/bin/os/bin/msata_info.sh -- gensystem_u:object_r:polaris_msata_info_exec_t,s0
/tmp/sata_status -- gensystem_u:object_r:polaris_sata_status_tmp_t,s0

# Memory blocks and gpp for Nutella platform
/dev/mmcblk0gp0p1 gensystem_u:object_r:polaris_nutella_gp0_t,s0
/gpp gensystem_u:object_r:polaris_nutella_gpp_t,s0
# CLI: show platform hardware slot p[x] fan eeprom
/usr/binos/conf/mcp_fan_eeprom_cmd.sh -- gen_context(system_u:object_r:polaris_smart_fan_exec_t,s0)

/var/run/cwan_ezmanage_cwan_server -- gen_context(system_u:object_r:polaris_cwan_svr_var_run_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscrankshaft.fc
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#
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#

policy_module(polariscmfp, 1.0);

gen_require(
    type polaris_cm_fp_t;
"
)

polaris_btrace_data_manage(polaris_cm_fp_t)
polaris_crft_data_manage(polaris_cm_fp_t)
polaris_chasfs_manage(polaris_cm_fp_t)
polaris_tldresolve_read(polaris_cm_fp_t)
polaris_tldldb_list_dirs(polaris_cm_fp_t)
polaris_cpcl_d_read(polaris_cm_fp_t)
polaris_flashlib_read(polaris_cm_fp_t)
polaris_rpic_sman_ui_serv_connect(polaris_cm_fp_t)
polaris_cpcl_d_dev_use(polaris_cm_fp_t)
polaris_proc_rmonbifo_read(polaris_cm_fp_t)
polaris_obfl_data_read(polaris_cm_fp_t)
polaris_persistent_list_dirs(polaris_cm_fp_t)
polaris_chasync_files_manage(polaris_cm_fp_t)

# cman_fp creates /tmp/cpp_anon_db file, instead of adding it to polaris_cpp_domain
# let us just grant access to cpp tmp files
polaris_cpp_tmp_files_use(polaris_cm_fp_t, "cpp_anon_db")
# on 1ng works with /dev/cpp
polaris_cpp_dev_use(polaris_cm_fp_t)

# work with /dev/i2c devices
polaris_i2c_use(polaris_cm_fp_t)

# on ultra read eeprom through i2c
# type=AVC msg=audit(1479556298.842:11): avc: denied { setattr } for pid=5464 comm="cman_fp"
path="/sys/devices/i2c-0/i2c-1/1-0056/eeprom" dev="sysfs" ino=25556
scontext=system_u:system_r:polaris_cm_fp_t:s0 tcontext=system_u:object_r:sysfs_t:s0 tclass=file
# type=AVC msg=audit(1479556298.842:12): avc: denied { read write } for pid=5464 comm="cman_fp"
name="eeprom" dev="sysfs" ino=25556 scontext=system_u:system_r:polaris_cm_fp_t:s0
tcontext=system_u:object_r:sysfs_t:s0 tclass=file
dev_rw_sysfs(polaris_cm_fp_t)

polaris_icc_broken_relocations(polaris_cm_fp_t)

allow polaris_cm_fp_t self:udp_socket { create ioctl };

# cman_fp can start dyncfg_setup.sh, allow its transition to dyncfg_t type
polaris_dyncfg_domtrans(polaris_cm_fp_t)

# on 1ng cman_fp write into /bootflash/crypto/octeon_pci_console_dev0_20170723_075412.log
polaris_bootflash_manage(polaris_cm_fp_t)

polaris_disk_harddisk_read_lnk(polaris_cm_fp_t)

# write to devices like this /proc/bus/pci/04/00.0
cernel_read_system_state(polaris_cm_fp_t)
cernel_write_proc_files(polaris_cm_fp_t)

# cm_fp tmp files like /tmp/octeon-remote-lock-pci:0
type polaris_cm_fp_tmp_t;
files_tmp_file(polaris_cm_fp_tmp_t)
polaris_cm_fp_tmp_filetrans(polaris_cm_fp_t)
polaris_cm_fp_tmp_manage(polaris_cm_fp_t)
# besides /tmp/octeon-remote-lock-pci:0 all other files in /tmp
# are ours
files_tmp_filetrans(polaris_cm_fp_t, polaris_cm_fp_tmp_t, file)

# LOOK AT ME: raw memory write access
ifdef(`mcp_family',`
polaris_dev_mem_use(polaris_cm_fp_t)
')

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCVh55517)
ifdef(`crankshaft_family',`
polaris_dev_mem_use(polaris_cm_fp_t)
')

# LOOK AT ME: raw memory access in dopler SDK remove after
# CSCvm34516 is fixed using CSCvm34630
ifdef(`starfleet_platform',`
polaris_dev_mem_use(polaris_cm_fp_t)
# "show platform hardware slot F0 eobc interface standby rmon" leads to
# ioctl() call from cmlib_get_eobc_drv_info().
kernel_request_load_module(polaris_cm_fp_t)

# needed for "show platform hardware slot F0 eobc interface standby rmon"
kernel_read_network_state(polaris_cm_fp_t)

# on RP2/RP3 linecard cyan init happens within cm
ifdef("mcp_family",
    polaris_dyncfg_setup(polaris_cm_fp_t)
')

allow polaris_cm_fp_t self: capability dac_override;

polaris_obfl_data_manage(polaris_cm_fp_t)

allow polaris_cm_fp_t self: netlink_route_socket rw_netlink_socket_perms;

ifdef("ngwc_family",
    # cmfp_asic_mmap_func() function in cmfp module uses
    # /dev/chdrvmmnap for asic memory mapping
    polaris_chdrvmmnap_dev_use(polaris_cm_fp_t)
    # on macallan cman_fp needs access to /dev/cisco/dplriomem
    # for mappin dplr io memory to application space.
    polaris_dplr_iomem_mmapdrv_dev_use(polaris_cm_fp_t);
    # on macallan iomd needs access to /dev/cisco/fpgaioem
    # for mapping FPGA io memory to application space.
    polaris_fpga_iomem_mmapfpga_dev_use(polaris_cm_fp_t);
')

optional_policy(""
    # Allow /dev/dmammap access
    polaris_dmammap_dev_use(polaris_cm_fp_t)
')

# on starfleet need access to
# /sys/device/platform/cpld/reg_fan_control
polaris_cpld_write(polaris_cm_fp_t)

# /dev/shm/sdm access
optional_policy(""
    polaris_sdm_shm_manage(polaris_cm_fp_t)
')
logging_send_syslog_msg(polaris_cm_fp_t)

# /dev/epactrIN on qwlc
optional_policy(
  polaris_epa_dev_use(polaris_cm_fp_t)
')

# /dev/astro on qwlc
optional_policy(
  polaris_astro_dev_use(polaris_cm_fp_t)
')

# /dev/cpp_il on qwlc
optional_policy(
  polaris_cpp_il_dev_use(polaris_cm_fp_t)
')

# on radium need to get model info
optional_policy(
  polaris_dash_dev_use(polaris_cm_fp_t)
')

# on neptune, cavium library in o2_cavm_mem_map wants access to
# /sys/devices/pci0000:00/0000:00:01.0/0000:01:00.0/resource0
optional_policy(
  polaris_cpp_cavium_dma_map(polaris_cm_fp_t)
')

# /dev/aikido access
polaris_aikido_dev_use(polaris_cm_fp_t)

optional_policy(
  # betelgeuse need access to /dev/sirius_fpga
  polaris_sirius_fpga_dev_use(polaris_cm_fp_t)
')

# access SERDES /tmp/serdes_asic_key_dir/
optional_policy(
  polaris_serdes_asic_key_tmp_manage(polaris_cm_fp_t)
')

type polaris_hkp_device_t;
  dev_node(polaris_hkp_device_t)

# access /dev/iocp0
optional_policy(
  polaris_spa_dev_use(polaris_cm_fp_t)
')
optional_policy(`
# access /dev/hkp
polaris_hkp_dev_use(polaris_cm_fp_t)

polaris_n2_dev_use(polaris_cm_fp_t)
polaris_cy2213_dev_use(polaris_cm_fp_t)
polaris_ddr_dev_use(polaris_cm_fp_t)
polaris_vega_dev_use(polaris_cm_fp_t)
`)
polaris_firmware_read(polaris_cm_fp_t)

# allow access to /csl_p_0/vcpu_template.txt
polaris_iosd_vcpu_read(polaris_cm_fp_t)

# allow Cabo access to i2c semaphores
ifdef(`cabo_platform`,`
polaris_i2c_sem_manage(polaris_cm_fp_t)
`)
ifdef(`sumatra_platform`,
# access huron fpga on sumatra
polaris_huron_dev_use(polaris_cm_fp_t)
`)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmfp.te
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#
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#
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#

# polarisezmancc file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisezmancc.fc
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#
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#
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policy_module(polarisripc, 1.0);

#

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisripc.te
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#

# polarisripc file contexts place holder

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisripc.fc
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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl All rights reserved
dnl
divert(-1)

include(`polaris_process.m4')
include(`polaris_process.fc.m4')

include(`polaris_ipc_mqipc.m4')
include(`polaris_ipc_mqipc_fc.m4')

include(`polaris_ipc_ripc.m4')
include(`polaris_ipc_ripc_fc.m4')

include(`polaris_ipc_lipc.m4')
include(`polaris_ipc_lipc.fc.m4')

dnl Stub out non existent one
define(`polaris_websocket_service_server',``)
define(`polaris_cipc_service_server',``)

include(`polaris_max_scope.m4')

divert(0)dnl
# This is a generated file! Instead of modifying this file, modify proper platform TDL file.

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_fc.m4

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#
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#

policy_module(polarisstorage, 1.0);

# Persistent storage policy

attribute polaris_disk;

# Default disk types

type polaris_disk_bootflash_t;
polaris_disk_type(polaris_disk_bootflash_t)

type polaris_disk_varied_t;
polaris_disk_type(polaris_disk_varied_t)

type polaris_disk_harddisk_t;
polaris_disk_type(polaris_disk_harddisk_t)

type polaris_disk_csl_p_t;
polaris_disk_type(polaris_disk_csl_p_t)

type polaris_disk_csl_s_t;
polaris_disk_type(polaris_disk_csl_s_t)

type polaris_disk_objstore_t;
polaris_disk_type(polaris_disk_objstore_t)

type polaris_disk_crashinfo_t;
polaris_disk_type(polaris_disk_crashinfo_t)

type polaris_disk_license_t;
polaris_disk_type(polaris_disk_license_t)
type polaris_disk_ucode_t;
polaris_disk_type(polaris_disk_ucode_t)

type polaris_disk_recovery_t;
polaris_disk_type(polaris_disk_recovery_t)

type polaris_disk_config_t;
polaris_disk_type(polaris_disk_config_t)

# Persistent files types

type polaris_system_report_t;
polaris_pfile_type(polaris_system_report_t)

type polaris_core_file_t;
polaris_pfile_type(polaris_core_file_t)

type polaris_debug_conf_t;
polaris_pfile_type(polaris_debug_conf_t)

type polaris_packages_conf_t;
polaris_pfile_type(polaris_packages_conf_t)

type polaris_grub_efi_t;
polaris_pfile_type(polaris_grub_efi_t)

# we label .ssh files residing on persistent storage as ssh_home_t
# and sshd_key_t
#
# below statement could/should be moved into ssh te file?
gen_require(`
    type ssh_home_t;
    type sshd_key_t;
    `)
polaris_disk_type(ssh_home_t)
polaris_disk_type(sshd_key_t)

# handling /bootflash directory - created by systemd unit, note normally
# something will be mounted on top of it, but in some cases like RP2 line
# cards it will be ramfs directory.
gen_require(`
    type root_t;
    type unconfined_service_t;
    `)
filetrans_pattern(unconfined_service_t, root_t, polaris_disk_bootflash_t, dir, "bootflash")

# nfsd accesses different persistent storage directories and it needs getattr
gen_require(`
type nfsd_t;
')
polaris_persistent_getattr(nfsd_t)

# on qwlc /misc/scratch symbolic link created by systemd-tmpfile, but then
# removed and recreated by harddisk mount systemd unit
gen_require('  
      type unconfined_service_t;
      type mnt_t;
')
filetrans_pattern(unconfined_service_t, mnt_t, polaris_disk_bootflash_t, lnk_file, "scratch")

gen_require('  
      type polaris_confd_t;
      type tmp_t;
')
filetrans_pattern(polaris_confd_t, tmp_t, polaris_packages_conf_t, file, "packages.conf")

# first time creation of /bootflash/core directory
gen_require('  
      type initrc_t;
      type init_t;
')
filetrans_pattern({initrc_t init_t unconfined_service_t}, {polaris_disk_bootflash_t polaris_disk_harddisk_t} ,
polaris_core_file_t, dir, "core")

gen_require('  
      type init_t;
')
files_tmp_filetrans(init_t, polaris_packages_conf_t, file, "packages.conf")

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisstorage.te
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#

/usr/binos/conf/run_ioxn_gs_ha.sh -- gen_context(system_u:object_r:polaris_gsd_rp_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgdrp.fc
No license file was found, but licenses were detected in source scan.
## <summary>Polaris Btrace Policy Rules.</summary>

################################################################################
# Btrace policy
################################################################################

###################################################################
# <summary>Manage btrace auxiliary files</summary>
#
# <param name="domain">
#   Domain allowed access.
# </param>
#
# interface('polaris_btrace_data_manage',
#    gen_require(
#      type polaris_btrace_base_t;
#      type polaris_btrace_tmpfs_t;
#      type tmpfs_t;
#    ))
manage_dirs_pattern($1, polaris_btrace_base_t, polaris_btrace_base_t)

# work with cache files and dirs under /tmp/tmppub, like /tmp/tmppub/libs_cache
polaris_btrace_tmppub_manage($1)

fs_tmpfs_filetrans($1, polaris_btrace_tmpfs_t, file, "oper_uuid_shm")
manage_files_pattern($1, tmpfs_t, polaris_btrace_tmpfs_t)
allow $1 polaris_btrace_tmpfs_t:file map;
'}

#######################################
## <summary>
##      Manage temporary (not yet persistent) btrace files
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
## <rolebase/>
#
interface(`polaris_btrace_data_manage_all',`

  polaris_btrace_data_manage($1)

  gen_require(`
    attribute polaris_btrace_data_domain;
    type polaris_btrace_base_t;
  ')

  manage_files_pattern($1, polaris_btrace_base_t, polaris_btrace_data_domain)
  manage_link_files_pattern($1, polaris_btrace_base_t, polaris_btrace_data_domain)
  allow $1 polaris_btrace_data_domain:file map;

  # create temporary files in trace directory
  manage_files_pattern($1, polaris_btrace_base_t, polaris_btrace_base_t)
  manage_link_files_pattern($1, polaris_btrace_base_t, polaris_btrace_base_t)
  allow $1 polaris_btrace_base_t:dir watch;
  ')

#######################################
## <summary>
##      Manage btrace persitent files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
## Domain allowed access.
## </summary>
## </param>
## <rolebase/>
#
interface('polaris_btrace_persistent_data_manage',
   gen_require(
   type polaris_btrace_data_t;
' )

   manage_dirs_pattern($1, polaris_btrace_data_t, polaris_btrace_data_t)
   manage_files_pattern($1, polaris_btrace_data_t, polaris_btrace_data_t)
' )

#######################################
## <summary>
##      Read btrace persistent files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface('polaris_btrace_persistent_data_read',
   gen_require(
   type polaris_btrace_data_t;
' )

   search_dirs_pattern($1, polaris_btrace_data_t, polaris_btrace_data_t)
   read_files_pattern($1, polaris_btrace_data_t, polaris_btrace_data_t)
' )

#######################################
## <summary>
##      Search btrace persistent files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface('polaris_btrace_persistent_data_search',
   gen_require(
   type polaris_btrace_data_t;
search_dirs_pattern($1, polaris_btrace_data_t, polaris_btrace_data_t)

search_dirs_pattern($1, polaris_disk_harddisk_t, polaris_btrace_data_t)
search_dirs_pattern($1, polaris_disk_bootflash_t, polaris_btrace_data_t)
search_dirs_pattern($1, polaris_disk_crashinfo_t, polaris_btrace_data_t)

manage_dirs_pattern($1, polaris_btrace_lvl_config_t, polaris_btrace_lvl_config_t)
manage_files_pattern($1, polaris_btrace_lvl_config_t, polaris_btrace_lvl_config_t)
filetrans_pattern($1, polaris_btrace_data_t, polaris_btrace_lvl_config_t, dir, "level_config")

polaris_btrace_search_tracelogs($1)

polaris_disk_bootflash_read_lnk($1)
polaris_disk_harddisk_read_lnk($1)
polaris_disk_crashinfo_read_lnk($1)
')

#######################################
## <summary>
##      Read ldb_tmp btrace meta data files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface(`polaris_btrace_ldb_tmp_read',`
   gen_require(`
   type polaris_ldb_tmp_t;
   ')
   read_files_pattern($1, polaris_ldb_tmp_t, polaris_ldb_tmp_t)
   ')

########################################
## <summary>
##	Read and write all btrace or pman fifo file, used as
##      standard input/output.
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed access.
##	</summary>
## </param>
## <rolecap/>
#
interface(`polaris_use_btrace_fifo',`
   gen_require(`
   type polaris_fifo_stdout_t;
   ')
   allow $1 polaris_fifo_stdout_t:fifo_file { rw_term_perms lock append create unlink getattr };

# For pmanlite, allow pmans grand-children to be able to operate on
# pipe created by pman.
polaris_use_pman_fifo($1) 
')

#######################################
## <summary>
## Execute create_luid_file_db in the its domain.
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </param>
#
interface(`polaris_create_ldb_domtrans',`
    gen_require(`
        type polaris_create_ldb_t, polaris_create_ldb_exec_t;
    ')
    corecmd_search_bin($1)
    domtrans_pattern($1, polaris_create_ldb_exec_t, polaris_create_ldb_t)
')

#######################################
## <summary>
## Make the specified type usable as btrace data file type.
## </summary>
## <param name="type">
## Type to be used for files.
## </param>
#
interface(`polaris_btrace_data_type',`
    files_type($1)
    gen_require(`
        attribute polaris_btrace_data_domain;
    ')
    typeattribute $1 polaris_btrace_data_domain;
')

#######################################
## <summary>
## Process to manage its own btrace files
## </summary>
## <param name="domain">
## </param>
#
Domain allowed access.
<summary>
</summary>
</param>
<param name="file_type">
<summary>
File type of btrace that corresponds to given domain.
</summary>
</param>

interface('polaris_btrace_data_client',

gen_require(

type polaris_btrace_base_t;
')

manage_files_pattern($1, polaris_btrace_base_t, $2)
manage_lnk_files_pattern($1, polaris_btrace_base_t, $2)
filetrans_pattern($1, polaris_btrace_base_t, $2, { file lnk_file })

# all clients check for /tmp/rp/trace/publish/timed/enabled control
# file presence, created by btman, may need its own type

gen_require(

type polaris_btman_bt_t;
')
getattr_files_pattern($1, polaris_btrace_base_t, polaris_btman_bt_t)

allow $1 $2:file map;
')


Process to manage its own btrace files
<summary>
</summary>
<param name="domain_stem">
<summary>
Steam of domain allowed access.
</summary>
</param>

interface('polaris_btrace_data_client_template',
gen_require(

attribute polaris_btrace_data_domain;
type polaris_btrace_base_t;
')
type polaris_$1_bt_t;
polaris_btrace_data_type(polaris_$1_bt_t)
polaris_btrace_data_client(polaris_$1_t, polaris_$1_bt_t)
')

########################################
## <summary>
##   Execute mcp_trace_request.sh in its domain.
## </summary>
## <param name="domain">
##   <summary>
##   Domain allowed to transition.
## </summary>
## </param>
#
interface('polaris_trace_request_domtrans',
    gen_require(
        type polaris_trace_request_t, polaris_trace_request_exec_t;
    ')

corecmd_search_bin($1)
domtrans_pattern($1, polaris_trace_request_exec_t, polaris_trace_request_t)
')

########################################
## <summary>
##      Watch btrace directories
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
## </summary>
## </param>
## <rolebase/>
#
interface('polaris_btrace_data_watch',
    gen_require(
        type polaris_btrace_base_t;
        type polaris_btrace_data_t;
    ')
    allow $1 polaris_btrace_base_t:dir watch;
    allow $1 polaris_btrace_data_t:dir watch;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbtrace.if
No license file was found, but licenses were detected in source scan.
policy_module(polaristamsrp, 1.0);

gen_require(`
    type polaris_tams_rp_t;
`)

polaris_btrace_data_manage(polaris_tams_rp_t)
polaris_crf_data_manage(polaris_tams_rp_t)
polaris_chasfsmanage(polaris_tams_rp_t)
polaris_tdlresolve_read(polaris_tams_rp_t)
polaris_tdldb_list_dirs(polaris_tams_rp_t)
polaris_flashlib_read(polaris_tams_rp_t)
polaris_cpld_read(polaris_tams_rp_t)
polaris_ripc_sman_ui_serv_connect(polaris_tams_rp_t)

policy_module(polarisiomd, 1.0);

gen_require(`
    type polaris_iomd_t;
`)

polaris_btrace_data_manage(polaris_iomd_t)
polaris_crf_data_manage(polaris_iomd_t)
polaris_chasfsmanage(polaris_iomd_t)
polaris_tdlresolve_read(polaris_iomd_t)
polaris_tdldb_list_dirs(polaris_iomd_t)
polaris_cpld_read(polaris_iomd_t)
polaris_flashlib_read(polaris_iomd_t)

polaris_ripc_sman_ui_serv_connect(polaris_iomd_t)

polaris_db_tdlldb_dir_use(polaris_iomd_t)

polaris_dyncfg_tmp_read(polaris_iomd_t)
optional_policy(')
polaris_spa_dev_use(polaris_iomd_t)'

# allow objstore access
polaris_disk_objstore_read(polaris_iomd_t)

polaris_ngio_dev_use(polaris_iomd_t)

# deals with /dev/shm files semaphors; like uuid_sem semaphore
# created by btrace_get_uuid function
type polaris_iomd_tmpfs_t;
files_tmpfs_file(polaris_iomd_tmpfs_t)
fs_tmpfs_filetrans(polaris_iomd_t, polaris_iomd_tmpfs_t, file)
manage_files_pattern(polaris_iomd_t, tmpfs_t, polaris_iomd_tmpfs_t)
# sem_open through where_is_shmfs does stat on /dev/shm
fs_getattr_tmpfs(polaris_iomd_t)

#allow /dev/i2c device file
polaris_i2c_use(polaris_iomd_t)

ifdef('ngwc_family',`
# On Macallan platforms the following api call from iomd process,
# ngmodslot_is_upper_sup_present() does a read access of /dev/cpld
polaris_cpld_dev_read(polaris_iomd_t)
polaris_cpld_dev_use(polaris_iomd_t)

#allow cpp tmp file
polaris_cpp_tmp_files_use(polaris_iomd_t)

# In Macallan cards which use Doppler ASIC,
# IOMD module uses ngmod_doppler_mmap() api to get hold of
# MMapped Asic address. As part of the operation it uses
# /dev/chdrvmmap device.
polaris_chdrvmmap_dev_use(polaris_iomd_t)

# IOMD module invokes ASIC Scan functionality
# and calls asic_register_intr_handler (), which
# needs to access the doppler MSI devices
# /dev/msi/Slot[0-9]*/Doppler[0-9]/Group[0-9]
polaris_dplr_dev_use(polaris_iomd_t)
# but above still not enough at some point
# device like /dev/msi/Slot8/Doppler0/Group0 still
# considered as device_t, not clear need to look a bit more
dev_rw_generic_chr_files(polaris_iomd_t)

# on macallan iomd needs access to /dev/cisco/dplriomem
# for mapping dplr io memory to application space.
polaris_dplr_iomem_mmapdrv_dev_use(polaris_iomd_t);

# IOMD calls ngmod_obfl_errmssg_app_init() to initialize
# OBFL.
polaris_obfl_data_manage(polaris_iomd_t)

# IOMD fast path code invokes ngmod_fastpath_thread_func(),
# which increases the scheduler priority.
allow polaris_iomd_t self:capability sys_nice;
allow polaris_iomd_t self:process setsched;

# on macallan iomd needs access to /dev/cisco/fpgaiomem
# for mapping FPGA io memory to application space.
polaris_fpga_iomem_mmapfpga_dev_use(polaris_iomd_t);

optional_policy(
# ASIC related mmap code in IOMD needs to acces PCI scan related
# rescan shm mutex
polaris_cm_cc_tmpfs_manage(polaris_iomd_t)
')

# both utah and macallan text relocations in libcpp_common_os.so
ifdef('crankshaft_family',
polaris_icc_broken_relocations(polaris_iomd_t)
# Nightwatch switch module needs to access the doppler devices
polaris_dplr_dev_use(polaris_iomd_t)
dev_rw_generic_chr_files(polaris_iomd_t)
allow polaris_iomd_t self:capability sys_nice;
allow polaris_iomd_t self:process setsched;
')

optional_policy(
# Allow /dev/dmammap access
polaris_dmammap_dev_use(polaris_iomd_t)
')

optional_policy(
# on starfleet access gettysburg_fpga
polaris_gettysburg_fpga_dev_use(polaris_iomd_t)
type polaris_iomd_tmp_t;
files_tmp_file(polaris_iomd_tmp_t)
manage_dirs_pattern(polaris_iomd_tmp_t, polaris_iomd_tmp_t, polaris_iomd_tmp_t)
manage_files_pattern(polaris_iomd_tmp_t, polaris_iomd_tmp_t, polaris_iomd_tmp_t)
manage_fifo_files_pattern(polaris_iomd_tmp_t, polaris_iomd_tmp_t, polaris_iomd_tmp_t)

# on macallan MRVL88X5113_DRV_PRINT macro outputs into /tmp/mrvl88x5113.log file
files_tmp_filetrans(polaris_iomd_tmp_t, polaris_iomd_tmp_t, dir, "mrvl88x5113.log")

logging_send_syslog_msg(polaris_iomd_t)

ifdef(`ngwc_family',`
    # from in115050_test_app_thread_create in
    # drivers/userspace/inphi/dev_ephy_in115050/src/dev_ephy_in115050.c
    # For macallan in115050_test_app_thread_create in
    # drivers/userspace/inphi/dev_ephy_in115050/src/dev_ephy_in115050.c
    files_tmp_filetrans(polaris_iomd_tmp_t, polaris_iomd_tmp_t, dir, "test_inphi")

    # In case of starfleet fixed the following module creates folder in /tmp
    # /drivers/userspace/mrvl_phy/dev_ephy_mrvl88ec808/src/dev_ephy_mrvl88ec808.c
    files_tmp_filetrans(polaris_iomd_tmp_t, polaris_iomd_tmp_t, dir, "test_mrvlphy")

    #allow access to /tmp/serdes ASIC_KEY_DIR as this path is used both by
    #cman_fp for programming DPP serdes and IOMD for programming n/w serdes
    optional_policy(`
        polaris_serdes_asic_key_tmp_manage(polaris_iomd_t)
    `)
    `)

    #Doppler E mac creates lockfiles with names following
    #the pattern /tmp/nug ASIC KEY_DIR/nug ASIC KEY_[0-9]_[0-9]_[0-9]
    files_tmp_filetrans(polaris_iomd_tmp_t, polaris_iomd_tmp_t, dir, "nug ASIC KEY_DIR")

    #Doppler ES mac creates lockfiles with names following
    #the pattern /tmp/rmt ASIC KEY_DIR/rmt ASIC KEY_[0-9]_[0-9]_[0-9]
    files_tmp_filetrans(polaris_iomd_tmp_t, polaris_iomd_tmp_t, dir, "rmt ASIC KEY_DIR")

    # from etopus_spawn_serdes_tool_thread in
    # binos/platforms/ngwc/doppler_sdk/drivers/serdes/Vendor/src/etopus_serdes.c
    files_tmp_filetrans(polaris_iomd_tmp_t, polaris_iomd_tmp_t, dir, "test_etp")

    # on starfleet access /dev/cpld, in iomd_starfleet_create_mmap()
    polaris_cpld_dev_use(polaris_iomd_t)
    `)

    optional_policy(`
        polaris_ngwc_itfpo_manage(polaris_iomd_t)
# ngio device
type polaris_ngio_device_t;
dev_node(polaris_ngio_device_t)

#For NGIO modules iomd uses netlink socket (via backplane switch)
allow polaris_iomd_t self:netlink_socket { bind create };

ifdef(`sumatra_platform`,
#on Sumatra access /dev/cpld from iomd
polaris_cpld_dev_use(polaris_iomd_t)
# LOOK AT ME: After direct usage of /dev/mem is removed (CSCvw80796)
polaris_dev_mem_use(polaris_iomd_t)
polaris_sumatra_doppler_dev_use(polaris_iomd_t)

#access SERDES /tmp/serdes_asic_key_dir/*
polaris_serdes_asic_key_tmp_manage(polaris_iomd_t)

# access /dev/huron_fpga
polaris_huron_dev_use(polaris_iomd_t)

# manage "sysctrl_i2c.lck"
gen_require(
    type polaris_cm_rp_tmp_t;
)
files_tmp_filetrans(polaris_iomd_t, polaris_cm_rp_tmp_t, file, "sysctrl_i2c.lck")
polaris_cm_rp_tmp_manage(polaris_iomd_t)

# comm="iomd" kmod="netdev-bp246"
kernel_request_load_module(polaris_iomd_t)

# work with /sys/devices/i2c-15/15-0076/...
dev_rw_sysfs(polaris_iomd_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiomd.te

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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl
define('polaris_lipc_service_server_many',
    `ifelse($3, `,

polaris_lipc_create_name(dollarsone, $1, "$2"),
polaris_lipc_create_name(dollarsone, $1, "$2-b$3")
`ifelse($3, 0, `polaris_lipc_create_name(dollarsone, $1, "$2"), `polaris_lipc_service_server_many($1, $2, eval($3 - 1)))')''

define(`polaris_lipc_service_server_aux',`dnl
  ######################################################################
  ## <summary>
  ##	Create $2 lipc channel.
  ## </summary>
  ## <param name="domain">
  ##	<summary>
  ##	Domain allowed access.
  ##
  ## </param>
  ## <infoflow type="none"/>
  
  interface(``polaris_lipc_$1_create_name'',``
    gen_require(`
      type $2;
    `)
    $3
  `)"

  ######################################################################
  ## <summary>
  ##	Write $2 lipc channel.
  ## </summary>
  ## <param name="domain">
  ##	<summary>
  ##	Domain allowed access.
  ##
  ## </param>
  ## <param name="server">
  ##	<summary>
  ##	Domain of owner of lipc channel.
  ##
  ## </param>
  ## <infoflow type="none"/>
  
  interface(``polaris_lipc_$1_write'',``
    gen_require(`
      type $2;
    `)
    polaris_lipc_write(dollarsone, $2, dollarstwo)
  `)
  `)

  `)
define('polaris_lipc_service_server', 'dnl
    polaris_lipc_service_server_aux(lipc_stem($1), lipc_label($1),
        polaris_lipc_service_server_many(lipc_label($1), $5, max_scope_map($3, $4, $2)))')

define('polaris_lipc_service_client', '')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_lipc_if.m4
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# March 2017, Victor Kamensky
#
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#

policy_module(polarisncd, 1.0);

gen_require(' 
    type polaris_ncd_t;
  ')

# allow sntp transition in its own domain when started by ncd
ntp_domtrans_ntpdate(polaris_ncd_t)

corecmd_exec_bin(polaris_ncd_t)
corecmd_exec_shell(polaris_ncd_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_ncd_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_ncd_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_ncd_t)

# work with /tmp files (/tmp/ncd)
type polaris_ncd_tmp_t;
files_tmp_file(polaris_ncd_tmp_t)
manage_dirs_pattern(polaris_ncd_tmp_t, tmp_t, polaris_ncd_tmp_t)
manage_files_pattern(polaris_ncd_tmp_t, tmp_t, polaris_ncd_tmp_t)
manage_fifo_files_pattern(polaris_ncd_t, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
files_tmp_filetrans(polaris_ncd_t, polaris_ncd_tmp_t, file)

# create /tmp/ncd and /tmp/etc/ncd_work_dir directories
gen_require("
    type polaris_etc_t;
"
manage_dirs_pattern(polaris_ncd_t, { tmp_t polaris_etc_t }, polaris_ncd_tmp_t)
files_tmp_filetrans(polaris_ncd_tmp_t, polaris_ncd_t, dir, "ncd")
# /tmp/etc/ncd_work_dir
filetrans_pattern(polaris_ncd_t, polaris_etc_t, polaris_ncd_tmp_t, dir, "ncd_work_dir")

# work with /tmp/ncd/inot_fifo
files_tmp_filetrans(polaris_ncd_t, polaris_ncd_tmp_t, fifo_file, "inot_fifo")
manage_fifo_files_pattern(polaris_ncd_t, tmp_t, polaris_ncd_tmp_t)

# allow ntp to read out fifo file
gen_require("
    type ntpd_t;
"
read_fifo_files_pattern(ntpd_t, polaris_ncd_tmp_t, polaris_ncd_tmp_t)

# work with /tmp/ufs directory. the ufs directory can be created
# by both polaris_ncd_t and udev_t subjects (depending upon platform
# logic)
gen_require("
    type udev_t;
    type unconfined_service_t;
"
files_tmp_filetrans({ polaris_ncd_t udev_t unconfined_service_t }, polaris_ncd_tmp_t, dir, "ufs")

polaris_btrace_data_manage(polaris_ncd_t)
polaris_chasfs_manage(polaris_ncd_t)
polaris_cpld_read(polaris_ncd_t)
polaris_proc_rmonbifo_read(polaris_ncd_t)
polaris_rmonbifo_tmp_read(polaris_ncd_t)
polaris_boot_tmp_read(polaris_ncd_t)
polaris_disk_crashinfo_getattr(polaris_ncd_t)
polaris_disk_bootflash_read_link(polaris_ncd_t)
polaris_flashlib_lock(polaris_ncd_t)
polaris_flashlib_read(polaris_ncd_t)
polaris_read_debug_conf(polaris_ncd_t)
polaris_read_packages_conf(polaris_ncd_t)

brctl_domtrans(polaris_ncd_t)
sysnet_domtrans_ifconfig(polaris_ncd_t)

# ncd.sh invokes ifup which in turn is calling dhclient
sysnet_domtrans_dhcpc(polaris_ncd_t)

type polaris_ncd_etc_t;
files_config_file(polaris_ncd_etc_t)
gen_require("attribute domain;")
files_etc_filetrans(domain, polaris_ncd_etc_t, file, "mount_data")
manage_dirs_pattern(polaris_ncd_t, polaris_ncd_etc_t, polaris_ncd_etc_t)
manage_files_pattern(polaris_ncd_t, polaris_ncd_etc_t, polaris_ncd_etc_t)

# runs exportsfs command
rpc_read_exports(polaris_ncd_t)
rpc_write_exports(polaris_ncd_t)
rpc_manage_nfs_state_data_dir(polaris_ncd_t)
rpc_manage_nfs_state_data(polaris_ncd_t)
fs_rw_nfsd_fs(polaris_ncd_t)
kernel_rw_rpc_sysctls(polaris_ncd_t)
fs_getattr_xattr_fs(polaris_ncd_t)

# reloads xinetd@/tmp/etc/xinetd.conf.consolidated.service and
# systemctl reload xinetd_brelay@eobc.service
systemd_exec_systemctl(polaris_ncd_t)
systemd_reload_all_services(polaris_ncd_t)
systemd_status_all_unit_files(polaris_ncd_t)

polaris_chvrf_domtrans(polaris_ncd_t)
# ncd process calls ifconfig and route and mcp_chvrf
gen_require("type polaris_chvrf_t;
")
sysnet_domtrans_ifconfig(polaris_chvrf_t)
allow polaris_chvrf_t self:capability net_admin;
allow polaris_chvrf_t self:udp_socket { create ioctl };
allow polaris_ncd_t self:process setpgid;
polaris_persistent_getattr(polaris_ncd_t)

# access to /etc/sysconfig/network-scripts
sysnet_read_config(polaris_ncd_t)

fs_getattr_tmpfs(polaris_ncd_t)

# manage file under /tmp/etc/ncd_work_dir
gen_require("type initrc_tmp_t;
type initrc_t;
")
filetrans_pattern(polaris_ncd_t, initrc_tmp_t, polaris_ncd_tmp_t, dir,"ncd_work_dir")
polaris_ncd_tmpmanage(polaris_ncd_t)
# /tmp/root/loopback is created by initrc_t, but managed by ncd.sh.
# dynamic label directory "/tmp/root/loopback" as polaris_ncd_tmp_t
files_tmp_filetrans(initrc_t, polaris_ncd_tmp_t, dir, "loopback")
# flashutil has wrong file permission
allow polaris_ncd_t self:capability { dac_override sys_resource }

# access to /tmp/etc/xinetd.conf.consolidated
init_read_script_tmp_files(polaris_ncd_t)
allow polaris_ncd_t self:capability net_admin;

# search/getattr of /tmp/udev/etc/udev
polaris_udev_tmp_list_dirs(polaris_ncd_t)

# ncd calls mount to handle nfs directories
mount_domtrans(polaris_ncd_t)

#rsync_exec(polaris_ncd_t)
gen_require(
    type rsync_t;
    type rsync_tmp_t;
')
rsync_entry_domtrans(polaris_ncd_t, rsync_t)
allow rsync_t polaris_ncd_t:process sigchld;
# file descriptor leak when rsync is called
allow rsync_t polaris_ncd_t:fifo_file write;
# PLEASE LOOK AT ME: probably /tmp/rp/active_epoch deserves its own type
# /tmp/rp/active_epoch on its way to /tmp/chassis/local/rp/chasfs/rp/0/0/epoch
manage_files_pattern(polaris_ncd_t, rsync_tmp_t, rsync_tmp_t)

# creates files under /tmp/udev/etc/udev/
polaris_udev_tmp_manage(polaris_ncd_t)
allow polaris_ncd_t self:process setfscreate;

# run /sbin/hwclock in its own domain
clock_domtrans(polaris_ncd_t)
# stdin file descriptor leak when hwclock started
gen_require(
    type hwclock_t;
')
allow hwclock_t polaris_ncd_tmp_t:fifo_file read;

ifdef("ngwc_family",
polaris_getattr_filesystem_disk_ucode(polaris_ncd_t)
')

# update /tmp/etc/xinetd.conf.consolidated file
polaris_etc_append(polaris_ncd_t)

# ncd.sh adds entries to /etc/exports file
gen_require("
  type etc_t;
)"
append_files_pattern(polaris_ncd_t, etc_t, etc_t)

# create and write into /tmp/unifiedfs/unifiedfs_log
manage_files_pattern(polaris_ncd_t, polaris_ufs_tmp_t, polaris_ufs_tmp_t)

polaris_ncd_rpcinfo_net(polaris_ncd_t)

# accessing /mnt/usb0
fs_search_removable(polaris_ncd_t)
polaris_getattr_removable(polaris_ncd_t)
polaris_getattr_removable(polaris_ufs_helper_t)

# ncd.sh calls ps command
# ps needs access to /sys/devices/system/cpu/online
# write/create to "/sys/module/nfs/parameters/nfs4_unique_id"
dev_rw_sysfs(polaris_ncd_t)
dev_manage_sysfs_dirs(polaris_ncd_t)
gen_require("
  type sysfs_t;
")
create_files_pattern(polaris_ncd_t, sysfs_t, sysfs_t)

# ps needs access to proce_t
kernel_read_system_state(polaris_ncd_t)
# ps needs access to state of all domains
domain_read_all_domains_state(polaris_ncd_t)

# send signal to ntpd
ntp_signal(polaris_ncd_t)

# ncd.sh executes hostname
hostname_exec(polaris_ncd_t)

# ncd.sh runs mcp_trace_request.sh
polaris_trace_request_domtrans(polaris_ncd_t)

# handling /usr/binos/conf/iosd_console_attach.sh

polaris_utility_domain_template(console_attach)
polaris_bexecute_domain(polaris_console_attach_t, polaris_console_attach_exec_t)
corecmd_exec_bin(polaris_console_attach_t)
auth_use_nsswitch(polaris_console_attach_t)
# execute ping over liin: 
```
usr/bin/os/conf/mcp_chvrf.sh liin /bin/ping -c 1 -w 300 192.168.1.6
```

# from chvrf.sh code executes ping command
```
gen_require(')
  type polaris_chvrf_t;
')
netutils_domtrans_ping(polaris_chvrf_t)
```

# send sigchld when it is done
```
gen_require(')
  type ping_t;
')
allow ping_t polaris_console_attach_t:process sigchld;
```

polaris_boot_tmp_read(polaris_console_attach_t)
polaris_btrace_data_manage(polaris_console_attach_t)
polaris_chasfs_read(polaris_console_attach_t)
polaris_cpld_read(polaris_console_attach_t)
polaris_disk_bootflash_search(polaris_console_attach_t)
polaris_disk_crashinfo_getattr(polaris_console_attach_t)
polaris_ncd_tmp_read(polaris_console_attach_t)
polaris_read_debug_conf(polaris_console_attach_t)
polaris_rmonbifo_tmp_read(polaris_console_attach_t)
polaris_use_btrace_fifo(polaris_console_attach_t)

# read /proc/cmdline
kernel_read_system_state(polaris_console_attach_t)

# read /tmp/myhostname file
polaris_hm_tmp_read(polaris_console_attach_t)

telnet_use_ptys(polaris_console_attach_t)

allow polaris_console_attach_t self:capability sys_resource;
allow polaris_console_attach_t self:process setrlimit;

# getty starts /usr/bin/os/conf/iosd_console_attach.sh through brelay
```
gen_require(')
  type getty_t;
')
polaris_bconsole_domtrans(getty_t)
```

# console_attach.sh start btelnet.sh over chvrf and bexecute
```
gen_require(')
  type polaris_bexecute_t;
')
```
allow polaris_bexecute_t polaris_console_attach_t:process sigchld;
corenet_tcp_connect_telnedd_port(polaris_bexecute_t)
# handling /usr/binos/conf/unifiedfs/unifiedfs_helper.sh

polaris_utility_domain_template(ufs_helper)

corecmd_exec_bin(polaris_ufs_helper_t)
auth_use_nsswitch(polaris_ufs_helper_t)

# rsync calls unifiedfs_helper.sh
gen_require(`
    type rsync_t;
`)
polaris_ufs_helper_domtrans(rsync_t);

# unifiedfs_helper.sh calls mount to handle nfs directories
mount_domtrans(polaris_ufs_helper_t)

# creates files under /tmp/udev/etc/udev/
polaris_udev_tmp_manage(polaris_ufs_helper_t)

polaris_disk_bootflash_search(polaris_ufs_helper_t)
polaris_ncd_tmp_manage(polaris_ufs_helper_t)
polaris_ncd_etc_read(polaris_ufs_helper_t)

# stat over /tmp/ufs/crashinfo/10.1.1.1
polaris_disk_crashinfo_getattr(polaris_ufs_helper_t)

# unifiedfs_helper.sh creates /tmp/unifiedfs and manages underlying dirs
type polaris_ufs_tmp_t;
files_tmp_file(polaris_ufs_tmp_t)
files_tmp_filetrans(polaris_ufs_helper_t, polaris_ufs_tmp_t, { file dir })
manage_dirs_pattern(polaris_ufs_helper_t, polaris_ufs_tmp_t, polaris_ufs_tmp_t)
manage_files_pattern(polaris_ufs_helper_t, polaris_ufs_tmp_t, polaris_ufs_tmp_t)
manage_lnk_files_pattern(polaris_ufs_helper_t, polaris_ufs_tmp_t, polaris_ufs_tmp_t, polaris_ufs_tmp_t)

# Required for /tmp/unifiedfs access on vWLC
ifdef(`vwlc_platform',`
files_tmp_filetrans(unconfined_service_t, polaris_ufs_tmp_t, dir, "unifiedfs")
`)
polaris_ncd_rpcinfo_net(polaris_ufs_helper_t)
polaris_persistent_getattr(polaris_ufs_helper_t)

# rm from coreutils-8.30 wants to know filesystem type
fs_getattr_tmpfs(polaris_ufs_helper_t)

# ncd.sh read,search,open, creates, add_name and writes to /proc/hanet/tun_local_ip
gen_require(`
type polaris_hanet_proc_t;

type proc_t;
'

manage_files_pattern(polaris_ncd_t, polaris_hanet_proc_t, polaris_hanet_proc_t)
allow polaris_hanet_proc_t proc_t:filesystem associate;

allow polaris_ufs_helper_t self:capability sys_resource;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisncd.te
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dnl

dnl May 2018, Manohar Hungund

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dnl Starfleet Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 5)
max_bay_map_set(`fp', `per_bay', 5)

min_bay_ripc_map_set(`rp', `per_bay', 0)
min_bay_ripc_map_set(`cc', `per_bay', 1)
min_bay_ripc_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `per_bay', 2)
max_bay_ripc_map_set(`cc', `per_bay', 6)
max_bay_ripc_map_set(`fp', `per_bay', 1)

min_bay_ripc_map_set(`rp', `global', 0)
min_bay_ripc_map_set(`cc', `global', 1)
min_bay_ripc_map_set(`fp', `global', 0)

max_bay_ripc_map_set(`rp', `global', 2)
max_bay_ripc_map_set(`cc', `global', 6)
max_bay_ripc_map_set(`fp', `global', 1)


dnl in elastic scope each process has its own value
max_elastic_map_set(`rp', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`cc', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`fp', `elastic', BPROC_ODM, 0)

max_elastic_map_set(`rp', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(`cc', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(`fp', `elastic', BPROC_WNCD, 0)
# November 2020, Christine Hwang
#
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#
# Map BBU TTY to correct device context
/dev/ttyS2            -c gen_context(system_u:object_r:polaris_bbu_device_t,s0)

# February 2018, Manohar Hungund
#
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#
## <summary>Polaris ACT2 Chip Device Access Policy Rules.</summary>

# ACT2 Chip Driver policy

## <summary>
## Work (read, write, ioctl) with /dev/act2
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_act2_dev_use',
gen_require(
    type device_t;
type polaris_act2_device_t;
')
read_chr_files_pattern($1, device_t, polaris_act2_device_t)
write_chr_files_pattern($1, device_t, polaris_act2_device_t)
Create /tmp/hw_entropy file. Certain platforms save entropy from main board ACT-2 chip in this file.

---

Use /tmp/hw_entropy file. For some reason, iosd opens file in rw mode, not clear why it couldn't just read it. Certain platforms save entropy from main board ACT-2 chip in this file.
## <summary>
## <param name="domain">
##     <summary>
##     Domain allowed access.
##     </summary>
## </param>
#
interface('polaris_hw_entropy_read',
    gen_require(
        type polaris_hw_entropy_t;
    )
)

read_files_pattern($1, tmp_t, polaris_hw_entropy_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisact2.if
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#
# April 2017, Victor Kamensky
#
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#

policy_module(polarisdmindbmand, 1.0);

gen_require(
    type polaris_dmi_ndbmand_t;
')

polaris_btrace_data_manage(polaris_dmi_ndbmand_t)
polaris_crft_data_manage(polaris_dmi_ndbmand_t)
polaris_chasfs_manage(polaris_dmi_ndbmand_t)
polaris_tdlresolve_read(polaris_dmi_ndbmand_t)
polaris_tlddb_list_dirs(polaris_dmi_ndbmand_t)
polaris_cpld_read(polaris_dmi_ndbmand_t)
polaris_flashlib_read(polaris_dmi_ndbmand_t)
polaris_ripc_sman_ui_serv_connect(polaris_dmi_ndbmand_t)
polaris_db_tlddb_dir_use(polaris_dmi_ndbmand_t)

# work with NDBLOAD_LOCK_PATH
type polaris_dmi_ndbutil_lock_t;
files_tmp_file(polaris_dmi_ndbutil_lock_t)
polaris_ndbload_lock_use(polaris_dmi_ndbmand_t)
optional_policy(
# deals with /dev/shm/confd setup (schema and pid
polaris_confds shm_setup(polaris_dmi ndbmand_t)
# and allow read shared schema
polaris_confds shared_schema_read(polaris_dmi ndbmand_t)
# read /proc/confd_pid/exec file
polaris_confds read(polaris_dmi ndbmand_t)
')

allow polaris_dmi ndbmand_t self:capability { dac_override dac_read_search sys_resource };

logging_send_syslog_msg(polaris_dmi ndbmand_t)

# create ndbutil directory under /var/lock
polaris_confds ndbutil create(polaris_dmi ndbmand_t)

polaris ndbutil lock template(polaris_dmi ndbmand_t, ndbmand, ".1.schema_use.ndbmand")

polaris_confds shared_schema_watch(polaris_dmi ndbmand_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmindbmand.te
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
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#

policy_module(polarisomp, 1.0);

gen_require(
    type polaris_omp_t;
')
polaris_chasfs manage(polaris_omp_t)
polaris_cpld_read(polaris_omp_t)
polaris_flashlib_read(polaris_omp_t)
polaris_tdlresolve_read(polaris_omp_t)
polaris_ripc_sman_ui_serv_connect(polaris_omp_t)
polaris_db_tdlmdb_dir_use(polaris_omp_t)

logging_send_syslog_msg(polaris_omp_t)
# vconfd_load_shared_schemas
polaris_conf_shared_schema_read(polaris_omp_t)

# omp_daemon_init calls posix_sysconf
dev_read_sysfs(polaris_omp_t)

# reads /sys/fs/cgroup/cpuset/iosxe_control_processes/cpuset.cpus
fs_read_cgroup_files(polaris_omp_t)

# vip_util_set_fd_limits set files limits
allow polaris_omp_t self:process setrlimit;

# omp connects to omp listener tcp port 17900
corennet_tcp_connect_polaris_omp_port(polaris_omp_t)
# vip_util_reset_ns opens /proc/1/ns/net
polaris_cedge_reset_ns(polaris_omp_t)
# vip_util_set_ns opens /var/run/netns/*
polaris_cedge_set_ns(polaris_omp_t)

#omp_peer_active_connect() binds to OMP address
corennet_tcp_bind_generic_node(polaris_omp_t)
allow polaris_omp_t self:tcp_socket { bind connect create getopt setopt };

# omp starts worker thread under CPU affinity
allow polaris_omp_t self:process setsched;

# connects to ttm unix domain socket in msgq_connect_timer
polaris_ttm_var_sock_write(polaris_omp_t)
# connects to ftm unix domain socket in msgq_connect_timer
polaris_ftm_var_sock_write(polaris_omp_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisomp.te
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#
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#

### <summary>Polaris htx Policy Rules.</summary>

##########################################################################
### <summary>
###  Manage polaris_htx_iox_tmp_t in /tmp/HTX-IOX.
### </summary>
### <param name="domain">
###  <summary>
###  Domain allowed access.
###  </summary>
###  </param>

interface('polaris_h_tx_iox_tmp_manage',
        gen_require(
          type polaris_h_tx_iox_tmp_t;

  )

manage_files_pattern($1, polaris_h_tx_iox_tmp_t, polaris_h_tx_iox_tmp_t)
manage_sock_files_pattern($1, polaris_h_tx_iox_tmp_t, polaris_h_tx_iox_tmp_t)
manage_dirs_pattern($1, polaris_h_tx_iox_tmp_t, polaris_h_tx_iox_tmp_t)

allow $1 polaris_h_tx_iox_tmp_t:dir watch;

allow $1 polaris_h_tx_iox_tmp_t:file map;
')

######################################################################
### <summary>
### Send messages to htx unix datagram sockets.
### </summary>
### <param name="domain">
### </param>
#
interface('polaris_h_tx_dgram_send',
        gen_require(
          type polaris_h_tx_t;
          )

allow $1 polaris_h_tx_t:unix_dgram_socket sendto;
')

######################################################################
### <summary>
### Work (read, write, ioctl) with /dev/sppi_memif device
### </summary>
### <param name="domain">
### </param>
#
interface('polaris_sppi_memif_dev_use',

gen_require(
    type device_t;
    type polaris_sppi_memif_device_t;
)
write_chr_files_pattern($1, device_t, polaris_sppi_memif_device_t)
read_chr_files_pattern($1, device_t, polaris_sppi_memif_device_t)

############################
## <summary>
## Work with /tmp/HTX-IOX/.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_htx_use_client_socket',
    gen_require(
        type polaris_htx_t;
    )
    allow $1 polaris_htx_t:unix_stream_socket connectto;
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarishtx.if
No license file was found, but licenses were detected in source scan.

# # July 2017, Victor Kamensky
# # Copyright (c) 2017-2019 by Cisco Systems, Inc.
# # All rights reserved
#
policy_module(polarisesgstamcfg, 1.0);

gen_require(
    type polaris_esg_tam_cfg_t;
)
polaris_btrace_data_manage(polaris_esg_tam_cfg_t)
polaris_chasfs_manage(polaris_esg_tam_cfg_t)
polaris_tdlresolve_read(polaris_esg_tam_cfg_t)
polaris_tdldb_list_dirs(polaris_esg_tam_cfg_t)
polaris_flashlib_read(polaris_esg_tam_cfg_t)
polaris_cpld_read(polaris_esg_tam_cfg_t)
allow polaris_esg_tam_cfg_t self:capability net_admin;

# handle /tmp/tam_cfg_done
type polaris_tam_tmp_t;
files_tmp_file(polaris_tam_tmp_t)
files_tmp_filetrans(polaris_esg_tam_cfg_t, polaris_tam_tmp_t, dir, "tam_cfg_done")
manage_files_pattern(polaris_esg_tam_cfg_t, polaris_tam_tmp_t, polaris_tam_tmp_t)
gen_require(
    type tmp_t;
')
manage_dirs_pattern(polaris_esg_tam_cfg_t, tmp_t, polaris_tam_tmp_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisesgtamcfg.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
policy_module(polarisfmanfp, 1.0);

gen_require(
    type polaris_fman_fp_t;
')
polaris_btrace_data_manage(polaris_fman_fp_t)
polaris_crft_data_manage(polaris_fman_fp_t)
polaris_chasfs_manage(polaris_fman_fp_t)
polaris_tdlresolve_read(polaris_fman_fp_t)
polaris_tdldb_list_dirs(polaris_fman_fp_t)
polaris_cpld_read(polaris_fman_fp_t)
polaris_lua_read(polaris_fman_fp_t)
polaris_flashlib_read(polaris_fman_fp_t)
polaris_ripc_sman_ui_serv_connect(polaris_fman_fp_t)

# allow to send message to /dev/log
logging_send_syslog_msg(polaris_fman_fp_t)

#############################################################################
# mqipc manual, one that missing in platform tdl file
#############################################################################
# mq.-iosd-thr-fmanrp-R0:0
# mq.-iosd-thr-fmanrp-1:R0:0
type polaris_iosd_thr_fmanrp_mqipc_t;
polaris_mqipc_type(polaris_iosd_thr_fmanrp_mqipc_t)

# mq.-mobilityd-thr-fmanrp-1:R0:0
type polaris_mobilityd_thr_fmanrp_mqipc_t;
polaris_mqipc_type(polaris_mobilityd_thr_fmanrp_mqipc_t)

# mq.-smd-thr-fmanrp-1:R0:0
type polaris_smd_thr_fmanrp_mqipc_t;
polaris_mqipc_type(polaris_smd_thr_fmanrp_mqipc_t)

# mq.-wncd_0-thr-fmanrp-1:R0:0
type polaris_wncd_thr_fmanrp_mqipc_t;
polaris_mqipc_type(polaris_wncd_thr_fmanrp_mqipc_t)

# mq.-wncmngrd_0-thr-fmanrp-1:R0:0
type polaris_wncmngrd_thr_fmanrp_mqipc_t;
polaris_mqipc_type(polaris_wncmngrd_thr_fmanrp_mqipc_t)

polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-3:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-4:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-5:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-6:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-7:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-8:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-1:R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-2:R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-3:R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-4:R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-5:R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-6:R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-7:R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-8:R1:0)

polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-3:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-4:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-5:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-6:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-7:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-8:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-R1:0)

polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mqipc_t, smd-thr-fmanrp-R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mqipc_t, smd-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mqipc_t, smd-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mqipc_t, smd-thr-fmanrp-3:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mqipc_t, smd-thr-fmanrp-4:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mqipc_t, smd-thr-fmanrp-5:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mq ipc_t, smd-thr-fmanrp-6:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mqipc_t, smd-thr-fmanrp-7:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mqipc_t, smd-thr-fmanrp-8:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mqipc_t, smd-thr-fmanrp-R1:0)

polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-3:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-4:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-5:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-6:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-7:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-8:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-R1:0)

polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-3:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-4:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-5:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-6:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-7:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-8:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-R1:0)

optional_policy(
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_2-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_2-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_2-thr-fmanrp-R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_3-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_3-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_3-thr-fmanrp-R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_4-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_4-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_4-thr-fmanrp-R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_5-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_5-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_5-thr-fmanrp-R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_6-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_6-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_6-thr-fmanrp-R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_7-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_7-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_7-thr-fmanrp-R1:0)
)

polaris_cpld_dev_use(polaris_fman_fp_t)

# cpp bleeds into switching platforms through fman_fp and fed
# apparently even on nyquist fed creates /tmp/cpp_anon_db
polaris_cpp_process(polaris_fman_fp_t)
polaris_cpp_tmp_files_use(polaris_fman_fp_t)

optional_policy(
polaris_cpp_dev_use(polaris_fman_fp_t)
polaris_cpp_cavium_sdk_ipc_use(polaris_fman_fp_t)
)
polaris_persistent_manage(polaris_fman_fp_t)
polaris_icc_broken_relocations(polaris_fman_fp_t)

allow polaris_fman_fp_t self:capability dac_override;
allow polaris_fman_fp_t self:capability2 block_suspend;

# when /bootflash or /harddisk are 100% full
allow polaris_fman_fp_t self:capability sys_resource;

# write to devices like this /proc/bus/pci/04/00.0
kernel_read_system_state(polaris_fman_fp_t)
kernnel_write_proc_files(polaris_fman_fp_t)

ifdef(‘mcp_family’,
    polaris_cm_fp_tmp_filetrans(polaris_fman_fp_t)
polaris_cm_fp_tmp_manage(polaris_fman_fp_t)
’)

# LOOK AT ME: raw memory write access
ifdef(‘mcp_family’,
polaris_dev_mem_use(polaris_fman_fp_t)
’)

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCvh58515)
ifdef(‘crankshaft_family’,
polaris_dev_mem_use(polaris_fman_fp_t)
’)
polaris_dyncfg_tmp_read(polaris_fman_fp_t)

# /dev/qae_mem device access on overlord
optional_policy(‘
polaris_qae_dev_use(polaris_fman_fp_t)
’)

# access to /dev/icp_XXX device on crankshaft platforms
optional_policy(‘
    polaris_icp_dev_use(polaris_fman_fp_t)
’)

# on qwlc work with /tmp/octeon-remote-lock-pci:0
ifdef(’qwlc_platform’,
polaris_cm_fp_tmp_manage(polaris_fman_fp_t)
’)

ifdef(’katar_platform’,
polaris_cm_fp_tmp_manage(polaris_fman_fp_t)
’)

optional_policy(‘
# fman-fp creates tmp files in acl-mgmt workflow.
polaris_fman_acl_iptbl_tmp_file(polaris_fman_fp_t)
’)
polaris_iosd_vcpu_read(polaris_fman_fp_t)

# allow open/read/search cgroup files like /sys/fs/cgroup/cpu,cpuacct/machine
fs_read_cgroup_files(polaris_fman_fp_t)
fs_search_cgroup_dirs(polaris_fman_fp_t)

optional_policy(')
  # Access /dev/cbdma
  polaris_cbdma_dev_use(polaris_fman_fp_t)
  
  # Access /dev/n2_device
  polaris_n2_dev_use(polaris_fman_fp_t)
')
polaris_cpp_tmpfs_manage(polaris_fman_fp_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfmanfp.te
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#
# August 2017, Shawn Lu
#
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#
#
## <summary>Polaris wncmgrd Policy Rules.</summary>

#########################################################################
## <summary>
## Read access to /bootflash/NACert.pem
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface(`polaris_read_icap_cert_file',`
  gen_require(`
    type polaris_icap_cert_t;
  ')
  allow $1 polaris_icap_cert_t:file read_file_perms;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswncmgrd.if
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#
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#

# polariskeyman file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariskeyman.fc
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# polarisnvram file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnvram.fc
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#
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#

# /3pa staff
/3pa/usr/(.*)?lib64/(.*)? -- gen_context(system_u:object_r:lib_t,s0)
/3pa/usr/(.*)?lib/(.*)? -- gen_context(system_u:object_r:lib_t,s0)
/3pa/(.*)?lib64/(.*)? -- gen_context(system_u:object_r:lib_t,s0)
/3pa/(.*)?lib/(.*)? -- gen_context(system_u:object_r:lib_t,s0)
/3pa/usr/(.*)?sbin/(.*)? -- gen_context(system_u:object_r:bin_t,s0)
/3pa/usr/(.*)?bin/(.*)? -- gen_context(system_u:object_r:bin_t,s0)
/3pa/usr/libvirt/libvirt_lxc -- gen_context(system_u:object_r:virtd_lxc_exec_t,s0)
/usr/libvirt/libvirt_lxc -- gen_context(system_u:object_r:virtd_lxc_exec_t,s0)
/usr/sbin/libvirt_lxc -- gen_context(system_u:object_r:virtd_lxc_exec_t,s0)
/3pa/usr/sbin/libvirtd -- gen_context(system_u:object_r:virtd_exec_t,s0)
/3pa/usr/sbin/virtlogd -- gen_context(system_u:object_r:virtlogd_exec_t,s0)
/3pa/usr/bin/virsh -- gen_context(system_u:object_r:virsh_exec_t,s0)
/3pa/usr/bin/qemu.* -- gen_context(system_u:object_r:qemu_exec_t,s0)
/usr/binos/conf/libvirtd.sh -- gen_context(system_u:object_r:virtd_initrc_exec_t,s0)
/3pa/etc/libvirt/(.*)? -- gen_context(system_u:object_r:virt etc_t,s0)
/3pa/etc/logrotate.d/(.*)? -- gen_context(system_u:object_r:etc_t,s0)
# should go into contrib/telnet.fc?
/usr/binos/sbin/in.telnetd -- gen_context(system_u:object_r:telnetd_exec_t:s0)

# load_crash_kernel.sh loads crash kernel - it should be executable
/crashkernel/load_crash_kernel.sh -- gen_context(system_u:object_r:bin_t:s0)

# /etc/lablogin.sh is executed during telnet login over management port
# it should be executable. Also having shell_exec_t label will allow it
# to transition into unconfined domain
/etc/lablogin.sh -- gen_context(system_u:object_r:shell_exec_t:s0)

# /etc/init.d/* functions files should be actually in bin_t domain, the same
# as /etc/init.d/functions. Note using /etc/rc\d/init\d/ instead of
# /etc/init.d/ because we have substitution rule in file_contexts.subs_dist
/etc/rc\d/init\d/binos_functions -- gen_context(system_u:object_r:bin_t:s0)
/etc/rc\d/init\d/binos_functions-pd -- gen_context(system_u:object_r:bin_t:s0)
/etc/rc\d/init\d/chasxml_functions -- gen_context(system_u:object_r:bin_t:s0)
/etc/rc\d/init\d/common-utility-functions -- gen_context(system_u:object_r:bin_t:s0)
/etc/rc\d/init\d/rh-functions -- gen_context(system_u:object_r:bin_t:s0)

# tftp directories
/tftp-dgen_context(system_u:object_r:tftpdir_rw_t:s0)
/tftp/.*gen_context(system_u:object_r:tftpdir_rw_t:s0)

# /tmp/sw
/tmp/sw -d gen_context(system_u:object_r:tmp_t:s0)
/tmp/rp -d gen_context(system_u:object_r:tmp_t:s0)
/tmp/tp -d gen_context(system_u:object_r:tmp_t:s0)
/tmp/cc -d gen_context(system_u:object_r:tmp_t:s0)

# /tmp/etc
/tmp/etc -d gen_context(system_u:object_r:polaris_etc_t:s0)

# /tmp/sv
/tmp/sv -d gen_context(system_u:object_r:polaris_sv_tmp_t:s0)

# firmware files
/firmware(/.*)? gen_context(system_u:object_r:polaris_firmware_t:s0)
/upgrade(/.*)? gen_context(system_u:object_r:polaris_firmware_t:s0)
/golden(/.*)? gen_context(system_u:object_r:polaris_firmware_t:s0)

# CC card fpd files mark it as usr_t for now
/fpd(/.*)? -- gen_context(system_u:object_r:polaris_firmware_t:s0)

/tmp/debug\\.conf -l gen_context(system_u:object_r:polaris_debug_conf_t:s0)
/var/ODM/ios_core.p7b -- gen_context(system_u:object_r:etc_t:s0)
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/dev/ddr  -c gen_context(system_u:object_r:polaris_ddr_device_t,s0)
/dev/i2c-[0-9]*  -c gen_context(system_u:object_r:polaris_i2c_device_t,s0)

/(*/*/).ebf(/.*)?  gen_context(system_u:object_r:polaris_ebf_t,s0)
/bin/(.*).ebf(/.*)?  gen_context(system_u:object_r:polaris_ebf_t,s0)
/wbin/(.*).ebf(/.*)?  gen_context(system_u:object_r:polaris_ebf_t,s0)
/lib/(.*).ebf(/.*)?  gen_context(system_u:object_r:polaris_ebf_t,s0)
/lib64/(.*).ebf(/.*)?  gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/(.*).ebf(/.*)?  gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/bin/(.*).ebf(/.*)?  gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/sbin/(.*).ebf(/.*)?  gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/lib/(.*).ebf(/.*)?  gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/lib64/(.*).ebf(/.*)?  gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/binos/(.*).ebf(/.*)?  gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/binos/bin/(.*).ebf(/.*)?  gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/binos/sbin/(.*).ebf(/.*)?  gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/binos/lib/(.*).ebf(/.*)?  gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/binos/lib64/(.*).ebf(/.*)?  gen_context(system_u:object_r:polaris_ebf_t,s0)
/opt/confd/lib/confd/lib/core/confd/priv/(.*).ebf(/.*)?  gen_context(system_u:object_r:polaris_ebf_t,s0)

# interpreter for CRDL 32bit IOSD setup proper memory map
/usr/binos/bin/crdl_mini_loader gen_context(system_u:object_r:ld_so_t,s0)

#firmware package mount point on asr1k platforms
/mnt/firmware(/.*)?  gen_context(system_u:object_r:polaris_firmware_t,s0)

/bootflash/.USWAP(/.*)?  gen_context(system_u:object_r:polaris_uswap_files_t,s0)

#Nutella EFI folder
/bootflash/EFI(/.*)?  gen_context(system_u:object_r:polaris_efi_files_t,s0)

#for cat9k platform
/mnt/sd3/user/.USWAP(/.*)?  gen_context(system_u:object_r:polaris_uswap_files_t,s0)

/tmp/rsync_log_dir(/.*)?  gen_context(system_u:object_r:polaris_rsync_tmp_t,s0)

#for wlc awips feature
/bootflash/awips.json  gen_context(system_u:object_r:polaris_awips_signature_file_t,s0)

# for wlc iot-gw feature to access /bootflash/certs dir
/bootflash/certs  -d  gen_context(system_u:object_r:polaris_ap_cert_file_t,s0)

#for curl - and allowing ip netns exec X curl
/usr/bin/curl  --gen_context(system_u:object_r:polaris_curl_exec_t,s0)

# Katar WLC needs access to /tmp/ldwm_envelope
/tmp/ldwm_envelope  --  gen_context(system_u:object_r:polaris_ldwm_envelope_tmp_t,s0)
# CLI: show platform software tech-support
/usr/binos/conf/platform_tech_support.sh -- gen_context(system_u:object_r:polaris_tech_support_exec_t,s0)

# Tamlib debug file
/bootflash/tamlib_dbg_log -- gen_context(system_u:object_r:polaris_tamlib_dbg_file_t,s0)

# crypsetup - some platforms copy crypsetup in /bin
/bin/cryptsetup -- gen_context(system_u:object_r:lvm_exec_t,s0)
/usr/bin/cryptsetup -- gen_context(system_u:object_r:lvm_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscommon.fc
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dnl

dnl April 2018, Victor Kamensky
dnl
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dnl
define(`polaris_process', `')

dnl
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_process_if.m4
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#
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#

policy_module(polarisiptbl, 1.0);

########################################################################
# iptbl.sh manual
########################################################################

polaris_process_domain_template(iptbl)

corecmd_exec_bin(polaris_iptbl_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_iptbl_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_iptbl_t)
# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_iptbl_t)

# work with /tmp files
type polaris_iptbl_tmp_t;
files_tmp_file(polaris_iptbl_tmp_t)
manage_dirs_pattern(polaris_iptbl_t, tmp_t, polaris_iptbl_tmp_t)
manage_files_pattern(polaris_iptbl_t, polaris_iptbl_tmp_t, polaris_iptbl_tmp_t)
manage_fifo_files_pattern(polaris_iptbl_t, polaris_iptbl_tmp_t, polaris_iptbl_tmp_t)
files_tmp_filetrans(polaris_iptbl_t, polaris_iptbl_tmp_t, { file dir })

allow polaris_iptbl_t self:capability sys_resource;
allow polaris_iptbl_t self:process setpgid;

polaris_btrace_data_manage(polaris_iptbl_t)
polaris_cpld_read(polaris_iptbl_t)
polaris_chasfs_manage(polaris_iptbl_t)
polaris_boot_tmp_read(polaris_iptbl_t)
polaris_rmonbifo_tmp_read(polaris_iptbl_t)
polaris_proc_rmonbifo_getattr(polaris_iptbl_t)
polaris_proc_rmonbifo_read(polaris_iptbl_t)
polaris_disk_crashinfo_getattr(polaris_iptbl_t)

# execute /etc/init.d/iptables in its own domain
iptables_initrc_domtrans(polaris_iptbl_t)

# LOOK AT ME iptbl.sh puts symbolic links into /sbin directory
# need to fix manifest instead, so it will be static
gen_require(
    type bin_t;
')
manage_lnk_files_pattern(polaris_iptbl_t, bin_t, bin_t)

modutils_domtrans_insmod(polaris_iptbl_t)
iptables_domtrans(polaris_iptbl_t)

# iptbl.sh calls /etc/init.d/iptables restart and that needs
# read /proc/pid/net/ip_tables_names file
kernel_read_network_state(polaris_iptbl_t)
# creates /var/lock/subsys/iptables
type polaris_iptables_lock_t;
files_lock_file(polaris_iptables_lock_t)
manage_files_pattern(polaris_iptbl_t, polaris_iptables_lock_t, polaris_iptables_lock_t)
files_lock_filetrans(polaris_iptbl_t, polaris_iptables_lock_t, file)

# needs access to /run/netns as part of chvrf invocation
fs_read_nsfs_files(polaris_iptbl_t)
# iptbl.sh invokes iptable command which runs in iptables_t label and needs
# access to meta files created by iptbl.sh with label polaris_iptbl_tmp_t
allow iptables_t polaris_iptbl_tmp_t:fifo_file read_file_perms;
allow iptables_t polaris_iptbl_tmp_t:file read_file_perms;

# Allow /tmp/ufs/bootflash & /tmp/ufs/harddisk read access
ifdef('vwlc_platform',
  optional_policy(
    polaris_ncd_tmp_read(polaris_iptbl_t)
  )
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiptbl.te
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#
/usr/bin/bhytoolsd -- gen_context(system_u:object_r:polaris_bhytoolsd_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbhytoolsd.fc
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#
# March 2017, Victor Kamensky
#
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#
policy_module(polarisautoupgrade, 1.0);

gen_require(
  type polaris_autoupgrade_t;
)
corecmd_exec_bin(polaris_autoupgrade_t)
corecmd_exec_shell(polaris_autoupgrade_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_autoupgrade_t)
# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_autoupgrade_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_autoupgrade_t)

allow polaris_autoupgrade_t self:capability { sys_resource dac_override };
allow polaris_autoupgrade_t self:process setpgid;

polaris_tdldb_list_dirs(polaris_autoupgrade_t)
polaris_btrace_data_manage(polaris_autoupgrade_t)
polaris_chasfs_manage(polaris_autoupgrade_t)
polaris_cpld_read(polaris_autoupgrade_t)
polaris_proc_monbifo_read(polaris_autoupgrade_t)
polaris_monbifo_tmp_read(polaris_autoupgrade_t)
polaris_boot_tmp_manager(polaris_autoupgrade_t)
polaris_read_debug_conf(polaris_autoupgrade_t)
polaris_disk_crashinfo_getattr(polaris_autoupgrade_t)

type polaris_autoupgrade_tmp_t;
files_tmp_file(polaris_autoupgrade_tmp_t)

# /tmp/etc/installer
gen_require(
    type polaris_etc_t;
)
filetrans_pattern(polaris_autoupgrade_t, polaris_etc_t, polaris_autoupgrade_tmp_t, dir, "installer")
manage_fifo_files_pattern(polaris_autoupgrade_t, polaris_autoupgrade_tmp_t, polaris_autoupgrade_tmp_t)
manage_dirs_pattern(polaris_autoupgrade_t, polaris_etc_t, polaris_autoupgrade_tmp_t)
manage_files_pattern(polaris_autoupgrade_t, polaris_autoupgrade_tmp_t, polaris_autoupgrade_tmp_t)

# Allow access to bootflash
polaris_bootflash_read(polaris_autoupgrade_t)

# Allow access to packages.conf
polaris_read_packages_conf(polaris_autoupgrade_t)

# needs to run pidof
dev_read_sysfs(polaris_autoupgrade_t)
kernl_read_system_state(polaris_autoupgrade_t)
domain_read_all_domains_state(polaris_autoupgrade_t)

# send syslog
logging_send_syslog_msg(polaris_autoupgrade_t)

# script starts rsync with mcp_chvrf.sh
polaris_chvrf_domtrans(polaris_autoupgrade_t)
gen_require("
type rsync_t;
)
allow rsync_t polaris_autoupgrade_t:process sigchld;

# /tmp/ufs/crashinfo access
optional_policy(' p polaris_nclr_ext_read(polaris_autoupgrade_t)
')

# autoupgrade script in case of HA setup invokes brelay to trigger install of stand-by polaris_execute_domtrans(polaris_autoupgrade_t)
polaris_highlight_lock(polaris_autoupgrade_t) polaris_highlight_read(polaris_autoupgrade_t) polaris_disk_install_read(polaris_autoupgrade_t) polaris_install_engine_domtrans(polaris_autoupgrade_t)

#add transition to create /var/installer by autoupgrade type polaris_autoupgrade_var_t;
files_tmp_file(polaris_autoupgrade_var_t) files_var_filetrans(polaris_autoupgrade_t, polaris_autoupgrade_var_t, {file dir}) gen_require(' type polaris_autoupgrade_exec_t;
')

#add transition to create /var/installer/auto_upgrade_helper.sh by autoupgrade filetrans_pattern(polaris_autoupgrade_t,polaris_autoupgrade_var_t, polaris_autoupgrade_exec_t, file, "auto_upgrade_helper.sh") manage_files_pattern(polaris_autoupgrade_t, polaris_autoupgrade_var_t, polaris_autoupgrade_var_t) manage_dirs_pattern(polaris_autoupgrade_t, polaris_autoupgrade_var_t, polaris_autoupgrade_var_t)

#add transition to create files/dir in /tmp files_tmp_filetrans(polaris_autoupgrade_t, polaris_autoupgrade_tmp_t, {file dir})

# access to /tmp/installer polaris_install_tmp_manage(polaris_autoupgrade_t)
fs_getattr_tmpfs(polaris_autoupgrade_t)

# access to /tmp/rsync_log_dir polaris_manage_rsync_tmplog_dir(polaris_autoupgrade_t)

# access to /harddisk link (accessed by flashutil and rotee call) polaris_disk_harddisk_read_lnk(polaris_autoupgrade_t) rsync_entry_domtrans(polaris_chvrf_t, rsync_t)

gen_require('
type polaris_autoupgrade_t;
    type polaris_autoupgrade_exec_t;
')
    rsync_entry_domtrans(polaris_autoupgrade_t, rsync_t)
polaris_bexecute_domain(polaris_autoupgrade_t, polaris_autoupgrade_exec_t)

fs_getattr_xattr_fs(polaris_autoupgrade_t)

    # auto_upgrade_helper.sh creates /var/installer/auto_upgrade_helper.sh
    allow polaris_autoupgrade_t polaris_autoupgrade_exec_t:file { create setattr write };

    # rsync operations for members and standby rps on autoupgrade
    gen_require('    type rsync_port_t;
    ')
    allow polaris_autoupgrade_t rsync_port_t:tcp_socket name_connect;

    # rsync requires to relabel /var/installer/auto_upgrade_helper.sh on standby
    gen_require('    type var_t;
    ')
    allow rsync_t var_t:file relabelfrom;
    allow rsync_t polaris_autoupgrade_exec_t:file relabelto;

    # access to /vol/harddisk/*.pkg
    polaris_getattr_file_harddisk(polaris_autoupgrade_t)

    # access to /cdrom0/ when *ova image is booted during
    # first instance of vwlc on ucs server
    polaris_removable_read(polaris_autoupgrade_t)

    polaris_getattr_file_harddisk(polaris_autoupgrade_t)

    # auto_upgrade_client.sh access to "/tmp/sw/rp/0/0/rp_base/mount/bin/cut"
    polaris_issu_tmp_files_read(polaris_autoupgrade_t)

    Found in path(s):
    * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisautoupgrade.te
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    #
    # June 2017, Victor Kamensky
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    #

    /usr/binos/conf/run_ioxn_caf.sh -- gen_context(system_u:object_r:polaris_caf_exec_t:s0)
/usr/binos/conf/iox_reset.sh -- gen_context(system_u:object_r:polaris_caf_exec_t,s0)

ifdef('nyquist_platform',

ifdef('passport_platform',

#define # All possible accesses from /bootflash/iox_alt_hdd_mount_dir (iox_polaris.conf)
/bootflash/iox_alt_hdd.dsk gen_context(system_u:object_r:polaris_iox_alt_hdd_files_t,s0)

#All the possible IOX guestshell_dir from iox_polaris.conf
/guestshell/(.*)?\.sh gen_context(system_u:object_r:polaris_guestshell_exec_t,s0)

#All the possible IOX flash_dir/harddisk_dir from iox_polaris.conf

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<table>
<thead>
<tr>
<th>Directory Path</th>
<th>Access Context</th>
</tr>
</thead>
<tbody>
<tr>
<td>/bootflash/iox(/.*)?</td>
<td>gen_context(system_u:object_r:polaris_iox_files_t,s0)</td>
</tr>
<tr>
<td>/mnt(sd3)/iox(/.*)?</td>
<td>gen_context(system_u:object_r:polaris_iox_files_t,s0)</td>
</tr>
<tr>
<td>/flash1/iox(/.*)?</td>
<td>gen_context(system_u:object_r:polaris_iox_files_t,s0)</td>
</tr>
<tr>
<td>/vol/harddisk/iox(/.*)?</td>
<td>gen_context(system_u:object_r:polaris_iox_files_t,s0)</td>
</tr>
<tr>
<td>/vol/disk0/iox(/.*)?</td>
<td>gen_context(system_u:object_r:polaris_iox_files_t,s0)</td>
</tr>
<tr>
<td>/vol/usb1/iox(/.*)?</td>
<td>gen_context(system_u:object_r:polaris_iox_files_t,s0)</td>
</tr>
<tr>
<td>/bootflash/iox_data_share(/.*)?</td>
<td>gen_context(system_u:object_r:polaris_iox_files_t,s0)</td>
</tr>
<tr>
<td>/mnt(sd3)/iox_data_share(/.*)?</td>
<td>gen_context(system_u:object_r:polaris_iox_files_t,s0)</td>
</tr>
<tr>
<td>/flash1/iox_data_share(/.*)?</td>
<td>gen_context(system_u:object_r:polaris_iox_files_t,s0)</td>
</tr>
<tr>
<td>/vol/harddisk/iox_data_share(/.*)?</td>
<td>gen_context(system_u:object_r:polaris_iox_files_t,s0)</td>
</tr>
<tr>
<td>/vol/disk0/iox_data_share(/.*)?</td>
<td>gen_context(system_u:object_r:polaris_iox_files_t,s0)</td>
</tr>
<tr>
<td>/vol/usb1/iox_data_share(/.*)?</td>
<td>gen_context(system_u:object_r:polaris_iox_files_t,s0)</td>
</tr>
<tr>
<td>/bootflash/iox_host_data_share(/.*)?</td>
<td>gen_context(system_u:object_r:polaris_iox_files_t,s0)</td>
</tr>
<tr>
<td>/mnt(sd3)/iox_host_data_share(/.*)?</td>
<td>gen_context(system_u:object_r:polaris_iox_files_t,s0)</td>
</tr>
<tr>
<td>/flash1/iox_host_data_share(/.*)?</td>
<td>gen_context(system_u:object_r:polaris_iox_files_t,s0)</td>
</tr>
<tr>
<td>/vol/harddisk/iox_host_data_share(/.*)?</td>
<td>gen_context(system_u:object_r:polaris_iox_files_t,s0)</td>
</tr>
<tr>
<td>/vol/disk0/iox_host_data_share(/.*)?</td>
<td>gen_context(system_u:object_r:polaris_iox_files_t,s0)</td>
</tr>
<tr>
<td>/vol/usb1/iox_host_data_share(/.*)?</td>
<td>gen_context(system_u:object_r:polaris_iox_files_t,s0)</td>
</tr>
<tr>
<td>/opt/cisco/caf/scripts/(.<em>)?.(.</em>).sh</td>
<td>gen_context(system_u:object_r:polaris_caf_exec_t,s0)</td>
</tr>
<tr>
<td>/var/log/caf(/.*)?</td>
<td>gen_context(system_u:object_r:polaris_caf_log_t,s0)</td>
</tr>
<tr>
<td>/etc/guestshell_rsa_key.pub</td>
<td>gen_context(system_u:object_r:polaris_guestshell_ssh_key_t,s0)</td>
</tr>
<tr>
<td>/etc/guestshell_rsa_key</td>
<td>gen_context(system_u:object_r:polaris_guestshell_ssh_key_t,s0)</td>
</tr>
<tr>
<td>/tmp/caf(/.*)?</td>
<td>gen_context(system_u:object_r:polaris_caf_tmp_files_t,s0)</td>
</tr>
<tr>
<td>/bootflash/caf(/.*)?</td>
<td>gen_context(system_u:object_r:polaris_caf_tmp_files_t,s0)</td>
</tr>
<tr>
<td>/mnt(sd3)/caf(/.*)?</td>
<td>gen_context(system_u:object_r:polaris_caf_tmp_files_t,s0)</td>
</tr>
<tr>
<td>/flash1/caf(/.*)?</td>
<td>gen_context(system_u:object_r:polaris_caf_tmp_files_t,s0)</td>
</tr>
<tr>
<td>/vol/harddisk/caf(/.*)?</td>
<td>gen_context(system_u:object_r:polaris_caf_tmp_files_t,s0)</td>
</tr>
<tr>
<td>/vol/disk0/caf(/.*)?</td>
<td>gen_context(system_u:object_r:polaris_caf_tmp_files_t,s0)</td>
</tr>
<tr>
<td>/vol/usb1/caf(/.*)?</td>
<td>gen_context(system_u:object_r:polaris_caf_tmp_files_t,s0)</td>
</tr>
<tr>
<td>/var/run/netns/guestshell</td>
<td>gen_context(system_u:object_r:polaris_guestshell_var_run_t,s0)</td>
</tr>
<tr>
<td>/var/run/cisco_cli(/.*)?</td>
<td>gen_context(system_u:object_r:polaris_caf_var_run_t,s0)</td>
</tr>
<tr>
<td>/tmp/ttyF(.<em>)(/.</em>)(.*)</td>
<td>gen_context(system_u:object_r:fifo_var_run_t,s0)</td>
</tr>
</tbody>
</table>
# All the possible IOX bootflash/guest-share directory. This directory is shared between IOS and IOX
/bootflash/guest-share(/.*)? gen_context(system_u:object_r:polaris_iox_shared_files_t,s0)
/mnt/sd3/guest-share(/.*)?   gen_context(system_u:object_r:polaris_iox_shared_files_t,s0)
/flash1/guest-share(/.*)?   gen_context(system_u:object_r:polaris_iox_shared_files_t,s0)
/flash11/guest-share(/.*)?  gen_context(system_u:object_r:polaris_iox_shared_files_t,s0)
/vol/harddisk/guest-share(/.*)?  gen_context(system_u:object_r:polaris_iox_shared_files_t,s0)
/vol/disk0/guest-share(/.*)?  gen_context(system_u:object_r:polaris_iox_shared_files_t,s0)
/vol/usb1/guest-share(/.*)?  gen_context(system_u:object_r:polaris_iox_shared_files_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscaf.fc
No license file was found, but licenses were detected in source scan.

#
# December 2019, Victor Kamensky
#
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#

# polarisfnfagg file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfnfagg.fc
No license file was found, but licenses were detected in source scan.

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## <summary>Polaris cmm Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmm.if
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#

# polarisplodg file contexts place holder
dnl

dnl April 2018, Victor Kamensky

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dnl
divert(-1)

include(`polaris_process.m4')
include(`polaris_process_if.m4')

include(`polaris_ipc_mqipc.m4')
include(`polaris_ipc_mqipc_if.m4')

include(`polaris_ipc_ripc.m4')
include(`polaris_ipc_ripc_if.m4')

include(`polaris_ipc_lipc.m4')
include(`polaris_ipc_lipc_if.m4')

dnl Stub out non existent one
define('polaris_websocket_service_server',``)
define('polaris_cipc_service_server',``)

include(`polaris_max_scope.m4')

divert(0)dnl

#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#
## <summary>Polaris Platform IPC Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisplogd.fc
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#
Open Source Used In Crosswork Platform Infrastructure

/tmp/1.ndbutil-loadgen_context(system_u:object_r:polaris_dmi_ndbutil_lock_t,s0)
/tmp/1.ndbutil-use gen_context(system_u:object_r:polaris_dmi_ndbutil_lock_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmindbmand.fc
No license file was found, but licenses were detected in source scan.

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#

/dev/cpp_vxe_rsrc -c gen_context(system_u:object_r:polaris_cpp_device_t,s0)
/dev/cpp_dev_info -c gen_context(system_u:object_r:polaris_cpp_device_t,s0)
/dev/cpp -c gen_context(system_u:object_r:polaris_cpp_device_t,s0)
/dev/cpp_kipc -c gen_context(system_u:object_r:polaris_cpp_device_t,s0)
# on 1ng box
/dev/octeon_device -c gen_context(system_u:object_r:polaris_cpp_device_t,s0)
/dev/cpp_pdma -c gen_context(system_u:object_r:polaris_cpp_device_t,s0)
/dev/95_[0-9]* -c gen_context(system_u:object_r:polaris_i95_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscpp.fc
No license file was found, but licenses were detected in source scan.

#
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#

policy_module(polarisservicemgr, 1.0);
gen_require('  
    type polaris_service_mgr_t;
')

polaris_btrace_data_manage(polaris_service_mgr_t)
polaris_crft_data_manage(polaris_service_mgr_t)
polaris_chasfs_manage(polaris_service_mgr_t)
polaris_cpld_read(polaris_service_mgr_t)
polaris_flashlib_read(polaris_service_mgr_t)
polaris_lua_read(polaris_service_mgr_t)
polaris_tdlresolve_read(polaris_service_mgr_t)

polaris_ripc_sman_ui_serv_connect(polaris_service_mgr_t)

polaris_db_tdlldb_dir_use(polaris_service_mgr_t)

# Use REPM MQIPC for replication
polaris_repm_peer_mqipc_manage(polaris_service_mgr_t)

#watches of /tmp/[rp|fp|cc]/pvp/process_state directory
polaris_process_state_watch(polaris_service_mgr_t)

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisservicemgr.te
No license file was found, but licenses were detected in source scan.

#
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#
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#

policy_module(polaris_pvp, 1.0);

polaris_process_domain_template(pvp)

# transition to pman domain, once pman is invoked by pvp
polaris_pman_domtrans(polaris_pvp_t)

corecmd_exec_bin(polaris_pvp_t)
corecmd_exec_shell(polaris_pvp_t)
# can execute hostname in pvp domain
hostname_exec(polaris_pvp_t)
# can execute process in polaris domain
polaris_exec(polaris_pvp_t)
# allow to read /proc/meminfo
kernel_read_system_state(polaris_pvp_t)

# allow to getattr of /proc file system during find over it
kernel_getattr_proc(polaris_pvp_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_pvp_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_pvp_t)

# all to read sysctl files in /proc directory
kernel_read_all_sysctls(polaris_pvp_t)

# work with /tmp files

type polaris_pvp_tmp_t;
files_tmp_file(polaris_pvp_tmp_t)
manage_dirs_pattern(polaris_pvp_t, tmp_t, polaris_pvp_tmp_t)
manage_files_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_pvp_tmp_t)
manage_fifo_files_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_pvp_tmp_t)
files_tmp_filetrans(polaris_pvp_t, polaris_pvp_tmp_t, { file dir })
filetrans_pattern(domain, tmp_t, polaris_pvp_tmp_t, dir, "pvp")

# /tmp/silent_roll_select.log handling on Macallan
filetrans_pattern(domain, tmp_t, polaris_pvp_tmp_t, file, "silent_roll_select.log")

# work with /tmp/[rp|fp|cc]/pvp/process_state files

type polaris_process_state_t;
files_tmp_file(polaris_process_state_t)
manage_dirs_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_process_state_t)
manage_files_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_process_state_t)
filetrans_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_process_state_t, dir, "process_state")

# LOOK AT ME now all polaris process can change each other process
# state. Need to fix it with more process specific labels in case
# when polaris_domain_process becomes template.
gen_require(
        attribute polaris_domain;
    )
polaris_pvp_manage_process_state_files(polaris_domain)

allow polaris_pvp_t self:capability sys_resource;

# readlink access to /proc/<pid>/fd/0 triggers sys_ptrace capability need
allow polaris_pvp_t self:capability { sys_ptrace };
dmidecode_domtrans(polaris_pvp_t)
# on some ngwc pvp has to code-sign-verify silent roll packages
ifdef('ngwc_family,'
    polarsis_code_verify_domtrans(polaris_pvp_t)
')

dpolarsis_btrace_data_manage_all(polaris_pvp_t)
dpolarsis_chasfs_manage(polaris_pvp_t)
dpolarsis_cpld_read(polaris_pvp_t)
dpolarsis_cpld_write(polaris_pvp_t)
dpolarsis_proc_rmonbifo_read(polaris_pvp_t)
dpolarsis_rmonbifo_tmp_read(polaris_pvp_t)
dpolarsis_ddldb_list_dirs(polaris_pvp_t)
dpolarsis_boot_tmp_read(polaris_pvp_t)
dpolarsis_read_debug_conf(polaris_pvp_t)

# LOOK AT ME pvp.sh runs find over /proc. Needs access
# to state of all processes
domain_read_all_domains_state(polaris_pvp_t)

# pvp.sh can call logger command
dlogging_send_syslog_msg(polaris_pvp_t)

# should it not be moved to dmidecode module or better
# change script to call dmidecode with stdin redirected
# from /dev/null (i.e dmidecode < /dev/null)
gen_require(''
    type dmidecode_t;
')
dpolaris_pvp_stdio_read(dmidecode_t)

# read pman tmp files
dpolarsis_pman_read_tmp_files(polaris_pvp_t)

#allow polarsis_pvp_t polarsis_udev_tmp_files_t:dir { getattr search };
dpolarsis_udev_tmp_list_dirs(polaris_pvp_t)

gen_require(''
    type initrc_t;
    type init_t;
')
#init_script_tmp_filetrans(initrc_t, polarsis_pvp_tmp_t, file, "iosd_memory_share")
dfiles_tmp_filetrans({ initrc_t init_t }, polarsis_pvp_tmp_t, file, "iosd_memory_share")
dpolarsis_systemd_tmpfiles_tmp_filetrans(polaris_pvp_tmp_t, dir, "max_elastic_bays")

# direct access to serial TTY devices like /dev/ttyS1
term_write_unallocated_ttys(polaris_pvp_t)
# For Cabo, allow access to GNSS device
ifdef(`cabo_platform',`
  polaris_cabo_gnss_dev_use(polaris_pvp_t)
')

# on ultra pvp calls hv_ttyprobe utility to figure out what terminal
# to use as console, and this one need read access to terminal. There is
# no separate macro for read only. But since we granting write to everyone
# let use 'use' which means read/write
ifdef(`vxe_family',`
term_use_unallocated_ttys(polaris_pvp_t)
')
ifdef(`wlc_family',`
term_use_unallocated_ttys(polaris_pvp_t)
')

# pvp's linux_iosd_image_env.sh will check /dev/ttyUSB* ports with hv_ttyprobe too.
term_use_usb_ttys(polaris_pvp_t)

# allow access and modify files in /tftp directory, cannot use tftp_manage_rw_content
# since it does not cover link files
gen_require(`
  type tftpdir_rw_t;
')
manage_dirs_pattern(polaris_pvp_t, tftpdir_rw_t, tftpdir_rw_t)
manage_files_pattern(polaris_pvp_t, tftpdir_rw_t, tftpdir_rw_t)
manage_lnk_files_pattern(polaris_pvp_t, tftpdir_rw_t, tftpdir_rw_t)

# ASR1K modular platforms create /tftp/inv/inventory_$fru_$slot.bin
# /tftp/inv is not a softlink but a directory for asr1k Modular platforms.
# So it needs a file transition to polaris_chasfs_t for accessing it.
ifdef(`mcp_family',`
  filetrans_pattern(domain, tftpdir_rw_t, polaris_chasfs_t, dir, "inv")
')

# on ultra platform hv_ttyprobe utility that runs under polaris_pvp_t label
# checks for existence of /boot/ttyS0_ignore file; and since /boot is symlink
# to /varied it need dir search permission over polaris_disk_varied_t
ifdef(`vxe_family',`
polaris_disk_varied_search(polaris_pvp_t)
')
ifdef(`wlc_family',`
polaris_disk_varied_search(polaris_pvp_t)
')

# pvp.sh calls cp utility with -a option that should preserve files
# attributes as result cp needs to perform set_process_security_ctx call
# which in turns calls setfscreatecon
allow polaris_pvp_t self:process setfscreate;
# pvp.sh calls pidof utility and it needs read access to sysfs_t
#
# When resetting a partner, pvp writes to the PCIe switch global
# reset register using the i2c driver, which is also sysfs_t
# LOOK AT ME should we create a new type for the PCIe switch reg
# dev_rw_sysfs(polaris_pvp_t)

# wants to execute /bin/dmesg
dmesg_domtrans(polaris_pvp_t)

# wants to read from /tmp/rp/pvp/work/inot_fifo
gen_require(
    type dmesg_t;
')
# RW_fifo_files_pattern(dmesg_t, polaris_pvp_tmp_t, polaris_pvp_tmp_t)

# wants to write into /bootflash/prst_sync
polaris_persistent_manage(polaris_pvp_t)

# pvp tried to find all except hman polaris process with
# 'find /tmp/rp/process -name *.pid ! -name *hman* -printf %p' command
# should be able to read pman tmp files
polaris_pman_read_tmp_files(polaris_pvp_t)

# on way down pvp.sh call 'workon.sh rp 0 rotate force' so we
# need to transition and run it in btrace_rotate domain
polaris_btrace_rotate_domtrans(polaris_pvp_t)

# on way down pvp.sh checks for *.TEMP_IN_PROGRESS in /misc/scratch/core
# need to be able read /misc/scratch link
polaris_disk_bootflash_read_lnk(polaris_pvp_t)

# implode.sh things, should we run them in its own domain?

# removes /etc/exports, create a new empty one and runs 'exportfs -ua'
# this action also needs kernel_rw_rpc_sysctls to flush
files_manage_etc_files(polaris_pvp_t)
gen_require(
    type exports_t;
')
allow polaris_pvp_t exports_t:file delete_file_perms;
# this action also needs kernel_rw_rpc_sysctls to flush
rpc_write_exports(polaris_pvp_t)
rpc_manage_nfs_state_data(polaris_pvp_t)
kernal_rw_rpc_sysctls(polaris_pvp_t)

# calls 'systemctl reboot'
systemd_start_power_services(polaris_pvp_t)
# pvp on 1ng attempts to rm readonly fpd firmware file, not sure why
polaris_firmware_getattr(polaris_pvp_t)

# pvp reads /tmp/iosd_level
polaris_lm_tmp_read(polaris_pvp_t)
allow polaris_pvp_t self:capability dac_override;

# in some image pvp needs to monut /tmp/rp/tlddb, in other images
# it got mount by chasfs_boottime.sh systemd unit
polaris_tlddb_manage_dirs(polaris_pvp_t)
mount_domtrans(polaris_pvp_t)

# in some cases pvp script creates /tmp/xx/process directory
polaris_pman_tmp_filetrans(polaris_pvp_t, dir, "process")
polaris_pman_manage_tmp_files(polaris_pvp_t)

# on ngwc pvp creates /flash1/NVRAM directory
gen_require(
    type polaris_nvram_file_t;
    type root_t;
')
filetrans_pattern(polaris_pvp_t, root_t, polaris_nvram_file_t, dir, "flash1")
manage_dirs_pattern(polaris_pvp_t, polaris_nvram_file_t, polaris_nvram_file_t)

# obtain access to rommon vars which live in flashlib
polaris_flashlib_read(polaris_pvp_t)
polaris_flashlib_write(polaris_pvp_t)

# on ngwc platforms pvp creates a /obfl_cc directory and soft links it
# to the correct vbd device
ifdef("ngwc_family",
    gen_require(
        type polaris_obfl_data_t;
        type root_t;
    ')
    filetrans_pattern(polaris_pvp_t, root_t, polaris_obfl_data_t, dir, "obfl_cc")
')

# on ngwc platforms pvp needs to be able to determine if the the vbd devices
# exist. The types may be slightly different depending on whether the cc's
# device node is managed by udev or not
ifdef("ngwc_family",
    dev_getattr_generic_blk_files(polaris_pvp_t)
    storage_getattr_fixed_disk_dev(polaris_pvp_t)
    udev_read_db(polaris_pvp_t)
')

# on ngwc platforms pvp soft links the /tmp/sw/cc_srdriver/<slot> directory
# to the correct silent roll software package via vbd_sr_app_init()
ifdef('ngwc_family',
polaris_sw_data_manage(polaris_pvp_t)
')

# on blackheart pvp creates /blackheart_config directory
ifdef('blackheart_platform',
gen_require('    type polaris_nvram_file_t;
    type root_t;
')
filetrans_pattern(polaris_pvp_t, root_t, polaris_nvram_file_t, dir, "blackheart_config")
manage_dirs_pattern(polaris_pvp_t, polaris_nvram_file_t, polaris_nvram_file_t)
')

# on sparrow pvp creates /sparrow_config directory
ifdef('sparrow_platform',
gen_require('    type polaris_nvram_file_t;
    type root_t;
')
filetrans_pattern(polaris_pvp_t, root_t, polaris_nvram_file_t, dir, "sparrow_config")
manage_dirs_pattern(polaris_pvp_t, polaris_nvram_file_t, polaris_nvram_file_t)
')

# on Aventus pvp creates /aventus_config directory
ifdef('aventus_platform',
gen_require('    type polaris_nvram_file_t;
    type root_t;
')
filetrans_pattern(polaris_pvp_t, root_t, polaris_nvram_file_t, dir, "aventus_config")
manage_dirs_pattern(polaris_pvp_t, polaris_nvram_file_t, polaris_nvram_file_t)
fs_manage_configfs_files(polaris_pvp_t)
')

# on utah for cc and on 1ng cyan_init.sh is executed by pvp
polaris_dyncfg_domtrans(polaris_pvp_t)
# should it not be moved to cyan module or better
# change script to call cyan_init.sh with stdin redirected
# from /dev/null (i.e cyan_init.sh < /dev/null)
gen_require('    type polaris_dyncfg_t;
')
polaris_pvp_stdin_read(polaris_dyncfg_t)

# mktmpfd checks /tmp file system attributes
fs_getattr_tmpfs(polaris_pvp_t)
optional_policy(
  # pvp on nyquist ls /tmp/ufs/crashinfo
  polaris_ncd_tmp_read(polaris_pvp_t)
')

# transition to polaris_load_usbnet_t, once load_usbnet.sh is invoked by pvp
# crankshaft platforms need access to configfs
ifdef('crankshaft_family',
  polaris_load_usbnet_domtrans(polaris_pvp_t)
  gen_require('
    type configfs_t;
  ')
  allow polaris_pvp_t configfs_t:dir getattr;
')

# runs rsync -ptgoDLq /bootflash/installer/issu_crash/fru_crash rsync://rp0-0/bootflash/installer/...
rsync_entry_type(polaris_pvp_t)
ifdef('ngwc_family',
  polaris_chvrf_domtrans(polaris_pvp_t)
  gen_require('
    type rsync_t;
  ')
  allow rsync_t polaris_pvp_t:process sigchld;
')

# pvp_tmp file descriptor leaks into mcp_chvrf.sh
gen_require('
  type polaris_chvrf_t;
  type polaris_pvp_tmp_t;
  ')
allow polaris_chvrf_t polaris_pvp_tmp_t:fifo_file { ioctl read };')

# statfs64 over /tmp
fs_getattr_xattr_fs(polaris_pvp_t)

polaris_tdlresolve_read(polaris_pvp_t)
corenet_tcp_connect_rsync_port(polaris_pvp_t)

# runs over /proc/<pid>/net/arp
kernel_read_network_state(polaris_pvp_t)

# runs over /proc/
kernel_read_network_state_symlinks(polaris_pvp_t)

# work with mounts
mount_domtrans(polaris_pvp_t)

optional_policy('  
  # pvp.sh may mark or clear bits in /proc/exiting_bays
  polaris_rw_exiting_bays(polaris_pvp_t)
')

optional_policy('  
  container_runtime_domtrans(polaris_pvp_t)
')

# LOOK AT ME /usr/binos/conf/dockerd_env.sh not only sets environment  
# it also does quite a bit of action in context of pvp when it got  
# sourced before dockerd start
optional_policy('  
  fs_getattr_all_fs(polaris_pvp_t)
  files_getattr_all_dirs(polaris_pvp_t)
  fs_read_nsfs_files(polaris_pvp_t)
  container_manage_config_files(polaris_pvp_t)
  polaris_caf_files_read(polaris_pvp_t)
  # creates /var/log/docker/docker.log
  logging_manage_generic_logs(polaris_pvp_t)
  gen_require('    
      type var_log_t;
  ')
  allow polaris_pvp_t var_log_t.dir create;
')

# support uswap feature.
# pvp script create and deletes  
# the /bootflash/uswap/* folder.
type polaris_uswap_files_t;
files_type(polaris_uswap_files_t)
polaris_pfile_type(polaris_uswap_files_t)
filetrans_pattern(polaris_pvp_t, polaris_disk_bootflash_t, polaris_uswap_files_t, dir, ".USWAP")
manage_dirs_pattern(polaris_pvp_t, polaris_uswap_files_t, polaris_uswap_files_t)
manage_files_pattern(polaris_pvp_t, polaris_uswap_files_t, polaris_uswap_files_t)
manage_lnk_files_pattern(polaris_pvp_t, polaris_uswap_files_t, polaris_uswap_files_t)

# support for pvp to create /harddisk/.CRFT directory
filetrans_pattern(polaris_pvp_t, polaris_disk_bootflash_t, polaris_crft_data_t, dir, ".CRFT")

# Support SAI
type polaris_pvp_sai_t;
files_tmp_file(polaris_pvp_sai_t)
filetrans_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_pvp_sai_t, dir, "sai_process")
manage_dirs_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_pvp_sai_t)
manage_files_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_pvp_sai_t)
# all processes controlled by pchort require access to sai files
gen_require(
    attribute polaris_domain;
)
polaris_pvp_read_sai_files(polaris_domain)

ifdef(`ngwc_family,'
# nmod_vbd_handle_mount@.service started by pvp on macallan
systemd_config_generic_services(polaris_pvp_t)
')

type polaris_pvp_var_run_t;
files_pid_file(polaris_pvp_var_run_t)
gen_require(
    type var_run_t;
')
manage_files_pattern(polaris_pvp_t, var_run_t, polaris_pvp_var_run_t)
files_pid_filetrans(polaris_pvp_t, polaris_pvp_var_run_t, file, ".uswap_clr_rp")
files_pid_filetrans(polaris_pvp_t, polaris_pvp_var_run_t, file, ".uswap_clr_fp")
files_pid_filetrans(polaris_pvp_t, polaris_pvp_var_run_t, file, ".uswap_clr_cc")

# watch over /tmp/rp/pvp/control
allow polaris_pvp_t polaris_pvp_tmp_t:dir watch;

## permissions required during shutdown

# implode.sh 'systemctl reboot' uses dbus
dbus_system_bus_client(polaris_pvp_t)

# and checks reboot.target
systemd_status_power_services(polaris_pvp_t)

# writes sysctl_i2c.lck file
gen_require(
    type polaris_cm_rp_tmp_t;
')
files_tmp_filetrans(polaris_pvp_t, polaris_cm_rp_tmp_t, file, "sysctl_i2c.lck")
polaris_cm_rp_tmp_manage(polaris_pvp_t)

# journalctl and ifconfig are used when gathering logs during a punt-inject
# crash
journalctl_domtrans(polaris_pvp_t)
sysnet_domtrans_ifconfig(polaris_pvp_t)
# and allow it to write to our shutdownlog
gen_require(
    type ifconfig_t;
')
polaris_btrace_data_manage_all(ifconfig_t)
# implode.sh checks ip interfaces before ifconfig
polaris_socketat_nsfs_read(polaris_pvp_t)

# cedge uses logrotate
polaris_ripe_confld_ipc_connect(polaris_pvp_t)
# logrotate perms
polaris_confld_var_log_manage(polaris_pvp_t)
allow polaris_pvp_t self:capability { chown fowner };
# var_lib stuff
files_manage_urandom_seed(polaris_pvp_t)

# vconfd_script_admin tech.sh is invoked by pvp.sh. This requires a domain
# transition from pvp to admin tech context.
polaris_admin_tech_domtrans(polaris_pvp_t)

## systemreport related permissions
# pd_info collection when triggering systemreport
# fdisk permissions
storage_raw_read_fixed_disk( polaris_pvp_t );
fstools_manage_entry_files( polaris_pvp_t);
fstools_exec( polaris_pvp_t );
polaris_rommon_device_read(polaris_pvp_t)
# dmesg writes to pd_info path
write_files_pattern(dmesg_t, polaris_disk_bootflash_t, polaris_disk_bootflash_t )
gen_require('
    type admin_home_t;
')
# top creates>writes dir /.config
allow polaris_pvp_t admin_home_t:dir { add_name create write };
# drop-caches
kernel_rw_vm_sysctls( polaris_pvp_t );

# systemreport collection reads all sorts of files
# but also deletes those files afterwards...
logging_manage_audit_log(polaris_pvp_t)

# report collects maroon data
polaris_maroon_data_manager_all(polaris_pvp_t);
polaris_tdlresolve_manager(polaris_pvp_t);

# collect udev log
polaris_udev_tmp_manager(polaris_pvp_t)

init_status(polaris_pvp_t);
dnl

dnl April 2018, Victor Kamensky

dnl

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dnl
define(`ripc_stem', `translit(patsubst($1, `-ripc$', `'), `-', `_'))
define(`ripc_label', `format(`polaris_%s_ripc_port_t', ripc_stem($1))')

dnl Ripc Type Map: track that type declations unique
define(`ripc_type_map', `defn(format(``ripc_type_map[%s]'', `$1'))')
define(`ripc_type_map_set', `define(format(``ripc_type_map[%s]'', `$1'), `$2'))

policy_module(polarisquack, 1.0);

# Quack Driver policy


type polaris_quack_device_t;
dev_node(polaris_quack_device_t)


# Polaris lua files
/lua/(.*)(.*)lua --gen_context(system_u:object_r:polaris_lua_file_t,s0)
/usr/binos/conf/(.*)(.*)lua --gen_context(system_u:object_r:polaris_lua_file_t,s0)
/lua/(.*)so --gen_context(system_u:object_r:lib_t,s0)
/lua/(.*) --dgen_context(system_u:object_r:usr_t,s0)
/lua --dgen_context(system_u:object_r:usr_t,s0)

# Polaris nginx lua files
/var/scripts/lua(.*).so --gen_context(system_u:object_r:polaris_lua_file_t,s0)
/var/scripts/lua(.*).lua --gen_context(system_u:object_r:polaris_lua_file_t,s0)

# why did we put .so libraries in /var directory?
/var/LibLua/LuaXML_lib.so --gen_context(system_u:object_r:lib_t,s0)
/var/LibLua/cjson.so --gen_context(system_u:object_r:lib_t,s0)
/var/LibLua/(.*)lua --gen_context(system_u:object_r:polaris_lua_file_t,s0)
/lua -- gen_context(system_u:object_r:polaris_lua_file_t,s0)
/lua/(.*) -- gen_context(system_u:object_r:polaris_lua_file_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislua.fc
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#

/tmp/sw/cfg(.*).so --gen_context(system_u:object_r:polaris_cfg_data_t,s0)
/usr/binos/conf/cfg_sync.sh -- gen_context(system_u:object_r:polaris_cfg_sync_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscfg.fc
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#

/var/log/dmi(.*).so --gen_context(system_u:object_r:polaris_dmi_var_log_t,s0)
/tmp/stream-parsers(.*).so --gen_context(system_u:object_r:polaris_dmi_parser_t,s0)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmiodatamgrd.fc
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## <summary>Polaris container Policy Rules.</summary>

### <summary>Creates types and rules for a basic polaris container process domain.</summary>

### <param name="stem">Stem for the domain. Name is constructed as polaris_stem_container_t</param>

# template('polaris_container_domain_template',

```c

gen_require(
    type svirt_sandbox_file_t;
    type virt_lxc_var_run_t;
    attribute sandbox_net_domain;
    attribute svirt_sandbox_domain;
    bool virt_sandbox_use_sys_admin;
    bool virt_sandbox_use_mknod;
    bool virt_sandbox_use_all_caps;
    bool virt_sandbox_use_netlink;
)

type polaris_$1_container_t, svirt_sandbox_domain;
domain_type(polaris_$1_container_t)
domain_user_exemption_target(polaris_$1_container_t)
mls_rangetrans_target(polaris_$1_container_t)
mcs_constrained(polaris_$1_container_t)
role system_r types polaris_$1_container_t;

logging_send_syslog_msg(polaris_$1_container_t)

kernel_read_system_state(polaris_$1_container_t)
k kernel_read_all_proc(polaris_$1_container_t)
```
virt_default_capabilities(polaris_$1_container_t)
typedef attribute polaris_$1_container_t sandbox_net_domain;
dontaudit polaris_$1_container_t self:capability fsetid;
dontaudit polaris_$1_container_t self:capability block_suspend;
allow polaris_$1_container_t self:process { execstack execmem };
manage_chr_files_pattern(polaris_$1_container_t, svirt_sandbox_file_t, svirt_sandbox_file_t)
kernal_load_module(polaris_$1_container_t)

tunable_policy('virt_sandbox_use_sys_admin',
    allow polaris_$1_container_t self:capability sys_admin;
')

tunable_policy('virt_sandbox_use_mknod',
    allow polaris_$1_container_t self:capability mknod;
')

tunable_policy('virt_sandbox_use_all_caps',
    allow polaris_$1_container_t self:capability all_capability_perms;
    allow polaris_$1_container_t self:capability2 all_capability2_perms;
')

tunable_policy('virt_sandbox_use_netlink',
    allow polaris_$1_container_t self:netlink_socket create_socket_perms;
    allow polaris_$1_container_t self:netlink_tcpdiag_socket create_netlink_socket_perms;
    allow polaris_$1_container_t self:netlink_kobject_uevent_socket create_socket_perms;
    
    logging_dontaudit_send_audit_msgs(polaris_$1_container_t)
')

allow polaris_$1_container_t virt_lxc_var_run_t:dir list_dir_perms;
allow polaris_$1_container_t virt_lxc_var_run_t:file read_file_perms;

correct_irq_sysctls(polaris_$1_container_t)
correct_messages(polaris_$1_container_t)

dev_read_sysfs(polaris_$1_container_t)
dev_read_mtrr(polaris_$1_container_t)
dev_read_rand(polaris_$1_container_t)
dev_read_urand(polaris_$1_container_t)

files_read_kernel_modules(polaris_$1_container_t)

# Do we actually need these?
fs_mount_cgroup(polaris_$1_container_t)
fs_manage_cgroup_dirs(polaris_$1_container_t)
fs_manage_cgroup_files(polaris_$1_container_t)

# Needed for docker
fs_unmount_xattr_fs(polaris_$1_container_t)
auth_use_nsswitch(polaris_$1_container_t)

optional_policy(
  rpm_read_db(polaris_$1_container_t)
)

logging_send_syslog_msg(polaris_$1_container_t)

tunable_policy(`virt_sandbox_use_audit`,
  logging_send_audit_msgs(polaris_$1_container_t)
)

userdom_use_user_ptys(polaris_$1_container_t)

optional_policy(
  # allow vman to kill lxc container process
  # on shutdown where vman destroys container-related
  # stuff after a timeout period
  polis_vman_kill_process(polaris_$1_container_t)
)

# copied from polariscommon.if. If the label is added in
# in permissive map, the below interface will make permissive
ifelse(permissive_domain(polaris_$1_container_t), polaris_$1_container_t,
  `polaris_permissive_domain_setup(polaris_$1_container_t)`
, confined_domain(polaris_$1_container_t), polaris_$1_container_t, ``,
  `polaris_domain_maybe_unconfined(polaris_$1_container_t)`)

# Creates types and rules for a basic
# polaris KVM container process domain.
</summary>

'R
## <param name="stem">
## <summary>
## Stem for the domain. Name is contructed as polaris_stem_container_t
## </summary>
## </param>

template(`polaris_kvm_domain_template',
  gen_require(
    attribute virt_domain;
    type svirt_image_t;
    `)
)
# for now, things are same as polaris_container_domain_template
polaris_container_domain_template($1)

typeattribute polaris_$1_container_t virt_domain;
# allow {map} of svirt_image_t needed by VWAAS similar to svirt
allow polaris_$1_container_t svirt_image_t:{ file blk_file } map;
')
#######################################
</summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_sandbox_file_read',`

read_files_pattern($1, svirt_sandbox_file_t, svirt_sandbox_file_t)
read_lnk_files_pattern($1, svirt_sandbox_file_t, svirt_sandbox_file_t)
list_dirs_pattern($1, svirt_sandbox_file_t, svirt_sandbox_file_t)
')

#######################################
</summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_sandbox_file_dir_list',`

type polaris_disk_bootflash_t;

list_dirs_pattern($1, { svirt_sandbox_file_t polaris_disk_bootflash_t polaris_disk_harddisk_t },
svirt_sandbox_file_t)
optional_policy(`

')
list_dirs_pattern($1, polaris_iox_alt_hdd_files_t, svirt_sandbox_file_t)

`

`)
## <summary>
##      Allow domain transition
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_iox_container_domtrans',
   gen_require(''
      type polaris_iox_container_t;
      type container_file_t;
   ')
   domain_transition_pattern($1, container_file_t, polaris_iox_container_t)
')

#########################################
## <summary>
##      Allow watch on container files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_iox_container_watch',
   gen_require(''
      type tmpfs_t;
      type container_file_t;
   ')
   allow $1 container_file_t:{ dir file lnk_file} watch;
   allow $1 tmpfs_t:{ dir file lnk_file} watch;
')

########################################
## <summary>
##      Send messages to utdl container unix datagram sockets.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_utdl_container_dgram_send',
   gen_require(''
      type tmpfs_t;
      type container_file_t;
   ')
      type polaris_utdl_container_t;
   type utdl_socket_t;
   type utdl_channel_t;
   type utdl_message_t;
   type utdl_user_t;
   type utdl_error_t;
   type utdl_polaris_loc_t;
   type utdl_netloc_t;
')

type polaris_utdl_container_t;
  )
  allow $1 polaris_utdl_container_t:unix_dgram_socket sendto;
  )

###################################################################
## <summary>
##    Allow unix stream socket connect
## </summary>
## <param name="domain">
##    <summary>
##    Domain allowed access.
##    </summary>
## </param>
#
interface('polaris_waas_stream_connect',
  gen_require(
    type polaris_waas_container_t;
    )
  allow $1 polaris_waas_container_t:unix_stream_socket connectto;
  )

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscontainer.if
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#
# March 2017, Victor Kamensky
#
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#
/tmp/.flashlock       -- gen_context(system_u:object_r:polaris_flashlib_lock_t,s0)
/tmp/flashdev.log     -- gen_context(system_u:object_r:polaris_flashlib_log_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisflashlib.fc
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#
# Oct 2020, Xin Xiang
#
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#
# dma map devices
/dev/dmammap -c gen_context(system_u:object_r:polaris_dmammap_device_t,s0)

# /dev/dma_nw is introduced by Nightwatch switch module on ESG routing platform
/dev/dma_nw -c gen_context(system_u:object_r:polaris_dmammap_device_t,s0)

# dplr interrupt devices
/dev/dplr_intrpt -c gen_context(system_u:object_r:polaris_dplr_device_t,s0)

# /dev/dplr_nw is introduced by Nightwatch switch module on ESG routing platform
/dev/dplr_nw -c gen_context(system_u:object_r:polaris_dplr_device_t,s0)

# e.g., /dev/msi/Slot8/Doppler0/Group0
/dev/msi/Slot[0-9]*/Doppler[0-9]* -c gen_context(system_u:object_r:polaris_dplr_device_t,s0)
/dev/msi/Slot[0-9]*/Doppler[0-9]*(/.*)? -c gen_context(system_u:object_r:polaris_dplr_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdoppler.fc
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#
# March 2017, Victor Kamensky
#
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#
## <summary>Polaris ncd Policy Rules.</summary>

##################################################
## <summary>
## Make the specified domain able to manage tmp file created by
## ncd.sh like /tmp/etc/ncd_work_dir
## </summary>
## <param name="type">
## Domain allowed access.
## </param>
#
interface(`polaris_ncd_tmp_manage',`
    gen_require(`
        type polaris_ncd_tmp_t;
    `)
    manage_dirs_pattern($1, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
    manage_files_pattern($1, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
    manage_lnk_files_pattern($1, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
)`)

---

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### <summary>
### Make the specified domain able to read tmp file created by ncd.sh like /tmp/ufs/crashinfo
### </summary>
### <param name="type">
### Domain allowed access.
### </param>

interface(`polaris_ncd_tmp_read`,
  gen_require(
    type polaris_ncd_tmp_t;
  )
  list_dirs_pattern($1, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
  read_files_pattern($1, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
  read_link_files_pattern($1, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
)

### <summary>
### Make the specified domain able to read etc file created by ncd.sh like /etc/conf/unifiedfs/mount_data
### </summary>
### <param name="type">
### Domain allowed access.
### </param>

interface(`polaris_ncd_etc_read`,
  gen_require(
    type polaris_ncd_etc_t;
  )
  read_files_pattern($1, polaris_ncd_etc_t, polaris_ncd_etc_t)
)

### <summary>
### Execute a domain transition to run ncd.
### </summary>
### <param name="domain">
### Domain allowed to transition.
### </param>
#
interface('polaris_ncd_domtrans',
    gen_require(
        type polaris_ncd_t, polaris_ncd_exec_t;
    )
)

domtrans_pattern($1, polaris_ncd_exec_t, polaris_ncd_t)
)

#########################################################################
## <summary>
##      Execute a domain transition to run unifiedfs_helper.sh.
## </summary>
## <param name="domain">
##      ## Domain allowed to transition.
## </param>
#
interface('polaris_ufs_helper_domtrans',
    gen_require(
        type polaris_ufs_helper_t, polaris_ufs_helper_exec_t;
    )
)

domtrans_pattern($1, polaris_ufs_helper_exec_t, polaris_ufs_helper_t)
)

#########################################################################
## <summary>
##      Run rpcinfo in a domain, grant proper network permissions.
## </summary>
## <param name="domain">
##      ## Domain allowed to transition.
## </param>
#
interface('polaris_ncd_rpcinfo_net',
    corenet_tcp_bind_generic_node($1)
corenet_tcp_bind_all_rpc_ports($1)
corenet_tcp_connect_all_rpc_ports($1)
corenet_tcp_connect_unreserved_ports($1)
allow $1 self:tcp_socket { bind connect create getattr getopt setopt };
corenet_udp_bind_generic_node($1)
corenet_udp_bind_all_rpc_ports($1)
corenet_udp_connect_all_rpc_ports($1)
corenet_udp_connect_unreserved_ports($1)
allow $1 self:udp_socket { bind create getattr getopt setopt };

corenet_tcp_connect_portmap_port($1)

ifdef(`passport_platform',`
    # invoked rpcinfo which connects to port 2049 (nfs server)
    # port is incorrectly labelled due to falling in range of TDL define
    # of IOSd gold rpc service
    polaris_ripc_iosd_gold_connect($1)
')

ifdef(`starfleet_platform',`
    # invoked rpcinfo which connects to port 2049 (nfs server)
    # port is incorrectly labelled due to falling in range of TDL define
    # of IOSd gold rpc service
    polaris_ripc_iosd_gold_connect($1)
')

ifdef(`bigbang_platform',`
    # nfs server port 2049 is labelled as ripc-emd_ui_port_t based on TDL define
    polaris_ripc_emd_ui_connect($1)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisncd.if
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
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#

policy_module(polarisepcdm, 1.0);

gen_require(`
    type polaris_cpp_cdm_t;
')

polaris_btrace_data_manage(polaris_cpp_cdm_t)
polaris_crft_data_manage(polaris_cpp_cdm_t)
polaris_chasfs_manage(polaris_cpp_cdm_t)
polaris_tdlresolve_read(polaris_cpp_cdm_t)
polaris_tdlldb_list_dirs(polaris_cpp_cdm_t)
polaris_cpld_read(polaris_cpp_cdm_t)
polaris_flashlib_read(polaris_cpp_cdm_t)
polaris_cpp_tmp_files_use(polaris_cpp_cdm_t)
# works with /dev/cpp_dev_info and /dev/cpp_kipc
polaris_cpp_dev_use(polaris_cpp_cdm_t)
polaris_cpp_tmpfs_ifdev_rw(polaris_cpp_cdm_t)

polaris_icc_broken_relocations(polaris_cpp_cdm_t)

allow polaris_cpp_cdm_t self:capability net_admin;

# get attributes of /dev/shm from glibc where_is_shmfs function
fs_getattr_tmpfs(polaris_cpp_cdm_t)

polaris_cpp_cavium_sdk_ipc_use(polaris_cpp_cdm_t)

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCvh58515)
ifdef(`crankshaft_family',`
polaris_dev_mem_use(polaris_cpp_cdm_t)
')

# overlord/neptune access /sys/bus/pci/devices/0000:01:00.0/resource0
# when initializing the CPP DMAP library.
optional_policy(`
polaris_cpp_cavium_dma_map(polaris_cpp_cdm_t)
')

optional_policy(`
polaris_ebdma_dev_use(polaris_cpp_cdm_t)
')
polaris_cpld_dev_use(polaris_cpp_cdm_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppcdm.te
No license file was found, but licenses were detected in source scan.

#
# August 2017, Victor Kamensky
#
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#
## <summary>Polaris bsm Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbsm.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
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#

/obfl -l gen_context(system_u:object_r:polaris_obfl_data_t,s0)
/obfl0 -l gen_context(system_u:object_r:polaris_obfl_data_t,s0)
/tmp/obfl(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisobfl.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
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#

/dev/cpld -c gen_context(system_u:object_r:polaris_cpld_device_t,s0)
/dev/cpld-ha -c gen_context(system_u:object_r:polaris_cpld_device_t,s0)
/dev/cpld-misc-int -c gen_context(system_u:object_r:polaris_cpld_device_t,s0)
/dev/cpld-virtual-fp -c gen_context(system_u:object_r:polaris_cpld_device_t,s0)
/dev/cpld-virtual-cc -c gen_context(system_u:object_r:polaris_cpld_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscpld.fc
No license file was found, but licenses were detected in source scan.

dnl
dnl January 2021, Vaibhav Lade
dnl
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dnl All rights reserved
dnl
dnl VPCGW Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 0)
max_bay_map_set(`fp', `per_bay', 0)

dnl in elastic scope each process has its own value
max_elastic_map_set(`rp', `elastic', BPROC_UEMGR, 7)
max_elastic_map_set('cc', 'elastic', BPROC_UEMGR, 7)
max_elastic_map_set('fp', 'elastic', BPROC_UEMGR, 7)
max_elastic_ripc_map_set('rp', 'elastic', BPROC_UEMGR, 7)
max_elastic_ripc_map_set('cc', 'elastic', BPROC_UEMGR, 7)
max_elastic_ripc_map_set('fp', 'elastic', BPROC_UEMGR, 7)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/vpcgwmaps.m4
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
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#

## <summary>Polaris gsd_rp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgsdrp.if
No license file was found, but licenses were detected in source scan.

#
# January 2018, Manohar Hungund
#
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#

policy_module(polarisocstdplogrp, 1.0);

gen_require(
    type polaris_oct_dp_log_rp_t;
    
)polaris_btrace_data_manage(polaris_oct_dp_log_rp_t)
polaris_chasfs_manage(polaris_oct_dp_log_rp_t)
polaris_tdlresolve_read(polaris_oct_dp_log_rp_t)
polaris_tddb_list_dirs(polaris_oct_dp_log_rp_t)
polaris_cpld_read(polaris_oct_dp_log_rp_t)
polaris_flashlib_read(polaris_oct_dp_log_rp_t)
polaris_ripc_sman_ui_serv_connect(polaris_oct_dp_log_rp_t)

# direct access to serial TTY devices
# (octeon_dp_logger needs to acces /dev/ttyDASH7)
term_open_unallocated_ttys(polaris_oct_dp_log_rp_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisoctdplogrp.te

No license file was found, but licenses were detected in source scan.

# June 2020, Manu Roy
#
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#

### <summary>Polaris iotswitch Policy Rules.</summary>
#
#

######################################
## <summary>
## Work (read, write, ioctl) with /dev/petra-fpga device
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
### </param>
#
interface(polaris_iots_fpga_dev_use,`
  `gen_require(`
    type device_t;
    type polaris_iots_fpga_device_t;
  `)
  write_chr_files_pattern($1, device_t, polaris_iots_fpga_device_t)
  read_chr_files_pattern($1, device_t, polaris_iots_fpga_device_t)
  allow $1 polaris_iots_fpga_device_t:chr_file map;
`)

######################################
## <summary>
## Work (read, write, ioctl) with /dev/tm
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
### </param>
#
interface(polaris_iots_tm_dev_use,`
  `gen_require(`
    type device_t;
    type polaris_iots_fpga_device_t;
  `)
  write_chr_files_pattern($1, device_t, polaris_iots_fpga_device_t)
  read_chr_files_pattern($1, device_t, polaris_iots_fpga_device_t)
  allow $1 polaris_iots_fpga_device_t:chr_file map;
`)

type device_t;

type polaris_iots_tm_device_t;

write_chr_files_pattern($1, device_t, polaris_iots_tm_device_t);
read_chr_files_pattern($1, device_t, polaris_iots_tm_device_t);
allow $1 polaris_iots_tm_device_t:chr_file map;

########################################
## <summary>
##      Allow access to semaphore with type polaris_cm_rp_t
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_cm_rp_sem_use',

    gen_require('type polaris_cm_rp_t;

    allow $1 polaris_cm_rp_t:sem rw_sem_perms;

    ')

########################################
## <summary>
##      Allow access to semaphore with type polaris_iots_mvDmaDrv_device_t
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_mvDmaDrv_dev_use',

    gen_require('type device_t;

    type polaris_iots_mvDmaDrv_device_t;

    )
write_chr_files_pattern($1, device_t, polaris_iots_mvDmaDrv_device_t);
read_chr_files_pattern($1, device_t, polaris_iots_mvDmaDrv_device_t);
allow $1 polaris_iots_mvDmaDrv_device_t:chr_file map;

')

########################################
## <summary>
##      Allow access to semaphore with type polaris_iots_mvIntDrv_device_t
### <summary>
### <param name="domain">
### Domain allowed access.
### </summary>
### </param>
#
interface('polaris_mvIntDrv_dev_use',`
  gen_require('`
    type device_t;
    type polaris_iots_mvIntDrv_device_t;
  ')
  write_chr_files_pattern($1, device_t, polaris_iots_mvIntDrv_device_t)
  read_chr_files_pattern($1, device_t, polaris_iots_mvIntDrv_device_t)
')


### <summary>
### <param name="domain">
### Domain allowed access.
### </summary>
### </param>
#
interface('polaris_swipedrive_file_manage',`
  gen_require('`
    type polaris_iots_swipedrive_file_t;
  ')
  manage_files_pattern($1, polaris_iots_swipedrive_file_t, polaris_iots_swipedrive_file_t)
  manage_lnk_files_pattern($1, polaris_iots_swipedrive_file_t, polaris_iots_swipedrive_file_t)
  manage_dirs_pattern($1, polaris_iots_swipedrive_file_t, polaris_iots_swipedrive_file_t)
')


### <summary>
### <param name="domain">
### Domain allowed access.
### </summary>
### </param>
#
interface('polaris_getattr_swipedrive',`
  gen_require('`
type polaris_iots_swipedrive_file_t;
')

allow $1 polaris_iots_swipedrive_file_t:filesystem getattr;
')

#########################################################################
## <summary>
## Allow access to semaphore with type polaris_iots_led_device_t
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_led_dev_use',
gen_require('type device_t;
type polaris_iots_led_device_t;
')
write_chr_files_pattern($1, device_t, polaris_iots_led_device_t)
read_chr_files_pattern($1, device_t, polaris_iots_led_device_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiotswitch.if
No license file was found, but licenses were detected in source scan.

#
# December 2019, Victor Kamensky
#
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#

## <summary>Polaris fnf_agg Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfnfagg.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
## <summary>Polaris TDL Resolve Policy Rules.</summary>

# TDL resolve policy

### Open tdlresolve files

### <param name="domain">

### Domain allowed access.

### Manage tdlresolve files

### <param name="domain">

### Domain allowed access.
manage_files_pattern($1, polaris_tdlresolve_t, polaris_tdlresolve_t)
manage_lnk_files_pattern($1, polaris_tdlresolve_t, polaris_tdlresolve_t)
manage_dirs_pattern($1, polaris_tdlresolve_t, polaris_tdlresolve_t)
allow $1 polaris_tdlresolve_t:file map;
gen_require(''

type polaris_global_service_t;
')
manage_files_pattern($1, polaris_global_service_t, polaris_global_service_t)
allow $1 polaris_global_service_t:file map;
')

########################################
## <summary>
##      Watch tdlresolve directories
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface('polaris_tdlresolve_watch',
    gen_require(''
        type polaris_tdlresolve_t;
    ')
    allow $1 polaris_tdlresolve_t:dir watch;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristdlresolve.if
No license file was found, but licenses were detected in source scan.

#
# September 2018, Anubha Balani
#
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#

/tmp/maroon_stats -d
gen_context(system_u:object_r:polaris_maroon_base_t,s0)
# zram devices
/dev/zram[0-9]* -b
gen_context(system_u:object_r:polaris_zram_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismemory.fc
No license file was found, but licenses were detected in source scan.
policy_module(polarishtx, 1.0);

gen_require(`
    type polaris_hxt_t;
`)
polaris_chasfs_read(polaris_hxt_t)
polaris_cpld_read(polaris_hxt_t)
polaris_tdlresolve_read(polaris_hxt_t)
polaris_ripc_sman_ui_serv_connect(polaris_hxt_t)
logging_send_syslog_msg(polaris_hxt_t)

# LOOK AT ME uses shell and mkdir just to create /tmp/HTX-IOX directory
# should be single mkdir system call, in fact even this may not
# be needed since it is created by system-tempfiles
corecmd_exec_shell(polaris_hxt_t)
corecmd_exec_bin(polaris_hxt_t)
auth_use_nsswitch(polaris_hxt_t)

dev_read_sysfs(polaris_hxt_t)

# create threads
allow polaris_hxt_t self:process setsched;
allow polaris_hxt_t self:capability sys_nice;

optional_policy(
    polaris_qfp_dgram_send(polaris_hxt_t)
`)

# vconfd_load_shared_schemas
polaris_confd_shared_schema_read(polaris_hxt_t)

type polaris_htx_iox_tmp_t;
files_tmp_file(polaris_htx_iox_tmp_t)
polaris_htx_iox_tmp_manage(polaris_hxt_t)

htx logs files like /tmp/nwaas_log_sslproxy.log
type polaris_htx_tmp_t;
files_tmp_file(polaris_htx_tmp_t)
files_tmp_filetrans(polaris_hlx_t, polaris_hlx_tmp_t, file)
manage_files_pattern(polaris_hlx_t, polaris_hlx_tmp_t, polaris_hlx_tmp_t)

# handle /dev/shm/tcp-proxy_debug_shm
type polaris_hlx_tmpfs_t;
files_tmpfs_file(polaris_hlx_tmpfs_t)
fs_tmpfs_filetrans(polaris_hlx_t, polaris_hlx_tmpfs_t, file)
fs_getattr_tmpfs(polaris_hlx_t)
gen_require(''
    type tmpfs_t;
')
manage_files_pattern(polaris_hlx_t, tmpfs_t, polaris_hlx_tmpfs_t)
allow polaris_hlx_t polaris_hlx_tmpfs_t:file map;

# work with /tmp/memif
optional_policy(
    polaris_qfp_memif_manage(polaris_hlx_t)
')

# sppi_memif
type polaris_sppi_memif_device_t;
dev_node(polaris_sppi_memif_device_t)
polaris_sppi_memif_dev_use(polaris_hlx_t)

# packet_socket uinet_if_sppi_channel_init
allow polaris_hlx_t self:packet_socket { create_socket_perms recv_msg send_msg};
allow polaris_hlx_t self:capability net_raw;

# read and write /bootflash/cacert-ssl.pem
polaris_bootflash_manage(polaris_hlx_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarishtx.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
### <summary>Polaris nginx Policy Rules.</summary>

#<summary>
# Allow domain to be started by nginx with
## transition into specific service domain.
## </summary>
## <param name="domain">
## Type to be used to run utility.
## </summary>
## </param>
## <param name="entry_point">
## Type of the program to be used as an entry point to this domain.
## </summary>
## </param>

interface(`polaris_nginx_exec_domain`;
    gen_require(`
        type polaris_nginx_t;
    `)
)

domtrans_pattern(polaris_nginx_t, $2, $1)
`

########################################
## Execute mcp_trace_filter script in its own domain.
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </summary>
## </param>

#

interface(`polaris_trace_filter_domtrans`;
    gen_require(`
        type polaris_trace_filter_t, polaris_trace_filter_exec_t;
    `)
)

domtrans_pattern($1, polaris_trace_filter_exec_t, polaris_trace_filter_t)
`

########################################
## Execute file transfer client in its own domain.
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </summary>
## </param>

#
interface('polaris_file_transfer_client_domtrans',
    gen_require(
        type polaris_file_transfer_client_t, polaris_file_transfer_client_exec_t;
    ')
)
domtrans_pattern($1, polaris_file_transfer_client_exec_t, polaris_file_transfer_client_t)
')

#######################################
## <summary>
##      Allow others to perform pipe operations on nginx files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to perform the operation
##      </summary>
## </param>
#
interface('polaris_nginx_manage_fifo_files',
    gen_require(
        type polaris_nginx_t;
        type $1;
    ')
)
manage_fifo_files_pattern($1, polaris_nginx_t, polaris_nginx_t)
')

#######################################
## <summary>
##      Allow the specified domain to manage polaris_nginx_tmp_t files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_nginx_tmp_manage',
    gen_require(
        type polaris_nginx_tmp_t;
    ')
)
manage_files_pattern($1, polaris_nginx_tmp_t, polaris_nginx_tmp_t)
files_tmp_filetrans($1, polaris_nginx_tmp_t, file, "ca.cert")
')

#######################################
## <summary>
## Manage polaris_fts_client_tmp_t in /tmp/fts_client.
## <summary>
## <param name="domain">
##  Domain allowed access.
## </summary>

interface('polaris_fts_client_tmp_manage',
    gen_require(''
        type polaris_fts_client_tmp_t;
    ')
    manage_files_pattern($1, polaris_fts_client_tmp_t, polaris_fts_client_tmp_t)
    manage_dirs_pattern($1, polaris_fts_client_tmp_t, polaris_fts_client_tmp_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnginx.if
No license file was found, but licenses were detected in source scan.

# # February 2020, Victor Kamensky
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#

## <summary>Polaris cedge_tanman Policy Rules.</summary>

########################################################################
## Read cedge_tanman files and fifo_file. I.e /tmp/tan/tan_evt_fifo
## <summary>
## <param name="domain">
##  Domain allowed access.
## </summary>

interface('polaris_cedge_tanman_tmp_manage',
    gen_require(''
        type polaris_cedge_tanman_tmp_t;
    ')
    read_files_pattern($1, polaris_cedge_tanman_tmp_t, polaris_cedge_tanman_tmp_t)
    read_fifo_files_pattern($1, polaris_cedge_tanman_tmp_t, polaris_cedge_tanman_tmp_t)
)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscedgetanman.if
No license file was found, but licenses were detected in source scan.

#
# November 2017, Victor Kamensky
#
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#

# polarisgnmib file contexts place holder
/flash1/gNOI_iosxe_.*  gen_context(system_u:object_r:polaris_gnmib_gnoi_images_t,s0)
/bootflash/gNOI_iosxe_.*  gen_context(system_u:object_r:polaris_gnmib_gnoi_images_t,s0)
/mnt/sd3/user/gNOI_iosxe_.*  gen_context(system_u:object_r:polaris_gnmib_gnoi_images_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgnmib.fc
No license file was found, but licenses were detected in source scan.

#
# November 2020, Christine Hwang
#
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#

### <summary>Polaris bbu Policy Rules.</summary>

###############################
### <summary>
### Work (read, write, ioctl) with /dev/ttyS2
### </summary>
### <param name="domain">### <summary>
### Domain allowed access.
### </summary>
### </param>

#
interface(`polaris_bbu_dev_use`,
 gen_require(`
     type device_t;
     type polaris_bbu_device_t;
`
  )
write_chr_files_pattern($1, device_t, polaris_bbu_device_t)
read_chr_files_pattern($1, device_t, polaris_bbu_device_t)
allow $1 polaris_bbu_device_t:chr_file map;
`)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrollbacktimer.if
No license file was found, but licenses were detected in source scan.

#  
# March 2017, Victor Kamensky  
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#  
### <summary>Polaris polarisrollbacktimer Policy Rules. </summary>

### <summary> 
### Manage rbtimer file on bootflash (i.e /bootflash/.rollback_timer)  
### </summary> 
### <param name="domain"> 
### Domain allowed access.  
### </param> 

interface('polaris_rbtimer_bootflash_manage', ` 
    gen_require(` 
        type polaris_disk_bootflash_t; 
        type polaris_rbtimer_bootflash_t; 
    `) 
    manage_dirs_pattern($1, polaris_disk_bootflash_t, polaris_rbtimer_bootflash_t) 
    manage_files_pattern($1, polaris_rbtimer_bootflash_t, polaris_rbtimer_bootflash_t) 
    filetrans_pattern($1, polaris_disk_bootflash_t, polaris_rbtimer_bootflash_t, dir, ",rollback_timer") 
`) 

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrollbacktimer.if
No license file was found, but licenses were detected in source scan.

#  
# March 2017, Victor Kamensky  
#  
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#  
### <summary>Polaris keyman Policy Rules. </summary>

Found in path(s):
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## <summary>Polaris polarisoom Policy Rules.</summary>

Found in path(s):
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#

/usr/bin/os/conf/install_boottime.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/os/conf/install_engine.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/os/conf/install_helper.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/os/conf/install_assist.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/os/conf/sw_pload_svc.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/os/conf/provision.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/os/conf/issu_helper.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/issu/issu_check.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/os/conf/packtool.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/os/conf/install_show.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/os/conf/issu_client_comp.py -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/os/conf/install_issu_show.py -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/vconfd_script_upgrade\.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/os/conf/calcsha.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/bin/os/conf/C9800-Wireless_startup_script.sh -- gen_context(system_u:object_r:polaris_install_wireless_exec_t,s0)
/usr/bin/os/conf/C9800-Wireless_stop_script.sh --
gen_context(system_u:object_r:polaris_install_wireless_exec_t,s0)

/bootflash/.issu_loc_lock gen_context(system_u:object_r:polaris_issu_files_t,s0)
/tmp/issu(/.*)? gen_context(system_u:object_r:polaris_issu_tmp_files_t,s0)

/bootflash/installer(/.*)? gen_context(system_u:object_r:polaris_disk_install_t,s0)
/bootflash/images(/.*)? gen_context(system_u:object_r:polaris_disk_install_images_t,s0)
/tmp/installer_tmplog(/.*)? gen_context(system_u:object_r:polaris_install_tmp_log_t,s0)
/tmp/installer(/.*)? gen_context(system_u:object_r:polaris_disk_install_t,s0)
/bootflash/sdwaninstaller(/.*)? gen_context(system_u:object_r:polaris_disk_install_t,s0)
/flash1/.sdwaninstaller(/.*)? gen_context(system_u:object_r:polaris_disk_install_t,s0)

/tmp/install_all_trans_log gen_context(system_u:object_r:polaris_install_tmp_t,s0)
/tmp/show_install_output.txt gen_context(system_u:object_r:polaris_install_show_tmp_t,s0)

/tmp/sw/rp(/.*)? gen_context(system_u:object_r:polaris_sw_data_t,s0)
/tmp/sw/fp(/.*)? gen_context(system_u:object_r:polaris_sw_data_t,s0)
/tmp/sw/cc(/.*)? gen_context(system_u:object_r:polaris_sw_data_t,s0)
/tmp/sw/mount(/.*)? gen_context(system_u:object_r:polaris_sw_data_t,s0)
/tmp/patch gen_context(system_u:object_r:polaris_patch_data_t,s0)
/tmp/patch/rp(/.*)? gen_context(system_u:object_r:polaris_patch_data_t,s0)
/tmp/patch/fp(/.*)? gen_context(system_u:object_r:polaris_patch_data_t,s0)
/tmp/patch/cc(/.*)? gen_context(system_u:object_r:polaris_patch_data_t,s0)
/tmp/patch/smuse(/.*)? gen_context(system_u:object_r:polaris_patch_data_t,s0)

# The following labels are specific to hot patch a SMUs shared objects
# using .so files). For cold patch files, the patch is subset of a package
# (it has the same structure) and therefore regular labeling rules will
# be in effect.
#
# The SMU hot patch directory hierarchy should look as follows:
#
#/RP.<ARCH>/<process>/patch(s)
#/FP.<ARCH>/<process>/patch(s)
#/CC.<ARCH>/<process>/patch(s)
#
# bundles image/subpkg labeling
/packages.conf -- gen_context(system_u:object_r:polaris_packages_conf_t,s0)
/./pkginfo -- gen_context(system_u:object_r:polaris_sw_data_t,s0)
/(.*)/.pkg -- gen_context(system_u:object_r:polaris_sw_data_t,s0)

/tmp/pkg_cs_debug(/.*)? gen_context(system_u:object_r:polaris_pkg_cs_debug_t,s0)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisinstall.fc
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#
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#
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#

policy_module(polarisepcwsliaison, 1.0);

gen_require('  
    type polaris_epc_ws_liaison_t;
')

polaris_btrace_data_manage(polaris_epc_ws_liaison_t)
polaris_crft_data_manage(polaris_epc_ws_liaison_t)
polaris_chasfs_manage(polaris_epc_ws_liaison_t)
polaris_tdlresolve_read(polaris_epc_ws_liaison_t)
polaris_tddlb_list_dirs(polaris_epc_ws_liaison_t)
polaris_cpld_read(polaris_epc_ws_liaison_t)
polaris_flashlib_read(polaris_epc_ws_liaison_t)

polaris_ripc_sman_ui_serv_connect(polaris_epc_ws_liaison_t)

allow polaris_epc_ws_liaison_t self:capability { dac_override };

# tshark invoked by epc_ws_liaison needs to map /etc/passwd file.
auth_map_passwd(polaris_epc_ws_liaison_t)

# access to execute /sbin/tshark
corecmd_exec_bin(polaris_epc_ws_liaison_t)

# dumpcap needs access to net dir in sysfs
dev_read_sysfs(polaris_epc_ws_liaison_t)

# comm="dumpcap" kmod="net-pf-16/proto-12"
kern_dontaudit_request_load_module(polaris_epc_ws_liaison_t)

# write pcap files to /bootflash
polaris_bootflash_manage(polaris_epc_ws_liaison_t)

# epc_ws_liaison and ngwc-fed pipe interaction
polaris_fed_shm_file_read(polaris_epc_ws_liaison_t)

# for pluggable FS, allow epc liaison to access files on them.
polaris_removalable_manager(polaris_epc_ws_liaison_t)

# tshark and dumpcap runtime requirements
allow polaris_epc_ws_liaison_t self:capability { net_raw setgid setuid };  
allow polaris_epc_ws_liaison_t self:netlink_netfilter_socket create;  
allow polaris_epc_ws_liaison_t self:netlink_route_socket { bind create getattr nlmsg_read };  
allow polaris_epc_ws_liaison_t self:packet_socket { bind create getopt ioctl map setopt };  
allow polaris_epc_ws_liaison_t self:process setcap;  
allow polaris_epc_ws_liaison_t self:unix_dgram_socket { create ioctl };  
allow polaris_epc_ws_liaison_t self:udp_socket { create ioctl };  

# /tmp/lsn.log and /tmp/epc_ws (WS_TMP_FOLDER)
type polaris_epc_ws_liaison_tmp_t;  
files_tmp_file(polaris_epc_ws_liaison_tmp_t)  
files_tmp_filetrans(polaris_epc_ws_liaison_t, polaris_epc_ws_liaison_tmp_t, { file dir })  
manage_dirs_pattern(polaris_epc_ws_liaison_t, polaris_epc_ws_liaison_tmp_t, polaris_epc.ws_liaison_tmp_t)  
manage_files_pattern(polaris.epc.ws.liaison_t, polaris.epc.ws.liaison_tmp_t, polaris.epc.ws.liaison_tmp_t)  
manage_fifo_files_pattern(polaris.epc.ws.liaison_t, polaris.epc.ws.liaison_tmp_t, polaris.epc.ws.liaison_tmp_t, polaris.epc.ws.liaison_tmp_t)

# CLI: show platform software wireshark show
polaris_utility_domain_template(wireshark_show)  
polaris_bexecute_domain(polaris_wireshark_show_t, polaris_wireshark_show_exec_t)  
polaris_chasfs_manage(polaris_wireshark_show_t)  
corecmd_exec_bin(polaris_wireshark_show_t)

# map /etc/passwd
auth_map_passwd(polaris_wireshark_show_t)

# open, read, getattr pcap files
polaris_bootflash_read(polaris_wireshark_show_t)

# write into pipe that smand created for us with popen
polaris_smand_use_fifo(polaris_wireshark_show_t)

corecmd_exec_shell(polaris_wireshark_show_t)

# sys file /sys/devices/system/cpu/online
dev_read_sysfs(polaris_wireshark_show_t)

# tshark and dumpcap runtime requirements
allow polaris_wireshark_show_t self:capability { setgid setuid net_admin };  
allow polaris.wireshark_show_t self:netlink_netfilter_socket create;  
allow polaris.wireshark_show_t self:netlink_route_socket { bind create getattr nlmsg_read };  
allow polaris.wireshark_show_t self:process setcap;
allow polaris_wireshark_show_t self:udp_socket { create ioctl }
allow polaris_wireshark_show_t self:unix_dgram_socket { create ioctl }

#dumpcap needs access "/tmp/epc_ws/wif_to_ts_pipe" fifo file
polaris_epc_ws_liaison_fifo_read(polaris_wireshark_show_t)

# comm="dumpcap" kmod="net-pf-16-proto-12"
kernal_request_load_module(polaris_wireshark_show_t)

# /tmp/*.pcapng
type polaris_wireshark_show_tmp_t;
files_tmp_file(polaris_wireshark_show_tmp_t)
files_tmp_file_trans(polaris_wireshark_show_t, polaris_wireshark_show_tmp_t, file)
polaris_wireshark_show_tmp_manage(polaris_wireshark_show_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisepcwsliaison.te
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#
# June 2020 , Manu Roy
#
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#

policy_module(polarisIotswitch, 1.0);

# petra fpga device (/dev/petra-fpga)
type polaris_iots_fpga_device_t;
device_node(polaris_iots_fpga_device_t)

# petra DMA ASIC driver (/dev/mvDmaDrv)
type polaris_iots_mvDmaDrv_device_t;
device_node(polaris_iots_mvDmaDrv_device_t)

# petra Interrupt Asic driver (/dev/mvIntDrv)
type polaris_iots_mvIntDrv_device_t;
device_node(polaris_iots_mvIntDrv_device_t)

# petra tm device (/dev/tm)
type polaris_iots_tm_device_t;
device_node(polaris_iots_tm_device_t)

# petra tm device (/dev/mmcblk1p1))
type polaris_iots_swipedrive_device_t;
device_node(polaris_iots_swipedrive_device_t)
type polaris_iots_swipedrive_file_t;
files_type(polaris_iots_swipedrive_file_t)
dev_associate(polaris_iots_swipedrive_file_t)

# LED device (/dev/spidev0.0)
type polaris_iots_led_device_t;
dev_node(polaris_iots_led_device_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiotswitch.te
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#
# March 2017, Victor Kamensky
#
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#
## <summary>Polaris psd Policy Rules.</summary>

########################################
## <summary>
##      Read polaris_restconf_t files, effectively files
## under /tmp/restconf
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_restconf_read',
        gen_require(' type polaris_restconf_t;
        )
        read_files_pattern($1, polaris_restconf_t, polaris_restconf_t)
        read_lnk_files_pattern($1, polaris_restconf_t, polaris_restconf_t)
        list_dirs_pattern($1, polaris_restconf_t, polaris_restconf_t)
        )

########################################
## <summary>
##      Manage polaris_restconf_t files, effectively files
## under /tmp/restconf
## </summary>
## <param name="domain">

interface('polaris_restconf_manage',
    gen_require(
        type polaris_restconf_t;
    )
    manage_files_pattern($1, polaris_restconf_t, polaris_restconf_t)
    manage_lnk_files_pattern($1, polaris_restconf_t, polaris_restconf_t)
    manage_dirs_pattern($1, polaris_restconf_t, polaris_restconf_t)
)

interface('polaris_ncsshd_keys_manage',
    gen_require(
        type polaris_ncsshd_keys_t;
    )
    manage_files_pattern($1, polaris_ncsshd_keys_t, polaris_ncsshd_keys_t)
    manage_lnk_files_pattern($1, polaris_ncsshd_keys_t, polaris_ncsshd_keys_t)
    manage_dirs_pattern($1, polaris_ncsshd_keys_t, polaris_ncsshd_keys_t)
)

interface('polaris_psd_tmp_read',
    gen_require('
type polaris_psd_tmp_t;
  
')
  read_files_pattern($1, polaris_psd_tmp_t, polaris_psd_tmp_t)
  
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispsd.if

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#

## <summary>Polaris smd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissmd.if

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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl
define('polaris_process_aux_full','
polaris_process_domain_template($1)
')

define('polaris_process_aux','
ifelse(process_type_map($1), ',', 'polaris_process_aux_full($1)')
process_type_map_set($1, 1)
')

define('polaris_process','
polaris_process_aux(process_stem($1))
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_process_te.m4

No license file was found, but licenses were detected in source scan.

#
# April 2017, Victor Kamensky
policy_module(polaris_dmi_ncsshd_mgmt, 1.0);

    gen_require(
    type polaris_dmi_ncsshd_mgmt_t;
    )

polaris_btrace_data_manage(polaris_dmi_ncsshd_mgmt_t)
polaris_chasfs_manage(polaris_dmi_ncsshd_mgmt_t)
polaris_tdlresolve_read(polaris_dmi_ncsshd_mgmt_t)
polaris_tdldb_list_dirs(polaris_dmi_ncsshd_mgmt_t)
polaris_flashlib_read(polaris_dmi_ncsshd_mgmt_t)

corenet_tcp_bind_generic_node(polaris_dmi_ncsshd_mgmt_t)
allow polaris_dmi_ncsshd_mgmt_t self:tcp_socket { getattr getopt setopt bind create listen accept connect read write }
allow polaris_dmi_ncsshd_mgmt_t self:udp_socket { getattr create connect read write }
allow polaris_dmi_ncsshd_mgmt_t self:cap_userns { sys_admin net_bind_service }

type polaris_dmi_ncsshd_mgmt_var_run_t;
files_pid_file(polaris_dmi_ncsshd_mgmt_var_run_t)
manage_dirs_pattern(polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_var_run_t, polaris_dmi_ncsshd_mgmt_var_run_t)
manage_files_pattern(polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_var_run_t, polaris_dmi_ncsshd_mgmt_var_run_t)
files_pid_filetrans(polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_var_run_t, { file dir })

# access /var/log/lastlog, /var/log/btmp
    type polaris_dmi_ncsshd_mgmt_var_log_t;
logging_log_file(polaris_dmi_ncsshd_mgmt_var_log_t)
manage_files_pattern(polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_var_log_t, polaris_dmi_ncsshd_mgmt_var_log_t)
logging_log_filetrans(polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_var_log_t, file, "lastlog")
logging_log_filetrans(polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_var_log_t, file, "btmp")

polaris_dmi_ncsshd_fwd_dgram_send(polaris_dmi_ncsshd_mgmt_t)

corenet_tcp_bind_polaris_dmi_ncsshd_mgmt_port(polaris_dmi_ncsshd_mgmt_t)
# ncsshd allows user-defined port with: netconf-yang ssh port <port_no>
corenet_tcp_bind_all_ports(polaris_dmi_ncsshd_mgmt_t)

auth_use_nsswitch(polaris_dmi_ncsshd_mgmt_t)
# assign flloowing cpabilities needed by sshd
allow polaris_dmi_ncsshd_mgmt_t self:capability {net_admin setgid sys_resource setuid sys_chroot kill}
allow polaris_dmi_ncsshd_mgmt_t self:process setrlimit;

# ncsshd requests pseudo terminal when netconf session is set up without
# explicitly specifying the subsystem name, such as netconf.
allow polaris_dmi_ncsshd_mgmt_t self:capability { chown fowner fsetid };
term_setattr_generic_ptys(polaris_dmi_ncsshd_mgmt_t)
term_getattr_pty_fs(polaris_dmi_ncsshd_mgmt_t)
term_use_generic_ptys(polaris_dmi_ncsshd_mgmt_t)
term_use_ptmx(polaris_dmi_ncsshd_mgmt_t)

# enable to read cpld file "/sys/devices/platform/cpld/board_vtype"
polaris_cpld_read(polaris_dmi_ncsshd_mgmt_t)
# for sshd needs access network interface resource
allow polaris_dmi_ncsshd_mgmt_t self:netlink_route_socket r_netlink_socket_perms;

# calls socketat server_listen at mgmt/dmi/ncsshd/src/sshd.c
polaris_socketat_nsfs_read(polaris_dmi_ncsshd_mgmt_t)
polaris_lfts_dev_use(polaris_dmi_ncsshd_mgmt_t)
corecmd_exec_bin(polaris_dmi_ncsshd_mgmt_t)

logging_send_syslog_msg(polaris_dmi_ncsshd_mgmt_t)
# TODO : revisit below statement when addressing initrc_exec_t denial
polaris_rmonbifo_tmp_read(polaris_dmi_ncsshd_mgmt_t)

# allow access to /tmp/sw/cfg and /tmp/sw/boot
polaris_boot_tmp_read(polaris_dmi_ncsshd_mgmt_t)
polaris_cfg_data_manage(polaris_dmi_ncsshd_mgmt_t)
polaris_dmi_dmiauthd_dgram_send(polaris_dmi_ncsshd_mgmt_t)

corenct_tcp_connect_polaris_netconf_interceptor_port(polaris_dmi_ncsshd_mgmt_t);
# This fixes runin.sh related denials. Refer to auth.c file which invokes bshell.
polaris_bexecute_domtrans(polaris_dmi_ncsshd_mgmt_t);

# This fixes authorized keys access related denials.
polaris_ncsshd_authorized_keys_read(polaris_dmi_ncsshd_mgmt_t);

# This fixes denials related to interceptor files.
polaris_interceptor_manage(polaris_dmi_ncsshd_mgmt_t);

# This fixes denials related to netconf_callhome executable
gen_require(‘
    type polaris_confd_t;
’)allow polaris_dmi_ncsshd_mgmt_t polaris_confd_t:tcp_socket {getattr getopt setopt };

# This fixes denials related to route, scp, chvrf command executables
# { read open getattr } operations are allowed on route command
# { read open } operations are allowed on scp command
# { read open execute execute_no_trans } operations are allowed on chvrf command
kernel_read_network_state(polaris_dmi_ncsshd_mgmt_t)

optional_policy(')
# allows access to /tmp/xml/Intf dir and files
polaris_cedge_tmp_manage(polaris_dmi_ncsshd_mgmt_t)
polaris_cedge_xml_tmp_manage(polaris_dmi_ncsshd_mgmt_t)
')

# This fixes denials related to ifconfig executable
# { execute read open execute_no_trans map getattr } operations are allowed
sysnet_domtrans_ifconfig(polaris_dmi_ncsshd_mgmt_t)

# This fixes access denials related to confd checking ncsshd_mgmt proc info
# /proc/<ncsshd pid>/
read_files_pattern(polaris_conf_t, polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_t)
read_lnk_files_pattern(polaris_conf_t, polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_t)

# allows access for admin-tech generation from vManage
polaris_admin_tech_data_manage(polaris_dmi_ncsshd_mgmt_t)
polaris_bootflash_manage(polaris_dmi_ncsshd_mgmt_t)

# allow access to polaris_cfg_data_t
polaris_cfg_data_manage(polaris_dmi_ncsshd_mgmt_t)

# allow access to polaris_boot_tmp_t
polaris_boot_tmp_read(polaris_dmi_ncsshd_mgmt_t)

# allow to watch /var/run/netns and list dir
polaris_watch_netns(polaris_dmi_ncsshd_mgmt_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmincsshdmgmt.te
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#
# March 2017, Victor Kamensky
#
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#
### <summary>Polaris polarispman Policy Rules.</summary>

# Make the specified program domain accessible
```c

## from the pman.
## </summary>
## <param name="domain">
## The type of the process to transition to.
## </summary>
## </param>
## <param name="entrypoint">
## The type of the file used as an entrypoint to this domain.
## </summary>
## </param>

interface(`polaris_pman_entry`,
   gen_require(`
       type polaris_pman_t;
       type polaris_gdb_t;
   `)
)

domtrans_pattern(polaris_pman_t, $2, $1)

domtrans_pattern(polaris_gdb_t, $2, $1)

   allow polaris_gdb_t $1:process { ptrace signal sigstop };
`)    

############################################################
## Execute a domain transition to run pman.
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </summary>
## </param>

interface(`polaris_pman_domtrans`,
   gen_require(`
       type polaris_pman_t, polaris_pman_exec_t;
   `)
)

domtrans_pattern($1, polaris_pman_exec_t, polaris_pman_t)
`)    

############################################################
## Read pman temporary files and directories in /tmp.
## </summary>
## <param name="domain">
```
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_pman_read_tmp_files',`
    gen_require('type polaris_pman_tmp_t;
')

read_files_pattern($1, polaris_pman_tmp_t, polaris_pman_tmp_t)
list_dirs_pattern($1, polaris_pman_tmp_t, polaris_pman_tmp_t)
')

########################################
## <summary>
## Manage pman temporary files and directories in /tmp.
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_pman_manage_tmp_files',`
    gen_require('type polaris_pman_tmp_t;
')

manage_files_pattern($1, polaris_pman_tmp_t, polaris_pman_tmp_t)
manage_dirs_pattern($1, polaris_pman_tmp_t, polaris_pman_tmp_t)
')

########################################
## Create an object in the polaris_pman_tmp directories.
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
## <param name="object">
## <summary>
## The object class of the object being created.
## </summary>
## </param>
## <param name="name" optional="true">
interface('polaris_pman_tmp_filetrans',
gen_require('type polaris_pman_tmp_t;
'})

files_tmp_filetrans($1, polaris_pman_tmp_t, $2, $3)
'}

-facing files_pattern($1, polaris_btrace_base_t, polaris_pman_bt_t)
'}

interface('polaris_use_pman_fifo',
gen_require('type polaris_pman_t;
'})
allow $1 polaris_pman_t:fifo_file { rw_fifo_file_perms }
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispman.if
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
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#

policy_module(polariswncmgrd, 1.0);

gen_require(
    type polaris_wncmgrd_t;
')

polaris_btrace_data_manage(polaris_wncmgrd_t)
polaris_chasfs_manage(polaris_wncmgrd_t)
polaris_tdlresolve_read(polaris_wncmgrd_t)
polaris_tdlldb_list_dirs(polaris_wncmgrd_t)
polaris_cpld_read(polaris_wncmgrd_t)
polaris_lua_read(polaris_wncmgrd_t)
polaris_flashlib_read(polaris_wncmgrd_t)
polaris_ripc_sman_ui_serv_connect(polaris_wncmgrd_t)
polaris_db_tdlldb_dir_use(polaris_wncmgrd_t)

#allow setrlimit
allow polaris_wncmgrd_t self:process setrlimit;
allow polaris_wncmgrd_t self:capability sys_resource;
allow polaris_wncmgrd_t self:capability dac_override;

allow polaris_wncmgrd_t self:tcp_socket { shutdown }

#allow wncmgrd UDP socket operations
allow polaris_wncmgrd_t self:udp_socket { bind getattr setopt }
corenet_udp_bind_generic_node(polaris_wncmgrd_t)

#allow wncmgrd module to do ioctl,open,read,write operations on char file
polaris_lfts_dev_use(polaris_wncmgrd_t)

# it use tcp port 9090 and9091(polaris_wnc_mgrd_port)
corenet_tcp_bind_polaris_wnc_mgrd_port(polaris_wncmgrd_t)
# For ewlc, wncd and wncmgrd needs access to files under /mnt/images/...these
# are related to AccessPoint images

# wncmgrd calls ewlc_get_ap_sw_version() to open/read
# /tmp/sw/rp/0/0/rp_wlc/mount/mnt/images/ap.pri/version.info
# call-chain: main -> ewlc_app_context_init -> wncd_evlib_app_init_cb ->
# ewlc_capwapac_lib_init -> capwapac_init_default_config -> ewlc_get_ap_sw_version
polaris_wlc_ap_images_read(polaris_wncmgrd_t)

polaris_odm_clnt2svr_mqipc_create(polaris_wncmgrd_t)

polaris_tdldbpersist_setup(polaris_wncmgrd_t)

polaris_tmp_tdldb_persist_setup(polaris_wncmgrd_t)

logging_send_syslog_msg(polaris_wncmgrd_t)

# bind CAPWAP control and data
corenet_udp_bind_polaris_capwap_ctr_port(polaris_wncmgrd_t)
corenet_udp_bind_polaris_capwap_data_port(polaris_wncmgrd_t)

# wncmgrd accessing NA certificate to push to AP
type polaris_icap_cert_t;
polaris_pfile_type(polaris_icap_cert_t)

#wncmgrd receives the certificate file from IOSd via IPC
#and writes to /bootflash for ICap feature
#and hence requires access.
gen_require(''
type polaris_icap_cert_t;
')
filetrans_pattern(polaris_wncmgrd_t, polaris_disk_bootflash_t, polaris_icap_cert_t, file, "NACert.pem")
allow polaris_wncmgrd_t polaris_icap_cert_t:file { write create read open getattr unlink }

#allow tcp connection from http port for awips file download
#from DNAC
corenet_tcp_connect_http_port(polaris_wncmgrd_t)

#allow read/write/mmap access to awips file
gen_require(''
type polaris_awips_signature_file_t;
')
filetrans_pattern(polaris_wncmgrd_t, polaris_disk_bootflash_t, polaris_awips_signature_file_t, file, "awips.json")
allow polaris_wncmgrd_t polaris_awips_signature_file_t:file { map write create read open getattr unlink }

#allow read access to resolv.conf
sysnet_read_config(polaris_wncmgrd_t)

#ewlc_capwap_dgram_srvr_create_raw_send_socket() creates a socket
#creates sll.sll_family = AF_PACKET;
#sll.sll_ifindex = dgram_io_desc->lfts_ifindex;
#sll.sll_protocol = htons(ETH_P_ALL);

allow polaris_wncmgrd_t self:packet_socket { create_socket_perms setopt }
allow polaris_wncmgrd_t self:rawip_socket { create_socket_perms setopt ioctl }

allow polaris_wncmgrd_t self:capability net_raw;
corennet_raw_bind_generic_node(polaris_wncmgrd_t)

gen_require('type port_t;')
allow polaris_wncmgrd_t port_t:rawip_socket name_bind;

# allow tmp symlinks
fs_read_tmpfs_symlinks(polaris_wncmgrd_t)
# allow tmp file read
polaris_install_tmp_read(polaris_wncmgrd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswncmgrd.te
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# # March 2017, Victor Kamensky
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#
## <summary>Polaris NVRAM Policy Rules.</summary>

# NVRAM policy

### <summary>Manage nram files (location varies by platform)</summary>
### </summary>
### <param name="domain"луш>### </param>
### Domain allowed access.
### </summary>
### <param>
### <rolebase/>
# interface('polaris_nvram_manage',
  gen_require('`
    type polaris_nvram_file_t;
    type device_t;
  `)

  manage_blk_files_pattern($1, device_t, polaris_nvram_file_t)
  manage_files_pattern($1, polaris_nvram_file_t, polaris_nvram_file_t)
  manage_link_files_pattern($1, polaris_nvram_file_t, polaris_nvram_file_t)
`)

#######################################
## <summary>
##      Read nvram files (location varies by platform)
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
## </summary>
## </param>
## <rolebase/>
#
# interface('polaris_nvram_read',
  gen_require('`
    type polaris_nvram_file_t;
    type device_t;
  `)

  read_blk_files_pattern($1, device_t, polaris_nvram_file_t)
  read_files_pattern($1, polaris_nvram_file_t, polaris_nvram_file_t)
  read_link_files_pattern($1, polaris_nvram_file_t, polaris_nvram_file_t)
`)

#######################################
## <summary>
##      getattr for nvram files (location varies by platform)
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
## </summary>
## </param>
## <rolebase/>
#
gen_require("

type polaris_nvram_file_t;
    type device_t;
"
)

getattr_blk_files_pattern($1, device_t, polaris_nvram_file_t)
getattr_files_pattern($1, polaris_nvram_file_t, polaris_nvram_file_t)
getattr_lnk_files_pattern($1, polaris_nvram_file_t, polaris_nvram_file_t)
"

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnvram.if
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#
# July 2017, Victor Kamensky
#
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#

/usr/cpp/bin/cpp_stats_svr -- gen_context(system_u:object_r:polaris_cpp_stats_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppstats.fc
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#
# March 2017, Victor Kamensky
#
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#

policy_module(polarisoom, 1.0);

polaris_process_domain_template(oom)

corecmd_exec_bin(polaris_oom_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_oom_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_oom_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_oom_t)
allow polaris_oom_t self:capability sys_resource;
allow polaris_oom_t self:process setpgid;

polaris_btrace_data_manage(polaris_oom_t)
polaris_chasfs_manage(polaris_oom_t)
polaris_cpld_read(polaris_oom_t)
polaris_boot_tmp_read(polaris_oom_t)
polaris_read_debug_conf(polaris_oom_t)
polaris_disk_crashinfo_getattr(polaris_oom_t)
polaris_rmonbifo_tmp_read(polaris_oom_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.10/selinux-tar/selinux/polarisoom.te
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#
# March 2017, Victor Kamensky
#
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#

#/mnt/sd1 edison and nyquist
/mnt/sd1/(.*)? gen_context(system_u:object_r:polaris_disk_crashinfo_t,s0)
/mnt/sd1/tracelogs/(.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/mnt/sd1/system-report_.*\.tar\.gz gen_context(system_u:object_r:polaris_system_report_t,s0)

#/mnt/sd3 edison and nyquist
/mnt/sd3/(.*)? gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/mnt/sd3/user/core/(.*)? gen_context(system_u:object_r:polaris_core_file_t,s0)
/mnt/sd3/user/tracelogs/(.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/mnt/sd3/user/tan/(.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/mnt/sd3/user/ssh/(.*)? gen_context(system_u:object_r:sshd_key_t,s0)
/mnt/sd3/user/.ssh/ssh_host.*_key\:pub gen_context(system_u:object_r:sshd_key_t,s0)
/mnt/sd3/user/.ssh/ssh_host.*_key gen_context(system_u:object_r:sshd_key_t,s0)
/mnt/sd3/user/.dbpersist/(.*)? gen_context(system_u:object_r:polaris_disk_dbm_t,s0)
/mnt/sd3/user/.installer/(.*)? gen_context(system_u:object_r:polaris_disk_install_t,s0)
/mnt/sd3/user/kernel/core/(.*)? gen_context(system_u:object_r:polaris_rbtimer_bootflash_t,s0)
/mnt/sd3/user/sys_report/(.*)? gen_context(system_u:object_r:polaris_chasync_files_t,s0)

# /mnt/sd4 nyquist
/mnt/sd4/(.*)? gen_context(system_u:object_r:polaris_disk_license_t,s0)
# /mnt/sd5 edison and nyquist
/mnt/sd5(/.*)? gen_context(system_u:object_r:polaris_disk_license_t,s0)

ifdef(`edison_platform',
# /mnt/sd6
/mnt/sd6(/.*)? gen_context(system_u:object_r:polaris_disk_license_t,s0)

# /mnt/sd7
/mnt/sd7(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t,s0)

# /mnt/sd8
/mnt/sd8(/.*)? gen_context(system_u:object_r:polaris_disk_ucode_t,s0)

# /mnt/sd9
/mnt/sd9(/.*)? gen_context(system_u:object_r:polaris_disk_recovery_t,s0)
')

ifdef(`nyquist_platform',
# /mnt/sd6
/mnt/sd6(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t,s0)

# /mnt/sd7
/mnt/sd7(/.*)? gen_context(system_u:object_r:polaris_disk_ucode_t,s0)
# unmount script used ny Nyquist platform
/bin/cat9k_ssdUnmount.sh gen_context(system_u:object_r:polaris_ssdUnmount_exec_t,s0)
')

ifdef(`quake_platform',
# /mnt/sd6
/mnt/sd6(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t,s0)

# /mnt/sd7
/mnt/sd7(/.*)? gen_context(system_u:object_r:polaris_disk_ucode_t,s0)
')

# /crashinfo is symbolic link to /mnt/sd1 created by systemd-tmpfiles
/crashinfo gen_context(system_u:object_r:polaris_disk_crashinfo_t,s0)
# /flash is symbolic link to /mnt/sd3/user
/flash gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
# /lic0 is symbolic link to /mnt/sd4
/lic0 gen_context(system_u:object_r:polaris_disk_license_t,s0)
# /lic1 is symbolic link to /mnt/sd5
/lic1 gen_context(system_u:object_r:polaris_disk_license_t,s0)
#/ngwc_config/nvram is symbolic link to /mnt/sd3/user
/ngwc_config/nvram gen_context(system_u:object_r:polaris_nvram_file_t,s0)

#/flash1 macallan
/flash1(/.*)? gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/flash1/user/core(/.*)? gen_context(system_u:object_r:polaris_core_file_t,s0)
/flash1/user/tracelogs(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/flash1/user/.ssh(/.*)? gen_context(system_u:object_r:polaris_ssh_home_t,s0)
/flash1/user/.ssh_host.*_key\.pub gen_context(system_u:object_r:polaris_sshd_key_t,s0)
/flash1/user/.ssh/.ssh_host.*_key gen_context(system_u:object_r:polaris_sshd_key_t,s0)
/flash1/user/nvram_config -- gen_context(system_u:object_r:polaris_nvram_file_t,s0)
/flash1/user/packages.conf -- gen_context(system_u:object_r:polaris_packages_conf_t,s0)
/flash1/user/kernel/core(/.*)? gen_context(system_u:object_r:polaris_core_file_t,s0)
/flash1/user/rollback_timer(/.*)? gen_context(system_u:object_r:polaris_rbtimer_bootflash_t,s0)
/flash1/user/installer(/.*)? gen_context(system_u:object_r:polaris_disk_install_t,s0)
/flash1/user/dbpersist(/.*)? gen_context(system_u:object_r:polaris_disk_dbm_t,s0)
/flash1/user/tan(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/flash1/user/sys_report(/.*)? gen_context(system_u:object_r:polaris_chasync_files_t,s0)
/flash1/TEMPLATE(/.*)? gen_context(system_u:object_r:polaris_chasync_files_t,s0)

# /flash2 macallan 9500h
/flash2(/.*)? gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)
/flash2/CRASH(/.*)? gen_context(system_u:object_r:polaris_disk_crashinfo_t,s0)
/flash2/CRASH/tracelogs(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)

# /flash3 macallan
/flash3(/.*)? gen_context(system_u:object_r:polaris_obf1_data_t,s0)

# /flash4 macallan
/flash4(/.*)? gen_context(system_u:object_r:polaris_disk_license_t,s0)

# /flash5 macallan
/flash5(/.*)? gen_context(system_u:object_r:polaris_disk_license_t,s0)

# /flash6 macallan, used for silent roll in macallan
/flash6(/.*)? gen_context(system_u:object_r:polaris_disk_ucode_t,s0)

# /flash7 macallan, silent roll
/flash7(/.*)? gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

# macallan silent roll link
/cc_srdrv gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

# macallan /ngmod_config/nvram link will be labeled by systemd-tmpfiles
/ngmod_config gen_context(system_u:object_r:polaris_nvram_file_t,s0)
/ngmod_config/nvram gen_context(system_u:object_r:polaris_nvram_file_t,s0)

# remap_mem0 device
/dev/remap_mem0 -c gen_context(system_u:object_r:polaris_remap_mem_device_t,s0)

# chdrv mmap device (MMAP Driver for ASIC Memory mapping)
/dev/chdrv mmap -c gen_context(system_u:object_r:polaris_chdrv mmap_device_t,s0)
# gettysburg_dev1 device
/dev/gettysburg_dev[0-9]* -c gen_context(system_u:object_r:polaris_gettysburg_fpga_device_t,s0)

# types that might be packages label by other policy
ifdef('nyquist_platform',
/usr/binos/bin/flash_check.sh -- gen_context(system_u:object_r:polaris_flashcheck_exec_t,s0)
/usr/binos/bin/cman_fp -- gen_context(system_u:object_r:polaris_cm_fp_exec_t,s0)
/usr/binos/bin/cmcc -- gen_context(system_u:object_r:polaris_cm_cc_exec_t,s0)
')
ifdef('passport_platform',
/usr/binos/bin/platform_mgr -- gen_context(system_u:object_r:polaris_ngwc_plfm_mgr_exec_t,s0)
/usr/binos/bin/xcvr_test -- gen_context(system_u:object_r:polaris_xcvr_test_exec_t,s0)
/usr/binos/bin/sif_mgr -- gen_context(system_u:object_r:polaris_sif_mgr_exec_t,s0)
/usr/binos/bin/cmm -- gen_context(system_u:object_r:polaris_cmm_exec_t,s0)
/usr/binos/bin/bt_logger -- gen_context(system_u:object_r:polaris_bt_logger_exec_t,s0)
/usr/binos/bin/torchd -- gen_context(system_u:object_r:polaris_torch_exec_t,s0)
/usr/binos/bin/swift_sampled -- gen_context(system_u:object_r:polaris_faked_exec_t,s0)
')

# PLEASE LOOK AT ME: why this file in /etc/init.d?
/etc/rc.d/init.d/cat9k_fpgahelper_funcs.sh -- gen_context(system_u:object_r:bin_t,s0)
/etc/rc.d/init.d/cat9k_lr_helper.sh -- gen_context(system_u:object_r:bin_t,s0)

# symbolic links in platform-specific directory
/platform-specific/gryphon -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/gryphon_lite -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/prometheus -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/skyfox -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/intrepid -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/martion -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/farscape -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/borg -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/scorpion -l gen_context(system_u:object_r:root_t,s0)

#/dev/cisco/dplriomem device, Generic Memory map driver for mapping doppler IO memory to userspace
/dev/cisco/dplriomem -c gen_context(system_u:object_r:polaris_dplriomem_memmapdrv_device_t,s0)

/vol/disk0(\.*)? gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
# /appstore_hd is symbolic link to /vol/disk0
/appstore_hd -l gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
# /appstore_flash is symbolic link to /flash1
/appstore_flash -l gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
# /rp_srdv is symbolic link to /flash6/DPU
/rp_srdv -l gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
# /init is symbolic link to /lib/systemd/systemd
/init -l gen_context(system_u:object_r:init_exec_t,s0)
# /install is symbolic link to /flash1/INSTALL
/install -l gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
# /disk0 is symbolic link to /vol/disk0
/disk0 -l gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

# provide relabeling rules for /platform-specific/personality file
# otherwise, they cause conflicting specifications error during relabeling
/platform-specific/bigbang/lib/modules(/.*)? gen_context(system_u:object_r:modules_object_t,s0)
/platform-specific/nyquist/lib/modules(/.*)? gen_context(system_u:object_r:modules_object_t,s0)
/platform-specific/passport/lib/modules(/.*)? gen_context(system_u:object_r:modules_object_t,s0)
/platform-specific/starfleet/lib/modules(/.*)? gen_context(system_u:object_r:modules_object_t,s0)
/platform-specific/intrepid/lib/modules(/.*)? gen_context(system_u:object_r:modules_object_t,s0)
/platform-specific/martian/lib/modules(/.*)? gen_context(system_u:object_r:modules_object_t,s0)
/platform-specific/farscape/lib/modules(/.*)? gen_context(system_u:object_r:modules_object_t,s0)
/platform-specific/bigbang/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
/platform-specific/nyquist/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
/platform-specific/passport/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
/platform-specific/starfleet/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
/platform-specific/intrepid/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
/platform-specific/martian/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
/platform-specific/farscape/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
/platform-specific/bigbang/usr/binos/conf(/.*)? gen_context(system_u:object_r:usr_t,s0)
/platform-specific/nyquist/usr/binos/conf(/.*)? gen_context(system_u:object_r:usr_t,s0)
/platform-specific/passport/usr/binos/conf(/.*)? gen_context(system_u:object_r:usr_t,s0)
/platform-specific/starfleet/usr/binos/conf(/.*)? gen_context(system_u:object_r:usr_t,s0)
/platform-specific/intrepid/usr/binos/conf(/.*)? gen_context(system_u:object_r:usr_t,s0)
/platform-specific/martian/usr/binos/conf(/.*)? gen_context(system_u:object_r:usr_t,s0)
/platform-specific/farscape/usr/binos/conf(/.*)? gen_context(system_u:object_r:usr_t,s0)
/platform-specific/bigbang/usr/binos/bin(/.*)? gen_context(system_u:object_r:bin_t,s0)
/platform-specific/nyquist/usr/binos/bin(/.*)? gen_context(system_u:object_r:bin_t,s0)
/platform-specific/passport/usr/binos/bin(/.*)? gen_context(system_u:object_r:bin_t,s0)
/platform-specific/starfleet/usr/binos/bin(/.*)? gen_context(system_u:object_r:bin_t,s0)
/platform-specific/intrepid/usr/binos/bin(/.*)? gen_context(system_u:object_r:bin_t,s0)
/platform-specific/martian/usr/binos/bin(/.*)? gen_context(system_u:object_r:bin_t,s0)
/platform-specific/farscape/usr/binos/bin(/.*)? gen_context(system_u:object_r:bin_t,s0)
/platform-specific/starfleet/usr/binos/bin(/.*)?  gen_context(system_u:object_r:bin_t,s0)
/platform-specific/intrepid/usr/binos/bin(/.*)?  gen_context(system_u:object_r:bin_t,s0)
/platform-specific/martian/usr/binos/bin(/.*)?  gen_context(system_u:object_r:bin_t,s0)
/platform-specific/farscape/usr/binos/bin(/.*)?  gen_context(system_u:object_r:bin_t,s0)
/platform-specific/borg/usr/binos/bin(/.*)?  gen_context(system_u:object_r:bin_t,s0)
/platform-specific/scorpion/usr/binos/bin(/.*)?  gen_context(system_u:object_r:bin_t,s0)
/platform-specific/imperial/usr/binos/bin(/.*)?  gen_context(system_u:object_r:bin_t,s0)
/platform-specific/jura/usr/binos/bin(/.*)?  gen_context(system_u:object_r:bin_t,s0)
/platform-specific/bigbang/bin(/.*)?       gen_context(system_u:object_r:bin_t,s0)
/platform-specific/nyquist/bin(/.*)?       gen_context(system_u:object_r:bin_t,s0)
/platform-specific/passport/bin(/.*)?     gen_context(system_u:object_r:bin_t,s0)
/platform-specific/starfleet/bin(/.*)?     gen_context(system_u:object_r:bin_t,s0)
/platform-specific/intrepid/bin(/.*)?     gen_context(system_u:object_r:bin_t,s0)
/platform-specific/martian/bin(/.*)?     gen_context(system_u:object_r:bin_t,s0)
/platform-specific/farscape/bin(/.*)?     gen_context(system_u:object_r:bin_t,s0)
/platform-specific/borg/bin(/.*)?     gen_context(system_u:object_r:bin_t,s0)
/platform-specific/scorpion/bin(/.*)?     gen_context(system_u:object_r:bin_t,s0)
/platform-specific/imperial/bin(/.*)?     gen_context(system_u:object_r:bin_t,s0)
/platform-specific/jura/bin(/.*)?     gen_context(system_u:object_r:bin_t,s0)
/platform-specific/bigbang/etc/selinux(/.*)?          gen_context(system_u:object_r:selinux_config_t,s0)
/platform-specific/nyquist/etc/selinux(/.*)?          gen_context(system_u:object_r:selinux_config_t,s0)
/platform-specific/passport/etc/selinux(/.*)?         gen_context(system_u:object_r:selinux_config_t,s0)
/platform-specific/starfleet/etc/selinux(/.*)?        gen_context(system_u:object_r:selinux_config_t,s0)
/platform-specific/intrepid/etc/selinux(/.*)?        gen_context(system_u:object_r:selinux_config_t,s0)
/platform-specific/martian/etc/selinux(/.*)?        gen_context(system_u:object_r:selinux_config_t,s0)
/platform-specific/farscape/etc/selinux(/.*)?        gen_context(system_u:object_r:selinux_config_t,s0)
/platform-specific/borg/etc/selinux(/.*)?        gen_context(system_u:object_r:selinux_config_t,s0)
/platform-specific/scorpion/etc/selinux(/.*)?        gen_context(system_u:object_r:selinux_config_t,s0)
/platform-specific/imperial/etc/selinux(/.*)?        gen_context(system_u:object_r:selinux_config_t,s0)
/platform-specific/jura/etc/selinux(/.*)?        gen_context(system_u:object_r:selinux_config_t,s0)
/platform-specific/quake1/etc/selinux(/.*)?          gen_context(system_u:object_r:selinux_config_t,s0)
/platform-specific/quake2/etc/selinux(/.*)?          gen_context(system_u:object_r:selinux_config_t,s0)

# /objstore/.swtam for hybrid TAM access
/objstore(/.*)?                                  gen_context(system_u:object_r:polaris_disk_objstore_t,s0)
/platform-specific/bigbang/etc/selinux(/[^/]+)?contexts(/.*)?   gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/nyquist/etc/selinux(/[^/]+)?contexts(/.*)?   gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/passport/etc/selinux(/[^/]+)?contexts(/.*)?  gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/starfleet/etc/selinux(/[^/]+)?contexts(/.*)?  gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/intrepid/etc/selinux(/[^/]+)?contexts(/.*)?  gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/martian/etc/selinux(/[^/]+)?contexts(/.*)?  gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/farscape/etc/selinux(/[^/]+)?contexts(/.*)?  gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/borg/etc/selinux(/[^/]+)?contexts(/.*)?  gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/scorpion/etc/selinux(/[^/]+)?contexts(/.*)?  gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/imperial/etc/selinux(/[^/]+)?contexts(/.*)?  gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/jura/etc/selinux(/[^/]+)?contexts(/.*)?  gen_context(system_u:object_r:default_context_t,s0)
/dev/shm/sem\i2c\_sem005  gen\_context(system\_u:object\_r:polaris\_quake\_i2c\_t,s0)
/dev/shm/sem\i2c\_sem006  gen\_context(system\_u:object\_r:polaris\_quake\_i2c\_t,s0)
/dev/shm/sem\i2c\_sem007  gen\_context(system\_u:object\_r:polaris\_quake\_i2c\_t,s0)
/dev/shm/io\_expander\_semaphore  gen\_context(system\_u:object\_r:polaris\_quake\_i2c\_t,s0)

# on pangea/bigbang platforms /dev/NVRAM block device is accessed
# by flashlib in iosd. It stores rommon vars
ifdef('bigbang_platform',
/dev/NVRAM -b  gen\_context(system\_u:object\_r:polaris\_flashlib\_device\_t)
# /mnt/sd6
/mnt/sd6(/.*)?  gen\_context(system\_u:object\_r:polaris\_obfl\_data\_t,s0)
')

/vol/usb1(/.*)?  gen\_context(system\_u:object\_r:polaris\_disk\_harddisk\_t,s0)
/mnt/vbd[a-j](/.*)?  gen\_context(system\_u:object\_r:polaris\_obfl\_data\_t,s0)
/tmp/fpga\_upgrade  gen\_context(system\_u:object\_r:polaris\_fpga\_upgrade\_tmp\_t,s0)

#!/ucode0 9300 silent roll
/ucode0(/.*)?  gen\_context(system\_u:object\_r:polaris\_disk\_ucode0\_t,s0)

# /dev/cisco/fpgaiomem device, Generic Memory map driver for mapping FPGA IO memory to userspace
/dev/cisco/fpgaiomem -c  gen\_context(system\_u:object\_r:polaris\_fpga\_iomem\_mmapfpga\_device\_t,s0)

# nplusm-power file is located in /bootflash and needs to be accessed by cman-rp/IOSd
/flash1/user/nplusm-power  gen\_context(system\_u:object\_r:polaris\_nplussm\_power\_file\_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwc.fc
No license file was found, but licenses were detected in source scan.

#
# June 2020, Cuiyan Ma
#
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#
/usr/binos/conf/issu\_comp\_check\_sh -- gen\_context(system\_u:object\_r:polaris\_issu\_comp\_check\_exec\_t,s0)
/tmp/boottime\_comp\_check\_tree\_other\_rp -d  gen\_context(system\_u:object\_r:polaris\_issu\_comp\_check\_tmp\_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisissucompcheck.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
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### <summary>Polaris repm Policy Rules.</summary>

#####################################################################
### <summary>
###      Manage /tmp/replications files.
### </summary>
### <param name="domain">
###      <summary>
###      Domain allowed access.
###      </summary>
### </param>

interface('polaris_repm_tmp_manage',
  gen_require(
    type polaris_repm_tmp_t;
  )
  manage_files_pattern($1, polaris_repm_tmp_t, polaris_repm_tmp_t)
  manage_dirs_pattern($1, polaris_repm_tmp_t, polaris_repm_tmp_t)
)

#####################################################################
### <summary>
###      Manage /dev/shm/mq.-repm_peer_mq/ files.
### </summary>
### <param name="domain">
###      <summary>
###      Domain allowed access.
###      </summary>
### </param>

interface('polaris_repm_peer_mqipc_manage',
  gen_require(
    type polaris_repm_peer_mqipc_t;
  )
  manage_files_pattern($1, polaris_repm_peer_mqipc_t, polaris_repm_peer_mqipc_t)
  allow $1 polaris_repm_peer_mqipc_t:file map;
  polaris_mqipc_create_name_dir($1, polaris_repm_peer_mqipc_t, repm_peer_mq)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrepm.if
No license file was found, but licenses were detected in source scan.
define(`mqipc_interface_map', `defn(format(``mqipc_interface_map[%s]', `$1'))')
define(`mqipc_interface_map_set', `define(format(``mqipc_interface_map[%s]', `$1'), `$2')')

define(`polaris_mqipc_service_server_many',
  `ifelse($3, `',
    polaris_mqipc_create_name(dollarsone, $1, $2),
    polaris_mqipc_create_name(dollarsone, $1, $2-b$3)
  `ifelse($3, 0, `polaris_mqipc_create_name(dollarsone, $1, $2)', `polaris_mqipc_service_server_many($1, $2, eval($3 - 1)))'))')

define(`polaris_mqipc_service_server_aux_full',`dnl

# <summary>
## Create $2 mqipc chanell.
#</summary>
#<param name="domain">
#<summary>
## Domain allowed access.
##</summary>
#</param>
#<infoflow type="none"/>
#
interface(``polaris_mqipc_$1_create_name'',``
gen_require(`
    type $2;
)
$3
")

# <summary>
## Use $2 mqipc chanell.
#</summary>
#<param name="domain">
#<summary>
## Domain allowed access.
##</summary>
#</param>
#<infoflow type="none"/>
#
interface(``polaris_mqipc_$1_use'',``
gen_require("
        type $2;
    ")

    polaris_mqipc_use(dollarsone, $2)
"")

define('polaris_mqipc_service_server_aux',
    ifelse(mqipc_interface_map($1), '', `polaris_mqipc_service_server_aux_full($1, $2, $3)')
    mqipc_interface_map_set($1, 1)
')

define('polaris_mqipc_service_server','
    polaris_mqipc_service_server_aux(mqipc_stem($1), mqipc_label($1),
        polaris_mqipc_service_server_many(mqipc_label($1), $5, max_scope_map($3, $4, $2)))')

define('polaris_mqipc_service_client',')

define('polaris_mqipc_service_server_elastic_client','
    polaris_mqipc_service_server_aux(mqipc_stem($1), mqipc_label($1),
        polaris_mqipc_service_server_many(mqipc_label($1), $5, max_scope_map($4, elastic, $3)))')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_mqipc_if.m4
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

/dev/lsmpi -c gen_context(system_u:object_r:polaris_lsmpi_device_t,s0)
/dev/lsmpi_app0 -c gen_context(system_u:object_r:polaris_lsmpi_device_t,s0)
/dev/lsmpi_app1 -c gen_context(system_u:object_r:polaris_lsmpi_device_t,s0)
/dev/lsmpi_app2 -c gen_context(system_u:object_r:polaris_lsmpi_device_t,s0)
/tmp/pi(/.*)? gen_context(system_u:object_r:polaris_pi_uds_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislsmpi.fc
No license file was found, but licenses were detected in source scan.

#
# November 2020, Christine Hwang
#
policy_module(polarisbbu, 1.0);

gen_require(")
    type polaris_bbu_t;
")
polaris_btrace_data_manage(polaris_bbu_t)
polaris_chasfs_manage(polaris_bbu_t)
polaris_tdlresolve_read(polaris_bbu_t)
polaris_cpld_read(polaris_bbu_t)
polaris_ripc_sman_ui_serv_connect(polaris_bbu_t)

# Allow I2C Usage
polaris_i2c_use(polaris_bbu_t)
polaris_i2c_sem_manage(polaris_bbu_t)

# Allow sysfs read for platform ID
dev_list_sysfs(polaris_bbu_t)

# Allow bbu to access NVRAM for /flash0/bbu
fs_getattr_tmpfs(polaris_bbu_t)
polaris_nvram_manage(polaris_bbu_t)

# Allow logger which is used for syslog messages
allow polaris_bbu_t self:unix_dgram_socket { connect create };
logging_send_syslog_msg(polaris_bbu_t)

# tty BBU device
type polaris_bbu_device_t;
dev_node(polaris_bbu_device_t)
polaris_bbu_dev_use(polaris_bbu_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbbu.te
No license file was found, but licenses were detected in source scan.

# # February 2020, Victor Kamensky
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#
## <summary>Polaris dmi_ports_fetch Policy Rules.</summary>

### <summary>
### Execute a domain transition to run dmi_ports_fetch.
### </summary>

### <param name="domain">
### Domain allowed to transition.
### </param>

```
interface('polaris_dmi_ports_fetch_domtrans',
  gen_require(
    type polaris_dmi_ports_fetch_t, polaris_dmi_ports_fetch_exec_t;
  )
)

domtrans_pattern($1, polaris_dmi_ports_fetch_exec_t, polaris_dmi_ports_fetch_t)
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmiportsfetch.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

policy_module(polariscliagent, 1.0);

gen_require( 
  type polaris CLI_agent_t;
  )

polaris_btrace_data_manage(polaris CLI_agent_t)
polaris_crft_data_manage(polaris CLI_agent_t)
polaris_chasfs_manage(polaris CLI_agent_t)
polaris_tldresolve_read(polaris CLI_agent_t)
polaris_tlddb_listdirs(polaris CLI_agent_t)
polaris_cpld_read(polaris CLI_agent_t)
polaris_flashlib_read(polaris CLI_agent_t)
polaris_ripc_sman_ui_serv_connect(polaris CLI_agent_t)

polaris_db_tldb_dir_use(polaris_cli_agent_t)

polaris_libeutil_build_config_directory(polaris_cli_agent_t)

# cli_agent /var/run pid file
type polaris_cli_agent_var_run_t;
files_pid_file(polaris_cli_agent_var_run_t)
manage_files_pattern(polaris_cli_agent_t, polaris_cli_agent_var_run_t, polaris_cli_agent_var_run_t)
manage_dirs_pattern(polaris_cli_agent_t, polaris_cli_agent_var_run_t, polaris_cli_agent_var_run_t)
files_pid_filetrans(polaris_cli_agent_t, polaris_cli_agent_var_run_t, { file dir })

polaris_cfg_data_manage(polaris_cli_agent_t)

# Provide sys_resource capability as well for sys_pipe calls
allow polaris_cli_agent_t self:capability { dac_override sys_resource };

logging_send_syslog_msg(polaris_cli_agent_t)

#DB persistence
polaris_tldlbpersist_setup(polaris_cli_agent_t)
polaris_tmp_tldlb_persist_setup(polaris_cli_agent_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscliagent.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

policy_module(polarisflashlib, 1.0);

################################################################################
# Flashlib policy (infra/flashlib)
################################################################################
type polaris_flashlib_lock_t;
files_type(polaris_flashlib_lock_t)

gen_require(
    attribute polaris_extended_domain;
')

# /tmp/.flashlock file is used as flashlib lock
gen_require(
    type init_t;
)
')
files_tmp_filetrans({ init_t polaris_extended_domain }, polaris_flashlib_lock_t, file, ".flashlock")

type polaris_flashlib_log_t;
files_type(polaris_flashlib_log_t)

gen_require(
    attribute polaris_extended_domain;
')

#/tmp/flashdev.log file is used as flashlib to log
files_tmp_filetrans(polaris_extended_domain, polaris_flashlib_log_t, file, "flashdev.log")

#/dev/shm/flash_shm shared memory
type polaris_flash_shm_t;
files_type(polaris_flash_shm_t)

gen_require(
    attribute polaris_domain;
    type tmpfs_t;
')
filetrans_pattern(polaris_domain, tmpfs_t, polaris_flash_shm_t, file, "flash_shm")

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisflashlib.te
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
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#

## <summary>Polaris CPLD Policy Rules.</summary>
interface('polaris_quack_dev_use',
    gen_require(
        type device_t;
        type polaris_quack_device_t;
    )
    write_chr_files_pattern($1, device_t, polaris_quack_device_t)
    read_chr_files_pattern($1, device_t, polaris_quack_device_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisquack.if
No license file was found, but licenses were detected in source scan.

#
# October 2017, Victor Kamensky
#
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#

## <summary>Polaris wstatsd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswstatsd.if
No license file was found, but licenses were detected in source scan.

dnl
dnl Mar 2020, Manu Roy
dnl
dnl Copyright (c) 2020 by Cisco Systems, Inc.
dnl All rights reserved
dnl
dnl Petra Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 0)
max_bay_map_set(`fp', `per_bay', 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/petramaps.m4
No license file was found, but licenses were detected in source scan.

#
# October 2017, Victor Kamensky
#
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policy_module(polariswstatsd, 1.0);

gen_require(
    type polaris_wstatsd_t;
)

polaris_btrace_data_manage(polaris_wstatsd_t)
polaris_crf_data_manage(polaris_wstatsd_t)
polaris_chasfs_manage(polaris_wstatsd_t)
polaris_tdlresolve_read(polaris_wstatsd_t)
polaris_tldlb_list_dirs(polaris_wstatsd_t)
polaris_cpld_read(polaris_wstatsd_t)
polaris_lua_read(polaris_wstatsd_t)
polaris_flashlib_read(polaris_wstatsd_t)
polaris_rpic_sman_ui_serv_connect(polaris_wstatsd_t)
polaris_db_tldlb_dir_use(polaris_wstatsd_t)

allow polaris_wstatsd_t self:capability dac_override;
allow polaris_wstatsd_t self:udp_socket { bind setopt getattr };
corenct_udp_bind_generic_node(polaris_wstatsd_t)
corenct_udp_bind_polaris_capwap_data_port(polaris_wstatsd_t)
polaris_socketat_nsfs_read(polaris_wstatsd_t)
polaris_lfts_dev_use(polaris_wstatsd_t)
polaris_tldlbpersist_setup(polaris_wstatsd_t)
polaris_tmp_tldlb_persist_setup(polaris_wstatsd_t)
logging_send_syslog_msg(polaris_wstatsd_t)

#allow to read /etc/passwd
auth_use_nsswitch(polaris_wstatsd_t)

#this is being given for process to execute tar
corecmd_exec_bin(polaris_wstatsd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswstatsd.te
No license file was found, but licenses were detected in source scan.

#
# December 2019, Victor Kamensky
#
# Copyright (c) 2019-2020 by Cisco Systems, Inc.
policy_module(polarisfnfagg, 1.0);

gen_require('
    type polaris_fnf_agg_t;
');

polaris_btrace_data_manage(polaris_fnf_agg_t)
polaris_crft_data_manage(polaris_fnf_agg_t)
polaris_chasfs_read(polaris_fnf_agg_t)
polaris_ldresolve_read(polaris_fnf_agg_t)
polaris_lua_read(polaris_fnf_agg_t)
polaris_flashlib_read(polaris_fnf_agg_t)
polaris_cpld_read(polaris_fnf_agg_t)
polaris_ripc_sman_ui_serv_connect(polaris_fnf_agg_t)
polaris_db_tldldb_dir_use(polaris_fnf_agg_t)

allow polaris_fnf_agg_t self:capability { dac_override dac_read_search };

type polaris_fnf_agg_tmp_t;
files_tmp_file(polaris_fnf_agg_tmp_t)
files_tmp_filetrans(polaris_fnf_agg_t, polaris_fnf_agg_tmp_t, dir, "fnf_agg")
manage_files_pattern(polaris_fnf_agg_t, polaris_fnf_agg_tmp_t, polaris_fnf_agg_tmp_t)
manage_dirs_pattern(polaris_fnf_agg_t, polaris_fnf_agg_tmp_t, polaris_fnf_agg_tmp_t)

# allow sending files over HTTP
corennet_tcp_connect_http_port(polaris_fnf_agg_t)
sysetnet_read_config(polaris_fnf_agg_t)

# allow UDP connection for punting fnf records
allow polaris_fnf_agg_t self:udp_socket { create_socket_perms recv_msg };
corennet_udp_bind_generic_node(polaris_fnf_agg_t)

# allow punting on routers/ewlc where lfts is being used
polaris_lfts_dev_use(polaris_fnf_agg_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfnfagg.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2021 by Cisco Systems, Inc.
### <summary>Polaris VXE Platform Policy Rules.</summary>

```c
interface('polaris_objstore_sem_use',
    gen_require('type polaris_objstore_sem_t;
    )
    allow $1 polaris_objstore_sem_t:sem rw_sem_perms;
    mmap_files_pattern($1, polaris_objstore_sem_t, polaris_objstore_sem_t)
    manage_files_pattern($1, polaris_objstore_sem_t, polaris_objstore_sem_t)
)
```

### <summary>Work (read, write, ioctl) with /dev/vda1 device</summary>

```c
interface('polaris_grub_efi_use',
    gen_require('type polaris_grub_efi_t;
    )
    write_chr_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
    read_chr_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
)
```

### <summary>Search /dev/vda1 device the efi partition</summary>

```c
interface('polaris_grub_efi_search',
    gen_require('type polaris_grub_efi_t;
    )
    search_dirs_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
)
```
## <summary>
## Read VXE install info files
## </summary>
## <param name="domain">
##      <summary>
##              Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_vxeinstall_info_read',
gen_require(''
  type polaris_vxeinstall_info_t;
')
read_files_pattern($1, polaris_vxeinstall_info_t, polaris_vxeinstall_info_t)
list_dirs_pattern($1, polaris_vxeinstall_info_t, polaris_vxeinstall_info_t)
')

## <summary>
## Read /dev/vda1 device the efi partition
## </summary>
## <param name="domain">
##      <summary>
##              Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_grub_info_read',
gen_require(''
  type polaris_grubver_t;
  type polaris_grub_bios_t;
  type polaris_grub_efi_t;
')
read_files_pattern($1, polaris_grubver_t, polaris_grubver_t)
read_files_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
read_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
list_dirs_pattern($1, polaris_grubver_t, polaris_grubver_t)
list_dirs_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
list_dirs_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
')

## <summary>
## Manage /dev/vda1 device the efi partition
## </summary>
## <param name="domain"
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_grubcfg_manage',
gen_require(''
type polaris_grub_bios_t;
type polaris_grub_efi_t;
')
manage_files_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
manage_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
manage_dirs_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
manage_dirs_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
')

###################################################
## <summary>
## Manage regular files/directories under /varied/grub
## CSR manages files in legacy grub disk location
## also allow run readlink -f /dev/bootflash
## </summary>
## <param name="domain">
##      <summary>
##              Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_legacy_grub_manage',

## Work (read, write, ioctl) with /dev/hanet
# hanet driver used by vpcgw platform of VXE family

## <param name="domain">
##      Domain allowed access.
## </summary>
## </param>
ifdef(`vpcgw_platform',`
interface(`polaris_hanet_dev_use',`
gen_require(`
    type device_t;
    type polaris_hanet_device_t;
    ')
    write_chr_files_pattern($1, device_t, polaris_hanet_device_t)
    read_chr_files_pattern($1, device_t, polaris_hanet_device_t)
    ')
    ')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisvxe.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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# All rights reserved
#
/usr/binos/conf/pman.sh -- gen_context(system_u:object_r:polaris_pman_exec_t,s0)
/usr/bin/pman -- gen_context(system_u:object_r:polaris_pman_exec_t,s0)
/bin/gdbserver -- gen_context(system_u:object_r:polaris_gdb_exec_t,s0)
/usr/bin/gdbserver -- gen_context(system_u:object_r:polaris_gdb_exec_t,s0)
/tmp/pman_ports(/.*)? -- gen_context(system_u:object_r:polaris_pman_tmp_t,s0)
/tmp/fp/process(/.*)? -- gen_context(system_u:object_r:polaris_pman_tmp_t,s0)
/tmp/rp/process(/.*)? -- gen_context(system_u:object_r:polaris_pman_tmp_t,s0)
/tmp/vxe_ucode_image -- gen_context(system_u:object_r:polaris_pman_tmp_t,s0)
/tmp/wlc_ucode_image -- gen_context(system_u:object_r:polaris_pman_tmp_t,s0)
/tmp/utah_ucode_image -- gen_context(system_u:object_r:polaris_pman_tmp_t,s0)
/tmp/fugazi_ucode_image -- gen_context(system_u:object_r:polaris_pman_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispman.fc
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl
dnl Macallan Platform Max Bay Limits
max_bay_map_set(\'rp\', \'per\_bay\', 0)
max_bay_map_set(\'cc\', \'per\_bay\', 9)
max_bay_map_set(\'fp\', \'per\_bay\', 9)

min_bay_ripc_map_set(\'rp\', \'per\_bay\', 0)
min_bay_ripc_map_set(\'cc\', \'per\_bay\', 1)
min_bay_ripc_map_set(\'fp\', \'per\_bay\', 0)

max_bay_ripc_map_set(\'rp\', \'per\_bay\', 2)
max_bay_ripc_map_set(\'cc\', \'per\_bay\', 10)
max_bay_ripc_map_set(\'fp\', \'per\_bay\', 1)

min_bay_ripc_map_set(\'rp\', \'global\', 0)
min_bay_ripc_map_set(\'cc\', \'global\', 1)
min_bay_ripc_map_set(\'fp\', \'global\', 0)

max_bay_ripc_map_set(\'rp\', \'global\', 2)
max_bay_ripc_map_set(\'cc\', \'global\', 10)
max_bay_ripc_map_set(\'fp\', \'global\', 1)

dnl in elastic scope each process has its own value
max_elastic_map_set(\'rp\', \'elastic\', BPROC\_ODM, 0)
max_elastic_map_set(\'cc\', \'elastic\', BPROC\_ODM, 0)
max_elastic_map_set(\'fp\', \'elastic\', BPROC\_ODM, 0)

max_elastic_map_set(\'rp\', \'elastic\', BPROC\_WNCD, 0)
max_elastic_map_set(\'cc\', \'elastic\', BPROC\_WNCD, 0)
max_elastic_map_set(\'fp\', \'elastic\', BPROC\_WNCD, 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/macallanmaps.m4
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

policy\_module(polarisissustack, 1.0);

gen\_require('
   type polaris\_issu\_stack\_t;
')

corecmd\_exec\_bin(polaris\_issu\_stack\_t)
corecmd\_exec\_shell(polaris\_issu\_stack\_t)
# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_issu_stack_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_issu_stack_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_issu_stack_t)

# work with /tmp files (/tmp/issu_stk)
type polaris_issu_stack_tmp_t;
files_tmp_file(polaris_issu_stack_tmp_t)
manage_dirs_pattern(polaris_issu_stack_t, tmp_t, polaris_issu_stack_tmp_t)
manage_files_pattern(polaris_issu_stack_t, polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t)
manage_fifo_files_pattern(polaris_issu_stack_t, polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t)
files_tmp_filetrans(polaris_issu_stack_t, polaris_issu_stack_tmp_t, file)
files_tmp_filetrans(polaris_issu_stack_t, polaris_issu_stack_tmp_t, dir, "issu_stk")

allow polaris_issu_stack_t self:capability sys_resource;

polaris_btrace_data_manage(polaris_issu_stack_t)
polaris_chasfs_manage(polaris_issu_stack_t)
polaris_cpld_read(polaris_issu_stack_t)
polaris_rmonbifo_read(polaris_issu_stack_t)
polaris_rmonbifo_tmp_read(polaris_issu_stack_t)
polaris_boot_tmp_read(polaris_issu_stack_t)
polaris_tdlresolve_read(polaris_issu_stack_t)
polaris_disk_crashinfo_getattr(polaris_issu_stack_t)

allow polaris_issu_stack_t self:capability dac_override;

polaris_read_debug_conf(polaris_issu_stack_t)
polaris_flashlib_read(polaris_issu_stack_t)

allow polaris_issu_stack_t self:process setpgid;

# modify tdlresolve epoch
polaris_tdlresolve_manage(polaris_issu_stack_t)

#rsync_exec(polaris_issu_stack_t)
gen_require(`
    type rsync_t;
`)
rsync_entry_domtrans(polaris_issu_stack_t, rsync_t)
allow rsync_t polaris_issu_stack_t:process sigchld;
# execute rsync over eobc: /usr/binos/conf/mcp_chvrf.sh eobc rsync
polaris_chvrf_domtrans(polaris_issu_stack_t)
# from chvrf.sh code executes rsync command
gen_require(
    type polaris_chvrf_t;
    
)
rsync_entry_domtrans(polaris_chvrf_t, rsync_t)
# LOOK AT ME: issu_stack.sh leaks fd of /tmp/issu_stk/chassis_state_evt_fifo
# for now grant access, since changing script may not be trivial
manage_fifo_files_pattern(polaris_chvrf_t, polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t)
write_files_pattern(polaris_chvrf_t, polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t)
polaris_install_engine_domtrans(polaris_issu_stack_t)
# LOOK AT ME: isse_stack.sh leak fd of /tmp/issu_stk/chassis_state_evt_fifo
# for now grant access, since changing script may not be trivial
gen_require(
    type polaris_install_engine_t;
    
)
read_fifo_files_pattern(polaris_install_engine_t, polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t)
polaris_install_tmp_read(polaris_issu_stack_t)
# access /bootflash/installer/install_issu_state
polaris_disk_install_read(polaris_issu_stack_t)

# rm from coreutils-8.30 wants to know filesystem type
fs_getattr_tmpfs(polaris_issu_stack_t)

# reads /tmp/remote_sw_verinfo.txt
gen_require(
    type rsync_tmp_t;
    
)
read_files_pattern(polaris_issu_stack_t, rsync_tmp_t, rsync_tmp_t)

# watch over /tmp/tdlresolve/work
polaris_tdlresolve_watch(polaris_issu_stack_t)

# issu_stack.sh access to epoch_merge.lua,epoch_endpoint_update.lua
polaris_lua_read(polaris_issu_stack_t)

# issu_stack.sh access to /tmp/rsync_log_dir
polaris_manage_rsync_tmplog_dir(polaris_issu_stack_t)

# issu_stack.sh access to epoch_merge.lua which merges epoch files, local.epoch and inyterchassis/.epcioh file
# luajit/usr/binos/conf/epoch_merge.lua--base-file/tmp/tdlresolve/epoch_dir/local.epoch
#--merge-file/tmp/tdlresolve/work/inter
allow polaris_issu_stack_t self:process execmem;
Open Source Used In Crosswork Platform Infrastructure cw-infra-opensource-4.3.0

#access to /tmp/installer/
polaris_install_tmp_manager(polaris_issu_stack_t)

#access to /tmp/ufs/harddisk
polaris_ncd_tmp_read(polaris_issu_stack_t)

# use of errmsg.sh
polaris_script_errmsg_use(polaris_issu_stack_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisissustack.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

policy_module(polarislsmpi, 1.0);

******************************************************************************
# Polaris lsmpi
******************************************************************************

type polaris_lsmpi_device_t;
dev_node(polaris_lsmpi_device_t)

# note polaris_sysfs_contdev_t is defined in kernel/devices.te, since genfscon statements
# could be only in base policy

# punt/inject working through unix domain sockets
type polaris_pi_uds_t;
files_tmp_file(polaris_pi_uds_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislsmpi.te
No license file was found, but licenses were detected in source scan.

#
# May 2017, Victor Kamensky
#
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#

## <summary>Polaris mdt_pubd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismdtpubd.if

No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

policy_module(polarisemd, 1.0);

    gen_require(''
        type polaris_emd_t;
    ')

    polaris_btrace_data_manage(polaris_emd_t)
    polaris_crft_data_manage(polaris_emd_t)
    polaris_chasfs_manage(polaris_emd_t)
    polaris_tdlresolve_read(polaris_emd_t)
    polaris_tdlldb_list_dirs(polaris_emd_t)
    polaris_cpld_read(polaris_emd_t)
    polaris_flashlib_read(polaris_emd_t)

    polaris_ripc_sman_ui_serv_connect(polaris_emd_t)

    polaris_cpld_dev_use(polaris_emd_t)
    dev_read_sysfs(polaris_emd_t)
    polaris_obfl_data_manage(polaris_emd_t)
    polaris_persistent_read(polaris_emd_t)

    allow polaris_emd_t self:capability dac_override;

    ifdef('mcp_family,'
        polaris_scooby_dev_use(polaris_emd_t)
        # read/write /sys/bus/i2c/drivers/pca9544/2-0077/reg_control and others
        dev_getattr_sysfs_fs(polaris_emd_t)
        dev_rw_sysfs(polaris_emd_t)
    ')

    logging_send_syslog_msg(polaris_emd_t)

    ifdef('qwlc_platform,'
        # on qwlc read eeprom through i2c like /sys/devices/i2c-12/12-0050/eeprom
        dev_rw_sysfs(polaris_emd_t)
    ')
dev_getattr_sysfs_fs(polaris_emd_t)
')

#sparrow needs access to /dev/i2c*
ifdef('sparrow_platform',
  gen_require(
    type polaris_cm_cc_tmpfs_t;
  )
polaris_i2c_use(polaris_emd_t)
polaris_i2c_sem_manage(polaris_emd_t)
mmap_files_pattern(polaris_emd_t, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
')

ifdef('katar_platform',
  dev_rwlock_sysfs(polaris_emd_t)
dev_getattr_sysfs_fs(polaris_emd_t)
')

# emd creates udp socket
allow polaris_emd_t self:udp_socket create_socket_perms;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.10/selinux-tar/selinux/polarisemd.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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# All rights reserved
#

## <summary>Polaris polarisdroputil Policy Rules.</summary>

#------------------------------------------------------------------------------
## <summary>
## Manage droputils temporary files and directories in /tmp.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_droputil_manage_tmp_files',
  gen_require(
    type polaris_droputil_tmp_t;
  )
)
manage_files_pattern($1, polaris_droputil_tmp_t, polaris_droputil_tmp_t)
read_link_files_pattern($1, polaris_droputil_tmp_t, polaris_droputil_tmp_t)
')

*******************************************************************************
## <summary>
## Watch droputil_tmp directories
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolebase/>
#
interface('polaris_droputil_tmp_watch',
  gen_require(''
type polaris_droputil_tmp_t;
')
  allow $1 polaris_droputil_tmp_t:dir watch;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdroputil.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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# All rights reserved
#
/tmp/iosd_level -- gen_context(system_u:object_r:polaris_lm_tmp_t,s0)
/tmp/stack_apcount -- gen_context(system_u:object_r:polaris_lm_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislm.fc
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl
declare('polaris_ripc_service_server','")
define('polaris_ripc_service_client','

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_ripc_if.m4
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_ripc_fc.m4
No license file was found, but licenses were detected in source scan.

dnl
dnl December 2018, Victor Kamensky
dnl
dnl Copyright (c) 2018-2020 by Cisco Systems, Inc.
dnl All rights reserved
dnl
dnl Nyquist Platform Max Bay Limits
max_bay_map_set('rp', 'per_bay', 0)
max_bay_map_set('cc', 'per_bay', 0)
max_bay_map_set('fp', 'per_bay', 0)

dnl in elastic scope each process has its own value
max_elastic_map_set('rp', 'elastic', BPROC_ODM, 0)
max_elastic_map_set('cc', 'elastic', BPROC_ODM, 0)
max_elastic_map_set('fp', 'elastic', BPROC_ODM, 0)

max_elastic_map_set('rp', 'elastic', BPROC_WNCD, 0)
max_elastic_map_set('cc', 'elastic', BPROC_WNCD, 0)
max_elastic_map_set('fp', 'elastic', BPROC_WNCD, 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/quake1maps.m4
No license file was found, but licenses were detected in source scan.

#
# Sep 2020, Sridhar C
#
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#

policy_module(polaristlscd, 1.0);

gen_require(
    type polaris_tlsccd_t;
    type net_conf_t;
    ')

polaris_btrace_data_manage(polaris_tlsccd_t)
polaris_chasfs_manage(polaris_tlsccd_t)
polaris_tdlresolve_read(polaris_tlsccd_t)
polaris_tldldb_list_dirs(polaris_tlscd_t)
polaris_lua_read(polaris_tlscd_t)
polaris_flashlib_read(polaris_tlscd_t)
polaris_chasfs_read(polaris_tlscd_t)
polaris_cpld_read(polaris_tlscd_t)
polaris_db_tldldb_dir_use(polaris_tlscd_t)

# Related to vrf support of the socket
polaris_lfts_dev_use(polaris_tlscd_t)
polaris_socketat_nsfs_read(polaris_tlscd_t)
polaris_vrf_shm_manage(polaris_tlscd_t)

# TLSCd reads TCP/UDP ports open in VRF_GLOBAL for packet forwarding
# to IOSd or BinOS applications.
kernel_read_net_sysctls(polaris_tlscd_t)
kernel_read_network_state(polaris_tlscd_t)
kernel_search_network_sysctl(polaris_tlscd_t)
allow polaris_tlscd_t net_conf_t:dir search;
allow polaris_tlscd_t net_conf_t:file { getattr open read watch };

# UDS related sockets are:
# /tmp/tlscd/iosd_to_tlscd_0_socket
# /tmp/tlscd/tlscd_to_iods_0_socket
# IOSd and TLSCd exchange packet over these UDS socket, allow create/bind
type polaris_tlscd_uds_t;
files_tmp_file(polaris_tlscd_uds_t)
polaris_tlscd_uds_manage(polaris_tlscd_t)
polaris_iosd_dgram_send(polaris_tlscd_t)
allow polaris_tlscd_t self:unix_dgram_socket { bind create };

# Tunnel and TLS TCP connection related related
corenet_rw_tun_tap_dev(polaris_tlscd_t)
allow polaris_tlscd_t self:tun_socket create;
corenet_tcp_connect_all_ports(polaris_tlscd_t)

# errmsg
logging_send_syslog_msg(polaris_tlscd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristlscd.te
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dnl
dnl April 2018, Victor Kamensky

dnl
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dnl
define(`polaris_database_aux', `dnl
type $1;
polaris_tdldb_type($1)
')

define(`polaris_database', `dnl
polaris_database_aux(database_label($1))
')

define(`polaris_database_process_aux_full', `dnl
gen_require(`
    type $2;
')
polaris_db_tdldb_$1_use($2)
')

define(`polaris_database_process_aux', `dnl
ifelse(database_use_map($1, $2), `', `polaris_database_process_aux_full($1, $2)')
database_use_map_set($1, $2, 1)
')

define(`polaris_database_process', `dnl
polaris_database_process_aux(database_stem($1), process_label($2))dnl
')

Found in path(s): *
/opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_database_db_te.m4
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# # January 2021, Gabriel Lee, Shawn Liu
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#
### <summary>Polaris ezmanage Policy Rules.</summary>

###################################################
### <summary>
###Transition to ezmanage
###</summary>
### <param name="domain">
###<summary>
###Domain allowed to transition.
###</summary>
###<param>
#
interface('polaris_ezmanage_domtrans',
gen_require('type polaris_ezmanage_t, polaris_ezmanage_exec_t;')
)
domtrans_pattern($1, polaris_ezmanage_exec_t, polaris_ezmanage_t)
')

##########################################################
## <summary>
## Read files under polaris_ezmanage_file_t label
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
##
#
interface('polaris_manage_ezmanage_files',
gen_require('type polaris_ezmanage_file_t;')
manage_files_pattern($1, polaris_ezmanage_file_t , polaris_ezmanage_file_t)
read_lnk_files_pattern($1, polaris_ezmanage_file_t, polaris_ezmanage_file_t)
manage_dirs_pattern($1, polaris_ezmanage_file_t , polaris_ezmanage_file_t)
')

##########################################################
## <summary>
## Manage files under polaris_ezmanage_var_run_t label
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
##
#
interface('polaris_manage_ezmanage_var_run_files',
gen_require('type polaris_ezmanage_var_run_t;')
manage_sock_files_pattern($1, polaris_ezmanage_var_run_t, polaris_ezmanage_var_run_t);
')
policy_module(polariscedge, 1.0);

# /tmp/xml handling
type polaris_cedge_xml_tmp_t;
files_tmp_file(polaris_cedge_xml_tmp_t)

# PLEASE LOOK AT ME very strange choice of directory name
# /tmp/tmp/ handling
type polaris_cedge_tmp_t;
files_tmp_file(polaris_cedge_tmp_t)

# /etc/viptela handling
type polaris_cedge_etc_t;
files_config_file(polaris_cedge_etc_t)

# /dev/shm handling
type polaris_cedge_tmpfs_t;
files_tmpfs_file(polaris_cedge_tmpfs_t)

# /tmp/econfd2sysmgr-ipc handling
type polaris_econfd2sysmgr_tmp_t;
files_tmp_file(polaris_econfd2sysmgr_tmp_t)

# vconfd_script_reboot.sh policy
polaris_vconfd_domain_template(vconfd_reboot)

# vconfd_script_if_reset.sh policy
polaris_vconfd_domain_template(vconfd_ifreset)

# vconfd_script_get_config.sh policy
polaris_vconfd_domain_template(vconfd_cfg)

# vconfd_script_*_stats policy
polaris_vconfd_domain_template(vconfd_history)
corecmd_exec_bin(polaris_vconfd_history_t)
# performs `rm /tmp/xml/Pfr/Pfr-1600801323.xml.gz`....but, do not know where polaris_cedge_tmp_manage(polaris_vconfd_history_t)

# performs `ls -rt /tmp/xml/UtdUrlf-IOX` etc. polaris_cedge_xml_tmp_manage(polaris_vconfd_history_t)

# vconfd_script_manage_list_stats.sh performs operations on
# /tmp/vconfd/stats.XXXXXX
# polaris_vconfd_tmp_manage(polaris_vconfd_history_t)
# vconfd_script_manage_list_stats.sh performs operations on
# /tmp/vconfd/stats.XXXXXX
# polaris_vconfd_tmp_manage(polaris_vconfd_history_t)

# software policy
polaris_vconfd_domain_template(vconfd_software)

# nms policy
polaris_vconfd_domain_template(vconfd_nms)

# device policy
polaris_vconfd_domain_template(vconfd_device)

# internal policy
polaris_vconfd_domain_template(vconfd_reset)

# cert policy
polaris_vconfd_domain_template(vconfd_cert)

# csr policy
polaris_vconfd_domain_template(vconfd_csr)

# vconfd_script_show_csr.sh invokes vlog
# /bin/sh vlog ....
# vlog is implemented in viptela/utils/vlog using logger; that needs
# - ceate/connect unix_dgram_socket
# - read from devtmpfs of type devlog_t
# - write to sock_file of type devlog_t
# - sendto path="/run/systemd/journal/dev-log" of type unix_dgram_socket
logging_send_syslog_msg(polaris_vconfd_csr_t)
crcmd_exec_bin(polaris_vconfd_csr_t)

# reads /usr/share/viptela/server.csr
polaris_bootflash_read(polaris_vconfd_csr_t)

# serial vsmart-upload vedge-upload policy
polaris_vconfd_domain_template(vconfd_serialnum)

# crash policy
polaris_vconfd_domain_template(vconfd_crash)
# aaa policy
polaris_vconfd_domain_template(vconfd_aaa)

# container policy
polaris_vconfd_domain_template(vconfd_contr)

# iox policy
polaris_vconfd_domain_template(vconfd_iox)

# utd policy
polaris_vconfd_domain_template(vconfd_utd)

# geo policy
polaris_vconfd_domain_template(vconfd_geo)

# vconfd_script_vnping.sh, vconfd_script_vping.sh, vconfd_script_vtraceroute.sh
# scripts policy
polaris_vconfd_domain_template(vconfd_net)

# runs ip command
sysnet_domtrans_ifconfig(polaris_vconfd_net_t)
# runs confd_cmd
corecmd_exec_bin(polaris_vconfd_net_t)

polaris_confd_connect(polaris_vconfd_net_t)

# /tmp/ polaris_vconfd_cert_t handling
type polaris_vconfd_cert_tmp_t;
files_tmp_file(polaris_vconfd_cert_tmp_t)
files_tmp_filetrans(polaris_vconfd_cert_t, polaris_vconfd_cert_tmp_t, { file dir })
polaris_vconfd_cert_tmp_manage(polaris_vconfd_cert_t)

# permit access to polaris_vconfd_cert_t
allow polaris_vconfd_cert_t self:capability { chown dac_override };

logging_send_syslog_msg(polaris_vconfd_cert_t)

corecmd_sbin_entry_type(polaris_vconfd_cert_t)
corecmd_shell_entry_type(polaris_vconfd_cert_t)

fs_read_nsfs_files(polaris_vconfd_cert_t)
logging_create_devlog_dev(polaris_vconfd_cert_t)

# to access the /bootflash: as the cert is stored in /bootflash:
# IOS cert related CLIs can create/store the certs in /bootflash with any
# file name(s), so allow generic access to bootflash.
polaris_bootflash_manage(polaris_vconfd_cert_t)
# manage /etc/viptela
polaris_cedge_etc_manage(polaris_vconfd_cert_t)
polaris_cedge_reset_ns(polaris_vconfd_cert_t)

# needed for accessing /tmp/chassis/local/rp/chasfs/midplane/chassis_model
polaris_chasfs_read(polaris_vconfd_cert_t)

#access to /etc/viptela
gen_require('  
    type polaris_nginx_t;
')
polaris_cedge_etc_manage(polaris_nginx_t)

# For "confd_cmd", allow polaris_vconfd_cert_t, which is not a Binos process,
# to access polaris_confd_ipc_ripc_port_t.
polaris_ripc_confd_ipc_connect(polaris_vconfd_cert_t)

# permit to access /var/run/netns/default
sysnet_manage_ifconfig_run(polaris_vconfd_cert_t)

# vconfd_script_show_root_ca_cert.sh performs operations on
# /tmp/vconfd/root_cert.XXXXXX
polaris_vconfd_tmp_manage(polaris_vconfd_cert_t)
fs_getattr_tmpfs(polaris_vconfd_cert_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscedge.te
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#
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#

### <summary>Polaris CPLD Policy Rules.</summary>

# CPLD Driver policy

### <summary>Read cpld files in /sys directory</summary>

### <summary>param name="domain"</summary>

### <summary>
## Domain allowed access.

```c
interface('polaris_cpld_read',
gen_require('type polaris_sysfs_cpld_t;
type sysfs_t;
')
read_files_pattern($1, polaris_sysfs_cpld_t, polaris_sysfs_cpld_t)
# genfscon statement specifically excludes symbolic links from # genfscon path specific entries. To workaround, let us allow # to follow sysfs_t symbolic links
allow $1 sysfs_t:lnk_file { read getattr };
list_dirs_pattern($1, polaris_sysfs_cpld_t, polaris_sysfs_cpld_t)
')
```

#### <summary>
Write cpld files in /sys directory
</summary>

```c
interface('polaris_cpld_write',
gen_require('type polaris_sysfs_cpld_t;
type sysfs_t;
')
manage_files_pattern($1, polaris_sysfs_cpld_t, polaris_sysfs_cpld_t)
manage_dirs_pattern($1, polaris_sysfs_cpld_t, polaris_sysfs_cpld_t)
# genfscon statement specifically excludes symbolic links from # genfscon path specific entries. To workaround, let us allow # to follow sysfs_t symbolic links
allow $1 sysfs_t:lnk_file { read getattr };
')
```

#### <summary>
Work (read, write, ioctl) with /dev/cpld
</summary>

```c
interface('polaris_cpld_ioctl',
gen_require('type polaris_sysfs_cpld_t;
type sysfs_t;
')
ioctl_files_pattern($1, polaris_sysfs_cpld_t, polaris_sysfs_cpld_t)
# genfscon statement specifically excludes symbolic links from # genfscon path specific entries. To workaround, let us allow # to follow sysfs_t symbolic links
allow $1 sysfs_t:lnk_file { read getattr };
')
```

---

Open Source Used In Crosswork Platform Infrastructure cw-infra-opensource-4.3.0 15838
interface('polaris_cpld_dev_use',
    gen_require(''
        type device_t;
        type polaris_cpld_device_t;
    ')
    write_chr_files_pattern($1, device_t, polaris_cpld_device_t)
    read_chr_files_pattern($1, device_t, polaris_cpld_device_t)
    allow $1 polaris_cpld_device_t:chr_file map;
')

interface('polaris_cpld_dev_read',
    gen_require(''
        type device_t;
        type polaris_cpld_device_t;
    ')
    read_chr_files_pattern($1, device_t, polaris_cpld_device_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscpld.if
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#
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#

policy_module(polariscrankshaft, 1.0);

# spa devices i.e sys_platform_module_1ng
type polaris_spa_device_t;
dev_node(polaris_spa_device_t)
# htdp device
type polaris_htdp_device_t;
dev_node(polaris_htdp_device_t)

# bde device (/dev/linux-user-bde)
type polaris_bde_device_t;
dev_node(polaris_bde_device_t)

# dash fpga device (/dev/dash_fpga)
type polaris_dash_device_t;
dev_node(polaris_dash_device_t)

# nios device (/dev/nios)
type polaris_nios_device_t;
dev_node(polaris_nios_device_t)

# qae device (/dev/qae_mem)
type polaris_qae_device_t;
dev_node(polaris_qae_device_t)

# moka fpga device (/dev/moka_fpga)
type polaris_mokafpga_device_t;
dev_node(polaris_mokafpga_device_t)

# sirius fpga device (/dev/sirius_fpga)
type polaris_siriusfpga_device_t;
dev_node(polaris_siriusfpga_device_t);

# moka nim device (/dev/nim_dm*)
type polaris_nim_dm_device_t;
dev_node(polaris_nim_dm_device_t)

# /dev/bp_async device on nanook platform

type polaris_bp_async_device_t;
dev_node(polaris_bp_async_device_t)

# /dev/sparrow_psu device on sparrow platform

type polaris_sparrow_psu_device_t;
dev_node(polaris_sparrow_psu_device_t)

# /dev/nutella_fpga device on nutella platform

type polaris_nutella_fpga_device_t;
dev_node(polaris_nutella_fpga_device_t)

# /dev/huron_fpga on Sumatra platform

type polaris_huron_device_t;
dev_node(polaris_huron_device_t)
# /dev/dplr_sumatra on Sumatra platform
type polaris_sumatra_doppler_device_t;
dev_node(polaris_sumatra_doppler_device_t)

# /tmp/sata_status for mSATA
type polaris_sata_status_tmp_t;
files_tmp_file(polaris_sata_status_tmp_t)

# TSN tsn_platform.tdl for IPCs and processes definition and it uses
# crankshaft_platform.tdl for databases definition. Unfortunately they are
# out of sync wrt BPROC_NGWC_FED - crankshaft_platform.tdl refers it but
# tsn_platform.tdl does not contain such definition.
ifdef(`tsn_platform',`
type polaris_ngwc_fed_t;
')

# Supernova supernova_platform.tdl for IPCs and processes definition and it uses
# crankshaft_platform.tdl for databases definition. Unfortunately they are
# out of sync wrt BPROC_FM_RP - crankshaft_platform.tdl refers it but
# supernova_platform.tdl does not contain such definition.
ifdef(`supernova_platform',`
type polaris_fman_rp_t;
')

# Nanook
# The Nanook platform does not support SDWAN and so the SDWAN processes are not
# defined in the nanook_platform.tdl. However, it uses the database_def's from
# the crankshaft_platform.tdl, which do have the SDWAN databases. So we need to
# add the processes to the SELinux policy
ifdef(`nanook_platform',`
type polaris_cfgmgr_t;
type polaris_cxp_t;
type polaris_dbgdt_t;
type polaris_fpm_t;
type polaris_fim_t;
type polaris_omp_t;
type polaris_sdavc_proxy_t;
type polaris_ttm_t;
type polaris_vdaemon_t;
type polaris_htx_t;
')

# load_usbnet policies start

# /usr/binos/conf/load_usbnet.sh is invoked to load usb network driver module
# kernel/drivers/net/usb/usbnet.ko for TSN.
polaris_process_domain_template(load_usbnet)

# allow polaris_load_usbnet_t access to execute programs in system bin dirs, load
# usbnet.ko for USB network interface for TSN and allow read access
# to /sys/class/net and /proc/cmdline
# LOOK AT ME: /tmp/rp/pvp/work/inot_fifo inotifywait fd leak to child
corecmd_exec_bin(polaris_load_usbnet_t)
modutils_exec_insmod(polaris_load_usbnet_t)
modutils_list_module_config(polaris_load_usbnet_t)
modutils_read_module_config(polaris_load_usbnet_t)
sysnet_manage_config_dirs(polaris_load_usbnet_t)
polaris_pvp_stdin_read(polaris_load_usbnet_t)
files_read_kernel_modules(polaris_load_usbnet_t)
dev_rw_sysfs(polaris_load_usbnet_t)
kernel_read_system_state(polaris_load_usbnet_t)

# stdout inherited from unconfined_service that might call it
polaris_unconfined_service_fifo_file_manage(polaris_load_usbnet_t)

# handle /tmp/load_usbnet_intf
type polaris_load_usbnet_tmp_t;
files_tmp_file(polaris_load_usbnet_tmp_t)
files_tmp_filetrans(polaris_load_usbnet_t, polaris_load_usbnet_tmp_t, file)
manage_files_pattern(polaris_load_usbnet_t, polaris_load_usbnet_tmp_t, polaris_load_usbnet_tmp_t)

# allow read of /etc/passwd
# allow map permission
# passwd_file_t:file { getattr open read };
auth_map_passwd(polaris_load_usbnet_t)

# CLI: show platform hardware msata <status/info>

ifdef(`crankshaft_family',`

    gen_require(`
        type polaris_sysfs_ggpio_t;
        type polaris_msata_info_t;
    `)

polaris_utility_domain_template(msata_info)
polaris_bexecute_domain(polaris_msata_info_t, polaris_msata_info_exec_t)
# need write for pipes like "pipe:[70623]"

corecmd_exec_bin(polaris_msata_info_t)
# need write/getattr for pipes like "pipe:[71322]"
polaris_cmrp_use_fifo(polaris_msata_info_t)
fstools_domtrans(polaris_msata_info_t)
# allow use of mSATA device
polaris_nvram_manage(polaris_msata_info_t)
# allow self
allow polaris_msata_info_t self:capability sys_rawio;
allow polaris_msata_info_t self:process setfscreate;
# allow /usr/sbin/smartctl to access /sys/devices/platform/cpn-110-master/
# cpn-110-master:config-space/f2540000.sata/ata2/host1/scsi_host/host1/proc_name and
# /sys/devices/platform/cpn-110-master/cpn-110-master:config-space/f2540000.sata/
# ata2/host1/target1:0:0
read_files_pattern(polaris_msata_info_t, polaris_sysfs_ggpio_t, polaris_sysfs_ggpio_t)
dev_list_sysfs(polaris_msata_info_t)
# allow smartctl to access to /dev/sda to determine its lifetime
storage_raw_read_fixed_disk(polaris_msata_info_t)

# CLI: show platform hardware slot p[x] fan eeprom
polaris_utility_domain_template(smart_fan)
polaris_bexecute_domain(polaris_smart_fan_t, polaris_smart_fan_exec_t)
# allow /ls command
corecmd_exec_bin(polaris_smart_fan_t)
# allow read of /etc/passwd
auth_map_passwd(polaris_smart_fan_t)
# allow read of /sys/devices/platform/nios/*
dev_read_sysfs(polaris_smart_fan_t)
# need write/getattr access for pipes like "pipe:[86004]"
polaris_cmrp_use_fifo(polaris_smart_fan_t)

# sumatra and sparrow platforms need map access for "show platform hardware msata status | lifetime"
auth_map_passwd(polaris_msata_info_t)
)
#endif('sumatra_platform',
# During "show platform hardware msata status | lifetime" - msata_info.sh accesses /tmp/sata_status
files_tmp_filettrans(polaris_msata_info_t, polaris_sata_status_tmp_t, file)
manage_files_pattern(polaris_msata_info_t, polaris_sata_status_tmp_t, polaris_sata_status_tmp_t)
)

******************************************************************************
# show platform hardware msata end
******************************************************************************

#type for /dev/qcqmiX
type qcqmi_device_t;
dev_node(qcqmi_device_t);
# sm_nim_adpt device (/dev/sm_nim_adpt_xxx )
type polaris_sm_nim_adpt_device_t;
dev_node(polaris_sm_nim_adpt_device_t)

# dio device
type polaris_dio_device_t;
dev_node(polaris_dio_device_t)

# tty NMEA device
type polaris_tty_NMEA_device_t;
dev_node(polaris_tty_NMEA_device_t)

# memory blocks and gpp on Nutella-XE platform
type polaris_nutella_memory_block_p7_t;
dev_node(polaris_nutella_memory_block_p7_t)

type polaris_nutella_memory_block_p1_t;
dev_node(polaris_nutella_memory_block_p1_t)

type polaris_nutella_memory_block_boot_t;
dev_node(polaris_nutella_memory_block_boot_t)

type polaris_nutella_gp0_t;
dev_node(polaris_nutella_gp0_t)

type polaris_nutella_gpp_t;
dev_node(polaris_nutella_gpp_t)

# nim device (/dev/nim_phy)
type polaris_nim_phy_device_t;
dev_node(polaris_nim_phy_device_t)

type polaris_cwan_svr_var_run_t;
files_pid_file(polaris_cwan_svr_var_run_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscrankshaft.te
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#
# March 2017, Victor Kamensky
#
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#
## <summary>Polaris epc_ws_liaison Policy Rules.</summary>
interface(`polaris_epc_ws_liaison_tmp_read',
    gen_require(
        type polaris_epc_ws_liaison_tmp_t;
    )
    read_files_pattern($1, polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t)
')

########################################################################
## <summary>
##      Allow to open, write, add_name and write /tmp/epc_ws/fed_to_wif_pipe file.
##      Allow to create and write /tmp/epc_ws dir.
## </summary>
## <param name="domain">
##      <summary>
##      epc_ws_liaison and ngwc-fed fifo_file interaction.
##      </summary>
## </param>
#
interface(`polaris_epc_ws_liaison_fifo_manage',
    gen_require(
        type polaris_epc_ws_liaison_tmp_t;
    )
    manage_dirs_pattern($1, polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t)
    manage_fifo_files_pattern($1, polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t)
')

########################################################################
## <summary>
##      Allow to open, read "/tmp/epc_ws/wif_to_ts_pipe" fifo file.
## </summary>
## <param name="domain">
##      <summary>
##      epc_ws_liaison and dumpcap fifo_file interaction.
##      </summary>
## </param>
#
interface(`polaris_epc_ws_liaison_fifo_read',
    gen_require(
        type polaris_epc_ws_liaison_tmp_t;
    )
    read_fifo_files_pattern($1, polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t)
')

########################################################################
## <summary>
##      Allow to write, create, unlink "/tmp/*.pcapng" temporary files.
## </summary>
## <param name="domain">
##      <summary>
##      polaris_wireshark_show fifo_file interaction.
##      </summary>
## </param>
#
interface('polaris_wireshark_show_tmp_manage',
    gen_require(
        type polaris_wireshark_show_tmp_t;
    '
    manage_files_pattern($1, polaris_wireshark_show_tmp_t, polaris_wireshark_show_tmp_t)
    ')
)

################################
## <summary>
##	Create, read, and write temporary files.
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed access.
##	</summary>
## </param>
#
interface('polaris_epc_ws_liaison_tmp_file',
    gen_require(
        type polaris_epc_ws_liaison_tmp_t;
    '
    files_tmp_filetrans($1, polaris_epc_ws_liaison_tmp_t, dir, "epc_ws")
    ')
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisepcwsliaison.if
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#

policy_module(polariscxp, 1.0);

gen_require('  type polaris_cxp_t;
')
polaris_chasfs_read(polaris_cxp_t)
polaris_cpld_read(polaris_cxp_t)
logging_send_syslog_msg(polaris_cxp_t)

# vconfd_load_shared_schemas
polaris_confd_shared_schema_read(polaris_cxp_t)

corecmd_exec_bin(polaris_cxp_t)
corecmd_exec_shell(polaris_cxp_t)
auth_use_nsswitch(polaris_cxp_t)

# work with /tmp/xml
polaris_cedge_xml_tmp_manage(polaris_cxp_t)

# work with /tmp/tmp
polaris_cedge_tmp_manage(polaris_cxp_t)

# /var/run/cxp dir and pid
type polaris_cxp_var_run_t;
files_pid_file(polaris_cxp_var_run_t)
manage_files_pattern(polaris_cxp_t, polaris_cxp_var_run_t, polaris_cxp_var_run_t)
manage_dirs_pattern(polaris_cxp_t, polaris_cxp_var_run_t, polaris_cxp_var_run_t)
manage_sock_files_pattern(polaris_cxp_t, polaris_cxp_var_run_t, polaris_cxp_var_run_t)
files_pid_filetrans(polaris_cxp_t, polaris_cxp_var_run_t, { file dir sock_file })

polaris_ttm_var_sock_write(polaris_cxp_t)

# vip_execute_nowait uses setpgid
allow polaris_cxp_t self:process setpgid;

# cxp may create vrf-based netns on demand
polaris_vrf_netns_manage(polaris_cxp_t)

# Allow /usr//cxpd manages /usr/binos/conf/global.service.conf and
# /tmp/tdlresolve/
polaris_tdlresolve_manage(polaris_cxp_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscxp.te
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#

/usr/binos/conf/viptela-start.sh -- gen_context(system_u:object_r:polaris_cedge_start_exec_t:s0)
dnl

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dnl
divert(-1)

include(`polaris_process.m4')

include(`polaris_database_db.m4')
include(`polaris_database_db_te.m4')

include(`polaris_max_scope.m4')

divert(0)dnl
#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#
policy_module(polarisplatformdbauto, 1.0);

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_database_te.m4
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#

## <summary>Polaris vman Policy Rules.</summary>

############################################################
## <summary>
##      Read files of type polaris_vman_tmp_t (e.g., /tmp/cgroup.log)
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>

# interface('polaris_vman_tmp_write',
    type polaris_vman_tmp_t;
')
write_files_pattern($1, polaris_vman_tmp_t, polaris_vman_tmp_t)
')

## <summary>
##      Manage dir/files of type polaris_vman_tmp_t (e.g., /tmp/cgroup.log)
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>

# interface('polaris_vman_tmp_manage',
    type polaris_vman_tmp_t;
')
manage_files_pattern($1, polaris_vman_tmp_t, polaris_vman_tmp_t)
manage_dirs_pattern($1, polaris_vman_tmp_t, polaris_vman_tmp_t)
')

## <summary>
##      Read files of type polaris_disk_vman_t (e.g., /bootflash/virtual-instance/)
```c
interface('polaris_disk_vman_read',

    gen_require('  
        type polaris_disk_vman_t;
    ')  
    read_files_pattern($1, polaris_disk_vman_t, polaris_disk_vman_t)  
    read_link_files_pattern($1, polaris_disk_vman_t, polaris_disk_vman_t)  
    list_dirs_pattern($1, polaris_disk_vman_t, polaris_disk_vman_t)
    )

#######################################
## <summary>
##       List files of type polaris_disk_vman_t (e.g., /bootflash/virtual-instance/)
## </summary>
## <param name="domain">
##       Domain allowed access.
## </param>
## </param>
#
interface('polaris_disk_vman_dir_list',

    gen_require('      type polaris_disk_vman_t;
      type polaris_disk_bootflash_t;
      type polaris_disk_harddisk_t;
    ')  
    list_dirs_pattern($1, { polaris_disk_vman_t polaris_disk_bootflash_t polaris_disk_harddisk_t },
    polaris_disk_vman_t)
    )

#######################################
## <summary>
##       Operate on @vman_domain_socket unix socket. Look at
## vman_clnt_msg_transport_init function in vman_clnt_msg_uds.c
## </summary>
## <param name="domain">
##       Domain allowed access.
## </param>
## </param>
#
interface('polaris_vman_use_client_socket',
```
gen_require(
    type polaris_vman_t;
')
allow $1 polaris_vman_t:unix_stream_socket connectto;
')

 arcpy_require(
    type polaris_vman_log_t;
')
manage_files_pattern($1, polaris_vman_log_t, polaris_vman_log_t)
manage_dirs_pattern($1, polaris_vman_log_t, polaris_vman_log_t)
')
')

 arcpy_require(
    type polaris_var_vman_t;
')
list_dirs_pattern($1, polaris_var_vman_t, polaris_var_vman_t)
read_files_pattern($1, polaris_var_vman_t, polaris_var_vman_t)
')
')
## <summary>
## Write into fifo file created by vman, typical case when
## vman starts script under popen in different domain.
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
## <rolecap/>
#
interface(`polaris_vman_use_fifo`,
    gen_require(`
        type polaris_vman_t;
    `)
    read_fifo_files_pattern($1, polaris_vman_t, polaris_vman_t)
    write_fifo_files_pattern($1, polaris_vman_t, polaris_vman_t)
`)

####################################################################
## <summary>
## Check existence (getattr) of vman btrace file (i.e
## polaris_vman_bt_t)
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
# interface(`polaris_vman_bt_getattr`,
#     gen_require(`
#         type polaris_vman_bt_t;
#         type polaris_btrace_base_t;
#     `)
#     getattr_files_pattern($1, polaris_btrace_base_t, polaris_vman_bt_t)
`)
#

interface('polaris_vman_virtlog_allow',
    gen_require(
        type virtlogd_t;
    ')
)

#allow domain to write to pipes
allow $1 virtlogd_t:fifo_file rw_inherited_fifo_file_perms;

#allow virtlogd_t to search dirs /var/log/libvirt/qemu
logging_search_logs(virtlogd_t)
'

#########################################################################
## <summary>
##      Allow polaris_vman_t to kill process from domain.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#

interface('polaris_vman_kill_process',
    gen_require(
        type polaris_vman_t;
    ')
    allow polaris_vman_t $1:process sigkill;
    ')

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#

## <summary>Polaris tws Policy Rules.</summary>

#########################################################################
## <summary>
##      Allow the specified domain to manage KGV data files
## I.e /tmp/package_biv_sums.
## </summary>
## <param name="domain">
##     <summary>
##     Domain allowed access.
##     </summary>
## </param>
#
interface('polaris_kgv_data_manage',
gen_require(
    type polaris_kgv_data_t;
')

manage_files_pattern($1, polaris_kgv_data_t, polaris_kgv_data_t)
allow $1 polaris_kgv_data_t:file map;
')

########################################
## <summary>
##     Execute a domain transition to run code_sign_verify
## </summary>
## <param name="domain">
##     <summary>
##     Domain allowed to transition.
##     </summary>
## </param>
#
interface('polaris_code_verify_domtrans',
gen_require(
    type polaris_code_verify_t, polaris_code_verify_exec_t;
')

domtrans_pattern($1, polaris_code_verify_exec_t, polaris_code_verify_t)
')

########################################
## <summary>
##     Execute a domain transition to the polaris_hw_upgrade
## </summary>
## <param name="domain">
##     <summary>
##     Domain allowed to transition.
##     </summary>
## </param>
#
interface('polaris_hw_upgrade_domtrans',
gen_require(
    type polaris_hw_upgrade_t, polaris_hw_upgrade_exec_t;
')
corecmd_search_bin($1)
domtrans_pattern($1, polaris_hw_upgrade_exec_t, polaris_hw_upgrade_t)
')

########################################
## <summary>
##      Work (read, write, ioctl) with /dev/aikido device
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_aikido_dev_use',
# gen_require(''
#   type device_t;
type polaris_aikido_device_t;
')
#   write_chr_files_pattern($1, device_t, polaris_aikido_device_t)
#   read_chr_files_pattern($1, device_t, polaris_aikido_device_t)

########################################
## <summary>
##      Execute a domain transition to the polaris_rom_upgrade
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
# interface('polaris_rom_upgrade_domtrans',
# gen_require(''
#   type polaris_hw_upgrade_t, polaris_rom_upgrade_exec_t;
')
#   corecmd_search_bin($1)
#   domtrans_pattern($1, polaris_rom_upgrade_exec_t, polaris_rom_upgrade_t)

')

########################################
## <summary>
##      Write into fifo file created during rommon_upgrade
## </summary>
## <param name="domain">
### <summary>
Domain allowed access.
### </summary>
### <param>
### <rolecap/>
#
interface('polaris_rom_upgrade_use_fifo',
gen_require(
 type polaris_rom_upgrade_t;
')

    write_fifo_files_pattern($1, polaris_rom_upgrade_t, polaris_rom_upgrade_t)
')

# Work (read, write, ioctl) with /dev/scansta device

### <param name="domain">
### <summary>
Domain allowed access.
### </summary>
### </param>
#
interface('polaris_scansta_dev_use',
gen_require(
 type device_t;
type polaris_scansta_device_t;
')
    write_chr_files_pattern($1, device_t, polaris_scansta_device_t)
    read_chr_files_pattern($1, device_t, polaris_scansta_device_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristws.if
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#
/tmp/.*/chasfs(\.*)? gen_context(system_u:object_r:polaris_chasfs_t,s0)
/tmp/chassis/.*/chasfs(\.*) gen_context(system_u:object_r:polaris_chasfs_t,s0)
/tmp/chassis gen_context(system_u:object_r:polaris_chasfs_t,s0)
/tmp/chassis(\/.*) gen_context(system_u:object_r:polaris_chasfs_t,s0)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarischasfs.fc
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#

/tmp/.CRDU_COMMAND_PIPE gen_context(system_u:object_r:polaris_crdu_pipe_tmp_t,s0)
/tmp/.CRDU_RESPONSE_PIPE gen_context(system_u:object_r:polaris_crdu_pipe_tmp_t,s0)

/usr/binos/conf/trans_ports_helper.sh -- gen_context(system_u:object_r:polaris_trans_ports_helper_exec_t,s0)
/usr/binos/conf/trans_stats_helper.sh -- gen_context(system_u:object_r:polaris_trans_stats_helper_exec_t,s0)
/usr/binos/conf/mcp_disk_oir.sh -- gen_context(system_u:object_r:polaris_disk_oir_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissmand.fc
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#
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#

policy_module(polarissmand, 1.0);

gen_require(
    type polaris_smand_t;
    type polaris_smand_exec_t;
')
polaris_btrace_data_manage(polaris_smand_t)

polaris_crft_data_manage(polaris_smand_t)

polaris_chasfs_manage(polaris_smand_t)

polaris_tldresolve_read(polaris_smand_t)

polaris_tldldb_list_dirs(polaris_smand_t)

polaris_cpld_read(polaris_smand_t)

polaris_lua_read(polaris_smand_t)

polaris_flashlib_read(polaris_smand_t)

polaris_send_signal_to_bexecute(polaris_smand_t)

polaris_ripc_sman_ui_serv_connect(polaris_smand_t)

polaris_db_tldldb_dir_use(polaris_smand_t)

type polaris_crdu_pipe_tmp_t;
files_tmp_file(polaris_crdu_pipe_tmp_t)
files_tmp_filetrans(polaris_smand_t, polaris_crdu_pipe_tmp_t, fifo_file, ".CRDU_COMMAND_PIPE")
files_tmp_filetrans(polaris_smand_t, polaris_crdu_pipe_tmp_t, fifo_file, ".CRDU_RESPONSE_PIPE")
polaris_smand_crdu_pipe_manage(polaris_smand_t)

# work with /tmp/sman files

type polaris_smand_tmp_t;
files_tmp_file(polaris_smand_tmp_t)
manage_dirs_pattern(polaris_smand_t, polaris_smand_tmp_t, polaris_smand_tmp_t)
manage_files_pattern(polaris_smand_t, polaris_smand_tmp_t, polaris_smand_tmp_t)
files_tmp_filetrans(polaris_smand_t, polaris_smand_tmp_t, { file dir })

# allow read of /etc/group
auth_use_nsswitch(polaris_smand_t)

# allow to send message to /dev/log
logging_send_syslog_msg(polaris_smand_t)

# allow objstore access
polaris_disk_objstore_read(polaris_smand_t)

# on edison smand shares sysv semaphore with iosd, why sem got initrc_t label
# is not clear.
gen_require(

type initrc_t;
)
allow polaris_smand_t initrc_t:sem { read write unix_write associate };

# why smand needs all these capability?
allow polaris_smand_t self:capability { dac_override chown fsetid };
allow polaris_smand_t self:capability2 block_suspend;
allow polaris_smand_t self:capability sys_resource;
on edison smand wants to read /proc/mtd which is proc_t

# type=AVC msg=audit(147841219.216:6): avc: denied { read } for pid=5410 comm="smand" name="mtd"
dev="proc" ino=4026535811 scontext=system_u:system_r:polaris_smand_t:s0
tcontext=system_u:object_r:proc_t:s0 tclass=file

# try to drop it latter
kernel_read_system_state(polaris_smand_t)

on edison silent roll package is still in iso format

# type=AVC msg=audit(1478497356.229:7): avc: denied { getattr } for pid=5816 comm="smand"
path="/tmp/sw/mount/cat3k_caa-srdriver.2016-11-06_21.10_kamensky.SSA.pkg/usr/bin/os/lib64" dev="loop7"
ino=3456 scontext=system_u:system_r:polaris_smand_t:s0 tcontext=system_u:object_r:iso9660_t:s0 tclass=dir

gen_require('type iso9660_t;)
  )
allow polaris_smand_t iso9660_t:dir { search getattr };

polaris_dynconfig_tmp_read(polaris_smand_t)
corecmd_exec_shell(polaris_smand_t)

# CLI "Show install issu history" invokes /usr/bin/os/conf/install_issu_show.py which
# needs /usr/bin/python3(bin file) execution
corecmd_exec_bin(polaris_smand_t)

# smand execute install_show.sh in its own domain need read results
polaris_install_show_tmp_read(polaris_smand_t)

# during boot issu_boottime.sh calls smand to obtain some information
gen_require('type unconfined_service_t;)
  )
domtrans_pattern(unconfined_service_t, polaris_smand_exec_t, polaris_smand_t)

# system_stats_periodic function from sman/src/fru_stats.c does
# ioctl(fd, SIOCGIFADDR, &ifr); on "system" interface name, which normally
# does not exist in Polaris platforms
kernel_dontaudit_request_load_module(polaris_smand_t)

# system_stats_periodic function from sman/src/fru_stats.c does
# statfs64 for /flash directory
fs_getattr_xattr_fs(polaris_smand_t)
polaris_disk_bootflash_read_link(polaris_smand_t)
polaris_disk_bootflash_search(polaris_smand_t)

gen_require('type rsync_t;)
  )
# upon exec rsync inherits smand's stdout/stderr fifo files
allow rsync_t polaris_smand_t:fifo_file write;

gen_require(
    type polaris_bshell_t;
)
polaris_chasfs_read(polaris_bshell_t)
polaris_tdlresolve_read(polaris_bshell_t)

# bshell memory logs related
type polaris_memmon_tmp_files_t;
files_tmp_file(polaris_memmon_tmp_files_t)
files_tmp_filetrans(unconfined_service_t, polaris_memmon_tmp_files_t, dir, "memmon_logs")
## give bshell permissions
manage_files_pattern(polaris_bshell_t, polaris_memmon_tmp_files_t, polaris_memmon_tmp_files_t)

# sman needs to access gnmib gnoi images
optional_policy(
    polaris_gnmib_gnoi_images_read(polaris_smand_t)
)

# CLI "Show install issu history" access to "/bootflash/.installer/install_issu_history"
# and "/tmp/show_install_output.txt"
polaris_install_engine_domtrans(polaris_smand_t)
polaris_install_show_domtrans(polaris_smand_t)

# xcopy_script gets called for xcopy RPC data model
polaris_xcopy_script_domtrans(polaris_smand_t)

#
==================================================================
="
sh ip ports" CLI policies, execute trans_ports_helper.sh script
polaris_utility_domain_template(trans_ports_helper)
# transit into the domain
domtrans_pattern(polaris_smand_t, polaris_trans_ports_helper_exec_t, polaris_trans_ports_helper_t)
#binary tracing fifo_file as standard output
polaris_use_btrace_fifo(polaris_trans_ports_helper_t)
# execute "tail" command
corecmd_exec_bin(polaris_trans_ports_helper_t)
corecmd_exec_shell(polaris_trans_ports_helper_t)
polaris_proc_fd_all_getattr(polaris_trans_ports_helper_t)
# getattr all polaris_domain
domain_getattr_all_domains(polaris_trans_ports_helper_t)
# run mcp_chvrf.sh without transition
polaris_exec_chvrf(polaris_trans_ports_helper_t)
fds_read_nsfs_files(polaris_trans_ports_helper_t)
# lsof options tcp reads /proc/net/raw
kernel_read_network_state(polaris_trans_ports_helper_t)
# ls access to /proc/3792/fd/6 triggers sys_ptrace capability
allow polaris_trans_ports_helper_t self:capability { sys_ptrace }

# allow file and directory read and execute permission checks
allow polaris_trans_ports_helper_t self:capability dac_read_search;

# map /etc/passwd
auth_use_nsswitch(polaris_trans_ports_helper_t)

type polaris_trans_ports_tmp_t;
files_tmp_file(polaris_trans_ports_tmp_t)
# create /tmp/trans_ports_tmp and /tmp/trans_ports_result
files_tmp_filetrans(polaris_trans_ports_helper_t, polaris_trans_ports_tmp_t, file, "show_ports_tmp")
files_tmp_filetrans(polaris_trans_ports_helper_t, polaris_trans_ports_tmp_t, file, "show_ports_result")
polaris_trans_ports_tmp_manage(polaris_trans_ports_helper_t)
# smand open and unlinks /tmp/trans_ports_tmp
polaris_trans_ports_tmp_manage(polaris_smand_t)
#

==================================================================================

# "show platform software kernel ... " CLI executes trans_stats_helper.sh. Need domain
# transition
#
polaris_utility_domain_template(trans_stats_helper)
# transit into the domain
domtrans_pattern(polaris_smand_t, polaris_trans_stats_helper_exec_t, polaris_trans_stats_helper_t)
#binary tracing fifo_file as standard output
polaris_use_btrace_fifo(polaris_trans_stats_helper_t)
#execute lsof in helper script
corecmd_exec_bin(polaris_trans_stats_helper_t)
corecmd_exec_shell(polaris_trans_stats_helper_t)
auth_use_nsswitch(polaris_trans_stats_helper_t)
# lsof reads /proc/*/fd/* attributes
polaris_proc_fd_all_getattr(polaris_trans_stats_helper_t)

# lsof options tcp reads /proc/net/raw
kernel_read_network_state(polaris_trans_stats_helper_t)

# lsof reads /proc/locks
kernel_read_system_state(polaris_trans_stats_helper_t)

# lsof readmnt
fs_read_nsfs_files(polaris_trans_stats_helper_t)

# ls access to /proc/3792/fd/6 triggers sys_ptrace capability
# and dac_read_search as well.
allow polaris_trans_stats_helper_t self:capability { sys_ptrace dac_read_search }


type polaris_trans_stats_tmp_t;
files_tmp_file(polaris_trans_stats_tmp_t)
# create /tmp/trans_stats_tmp and /tmp/trans_stats_tmp.1 to store lsof output
files_tmp_filetrans(polaris_trans_stats_helper_t, polaris_trans_stats_tmp_t, file, "trans_tmp")
files_tmp_filetrans(polaris_trans_stats_helper_t, polaris_trans_stats_tmp_t, file, "trans_tmp.1")
polaris_trans_stats_tmp_manage(polaris_trans_stats_helper_t)
# smand open and unlinks /tmp/trans_tmp
polaris_trans_stats_tmp_manage(polaris_smand_t)

# run mcp_chvrf.sh without transition
polaris_exec_chvrf(polaris_trans_stats_helper_t)

#
=================================================================================================
==============
# CLI "request platform hardware filesystem harddisk: offline | online" which runs mcp_disk_oir.sh
polaris_utility_domain_template(disk_oir)
polaris_bexecute_domain(polaris_disk_oir_t, polaris_disk_oir_exec_t)

#execute lsof
corecmd_exec_bin(polaris_disk_oir_t)

# This is a CLI script that access types and /proc/pid/fd/*
polaris_proc_fd_all_getattr(polaris_disk_oir_t)

# access sysctl_rpc_t
kernel_read_rpc_sysctls(polaris_disk_oir_t)

# reads /proc/net/*
kernel_read_network_state(polaris_disk_oir_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_disk_oir_t)

# lsof readmnt
fs_read_nsfs_files(polaris_disk_oir_t)

#inherits stdin/stdout of pty opened by telnetd
telnet_use_ptys(polaris_disk_oir_t)

allow polaris_disk_oir_t self:capability { dac_read_search sys_nice sys_rawio }
allow polaris_disk_oir_t self:process { setfscreate setsched }

# execute lvm commands
lvm_domtrans(polaris_disk_oir_t)
# "lsof -nP" read /dev/sda1 (/csl_p_0) and other operations when disk is destroyed.
storage_manage_fixed_disk(polaris_disk_oir_t)

# access /tmp/chassis/cpld/chasfs
polaris_chasfs_read(polaris_disk_oir_t)

# cat /tmp/chassis/cpld/chasfs/platform_type'
polaris_cpld_read(polaris_disk_oir_t)

#/bin/rm -rf /tmp/udev/etc/udev/harddisk'
fs_getattr_tmpfs(polaris_disk_oir_t)

# access /tmp/udev/etc/udev/harddisk'
polaris_udev_tmp_manage(polaris_disk_oir_t)

#/bin/mkdir -p /tmp/udev_cache/harddisk
tmpfs_filetrans(polaris_disk_oir_t, polaris_udev_tmp_files_t, dir, "udev_cache")

# systemctl start handle_mount@vol-harddisk.service, communicate with systemd
systemd_exec_systemctl(polaris_disk_oir_t)

# mount /dev/harddisk1 /vol/harddisk
mount_domtrans(polaris_disk_oir_t)

# read /proc/cmdline
kernel_read_all_proc(polaris_disk_oir_t)

# system service start/stop: /lib/systemd/system/handle_mount@.service
systemd_config_generic_services(polaris_disk_oir_t)

#/sbin/hdparm -S 0 /dev/sdb, execute hdparm in its own domain
fstools_domtrans(polaris_disk_oir_t)

ifdef(`crankshaft_family',`
gen_require(`
    type device_t;
    type udev_t;
  `)
filetrans_pattern( {udev_t polaris_disk_oir_t}, device_t, fixed_disk_device_t, lnk_file, "harddisk")
filetrans_pattern( {udev_t polaris_disk_oir_t}, device_t, fixed_disk_device_t, lnk_file, "harddisk1")
manage_lnk_files_pattern(polaris_disk_oir_t, fixed_disk_device_t, fixed_disk_device_t)

# /dev/harddisk may be labeled with device_t. The "unlink" AVC deny will be fixed when it is labeled correctly

# allow /bin/dd to access /dev/nvme in blk_file
dev_nvme_blk_files_manage(polaris_disk_oir_t)

# allow /bin/cat to access /tmp/nim_xxd_present
gen_require(`
type polaris_cmrp_nim_xxd_tmp_t;
')
read_files_pattern(polaris_disk_oir_t, polaris_cmrp_nim_xxd_tmp_t, polaris_cmrp_nim_xxd_tmp_t)
')

# watches of /tmp/[rp|fp|cc]/pvp/process_state directory
polaris_process_state_watch(polaris_smand_t)

ifdef(`petra_platform',
  # allow access to polaris_cm_rp sem
  polaris_cm_rp_sem_use(polaris_smand_t)
  # allow access to /flash12/moncfg/cfg.dat
  polaris_swipdrive_file_manage(polaris_smand_t)
  # allow access to /flash6/moncfg/cfg.dat
  polaris_nvram_read(polaris_smand_t)
')

dmesg_domtrans(polaris_smand_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissmand.te
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
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#

# pci rescan shm file
/dev/shm/rescan_shm gen_context(system_u:object_r:polaris_cm_cc_tmpfs_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmcc.fc
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
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#

## <summary>Polaris mobilityd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismobilityd.if
No license file was found, but licenses were detected in source scan.

#
# September 2018, Anubha Balani
#
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#

policy_module(polarismemory, 1.0);

###############################################################################
# Polaris memory: libmaroon and such
###############################################################################

attribute polaris_maroon_data_domain;

type polaris_maroon_base_t;
files_type(polaris_maroon_base_t)

type attribute polaris_maroon_base_t polaris_maroon_data_domain;

gen_require(
    attribute polaris_extended_domain;
')

files_tmp_filetrans(polaris_extended_domain, polaris_maroon_base_t, dir, "maroon_stats")

type polaris_zram_device_t;
dev_node(polaris_zram_device_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismemory.te
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#
# March 2017, Victor Kamensky
#
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#

# polarisemd file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisemd.fc
No license file was found, but licenses were detected in source scan.
## <summary>Polaris nif_mgr Policy Rules.</summary>

### <summary>
Use /tmp/sv directory and files. Currently this acts as a
chasfs root for information shared between the nif manager
and the fed.
</summary>

### <param name="domain">
Domain allowed access.
</param>

interface(`polaris_sv_tmp_use',`
    gen_require(`
        type polaris_sv_tmp_t;
        type tmp_t;
    `)
    manage_dirs_pattern($1, tmp_t, polaris_sv_tmp_t)
    manage_files_pattern($1, polaris_sv_tmp_t, polaris_sv_tmp_t)
    allow $1 polaris_sv_tmp_t:dir watch;
`)

### <summary>
This is to allow creation and write to
doppler_sesa file under proc
</summary>

### <param name="domain">
Domain allowed access.
</param>

interface(`polaris_proc_sesa_create_write',`
    gen_require(`
        type polaris_proc_sesa_t;
    `)
    manage_dirs_pattern($1, polaris_proc_sesa_t)
    manage_files_pattern($1, polaris_proc_sesa_t)
    allow $1 polaris_proc_sesa_t:dir watch;
`)

---

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setattr_files_pattern($1, polaris_proc_sesa_t, polaris_proc_sesa_t)
rw_files_pattern($1, polaris_proc_sesa_t, polaris_proc_sesa_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnifmgr.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

/usr/bin/os/conf/btdecode -- gen_context(system_u:object_r:polaris_btdecode_exec_t,s0)
/usr/bin/os/conf/bttail -- gen_context(system_u:object_r:polaris_btdecode_exec_t,s0)
/usr/bin/os/conf/mcp_trace_filter.sh -- gen_context(system_u:object_r:polaris_trace_filter_exec_t,s0)
/usr/bin/os/conf/mcp_trace_request.sh -- gen_context(system_u:object_r:polaris_trace_request_exec_t,s0)

/usr/bin/os/conf/create_luid_file_db -- gen_context(system_u:object_r:polaris_create_ldb_exec_t,s0)
/tmp/btrace_luids_file.cdb.tmp -- gen_context(system_u:object_r:polaris_lmdb_tmp_t,s0)
/tmp/btrace_luids_file.cdb -- gen_context(system_u:object_r:polaris_lmdb_tmp_t,s0)

/tmp/cc/0/trace(\.*?\) gen_context(system_u:object_r:polaris_trace_base_t,s0)
/tmp/cc/0/trace/fifo(\.*?) gen_context(system_u:object_r:polaris_fifo_stdout_base_t,s0)
/tmp/fp/trace(\.*?) gen_context(system_u:object_r:polaris_trace_base_t,s0)
/tmp/fp/trace/fifo gen_context(system_u:object_r:polaris_fifo_stdout_base_t,s0)
/tmp/fs/trace/fifo(\.*?) gen_context(system_u:object_r:polaris_fifo_stdout_base_t,s0)
/tmp/fs/trace/fifo gen_context(system_u:object_r:polaris_fifo_stdout_t,s0)
/dev/shm/sem\.uuid_sem gen_context(system_u:object_r:polaris_btrace_tmpfs_t,s0)
/dev/shm/oper_uuid_shm gen_context(system_u:object_r:polaris_btrace_tmpfs_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbtrace.fc
No license file was found, but licenses were detected in source scan.

#
# September 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#
policy_module(polarisdbgd, 1.0);

gen_require('/
   type polaris_dbgd_t;
')
polaris_chasfs_read(polaris_dbgd_t)
polaris_tdlresolve_read(polaris_dbgd_t)
polaris_cpld_read(polaris_dbgd_t)

logging_send_syslog_msg(polaris_dbgd_t)

# vconfd_load_shared_schemas
polaris_confd_shared_schema_read(polaris_dbgd_t)

# /var/run/dbgd socket and pid
type polaris_dbgd_var_run_t;
files_pid_file(polaris_dbgd_var_run_t)
manage_files_pattern(polaris_dbgd_t, polaris_dbgd_var_run_t, polaris_dbgd_var_run_t)
manage_sock_files_pattern(polaris_dbgd_t, polaris_dbgd_var_run_t, polaris_dbgd_var_run_t)
files_pid_filetrans(polaris_dbgd_t, polaris_dbgd_var_run_t, { file sock_file })
polaris_vdaemon_var_sock_write(polaris_dbgd_t)

# dbgd may create vrf-based netns on demand
polaris_vrf_netns_manage(polaris_dbgd_t)
## <summary>Polaris JVM Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisjvm.if

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Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisinstall.te
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristws.te

No license file was found, but licenses were detected in source scan.

#

# December 2018, Victor Kamensky
#  
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#

policy_module(polarisezmancc, 1.0);

gen_require('  
  type polaris_ezman_cc_t;
')

polaris_chasfs_read(polaris_ezman_cc_t)
polaris_cpld_read(polaris_ezman_cc_t)
polaris_tdlresolve_read(polaris_ezman_cc_t)
polaris_ripc_sman_ui_serv_connect(polaris_ezman_cc_t)

allow polaris_ezman_cc_t self:capability dac_override;

polaris_ooh_evfc_dev_use(polaris_ezman_cc_t)
# LOOK AT ME by some reason relabeling of /dev/ezlkm
# device files does not work
dev_rw_generic_chr_files(polaris_ezman_cc_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisezmancc.te

No license file was found, but licenses were detected in source scan.

#

# Oct 2020, Xin Xiang
#
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#

policy_module(polarisdoppler, 1.0);

# doppler interrupt device
type polaris_dplr_device_t;
dev_node(polaris_dplr_device_t)

# dma mmap device
type polaris_dmammap_device_t;
dev_node(polaris_dmammap_device_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdoppler.te
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# # Nov 2020, Swati Kumari
#
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#

## <summary>Polaris PTPD Policy Rules.</summary>

### <summary>Work (read, write, ioctl) with /dev/blzi_fpga</summary>

## <param name="domain">Domain allowed access.</param>

interface('polaris_blzi_dev_use',
    gen_require(
        type device_t;
        type polaris_blzi_device_t;
    )
    write_chr_files_pattern($1, device_t, polaris_blzi_device_t)
    read_chr_files_pattern($1, device_t, polaris_blzi_device_t)
    allow $1 polaris_blzi_device_t:chr_file map;
)

Found in path(s):
No license file was found, but licenses were detected in source scan.

#  
# March 2017, Victor Kamensky  
#  
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#  
### <summary>Polaris cpp_cp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppcp.if
No license file was found, but licenses were detected in source scan.

#  
# March 2017, Victor Kamensky  
#  
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#  
policy_module(polariscppdriver, 1.0);

gen_require(
    type polaris_cpp_driver_t;
')

polaris_btrace_data_manage(polaris_cpp_driver_t)
polaris_crft_data_manage(polaris_cpp_driver_t)
polaris_chasfs_manage(polaris_cpp_driver_t)
polaris_tdlresolve_read(polaris_cpp_driver_t)
polaris_tdlldb_list_dirs(polaris_cpp_driver_t)
polaris_cpld_read(polaris_cpp_driver_t)
polaris_flashlib_read(polaris_cpp_driver_t)
polaris_ripc_sman_ui_serv_connect(polaris_cpp_driver_t)
polaris_cpp_process(polaris_cpp_driver_t)
polaris_cpp_dev_use(polaris_cpp_driver_t)

# allow read variety of system information from sysfs
# type=AVC msg=audit(1479601620.503:19): avc: denied { open } for pid=22839 comm="cpp_driver"
# path="/sys/devices/system/node/node0/meminfo" dev="sysfs" ino=805
# scontext=system_u:system_r:polaris_cpp_driver_t:s0 tcontext=system_u:object_r:sysfs_t:s0 tclass=file
# dev_read_sysfs(polaris_cpp_driver_t)
optional_policy(')
# cpp_driver reads qfp executable to look at .stabs sections that
# contains qfp code fixups, then this fixup data is passed to kernel
# module to modify qfp code.
gen_require(')
    type bin_t;
    type polaris_qfp_exec_t;
')
read_files_pattern(polaris_cpp_driver_t, bin_t, polaris_qfp_exec_t)
')
polaris_icc_broken_relocations(polaris_cpp_driver_t)

# work with /dev/i2c devices
polaris_i2c_use(polaris_cpp_driver_t)
polaris_cpp_cavium_sdk_ipc_use(polaris_cpp_driver_t)
logging_send_syslog_msg(polaris_cpp_driver_t)

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCvh58515)
ifdef('crankshaft_family',')
polaris_dev_mem_use(polaris_cpp_driver_t)
')

# allow access to /tmp/octeon-remote-lock-pci***
# This is required as part of cpp_driver access of octeon chip.
# As part of the init, call is made to octeon_remote_lock()
# which requires access to the /tmp file.
ifdef('crankshaft_family',')
polaris_cm_fp_tmp_filetrans(polaris_cpp_driver_t)
polaris_cm_fp_tmp_manage(polaris_cpp_driver_t)
')

# LOOK AT ME on overloard cpp_driver needs access to /dev/cavium_e
# and /dev/pcie0 devices, on lmg cpp_driver needs access to
# /dev/yoda0_tree2, etc
dev_rw_generic_chr_files(polaris_cpp_driver_t)

# /dev/cpp_il on qwlc
optional_policy(')
polaris_cpp_il_dev_use(polaris_cpp_driver_t)
')

ifdef('qwlc_platform',')
polaris_cpld_dev_use(polaris_cpp_driver_t)
')
ifdef(`katar_platform',
    polaris_cpld_dev_use(polaris_cpp_driver_t)
')

ifdef(`mcp_family',
    polaris_cpld_dev_use(polaris_cpp_driver_t)
')

optional_policy(
    polaris_cpp_htdp_dev_use(polaris_cpp_driver_t)
    polaris_cbdma_dev_use(polaris_cpp_driver_t)
    polaris_cpp_htdp_dev_use(polaris_cpp_driver_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppdriver.te
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
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#

## <summary>Polaris odm_proxy Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisodmproxy.if
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#
# March 2017, Victor Kamensky
#
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#

policy_module(polarisbtrace, 1.0);

########################################################################
# Btrace policy
########################################################################
gen_require(
    attribute domain;
    attribute polaris_extended_domain;
    attribute unconfined_domain_type;
# persistent btrace files stored under btrace_data
type polaris_btrace_data_t;
files_type(polaris_btrace_data_t)

# allow btrace data file reside on persistent storage
polaris_pfile_type(polaris_btrace_data_t)

type polaris_fifo_stdout_t;
files_type(polaris_fifo_stdout_t)

type polaris_fifo_stdout_base_t;
files_type(polaris_fifo_stdout_base_t)

attribute polaris_btrace_data_domain;

type polaris_btrace_base_t;
files_type(polaris_btrace_base_t)

typeattribute polaris_btrace_base_t polaris_btrace_data_domain;
typeattribute polaris_btrace_data_t polaris_btrace_data_domain;

# is "trace" in tmp_t specific enough? Maybe we would need to change it in polaris
files_tmp_filetrans(polaris_extended_domain, polaris_btrace_base_t, dir, "trace")
# udev -> cat9k-ssd.mount -> unifiedfs_rsync_udev.sh -> btrace.sh might also create this dir
files_tmp_filetrans(udev_t, polaris_btrace_base_t, dir, "trace")

gen_require(
    attribute polaris_extended_domain;
    type polaris_pvp_tmp_t;
')
filetrans_pattern(polaris_extended_domain, polaris_pvp_tmp_t, polaris_btrace_base_t, dir, "trace")

# filetrans_pattern(polaris_extended_domain, polaris_btrace_base_t, polaris_fifo_stdout_base_t, dir, "fifo")
filetrans_pattern(domain, polaris_btrace_base_t, polaris_fifo_stdout_base_t, dir, "fifo")
filetrans_pattern(domain, polaris_fifo_stdout_base_t, polaris_fifo_stdout_t, fifo_file)
manage_dirs_pattern(polaris_extended_domain, polaris_btrace_base_t, polaris_fifo_stdout_base_t)

polaris_utility_domain_template(btdecode)

# any polaris process except iosd can execve btdecode utility to decode its own traces
gen_require(
    attribute polaris_domain;
    type polaris_iosd_t;
')
dontrans_pattern(polaris_domain - polaris_iosd_t, polaris_btdecode_exec_t, polaris_btdecode_t)
corecmd_check_exec_shell(polaris_domain - polaris_iosd_t)

# btdecode not only reads btrace files, but also creates copy of the file
polaris_btrace_data_manage_all(polaris_btdecode_t)
polaris_btrace_persistent_data_manage(polaris_btdecode_t)

polaris_use_btrace_fifo(polaris_btdecode_t)
polaris_tdlresolve_read(polaris_btdecode_t)
polaris_boot_tmp_read(polaris_btdecode_t)
polaris_lua_read(polaris_btdecode_t)
polaris_chasfs_read(polaris_btdecode_t)
polaris_cpld_read(polaris_btdecode_t)
polaris_bootflash_manage(polaris_btdecode_t)

# lua files need to read executables to retrieve btrace meta informations
files_mmap_all_files(polaris_btdecode_t)

# could be called on trace files on persistent storage
polaris_persistent_read(polaris_btdecode_t)

# need to read executables to retrieve btrace meta informations
polaris_read_exec_domain(polaris_btdecode_t)

corecmd_exec_bin(polaris_btdecode_t)
corecmd_exec_shell(polaris_btdecode_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_btdecode_t)

# executes luajit
allow polaris_btdecode_t self:process execmem;

# tmp files created by /lua/btdecode.lua in /tmp
type polaris_btdecode_tmp_t;
files_tmp_file(polaris_btdecode_tmp_t)
files_tmp_filetrans(polaris_btdecode_t, polaris_btdecode_tmp_t, file)
manage_files_pattern(polaris_btdecode_t, polaris_btdecode_tmp_t, polaris_btdecode_tmp_t)

# /lua/btdecode.lua may call create_luid_file_db on demand
polaris_create_ldb_domtrans(polaris_btdecode_t)

# in some cases it runs with telnet /dev/ptyN as stdin/stdout
# example when executed on other node, or "monitor log profile"
# command
telnet_use_ptys(polaris_btdecode_t)

# Allow btdecode to read/write /dev/pts/*
term_use_generic_ptys(polaris_btdecode_t)
polaris_btrace_ldb_tmp_read(polaris_btdecode_t)

# Allow btdecode to watch over /bootflash/tracelogs, /vol/harddisk/tarcelogs and /flash2/CRASH/tracelogs
polaris_btrace_data_watch(polaris_btdecode_t)

# Allow btdecode to watch over /usr/binos/conf
files_watch_usr_dirs(polaris_btdecode_t)

# Allow btdecode to access UFS mounted directories for other members
optional_policy('polaris_ncd_tmp_read(polaris_btdecode_t)
')

# btrace_rotate calls ftw function through create_luid_file_db utility
# that walks whole file tree in order to create btrace_luids_file.cdb
# let's have separate domain for this utility
polaris_utility_domain_template(create_ldb)

files_read_all_files(polaris_create_ldb_t)
files_getattr_all_dirs(polaris_create_ldb_t)
files_read_all_symlinks(polaris_create_ldb_t)
files_list_non_security(polaris_create_ldb_t)
files_dontaudit_list_security_dirs(polaris_create_ldb_t)
files_mmap_all_files(polaris_create_ldb_t)

# allow luid database scripts to read/write /dev/pts/*
term_use_generic_ptys(polaris_create_ldb_t)

# creates files like btrace_luids_file.cdb_20170907160108.tmp, btrace_luids_file.cdb
type polaris_ldb_tmp_t;
files_tmp_file(polaris_ldb_tmp_t)
files_tmp_filetrans(polaris_create_ldb_t, polaris_ldb_tmp_t, file)
files_tmp_filetrans(polaris_btdecode_t, polaris_ldb_tmp_t, file, "btrace_luids_file.cdb")
manage_files_pattern(polaris_create_ldb_t, polaris_create_ldb_t, polaris_create_ldb_t)
mmap_files_pattern(polaris_create_ldb_t, polaris_create_ldb_t, polaris_create_ldb_t, polaris_create_ldb_t)
polaris_use_btrace_fifo(polaris_create_ldb_t)

# in some cases it runs with telnet /dev/ptyN as stdin/stdout
# example when executed on other node, or "monitor log profile"
# command
telnet_use_ptys(polaris_create_ldb_t)

# Allowing permission to read/open/getattr/ on
#   /tmp/sw/mount/*universalk9.*.SSA.pkg/usr/binos/sbin/in.telnetd
gen_require('type telnetd_exec_t;
')
allow polaris_btdecode_t telnetd_exec_t:file { getattr open read };

*******************************************************************************
# CLI: show platform software trace filter-binary wired
# invokes.../bin/sh /usr/binos/conf/mcp_trace_filter.sh --binary wired
*******************************************************************************

polaris_utility_domain_template(trace_filter)

polaris_bexecute_domtrans(polaris_trace_filter_t)
polaris_bexecute_domain(polaris_trace_filter_t, polaris_trace_filter_exec_t)
# mcp_trace_filter.sh runs with telnet /dev/ptyN as
# stdin/stdout if on standby
telnet_use_ptys(polaris_trace_filter_t)

# script starts rsync with mcp_chvrf.sh
polaris_chvrf_domtrans(polaris_trace_filter_t)

allow polaris_trace_filter_t self:capability { dac_override sys_resource };

# access /tmp/sw/boot/pkginfo
# awk -v what=^.BuildPath: $pkginfo_file ~ what { print $2 } /tmp/sw/boot/pkginfo
polaris_boot_tmp_read(polaris_trace_filter_t)

polaris_chasfs_read(polaris_trace_filter_t)
polaris_disk_bootflash_read_lnk(polaris_trace_filter_t)
polaris_disk_crashinfo_getattr(polaris_trace_filter_t)
polaris_use_btman_fifo(polaris_trace_filter_t)
polaris_use_btrace_fifo(polaris_trace_filter_t)
polaris_smand_use_fifo(polaris_trace_filter_t)
polaris_cpld_read(polaris_trace_filter_t)
polaris_tlddb_list_dirs(polaris_trace_filter_t)
polaris_disk_haddrisk_read_lnk(polaris_trace_filter_t)
kernle_read_system_state(polaris_trace_filter_t)

# read /proc/mbonbifo files such as env_var.sh
polaris_mbonbifo_tmp_read(polaris_trace_filter_t)

# df on "/" needs fs_t:filesystem getattr
fs_getattr_xattr_fs(polaris_trace_filter_t)

#Allow mcp_trace_request.sh to access UFS mounted directories for other members
optional_policy(
    polaris_ncd_tmp_read(polaris_trace_filter_t)
    )

# allow creation/access of temporary files created by bash such as
# /tmp/sh-thd-1499428203 etc
type polaris_trace_filter_tmp_t;
files_tmp_file(polaris_trace_filter_tmp_t)
files_tmp_filetrans(polaris_trace_filter_t, polaris_trace_filter_tmp_t, file)
manage_files_pattern(polaris_trace_filter_t, polaris_trace_filter_tmp_t, polaris_trace_filter_tmp_t)

# mcp_trace_filter.sh invokes: "df /tmp/rp/tldb" and "df /dev/shm"
fs_getattr_tmpfs(polaris_trace_filter_t)

# allow accesses to polaris lua files
polaris_lua_read(polaris_trace_filter_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_trace_filter_t)
corecmd_exec_bin(polaris_trace_filter_t)

# why does btrace show command needs to write into btrace state?
polaris_btrace_data_manage_all(polaris_trace_filter_t)
polaris_btrace_persistent_data_manage(polaris_trace_filter_t)

# Allow mcp_trace_request.sh to access NFS mounted directories for other members
# such as /tmp/ufs/harddisk/10.130.1.0
fs_getattr_nfs(polaris_trace_filter_t)

##############################################################################
# CLI: monitor log profile <iwan | wireless | wired ..>
# invokes.../bin/sh /usr/bin/os/conf/mcp_trace_request.sh --operation monitor
##############################################################################
polaris_utility_domain_template(trace_request)
polaris_bexecute_domtrans(polaris_trace_request_t)
polaris_bexecute_domain(polaris_trace_request_t, polaris_trace_request_exec_t)

# Provide sys_resource capability for sys_pipe calls
allow polaris_trace_request_t self:capability sys_resource;
polaris_cpld_read(polaris_trace_request_t)
polaris_disk_crashinfo_getattr(polaris_trace_request_t)
polaris_disk_bootflash_read_lnk(polaris_trace_request_t)
polaris_disk_harddisk_read_lnk(polaris_trace_request_t)
polaris_chasfs_manage(polaris_trace_request_t)
fs_getattr_xattr_fs(polaris_trace_request_t)

# can execute hostname
hostname_exec(polaris_trace_request_t)
```c
#include <stdio.h>
#include <stdlib.h>
#include <unistd.h>
#include <string.h>
#include <sys/stat.h>
#include <fcntl.h>
#include <sys/time.h>
#include <sys/types.h>
#include <sys/ioctl.h>
#include <sys/mman.h>
#include <sys/sem.h>
#include <sys/shm.h>
#include <sys/msg.h>
#include <sys/socket.h>
#include <netinet/in.h>
#include <arpa/inet.h>
#include <errno.h>
#include <pwd.h>
#include <grp.h>
#include <sys/errno.h>
#include <sys/mount.h>
#include <sys/syscall.h>
#include <sys/sem.h>
#include <sys/shm.h>
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#include <sys/shm.h>
```
# such as /tmp/mtr_cntrl

%include "polaris_trace_request_tmp_t"
files_tmp_file(polaris_trace_request_tmp_t)
files_tmp_filetrans(polaris_trace_request_t, polaris_trace_request_tmp_t, file)
manage_files_pattern(polaris_trace_request_t, polaris_trace_request_tmp_t, polaris_trace_request_tmp_t)

# Allow mcp_trace_request.sh to access NFS mounted directories for other members
# such as /tmp/ufs/crashinfo/10.1.1.1
fs_getattr_nfs(polaris_trace_request_t)

# mcp_trace_request.sh invokes dmesg, which runs in dmesg_t domain needs access
# to btrace data store

gen_require("type dmesg_t;')
polaris_btrace_persistent_data_manage(dmesg_t)
# dmesg invocation in case of disk being full,
# results in writing to area of disk that
# requires the sys_resource capability.
allow dmesg_t self:capability sys_resource;

# Set /tmp/udev_ng4k.vbd.log to be under polaris_udev_tmp_files_t label
gen_require("type udev_t;
    type polaris_udev_tmp_files_t;
    type init_t;
')
files_tmp_filetrans(udev_t, polaris_udev_tmp_files_t, file, "udev_ng4k.vbd.log")
fs_tmpfs_filetrans(udev_t, polaris_udev_tmp_files_t, file, "udev_ng4k.vbd.log")
files_tmp_filetrans(init_t, polaris_udev_tmp_files_t, file, "udev_ng4k.vbd.log")
fs_tmpfs_filetrans(init_t, polaris_udev_tmp_files_t, file, "udev_ng4k.vbd.log")

# Add permission for mcp_trace_request to access polaris_udev_tmp_files_t files
polaris_udev_tmp_manage(polaris_trace_request_t)

# Allow ls /tmp/ufs/harddisk
optional_policy("polaris_ncd_tmp_read(polaris_trace_request_t)
'

#Allow mcp_trace_request to get tmpfs attributes
fs_getattr_tmpfs(polaris_trace_request_t)

#allow mcp_trace_request to execute tar
allow polaris_trace_request_t self:capability { chown fowner fsetid };

"
type polaris_btrace_tmpfs_t;
files_tmpfs_file(polaris_btrace_tmpfs_t)

# btrace semaphore created by systemd-tmpfiles needs map permission
gen_require(
    type systemd_tmpfiles_t;
)
mmap_files_pattern(systemd_tmpfiles_t, polaris_btrace_tmpfs_t, polaris_btrace_tmpfs_t)

# Allow polaris processes to manage level config files in tracelogs persistent
# directory like /bootflash/tracelogs/level_config
type polaris_btrace_lvl_config_t;
files_type(polaris_btrace_lvl_config_t)

gen_require(
    attribute polaris_domain;
)
polaris_btrace_lvl_config_manage(polaris_domain)

optional_policy(
    polaris_cedge_tanman_tmp_msage(polaris_btdecode_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbtrace.te
No license file was found, but licenses were detected in source scan.

#  
# March 2017, Victor Kamensky  
#  
# Copyright (c) 2016-2019 by Cisco Systems, Inc.  
# All rights reserved  
#  
/usr/binos/conf/psvp.sh -- gen_context(system_u:object_r:polaris_psvp_exec_t,s0)
/tmp/rp/psvp -d gen_context(system_u:object_r:polaris_psvp_tmp_t,s0)
/tmp/rp/psvp/inot_fifo -p gen_context(system_u:object_r:polaris_psvp_tmp_t,s0)
/tmp/rp/psvp/pvp\,pid -- gen_context(system_u:object_r:polaris_psvp_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispsvp.fc
No license file was found, but licenses were detected in source scan.

#  
# July 2017, Victor Kamensky  
#  
# Copyright (c) 2017-2021 by Cisco Systems, Inc.  
# All rights reserved
policy_module(polarisbexecute, 1.0);

polaris_utility_domain_template(bexecute)

polaris_utility_domain_template(chvrf)

polaris_bexecute_domtrans(polaris_chvrf_t)
polaris_chvrf_domtrans(polaris_bexecute_t)
polaris_ngio_module_session_domtrans(polaris_bexecute_t)

polaris_rom_upgrade_use_fifo(polaris_chvrf_t)

# bexecute
corecmd_exec_bin(polaris_bexecute_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_bexecute_t)

dev_setattr_null_dev(polaris_bexecute_t)

polaris_btrace_data_manage(polaris_bexecute_t)
polaris_crft_data_manage(polaris_bexecute_t)
polaris_chasfs_manage(polaris_bexecute_t)
polaris_cpld_read(polaris_bexecute_t)
polaris_boot_tmp_read(polaris_bexecute_t)
polaris_rmonbifo_tmp_read(polaris_bexecute_t)
polaris_proc_monbifo_read(polaris_bexecute_t)
polaris_dyncfg_tmp_read(polaris_bexecute_t)
polaris_read_debug_conf(polaris_bexecute_t)
polaris_tldldb_list_dirs(polaris_bexecute_t)
polaris_disk_bootflash_read_lnk(polaris_bexecute_t)
polaris_disk_harddisk_read_lnk(polaris_bexecute_t)

# open/read /tmp/swrp/max_elastic_bays
polaris_pvp_read_tmp_files(polaris_bexecute_t)

# search/getattr of /tmp/udev/etc/udev
polaris_udev_tmp_list_dirs(polaris_bexecute_t)

# manage files in /tmp/pman_ports
polaris_pman_manage_tmp_files(polaris_bexecute_t)

# brelay.sh does rm -rf of "/tmp/pman_ports/gdbport/9910"
# This checks tmpfs file system attributes
# Denial is observed after "show platform software audit summary"
# which uses brelay to trigger corresponding audit_log.sh script
fs_getattr_tmpfs(polaris_bexecute_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_bexecute_t)

# follow/tftp/inv symlink to /tmp/chassis/local/rp/chasfs/inventory
gen_require(' type tftpdir_rw_t;
')
read_lnk_files_pattern(polaris_bexecute_t, tftpdir_rw_t, tftpdir_rw_t)

# tries to do mkdir -p /tmp/rp/lipc, but it should exist already so
# getattr should be sufficient
polaris_lipc_getattr(polaris_bexecute_t)

# read /proc/cmdline
kernel_read_system_state(polaris_bexecute_t)

# binary tracing fifo_file as standard output
polaris_use_btrace_fifo(polaris_bexecute_t)

# write into pipe that smand created for us with popen
polaris_smand_use_fifo(polaris_bexecute_t)

allow polaris_bexecute_t self:capability { chown setgid setuid fowner net_admin };
allow polaris_bexecute_t self:process { setpgid setcap };

# temporary files created by bexecute like /tmp/get_status_type_pkg_list.rp-1-0-0.20170707094059.out.log
type polaris_bexecute_tmp_t;
files_tmp_file(polaris_bexecute_tmp_t)
files_tmp_filetrans(polaris_bexecute_t, polaris_bexecute_tmp_t, file)
manage_files_pattern(polaris_bexecute_t, polaris_bexecute_tmp_t, file, polaris_bexecute_tmp_t)

# smand calls many commands through bexec.sh
polaris_smand_domain(polaris_bexecute_t, polaris_bexecute_exec_t)

# hman invokes cpp_shm_mgr_info_show.sh which in turn invokes "mktemp -p /tmp/tmppub...
polaris_btrace_tmppub_manage(polaris_bexecute_t)

ifdef(`nyquist_platform,'
term_use_unallocated_ttys(polaris_bexecute_t)
term_setattr_unallocated_ttys(polaris_bexecute_t)
')

ifdef(`radium_platform`,}
polaris_load_usbnet_domtrans(polaris_bexecute_t)

    # allow /usr/binos/conf/bexecute.sh for tcp_socket access
    # due to "/bin/sh /usr/binos/conf/mcp_chvrf.sh eobc
    # /usr/binos/conf/bexecute.sh -c /usr/binos/conf/module_direct.py
    # 0 bp0 PROMETHIUM-L"
    gen_require(`
        type polaris_cm_rp_t;
    `)
    allow polaris_chvrf_t polaris_cm_rp_t:tcp_socket ioctl;

    # allow /usr/binos/conf/bexecute.sh for tcp_socket access
    # due to "/bin/sh /usr/binos/conf/mcp_chvrf.sh eobc
    # /usr/binos/conf/bexecute.sh -c /bin/mcp_pkg_wrap rp_daemons
    # /usr/binos/conf/execute_co"
    gen_require(`
        type polaris_dmi_ncsshd_fwd_t;
    `)
    allow polaris_chvrf_t polaris_dmi_ncsshd_fwd_t:tcp_socket ioctl;
`)

ifdef(`sumatra_platform`,
polaris_load_usbnet_domtrans(polaris_bexecute_t)
`)

ifdef(`nanook_platform`,
polaris_load_usbnet_domtrans(polaris_bexecute_t)
`)

ifdef(`supernova_platform`,
polaris_load_usbnet_domtrans(polaris_bexecute_t)
`)
polaris_issu_tmp_files_manage(polaris_bexecute_t)

    # Unlike other platforms, quake platform has runin_exec Proc.sh script,
    # which is started by xinetd in inetd_t domain,
    # and needs to switch to bexecute domain.
    # In turn, runin_exec Proc.sh then starts in.telnetd process which needs
    # to run in telnetd_t domain, for the existing policies to do the rest.
    ifdef(`quake_platform`,
    gen_require(`
        type inetd_t;
        type telnetd_t;
        type telnetd_exec_t;
    `)
polaris_bexecute_domtrans(inetd_t)
polaris_bexecute_domain(telnetd_t, telnetd_exec_t)
`)

    # Unifee other platforms
# chvrf

```c
corecmd_exec_bin(polaris_chvrf_t)
```

# allow read of /etc/passwd
```c
auth_use_nsswitch(polaris_chvrf_t)
```

# read polaris vrf net namespace file(s) /var/run/netns/0
```c
fs_read_nsfs_files(polaris_chvrf_t)
```

# write into pipe that various binos processes created for us with popen
```c
polaris_smand_use_fifo(polaris_chvrf_t)
polaris_hman_use_fifo(polaris_chvrf_t)
polaris_dmiauthd_use_fifo(polaris_chvrf_t)
optional_policy(
    polaris_cmrp_use_fifo(polaris_chvrf_t)
  )
optional_policy(
    polaris_dmi_nccsshd_fwd_use_fifo(polaris_chvrf_t)
  )
```

# mcp_chvrf.sh may run into files created by bexecute
```c
manage_files_pattern(polaris_chvrf_t, polaris_bexecute_tmp_t, polaris_bexecute_tmp_t)
```

# init may transition to polaris_chvrf_t - certain systemd units use
# mcp_chvrf.sh to start services
```c
gen_require(
    type init_t;
  )
polaris_chvrf_domtrans(init_t)
```

# mcp_chvrf.sh used to start xinetd services
```c
gen_require(
    type inetd_t;
    type inetd_exec_t;
  )
domtrans_pattern(polaris_chvrf_t, inetd_exec_t, inetd_t)
```

# in some cases mcp_chvrf needs to write into someone fifo stdout
# file, i.e when called from ncd.sh script
```c
polaris_use_btrace_fifo(polaris_chvrf_t)
```
```
sysnet_domtrans_ifconfig(polaris_chvrf_t)
```

# during some execve calls chvrf needs list /tmp/etc
polaris_etc_list(polaris_chvrf_t)

ifdef(`ngwc_family',`
# /tmp/rsync_log_dir/rsync_log_XXX is stdout when mcp_chvrf.sh with rsync is called
# also /tmp/etc/installer/inot_fifo file descriptor is leaked from the script
polaris_manage_rsync_tmplog_dir(polaris_chvrf_t)
polaris_autoupgrade_tmp_manage(polaris_chvrf_t)
polaris_autoupgrade_tmp_manage(polaris_bexecute_t)
')

ifdef(`mcp_family',`
# /tmp/rsync_log_dir/rsync_log_XXX is stdout when mcp_chvrf.sh with rsync is called
# also /tmp/etc/installer/inot_fifo file descriptor is leaked from the script
polaris_manage_rsync_tmplog_dir(polaris_chvrf_t)
polaris_autoupgrade_tmp_manage(polaris_chvrf_t)
polaris_autoupgrade_tmp_manage(polaris_bexecute_t)
')

ifdef(`wlc_family',`
# /tmp/rsync_log_dir/rsync_log_XXX is stdout when mcp_chvrf.sh with rsync is called
# also /tmp/etc/installer/inot_fifo file descriptor is leaked from the script
polaris_manage_rsync_tmplog_dir(polaris_chvrf_t)
polaris_autoupgrade_tmp_manage(polaris_chvrf_t)
polaris_autoupgrade_tmp_manage(polaris_bexecute_t)
')

# For "request platform software system shell" CLI, we have:
# /bin/sh /usr/binos/conf/mcp_chvrf.sh eobc /usr/binos/conf/bexecute.sh
# -c /usr/binos/conf/mcp_record_shell.sh
# mcp_chvrf.sh needs read/write access to /dev/pts/1:
# allow polaris_chvrf_t telnetd_devpts_t:chr_file { read write };
telnet_use_ptys(polaris_chvrf_t)

ifdef(`nyquist_platform',`
term_use_unallocated_ttys(polaris_chvrf_t)
')

# some times run with unix_stream_socket as stdin
init_ioctl_stream_sockets(polaris_chvrf_t)

******************************************************************************
# bexecute and mcp_chvrf.sh called from install_show.sh
******************************************************************************

polaris_install_show_tmp_write(polaris_bexecute_t)
polaris_install_show_tmp_write(polaris_chvrf_t)

******************************************************************************
# install_engine.sh uses brelay to re-launch install_engine in all FRUs.
# So, op_rp_switch_to_remote_loc_in_parallel() outputs to install tmp log file;
# check invocation-point for comms_run_on_remote_fru.

polaris_install_tmp_log_write(polaris_bexecute_t)
polaris_install_tmp_log_write(polaris_chvrf_t)

# CLI: show platform hardware cpp active infrastructure shared-memory all
# this results in hman invoking following chain of shell scrips.
#   /bin/sh /usr/binos/conf/bexec.sh -c /usr/binos/conf/cpp_shm_mngr_info_show.sh
#      /bin/bash /usr/binos/conf/bexecute.sh -c /usr/binos/conf/cpp_shm_mngr_info_show.sh
#   /bin/sh /usr/binos/conf/cpp_shm_mngr_info_show.sh
#      /bin/bash /usr/binos/conf/bshell.sh -S -c "show platform hardware qfp active \\
#   infrastructure shared-memory process cpp-control-process"
# All these are executed in polaris_bexecute_t domain and write access to following lipc
# is needed: /tmp/rp/lipc/shell_mgr_bshell_serv_socket

polaris_sman_bshell_serv_lipc_write(polaris_bexecute_t)
polaris_tdlresolve_read(polaris_bexecute_t)

# This block is policies for "sh pla so process memory r0 name iods maps" CLI
polaris_utility_domain_template(process_maps)
polaris_bexecute_domain(polaris_process_maps_t, polaris_process_maps_exec_t)

# needs to read maps files.
domain_read_all_domains_state(polaris_process_maps_t)

# "ps" needs read access to /sys/devices/system/cpu/online
# "ps" needs read access to /proc/uptime
dev_read_sysfs(polaris_process_maps_t)
kernell_read_system_state(polaris_process_maps_t)

# need write/ioctl/getattr access for pipes like "pipe:\[118396\]"
polaris_hman_use_fifo(polaris_process_maps_t)

corecmd_exec_bin(polaris_process_maps_t)

# This block is policies for "request platform software system shell" CLI.
# Eventually, mcp_record_shell.sh is invoked. That needs its own domain.

polaris_utility_domain_template(platform_shell)
polaris_bexecute_domain(polaris_platform_shell_t, polaris_platform_shell_exec_t)
corecmd_exec_bin(polaris_platform_shell_t)
auth_use_nsswitch(polaris_platform_shell_t)
polaris_btrace_persistent_data_manage(polaris_platform_shell_t)
polaris_cpld_read(polaris_platform_shell_t)

# cyan libraries access /tmp/sw/boot/rmonbifo/boardssubtype
polaris_rmonbifo_tmp_read(polaris_platform_shell_t)

# pglobals.sh accesses /tmp/ufs//crashinfo on cat9k platforms
optional_policy(
    polaris_ncd_tmp_read(polaris_platform_shell_t)
')

# mcp_record_shell.sh needs read access to chasfs
polaris_chasfs_read(polaris_platform_shell_t)

# mcp_record_shell.sh needs read access to /dev/pts/0 (telnetd_devpts_t)
telnet_use_ptys(polaris_platform_shell_t)

# rsync /tmp/system_shell_access_logs/$system_shell_access_log_file
# rsync://rp0-0/chasfs/etc/system_shell_access_logs/
gen_require(
    type rsync_t;
')
rsync_entry_domtrans(polaris_platform_shell_t, rsync_t)
allow rsync_t polaris_platform_shell_t:process sigchld;
telnet_use_ptys(rsync_t)

logging_send_syslog_msg(polaris_platform_shell_t)
init_list_pid_dirs(polaris_platform_shell_t)

# when reload command is issued, needs "kill" capability
allow polaris_platform_shell_t self:capability kill;

# brelay started from telnetd as result it inherits stdin/stdout of pty opened
# by telnetd
telnet_use_ptys(polaris_bexecute_t)
gen_require(
    type telnetd_devpts_t;
')
allow polaris_bexecute_t telnetd_devpts_t:chr_file setattr_chr_file_perms;
allow polaris_bexecute_t self:capability fsetid;

# mcp_record_shell.sh invokes:
# /usr/bin/script -q /harddisk/tracelogs/system_shell_R0*
# - needs access to /root/.bash_history
# - performs chmod on /dev/pts/2 (needs fsetid on self)
# - ioctl/open/read/write on /dev/ptmx
# - needs read/search access to /harddisk/tracelogs
type polaris_bash_tmp_t;
files_type(polaris_bash_tmp_t)
filetrans_pattern(domain, user_home_dir_t, polaris_bash_tmp_t, file, ".bash_history")
polaris_bash_tmp_manage(polaris_platform_shell_t)
allow polaris_platform_shell_t self:capability fsetid;
term_use_generic_ptys(polaris_platform_shell_t)
term_setattr_generic_ptys(polaris_platform_shell_t)
term_getattr_pty_fs(polaris_platform_shell_t)
term_use_ptmx(polaris_platform_shell_t)
polaris_disk_bootflash_read_lnk(polaris_platform_shell_t)
polaris_disk_harddisk_read_lnk(polaris_platform_shell_t)

# mcp_record_shell.sh invokes:
# mkdir /tmp/system_shell_access_logs
# create /tmp/system_shell_access_logs/SHELL_ACCESSED_*
type polaris_platform_shell_tmp_t;
files_tmp_file(polaris_platform_shell_tmp_t)
files_tmp_filetrans(polaris_platform_shell_t, polaris_platform_shell_tmp_t, dir, "system_shell_access_logs")
files_tmp_filetrans(polaris_platform_shell_t, polaris_platform_shell_tmp_t, file)
manage_dirs_pattern(polaris_platform_shell_t, polaris_platform_shell_tmp_t, polaris_platform_shell_tmp_t)
manage_files_pattern(polaris_platform_shell_t, polaris_platform_shell_tmp_t, polaris_platform_shell_tmp_t)

# read /proc/cmdline
kernel_read_system_state(polaris_platform_shell_t)

# read /tmp/sw/boot/base_pkg
polaris_boot_tmp_read(polaris_platform_shell_t)

cd /tmp/system_shell_access_logs

polaris_disk_crashinfo_getattr(polaris_platform_shell_t)

polaris_disk_auditfile_read_lnk(polaris_platform_shell_t)

polaris_utility_domain_template(shell)

term_use_generic_ptys(polaris_shell_t)

domtrans_pattern(polaris_platform_shell_t, polaris_shell_exec_t, polaris_shell_t)

# reload command needs the following policies to send signal
polaris_send_signal_to_bexecute(polaris_platform_shell_t)
polaris_send_signal_to_shell(polaris_platform_shell_t)

## <desc>
## <p>
## Polaris "request platform system shell" drops into unconfined shell
## </p>
## </desc>
gen_tunable(polaris_dev_shell, true)
tunable_policy('polaris_dev_shell',
    polaris_unconfined_domain(polaris_shell_t)
')
polaris_domain_storage_unconfined_type(polaris_shell_t)

# PLEASE LOOK AT ME do we have to many ports open
# btelnet runs under bexecute in case of guest shell console access
# command like app-hosting connect appid guestshell console
allow polaris_bexecute_t self:tcp_socket { connect create setopt }
corenet_tcp_connect_unreserved_ports(polaris_bexecute_t)
sysnet_read_config(polaris_bexecute_t)

# brelay.sh does ls /tmp/ufs//crashinfo on cat9k
allow polaris_bexecute_t self:capability dac_override;
polaris_disk_crashinfo_getattr(polaris_bexecute_t)
optional_policy('polaris_ncd_tmp_read(polaris_bexecute_t)
')

polaris_utility_domain_template(bconsole)

polaris_boot_tmp_read(polaris_bconsole_t)
polaris_btrace_data_manage(polaris_bconsole_t)
polaris_chasfs_read(polaris_bconsole_t)
polaris_cpld_read(polaris_bconsole_t)
polaris_proc_rmonbifo_read(polaris_bconsole_t)
polaris_rmonbifo_tmp_read(polaris_bconsole_t)
polaris_use_btrace_fifo(polaris_bconsole_t)
polaris_show_provision_temp_read(polaris_bconsole_t)
corecmd_exec_bin(polaris_bconsole_t)
polaris_bexecute_domtrans(polaris_bconsole_t)

allow polaris_bconsole_t self:process setrlimit;

# handling /var/run/agetty-iosd.pid
type polaris_bconsole_var_run_t;
files_pid_file(polaris_bconsole_var_run_t)
manage_files_pattern(polaris_bconsole_var_run_t, polaris_bconsole_var_run_t, polaris_bconsole_var_run_t)
files_pid_filetrans(polaris_bconsole_t, polaris_bconsole_var_run_t, file, "agetty-iosd.pid")

# access /dev/ttyS0
term_use_unallocated_ttys(polaris_bconsole_t)

auth_use_nsswitch(polaris_bconsole_t)

###########################################################################
# This block is policies for
# "request platform software console attach switch standby RO" CLI.
# It invokes usr/binos/conf/mcp_console_attach.sh, eventually invoking
# ioucon binary, to telnet to standby.

polaris_utility_domain_template(mcp_console_attach)
polaris_bexecute_domain(polaris_mcp_console_attach_t, polaris_mcp_console_attach_exec_t)
corecmd_exec_bin(polaris_mcp_console_attach_t)
polaris_bexecute_domtrans(polaris_mcp_console_attach_t)
allow polaris_mcp_console_attach_t self:process setpgid;
polaris_chasfs_read(polaris_mcp_console_attach_t)
telnet_use_ptys(polaris_mcp_console_attach_t)

# working with ioucon binary, invoked by usr/binos/conf/mcp_console_attach.sh
polaris_utility_domain_template(ioucon)
polaris_bexecute_domain(polaris_ioucon_t, polaris_ioucon_exec_t)

allow polaris_ioucon_t self:unix_dgram_socket create_socket_perms;
polaris_iosd_dgram_send(polaris_ioucon_t)
polaris_iosd_tmp_file_use(polaris_ioucon_t)
telnet_use_ptys(polaris_ioucon_t)

# "test platform hardware eobc ping" invokes eobc_ping.sh
# send sigchld when it is done
gen_require(
    type ping_t;
)
allow ping_t polaris_bexecute_t:process sigchld;
polaris_confd_domtrans(polaris_bexecute_t)

# app-hosting connect appid <> console/session
# Beluga/Meraki container
ifdef(`ms_platform',`
polaris_iox_container_domtrans(polaris_bexecute_t)
')

# Bottlenose/Meraki container
ifdef(`bottlenose_platform',`
polaris_iox_container_domtrans(polaris_bexecute_t)
')

# IOx downloads the application package using network protocol (e.g http)
gen_require(
    type fifo_var_run_t;
)
allow polaris_bexecute_t fifo_var_run_t:fifo_file read;

# on vxe platforms with MBRv2/MBRv4/GPTv1/GPTv3 partition layouts
polaris_getattr_disk_config(polaris_bexecute_t)

do

def polaris_utility_domain_template(ngio_module_session):
    polaris_bexecute_domain(polaris_ngio_module_session_t, polaris_ngio_module_session_exec_t)
    corecmd_exec_bin(polaris_ngio_module_session_t)
    polaris_bexecute_domtrans(polaris_ngio_module_session_t)
    term_use_unallocated_ttys(polaris_ngio_module_session_t)
    dev_read_sysfs(polaris_ngio_module_session_t)
    allow polaris_ngio_module_session_t self:process setsched;
    auth_map_passwd(polaris_ngio_module_session_t)
    polaris_chasfs_read(polaris_ngio_module_session_t)
    polaris_cpld_read(polaris_ngio_module_session_t)
    telnet_use_ptys(polaris_ngio_module_session_t)

    # work with /tmp files
    type polaris_ngio_module_session_tmp_t;
    files_tmp_file(polaris_ngio_module_session_tmp_t)
    manage_dirs_pattern(polaris_ngio_module_session_t, tmp_t, polaris_ngio_module_session_tmp_t)
    manage_files_pattern(polaris_ngio_module_session_t, polaris_ngio_module_session_tmp_t,
                         polaris_ngio_module_session_tmp_t)
    manage_fifo_files_pattern(polaris_ngio_module_session_t, polaris_ngio_module_session_tmp_t,
                              polaris_ngio_module_session_tmp_t)
    files_tmp_filetrans(polaris_ngio_module_session_t, polaris_ngio_module_session_tmp_t, { file dir })

    # CLI: show platform software tech-support
    # requires bshell execution
    # /bin/bash /usr/binos/conf/bshell.sh -S -P ---- __CMD__ ---- -f
    # /usr/binos/conf/mcp_tech_support_command_file.txt
    gen_require(
        type polaris_bshell_t;
        type polaris_bshell_exec_t;
    )
    domtrans_pattern(polaris_bexecute_t, polaris_bshell_exec_t, polaris_bshell_t)
    # scripts stdin is set by hman and needs write/append access to pipes like pipe:[80159]
    polaris_hman_use_fifo(polaris_bshell_t)
    # in case of ISR4k show tech input for bshell dynamically created
    polaris_tech_support_tmp_read(polaris_bshell_t)

    # CLI: show software authenticity running
    # this results in hman invoking below command:
    # /bin/sh /usr/binos/conf/bexec.sh -c "/usr/bin/code_sign_verify show3 abcd "
polaris_code_verify_domtrans(polaris_bexecute_t)

# stdin is inherited when bexecute calls fts_client
polaris_fts_client_tmp_manage(polaris_bexecute_t)

# disk space full issue
allow polaris_platform_shell_t self:capability sys_resource;

# CLI: request platform software sdwan admin-tech

# executes: /bin/sh vconfd_script_show_installerfs.sh
polaris_confd_unix_stream_stdio_use(polaris_bexecute_t)

# executes: bash bshell.sh -S -P ---- __CMD__ ---- -f /tmp/tdwan_tech_support_command_file_out.txt
polaris_confd_unix_stream_stdio_use(polaris_bshell_t)

# write to /tmp/out$_(date "+%Y%m%d%H%M%S\%N")" for base version verification on smu install
polaris_install_tmp_write(polaris_bexecute_t)

# Nutella-XE install image
#/bin/bash /usr/binos/conf/brelay.sh -E -f rp 0 16023 -c /usr/binos/conf/install_engine.sh --operation install_commit
--isremote
polaris_confd_tmp_use_fifo(polaris_bexecute_t)

#awk -v what=^.BuildPath: $pkginfo_file ~ what { print $2 } /tmp/sw/rp/0/0/rp_security/mount/.pkginfo
polaris_read_packages_conf(polaris_bexecute_t)

dev_read_rand(polaris_bexecute_t)

# /usr/bin/python3 /usr/binos/conf/issu_client_comp.py compare -b /usr/binos/conf/base_clients.txt -n
/bootflash/installer/current_clients.txt
polaris_disk_install_read(polaris_bexecute_t)

# allow "/usr/binos/conf/module_direct.py" (bexecute_t) to execute
# "/usr/sbin/ethtool" (ifconfig_exec_t) when invoking CLI
# "show platform1 hardware subslot <slot/card> backplane statistics"
sysnet_domtrans_ifconfig(polaris_bexecute_t)

# Write into pipe created by stack mgr
# Parent Child Relation - stack_mgr -> mcp_trace_request -> brelay (to relay output to active)
optional_policy(
    polaris_use_stack mgr_fifo(polaris_bexecute_t)
)

polaris_etc_list(polaris_bexecute_t)

#manage /tmp/existing_rommon_info file
polaris_manage_rommon_info(polaris_capsule_upgrade_t)

Policies for "upgrade rom-monitor capsule primary switch 1 R0" CLI
#/usr/binos/conf/bexecute.sh -c /usr/binos/conf/cat9k-primary-capsule-upgrade.sh
#cat9k-primary-capsule-upgrade.sh have to run in its own domain

polaris_utility_domain_template(capsule Upgrade)
polaris_bootflash_manage(polaris_capsule_upgrade_t)

type polaris_capsule_upgrade_log_t;
polaris_pfile_type(polaris_capsule_upgrade_log_t)
polaris_capsule_upgrade_log_use(polaris_capsule_upgrade_t)
polaris_bexecute_domain(polaris_capsule_upgrade_t, polaris_capsule_upgrade_exec_t)
polaris_bexecute_domtrans(polaris_capsule_upgrade_t)
corecmd_exec_bin(polaris_capsule_upgrade_t)
auth_use_nsswitch(polaris_capsule_upgrade_t)
polaris_chasfs_manage(polaris_capsule_upgrade_t)
polaris_cpld_read(polaris_capsule_upgrade_t)
telnet_use_ptys(polaris_capsule_upgrade_t)

# For "/bin/sh /usr/binos/conf/mcp_chvrf.sh eobc
# /usr/binos/conf/bexecute.sh -c /usr/binos/conf/install_engine.sh
# --operation install_c",
# uses unix stream socket created by confd as standard I/O.
polaris_confd_unix_stream_stdio_use(polaris_chvrf_t)

################################################################################
# mcp_dmesg_service
################################################################################
polaris_utility_domain_template(mcp_dmesg)
polaris_bexecute_domain(polaris_mcp_dmesg_t, polaris_mcp_dmesg_exec_t)
polaris_bexecute_domtrans(polaris_mcp_dmesg_t)
dmesg_domtrans(polaris_mcp_dmesg_t)
corecmd_exec_bin(polaris_mcp_dmesg_t)
polaris_smand_use_fifo(polaris_mcp_dmesg_t)
auth_use_nsswitch(polaris_mcp_dmesg_t)
telnet_use_ptys(polaris_mcp_dmesg_t)

# allow creation/access of temporary files like /tmp/sh-thd-1608024622
type polaris_mcp_dmesg_tmp_t;
files_type(polaris_mcp_dmesg_tmp_t)
files_tmp_file(polaris_mcp_dmesg_tmp_t)
files_tmp_filetrans(polaris_mcp_dmesg_t, polaris_mcp_dmesg_tmp_t, file)
manage_files_pattern(polaris_mcp_dmesg_t, polaris_mcp_dmesg_tmp_t, polaris_mcp_dmesg_tmp_t)
fs_getattr_tmpfs(polaris_mcp_dmesg_t)

# allowing reload_fru.sh for doing systemctl list-jobs
systemd_config_generic_services(polaris_bexecute_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbexecute.te
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#
# July 2017, Victor Kamensky
#
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#
/

dev/quack -c gen_context(system_u:object_r:polaris_quack_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisquack.fc
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#
# March 2017, Victor Kamensky
#
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#

policy_module(polarisdbm, 1.0);

gen_require('type polaris_dbm_t;
')

******************************************************************************
# mqipc manual, one that missing in platform tdl file
******************************************************************************

ifdef('nyquist_platform',
    gen_require('type polaris_bt_logger_dbm_mqipc_t;
')
# dbm may start first and create this mqipc channel
polaris_mqipc_create_name(polaris_dbm_t, polaris_bt_logger_dbm_mqipc_t, bt_logger_dbm)
')
allow polaris_dbm_t self:capability { sys_resource };
allow polaris_dbm_t self:process setrlimit;

# dbm listen on 9090 port; in case of ultra only in tcp6
corenet_tcp_bind_websm_port(polaris_dbm_t)

polaris_dyncfg_tmp_read(polaris_dbm_t)

allow polaris_dbm_t self:capability dac_override;

# port 9090, is it exclusively wnc_mgrd port?
corenet_tcp_bind_polaris_wnc_mgrd_port(polaris_dbm_t)
allow polaris_dbm_t self:tcp_socket [shutdown];

# working dbm persistent files in /bootflash/.dbpersist
type polaris_disk_dbm_t;
polaris_disk_type(polaris_disk_dbm_t)

polaris_tdldbpersist_setup(polaris_dbm_t)

# dbm on active syncs with /bootflash/.dbpersist on standby
# related call dbm_persist_binary_cfg_sync_to_standby()
gen_require(
    type rsync_t;
)
rsync_entry_domtrans(polaris_dbm_t, rsync_t)

polaris_tmp_tdldb_persist_setup(polaris_dbm_t)

logging_send_syslog_msg(polaris_dbm_t)
corecmd_exec_bin(polaris_dbm_t)

corecmd_exec_shell(polaris_dbm_t)

# dbm needs access to "/flash1/user/installer/install_issu_state"
polaris_disk_install_read(polaris_dbm_t)

# runs over /usr/bin/rsync
corenent_tcp_connect_rsync_port(polaris_dbm_t)

# tar invocation in dbm code necessitates this permission
auth_map_passwd(polaris_dbm_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdbm.te
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#
# Sep 2020, Sridhar C
#
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#
/tmp/tlscd(/.*)? gen_context(system_u:object_r:polaris_tlscd_uds_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristlscd.fc
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#
# March 2017, Victor Kamensky
#
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#
/tmp/fp/lipc -d gen_context(system_u:object_r:polaris_lipc_t,s0)
/tmp/tp/lipc -d gen_context(system_u:object_r:polaris_lipc_t,s0)
/tmp/cc/lipc -d gen_context(system_u:object_r:polaris_lipc_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislipc.fc
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#
# April 2017, Victor Kamensky
#
# Copyright (c) 2017-2020 by Cisco Systems, Inc.
policy_module(polarisdmincsshd_fwd, 1.0);

gen_require(''
    type polaris_dmi_ncsshd_fwd_t;
')

polaris_btrace_data_manage(polaris_dmi_ncsshd_fwd_t)
polaris_chasfs_manage(polaris_dmi_ncsshd_fwd_t)
polaris_tdlresolve_read(polaris_dmi_ncsshd_fwd_t)
polaris_tddb_list_dirs(polaris_dmi_ncsshd_fwd_t)
polaris_cpld_read(polaris_dmi_ncsshd_fwd_t)
polaris_flashlib_read(polaris_dmi_ncsshd_fwd_t)

polaris_ripc_sman_ui_serv_connect(polaris_dmi_ncsshd_fwd_t)

allow polaris_dmi_ncsshd_fwd_t self:unix_stream_socket create_stream_socket_perms;

type polaris_dmi_ncsshd_log_t;
files_tmp_file(polaris_dmi_ncsshd_log_t)
manage_files_pattern(polaris_dmi_ncsshd_fwd_t, polaris_dmi_ncsshd_log_t)
manage_sock_files_pattern(polaris_dmi_ncsshd_fwd_t, polaris_dmi_ncsshd_log_t)
files_tmp_filetrans(polaris_dmi_ncsshd_fwd_t, polaris_dmi_ncsshd_log_t, { file sock_file })

logging_send_syslog_msg(polaris_dmi_ncsshd_fwd_t)

polaris_cpld_read(polaris_dmi_ncsshd_fwd_t)

# allow to execute execute_confd_cli.sh under confd domain
polaris_confd_domtrans(polaris_dmi_ncsshd_fwd_t)

# starts bexec.sh
polaris_bexecute_domtrans(polaris_dmi_ncsshd_fwd_t)
polaris_send_signal_to_bexecute(polaris_dmi_ncsshd_fwd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmincsshd_fwd.te

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#
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#
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#

# temp files created by cyan_init.sh
/tmp/cyan/cyan.log gen_context(system_u:object_r:polaris_dyncfg_log_t,s0)
/tmp/cyan/cyan_runtime.log gen_context(system_u:object_r:polaris_dyncfg_log_t,s0)
/tmp/cyan/(.*)? gen_context(system_u:object_r:polaris_dyncfg_tmp_t,s0)
/tmp/cyan\.lock gen_context(system_u:object_r:polaris_dyncfg_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscyan.fc
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#
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#

### <summary>Polaris bexecute Policy Rules.</summary>

########################################################################
### <summary>
### Execute bexecute in the polaris_bexecute domain.
### </summary>
### <param name="domain">
### Domain allowed to transition.
### </param>
#
# interface(`polaris_bexecute_domtrans`,
gen_require(`
type polaris_bexecute_t, polaris_bexecute_exec_t;
`)
corecmd_search_bin($1)
domtrans_pattern($1, polaris_bexecute_exec_t, polaris_bexecute_t)
`)

########################################################################
### <summary>
### Allow domain to be started by bexecute with
### transition into specific service domain.
### </summary>
### <param name="domain">

## <summary>
## Type to be used to run utility.
## </summary>

## <param name="entry_point">
## Type of the program to be used as an entry point to this domain.
## </param>

interface(`polaris_bexecute_domain',
  gen_require(`
    type polaris_bexecute_t;
  ')
)

domtrans_pattern(polaris_bexecute_t, $2, $1)
')

###############################
## <summary>
## Execute mcp_chvrf.sh in the polaris_chvrf domain.
## </summary>

## <param name="domain">
## Domain allowed to transition.
## </param>

#

interface(`polaris_chvrf_domtrans',
  gen_require(`
    type polaris_chvrf_t, polaris_chvrf_exec_t;
  ')
)
corecmd_search_bin($1)
domtrans_pattern($1, polaris_chvrf_exec_t, polaris_chvrf_t)
')

###############################
## <summary>
## Execute mcp_chvrf.sh in the caller domain.
## </summary>

## <param name="domain">
## Domain allowed access.
## </param>

#

interface(`polaris_exec_chvrf',

---
gen_require(
    type polaris_chvrf_exec_t;
)

corecmd_search_bin($1)
    can_exec($1, polaris_chvrf_exec_t)
)

########################################
## <summary>
## Execute ngio_module_session.sh in the polaris_ngio_module_session domain
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </param>
#
interface('polaris_ngio_module_session_domtrans',
    gen_require(
        type polaris_ngio_module_session_t, polaris_ngio_module_session_exec_t;
    )
)
corecmd_search_bin($1)
    domtrans_pattern($1, polaris_ngio_module_session_exec_t, polaris_ngio_module_session_t)
)

########################################
## <summary>
## Allow the specified domain to send signals to any polaris process.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_send_signal_to_bexecute',
    gen_require(
        type polaris_bexecute_t;
    )
)
    allow $1 polaris_bexecute_t:process signal_perms;
)

########################################
## <summary>
## Allow manage of polaris_bash_tmp_t.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_bash_tmp_manage',
    gen_require(''
        type user_home_dir_t;
        type polaris_bash_tmp_t;
    ')
)

manage_dirs_pattern($1, user_home_dir_t, polaris_bash_tmp_t)
manage_files_pattern($1, polaris_bash_tmp_t, polaris_bash_tmp_t)

########################################
## <summary>
## Execute bexecute in the polaris_bexecute domain.
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </param>
#
interface('polaris_bconsole_domtrans',
    gen_require(''
        type polaris_bconsole_t, polaris_bconsole_exec_t;
    ')
)
corecmd_search_bin($1)
domtrans_pattern($1, polaris_bconsole_exec_t, polaris_bconsole_t)

########################################
## <summary>
## Send messages to ioucon unix datagram sockets.
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
#
interface("polaris_ioucon_dgram_send",
    gen_require(
        type polaris_ioucon_t;
    )
)

    allow $1 polaris_ioucon_t:unix_dgram_socket sendto;
)

########################################
## <summary>
##     Execute cat9k-primary-capsule-upgrade.sh, cat9k-capsule-upgrade.sh in its own domain.
## </summary>
## <param name="domain">
##     <summary>
##     Domain allowed to transition.
##     </summary>
## </param>
#
interface("polaris_capsule_upgrade_domtrans",
    gen_require(
        type polaris_capsule_upgrade_t, polaris_capsule_upgrade_exec_t;
    )
)

    corecmd_search_bin($1)
    domtrans_pattern($1, polaris_capsule_upgrade_exec_t, polaris_capsule_upgrade_t)
)

########################################
## <summary>
##     Work(open,create,append,getattr) with /capsule-upgrade.log file
## </summary>
## <param name="domain">
##     <summary>
##     Domain allowed access.
##     </summary>
## </param>
#
interface("polaris_capsule_upgrade_log_use",
    gen_require(
        type polaris_disk_bootflash_t;
        type polaris_capsule_upgrade_log_t;
    )
)

    allow $1 polaris_capsule_upgrade_log_t:filesystem getattr;

    filetrans_pattern($1, polaris_disk_bootflash_t, polaris_capsule_upgrade_log_t, file, "capsule-upgrade.log")
    manage_files_pattern($1, polaris_capsule_upgrade_log_t, polaris_capsule_upgrade_log_t)
    create_files_pattern($1, polaris_capsule_upgrade_log_t, polaris_capsule_upgrade_log_t)
    getattr_files_pattern($1, polaris_capsule_upgrade_log_t, polaris_capsule_upgrade_log_t)


```c
append_files_pattern($1, polaris_capsule_upgrade_log_t, polaris_capsule_upgrade_log_t)
allow $1 polaris_capsule_upgrade_log_t; file map;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbexecute.if
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#
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#
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#

policy_module(polarisobfl, 1.0);

########################################################################
# Obfl policy
########################################################################

type polaris_obfl_data_t;
files_type(polaris_obfl_data_t)

gen_require(')
    type init_t;
    type default_t;
    type tmp_t;
    attribute domain;
')

filetrans_pattern(domain, default_t, polaris_obfl_data_t, lnk_file, "obfl")
# edison uses obfl0 name
filetrans_pattern(domain, default_t, polaris_obfl_data_t, lnk_file, "obfl0")
#/tmp/obfl
files_tmp_filetrans(domain, polaris_obfl_data_t, dir, "obfl")

# allow obfl data file reside on persistent storage
polaris_pfile_type(polaris_obfl_data_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisobfl.te
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#
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#
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```

policy_module(polarisbtlogger, 1.0);

gen_require('  
    type polaris_bt_logger_t;
')

polaris_btrace_data_manage(polaris_bt_logger_t)
polaris_crft_data_manage(polaris_bt_logger_t)
polaris_chasfs_manage(polaris_bt_logger_t)
polaris_tdlresolve_read(polaris_bt_logger_t)
polaris_tldldb_list_dirs(polaris_bt_logger_t)
polaris_cppld_read(polaris_bt_logger_t)
polaris_flashlib_read(polaris_bt_logger_t)

polaris_ripc_sman_ui_serv_connect(polaris_bt_logger_t)

polaris_db_tldldb_dir_use(polaris_bt_logger_t)

# mqipc manual, one that missing in platform tdl file
#*******************************************************************************
# mqipc manual, one that missing in platform tdl file
#*******************************************************************************

# mq.-bt_logger_dbm
type polaris_bt_logger_dbm_mqipc_t;
polaris_mqipc_type(polaris_bt_logger_dbm_mqipc_t)

# mq.-bt_logger_fman-rp
type polaris_bt_logger_fman_rp_mqipc_t;
polaris_mqipc_type(polaris_bt_logger_fman_rp_mqipc_t)

# mq.-bt_logger_iosd
type polaris_bt_logger_iosd_mqipc_t;
polaris_mqipc_type(polaris_bt_logger_iosd_mqipc_t)

# mq.-bt_logger_smd
type polaris_bt_logger_smd_mqipc_t;
polaris_mqipc_type(polaris_bt_logger_smd_mqipc_t)

polaris_mqipc_create_name(polaris_bt_logger_t, polaris_bt_logger_dbm_mqipc_t, bt_logger_dbm)
polaris_mqipc_create_name(polaris_bt_logger_t, polaris_bt_logger_fman_rp_mqipc_t, bt_logger_fman-rp)
polaris_mqipc_create_name(polaris_bt_logger_t, polaris_bt_logger_iosd_mqipc_t, bt_logger_iosd)
polaris_mqipc_create_name(polaris_bt_logger_t, polaris_bt_logger_smd_mqipc_t, bt_logger_smd)

allow polaris_bt_logger_t self:capability { dac_override };
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbtlogger.te
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#
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#
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#
## <summary>Polaris gnmib Policy Rules.</summary>

########################################
## <summary>
## Create rule for ndbutils file "..schema_use.gnmib" under /var/lock/ndbutil
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_gnmib_ndbutil_lock',
    gen_require(
        type polaris_confd_ndbutil_lock_t;
        type polaris_gnmib_ndbutil_t;
    )
)

filetrans_pattern($1, polaris_confd_ndbutil_lock_t, polaris_gnmib_ndbutil_t, file, $2)
manage_files_pattern($1, polaris_confd_ndbutil_lock_t, polaris_gnmib_ndbutil_t)

    allow $1 polaris_gnmib_ndbutil_t:file { watch watch_reads };
)

########################################
## <summary>
## Allow reading gnoi image files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_gnmib_gnoi_images_read',
    gen_require(
        type polaris_gnmib_gnoi_images_read_t;
    )
)
read_files_pattern($1, polaris_gnmib_gnoi_images_t, polaris_gnmib_gnoi_images_t)
mmap_files_pattern($1, polaris_gnmib_gnoi_images_t, polaris_gnmib_gnoi_images_t)

### <summary>
### Allow manage gnoi image files
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
# interface('polaris_gnmib_gnoi_images_manage',
    gen_require(
        type polaris_gnmib_gnoi_images_t;
    )

manage_files_pattern($1, polaris_gnmib_gnoi_images_t, polaris_gnmib_gnoi_images_t)
mmap_files_pattern($1, polaris_gnmib_gnoi_images_t, polaris_gnmib_gnoi_images_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgnmib.if
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#
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#
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#

policy_module(polaristdlldb, 1.0);

# Polaris tdlldb (infra/tdllib)
type polaris_tdlldb_t;
polaris_tdlldb_type(polaris_tdlldb_t)

attribute polaris_tdlldb;

# any process creating tdlldb in /tmp/rp/tdldb should transition into its domain
gen_require('
attribute domain;
')
files_tmp_filetrans(domain, polaris_tdldb_t, dir, "tdldb")

# DB_DIR database is not described in TDL
type polaris_dir_db_tdldb_t;
polaris_tdldb_type(polaris_dir_db_tdldb_t)

type polaris_tdldbPersist_t;
polaris_tdldb_type(polaris_tdldbPersist_t)

Found in path(s):
  */opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristdldb.te
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#

policy_module(polarislfts, 1.0);

############################################################################
# Polaris lfts
############################################################################
type polaris_lfts_device_t;
dev_node(polaris_lfts_device_t)

# "ip netns add foo" commands mounts "foo" under "/var/run/netns"
gen_require('  
    type ifconfig_t;
    type var_run_t;
')
allow ifconfig_t var_run_t:dir mounton;

# "ip netns exec 16 sysctl -w net.core.vrfid=16" commands mounts "16" to "/sys"
gen_require('  
    type ifconfig_t;
    type unlabeled_t;
')
allow ifconfig_t unlabeled_t:dir mounton;

Found in path(s):
  */opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislfts.te
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#
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#

/var/tmp/trace/nginx.log          gen_context(system_u:object_r:httpd_log_t, s0)
/var/tmp/trace/nginx_error.log   gen_context(system_u:object_r:httpd_log_t, s0)
/var/tmp/trace/nginx.pid         gen_context(system_u:object_r:httpd_log_t, s0)
/var/tmp/trace/nginx.lock.accept gen_context(system_u:object_r:httpd_log_t, s0)
/var/tmp/trace/nginx.lock.cookie_tbl gen_context(system_u:object_r:httpd_log_t, s0)
/var/tmp/trace/nginx.lock.login_count gen_context(system_u:object_r:httpd_log_t, s0)
/tmp/nginx_aaa          gen_context(system_u:object_r:polaris_nginx_tmp_t, s0)
/tmp/nginx_master       gen_context(system_u:object_r:polaris_nginx_tmp_t, s0)
/tmp/nginx_session      gen_context(system_u:object_r:polaris_nginx_tmp_t, s0)
/tmp/nginx_base        gen_context(system_u:object_r:polaris_nginx_tmp_t, s0)
/tmp/nginx_webui_tmp  -d    gen_context(system_u:object_r:polaris_nginx_tmp_t, s0)
/tmp/nginx -d    gen_context(system_u:object_r:polaris_nginx_tmp_t, s0)

# Polaris WebUI Aireos translator files
/usr/binos/conf/aireos_translate_helper.sh
gen_context(system_u:object_r:polaris_nginx_webui_aireos_translator_exec_t, s0)
/var/scripts/python/aireosConfigTranslator(*/)? --
gen_context(system_u:object_r:polaris_aires_translator_scripts_t,s0)

/var/scripts/webui_install.sh gen_context(system_u:object_r:polaris_nginx_webui_exec_t, s0)
/usr/binos/conf/webui_upgrade_helper.sh gen_context(system_u:object_r:polaris_nginx_webui_install_exec_t, s0)
/usr/binos/conf/webui_smu_helper.sh     gen_context(system_u:object_r:polaris_nginx_webui_install_exec_t, s0)
/usr/binos/conf/ra_trace_webui_helper.sh
gen_context(system_u:object_r:polaris_nginx_webui_trace_filter_exec_t, s0)
/usr/binos/conf/nginx-conf        gen_context(system_u:object_r:httpd_config_t, s0)
/usr/binos/conf/nginx-conf/servers gen_context(system_u:object_r:httpd_config_t, s0)

/tmph/fts_client      gen_context(system_u:object_r:polaris_nginx_webui_trace_filter_exec_t, s0)
/usr/binos/conf/nginx_helper.sh     gen_context(system_u:object_r:httpd_config_t, s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnginx.fc
No license file was found, but licenses were detected in source scan.

# May 2017, Victor Kamensky
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
policy_module(polarismdtpubd, 1.0);

gen_require(
    type polaris_mdt_pubd_t;
')

polaris_btrace_data_manage(polaris_mdt_pubd_t)
polaris_chasfs_manage(polaris_mdt_pubd_t)
polaris_tdlresolve_read(polaris_mdt_pubd_t)
polaris_tdlldb_list_dirs(polaris_mdt_pubd_t)
polaris_cpld_read(polaris_mdt_pubd_t)
polaris_lua_read(polaris_mdt_pubd_t)
polaris_flashlib_read(polaris_mdt_pubd_t)
polaris_ripc_sman_ui_serv_connect(polaris_mdt_pubd_t)
polaris_db_tdlldb_dir_use(polaris_mdt_pubd_t)

# For initializing capabilities DB cfg file
polaris_libeiutil_build_config_directory(polaris_mdt_pubd_t)
polaris_cfg_data_manage(polaris_mdt_pubd_t)

optional_policy(
    # deals with /dev/shm/confd setup (schema and pid)
polaris_confd shm_setup(polaris_mdt_pubd_t)
    # and allow read shared schema
polaris_confd_shared_schema_read(polaris_mdt_pubd_t)
    # read /proc/confd_pid/exe file
polaris_confd_read(polaris_mdt_pubd_t)
')

# pubd could be configured to connect any port on DNAC
# please see cndp_setup_tcp_socket function
polaris_lfts_dev_use(polaris_mdt_pubd_t)
corenets Tcp_connect_all_ports(polaris_mdt_pubd_t)
polaris_ndbload_lock_use(polaris_mdt_pubd_t)
corenets Tcp_connect_polaris_pttcd_port(polaris_mdt_pubd_t)
corenets Tcp_bind_polaris_netconf_interceptor_port(polaris_mdt_pubd_t)
corenets Tcp_bind_all_unreserved_ports(polaris_mdt_pubd_t)

allow polaris_mdt_pubd_t self:capability { dac_override dac_read_search };
# create ndbutil directory under /var/lock
polaris_confnd_ndbutil_create(polaris_mdt_pubd_t)

polaris_ndbutil_lock_template(polaris_mdt_pubd_t, pubd, ",.l.schema_use.pubd")

# grpc library through sysconf accesses /sys/devices/system/cpu
# to get number of CPUs
dev_read_sysfs(polaris_mdt_pubd_t)

# handling /tmp/rp/.telemetry and /tmp/rp/telemetry
type polaris_mdt_pubd_tmp_t;
files_tmp_file(polaris_mdt_pubd_tmp_t)
files_tmp_filetrans(polaris_mdt_pubd_tmp_t, polaris_mdt_pubd_tmp_t, dir, ",.telemetry")
gen_require(
    type tmp_t;
)
manage_dirs_pattern(polaris_mdt_pubd_t, { tmp_t polaris_mdt_pubd_tmp_t }, polaris_mdt_pubd_tmp_t)
manage_files_pattern(polaris_mdt_pubd_t, polaris_mdt_pubd_tmp_t, polaris_mdt_pubd_tmp_t, polaris_mdt_pubd_tmp_t)

# from evconfd_dynamic_load
polaris_confnd_shared_schema_watch(polaris_mdt_pubd_t)

# allow grpc library to shutdown socket
allow polaris_mdt_pubd_t self:tcp_socket create_socket_perms;

# allow pubd to access logging facility
logging_send_syslog_msg(polaris_mdt_pubd_t)

# enabling access to /etc/netns and /etc/hosts
polaris_namespace_set_netns_with_etc(polaris_mdt_pubd_t)
gen_require(
    type net_conf_t;
)
files_etc_filetrans(polaris_mdt_pubd_t, net_conf_t, file, "hosts")
files_etc_filetrans(polaris_mdt_pubd_t, net_conf_t, file, "resolv.conf")
files_etc_filetrans(polaris_mdt_pubd_t, net_conf_t, dir, "netns")

# allow pubd to create, modify, delete system network config files/dir
sysnet_manage_config(polaris_mdt_pubd_t)
sysnet_manage_config_dirs(polaris_mdt_pubd_t)

# allow pubd to connect socket
allow polaris_mdt_pubd_t self:udp_socket connect;

# allow pubd (object net_conf_t) to watch /etc/netns/1/resolv.conf
allow polaris_mdt_pubd_t net_conf_t:{file dir} watch;
# read access to /dev/random
dev_read_rand(polaris_mdt_pubd_t)

# DB persistence
polaris_tldlpersist_setup(polaris_mdt_pubd_t)
polaris_tmp_tlddb_persist_setup(polaris_mdt_pubd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismdtpubd.te
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#
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#

# polarisstackmgr file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisstackmgr.fc
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dnl
dnl Mar 2020, Manu Roy
dnl
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dnl
dnl Hellcat Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 0)
max_bay_map_set(`fp', `per_bay', 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/hellcatmaps.m4
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

policy_module(polarisperiodic, 1.0);
gen_require(
    type polaris_periodic_t;
')

corecmd_exec_bin(polaris_periodic_t)
corecmd_exec_shell(polaris_periodic_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_periodic_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_periodic_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_periodic_t)

# read /etc/init.d/common-utility-functions
init_read_script_files(polaris_periodic_t)

fs_getattr_all_fs(polaris_periodic_t)

# work with /tmp files
    type polaris_periodic_tmp_t;
    files_tmp_file(polaris_periodic_tmp_t)
    manage_files_pattern(polaris_periodic_t, tmp_t, polaris_periodic_tmp_t)
    files_tmp_filetrans(polaris_periodic_t, polaris_periodic_tmp_t, file)
    allow polaris_periodic_t self:capability sys_resource;

    polaris_btrace_data_manage(polaris_periodic_t)
polars_chasfs_manage(polaris_periodic_t)
polars_cpld_read(polaris_periodic_t)
polars_proc_rmonbifo_read(polaris_periodic_t)
polars_rmonbifo_tmp_read(polaris_periodic_t)
polars_boot_tmp_read(polaris_periodic_t)
polars_read_debug_conf(polaris_periodic_t)
polars_persistent_manage(polaris_periodic_t)

# reads /tmp/issu_proc
polars_install_tmp_read(polaris_periodic_t)

optional_policy(
    polaris_ncd_tmp_read(polaris_periodic_t)
')

# "install add file" CLI triggers logger sending syslog messages
logging_send_syslog_msg(polaris_periodic_t)

# "install add file" CLI triggers logger executing "pidof linux_iosd-image" which
# read "/sys/devices/system/cpu/online"
dev_read_sysfs(polaris_periodic_t)
#
#/usr/binos/conf/cleanup.sh do_cleanup does packages and other umount calls
mount_domtrans(polaris_periodic_t)
polaris_sw_data_manage(polaris_periodic_t)

# determine if the installer is executing
domain_read_all_domains_state(polaris_periodic_t)

# access to /cdrom0/ when *ova image is booted during
# first instance of vwlc on ucs server
polaris_removable_read(polaris_periodic_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisperiodic.te
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#
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#
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#
/tmp/pm_post_result -- gen_context(system_u:object_r:polaris_ngwc_plfm_mgr_tmp_t,s0)
/tmp/microcode_update(/.*)? gen_context(system_u:object_r:polaris_ngwc_plfm_mgr_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwcplfmmgr.fc
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#
# February 2020, Victor Kamensky
#
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#

policy_module(polarisfpm, 1.0);

gen_require(
    type polaris_fpm_t;
')
polaris_chasfs_manage(polaris_fpm_t)
polaris_cpld_read(polaris_fpm_t)
polaris_flashlib_read(polaris_fpm_t)
polaris_tdlresolve_read(polaris_fpm_t)
polaris_ripc_sman_ui_serv_connect(polaris_fpm_t)

polaris_db_tdldb_dir_use(polaris_fpm_t)

logging_send_syslog_msg(polaris_fpm_t)

# vconfd_load_shared_schemas
polaris_conf_confed_schema_conf_read(polaris_fpm_t)

# /var/run/fpmd socket and pid
type polaris_fpm_var_run_t;
files_pid_file(polaris_fpm_var_run_t)
manage_files_pattern(polaris_fpm_t, polaris_fpm_var_run_t, polaris_fpm_var_run_t)
manage_sock_files_pattern(polaris_fpm_t, polaris_fpm_var_run_t, polaris_fpm_var_run_t)
files_pid_filetrans(polaris_fpm_t, polaris_fpm_var_run_t, { file sock_file })

polaris_ttm_var_sock_write(polaris_fpm_t)

# fp_scaling_init callsposix_sysconf
dev_read_sysfs(polaris_fpm_t)

# PLEASE LOOK AT ME: write access to /boot/hugepage.conf
# which on ultra translates into /varied/hugepage.conf access
# But no code in polaris uses it
polaris_disk_varied_manage(polaris_fpm_t)
files_manage_boot_files(polaris_fpm_t)

polaris_cedge_tmpfs_manage(polaris_fpm_t)

polaris_fmrp2fpm_mqipc_use(polaris_fpm_t)

# manually create mqipc channel: missing in TDL
type polaris_fpm2fmrp_mqipc_t;
polaris_mqipc_type(polaris_fpm2fmrp_mqipc_t)
polaris_mqipc_create_name(polaris_fpm_t, polaris_fpm2fmrp_mqipc_t, fpm2fmrp_vulcan_mqipc)

# fp_scaling_read_core_count accesses cgroups file at
# /sys/fs/cgroup/cpuset/iosxe_control_processes/cpuset.cpus
fs_read_cgroup_files(polaris_fpm_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfpm.te
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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl
divert(-1)

include(`polaris_process.m4')
include(`polaris_process_te.m4')

include(`polaris_ipc_mqipc.m4')
include(`polaris_ipc_mqipc_te.m4')

include(`polaris_ipc_ripc.m4')
include(`polaris_ipc_ripc_te.m4')

include(`polaris_ipc_lipc.m4')
include(`polaris_ipc_lipc_te.m4')

dnl Stub out non existent one
define(`polaris_websocket_service_server',"")
define(`polaris_cipc_service_server',"")

include(`polaris_max_scope.m4')

divert(0)dnl
#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#
policy_module(polarisplatformipcauto, 1.0);

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_te.m4
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#
# March 2017, Victor Kamensky
#
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#
### <summary>Polaris polarisbhytoolsd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbhytoolsd.if
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#
# March 2017, Victor Kamensky
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#

/tmp/tdlresolve_tmp(/.*)?  gen_context(system_u:object_r:polaris_tdlresolve_t,s0)
/tmp/tdlresolve(/.*)?  gen_context(system_u:object_r:polaris_tdlresolve_t,s0)
/usr/binos/conf/global.service.conf  --  gen_context(system_u:object_r:polaris_global_service_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdlresolve.fc
No license file was found, but licenses were detected in source scan.

#
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#
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#

### <summary>Polaris ttm Policy Rules.</summary>

###############################
### <summary>
###      Write ttm /var/run socket file
### </summary>
### <param name="domain">
###      <summary>
###      Domain allowed access.
###      </summary>
### </summary>
#
# interface('polaris_ttm_var_sock_write',
# gen_require('  type polaris_ttm_t;
# type polaris_ttm_var_run_t;
# type var_run_t;
#
#')
wrie_sock_files_pattern($1, var_run_t, polaris_ttm_var_run_t)
# allow $1 polaris_ttm_t:unix_stream_socket { connectto };
#

')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristtm.if
No license file was found, but licenses were detected in source scan.

#
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#
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#

### <summary>Polaris CYAN Policy Rules.</summary>

### <summary>
## Execute dyncfg in the dyncfg domain.
## </summary>
### <param name="domain">
## Domain allowed to transition.
## </param>
#
interface(`polaris_dyncfg_domtrans',
gen_require(`
type polaris_dyncfg_t, polaris_dyncfg_exec_t;
')
corecmd_search_bin($1)
domtrans_pattern($1, polaris_dyncfg_exec_t, polaris_dyncfg_t)
')

### <summary>
## Make the specified domain able to read tmp file created by
cyansh like /tmp/cyan/mono.cdb
## </summary>
### <param name="type">
## Domain allowed access.
## </param>
#
interface(`polaris_dyncfg_tmp_read',
gen_require(`
type polaris_dyncfg_tmp_t;
type tmp_t;
')
read_files_pattern($1, { tmp_t polaris_dyncfg_tmp_t }, polaris_dyncfg_tmp_t)
read_lnk_files_pattern($1, { tmp_t polaris_dyncfg_tmp_t }, polaris_dyncfg_tmp_t)
allow $1 polaris_dyncfg_tmp_t:file map;
# need by shell that is called from luajit script
auth_read_passwd($1)
')

########################################
## <summary>
## Make the specified domain able to manage tmp file created by
cyan_init.sh like /tmp/cyan.lock
## </summary>
## <param name="type">
## Domain allowed access.
## </param>
#
interface(`polaris_dyncfg_tmp_manage',`
    gen_require(`
        type polaris_dyncfg_tmp_t;
        type tmp_t;
    `)

    manage_files_pattern($1, { tmp_t polaris_dyncfg_tmp_t }, polaris_dyncfg_tmp_t)
    manage_lnk_files_pattern($1, { tmp_t polaris_dyncfg_tmp_t }, polaris_dyncfg_tmp_t)
    allow $1 polaris_dyncfg_tmp_t:file map;
')

########################################
## <summary>
## Execute /tmp/dyncfg/N intialization within given domain.
## Effectively one need this if it needs to run dyncfg_db_run_init_script,
dyncfg_db_init functions within domain context.
## Note it involves lua execution that leads to execmem. Also lua script
## may execve shell and some other simple bin processes like mkdir or ln.
## </summary>
## <param name="type">
## Domain allowed access.
## </param>
#
interface(`polaris_dyncfg_setup',`
    gen_require(`
        type polaris_dyncfg_tmp_t;
        type tmp_t;
    `)
files_tmp_filetrans($1, polaris_dyncfg_tmp_t, dir, "cyan")
manage_dirs_pattern($1, polaris_dyncfg_tmp_t, polaris_dyncfg_tmp_t)
manage_files_pattern($1, { tmp_t polaris_dyncfg_tmp_t }, polaris_dyncfg_tmp_t)
manage_lnk_files_pattern($1, { tmp_t polaris_dyncfg_tmp_t }, polaris_dyncfg_tmp_t)
allow $1 polaris_dyncfg_tmp_t:file map;

# dyncfg_setup calls luajit and luajit needs execute JIT generated code
allow $1 self:process execmem;

# LOOK AT ME lua initialization code still uses system function call do some
# trivial things like mkdir. But because of that we need to grant shell and
# bin access to all callers of
corecmd_exec_shell($1)
corecmd_exec_bin($1)

# In chassis_attr.lua method THIS.WIRELESS checks whether wireless package is installed
# by opening (why open, not stat) wncmgrd binary.
optional_policy(
    gen_require(
        type polaris_wncmgrd_exec_t;
        type bin_t;
    )
    read_files_pattern($1, bin_t, polaris_wncmgrd_exec_t)
)

# lua code reads /tmp/sw/boot/rmonbifo/boardtype
polaris_rmonbifo_tmp_read($1)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscyan.if
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#
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#
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#
policy_module(polariscppcp, 1.0);

gen_require(
    type polaris_cpp_cp_t;
')
polaris_btrace_data_manage(polaris_cpp_cp_t)
polaris_crft_data_manage(polaris_cpp_cp_t)
polaris_chasfs_manage(polaris_cpp_cp_t)
polaris_tdlresolve_read(polaris_cpp_cp_t)
polaris_tdlldb_list_dirs(polaris_cpp_cp_t)
polaris_cpld_read(polaris_cpp_cp_t)
polaris_flashlib_read(polaris_cpp_cp_t)

polaris_ripc_sman_ui_serv_connect(polaris_cpp_cp_t)

polaris_db_tdlldb_dir_use(polaris_cpp_cp_t)

polaris_cpp_process(polaris_cpp_cp_t)
polaris_cpp_dev_use(polaris_cpp_cp_t)

polaris_icc_broken_relocations(polaris_cpp_cp_t)

logging_send_syslog_msg(polaris_cpp_cp_t)

polaris_cpp_cavium_sdk_ipc_use(polaris_cpp_cp_t)

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCvh58515)
ifdef(`crankshaft_family,'
  polaris_dev_mem_use(polaris_cpp_cp_t)
')

# cpp_palci_wallclock_time_ticks function reads /var/lock/subsys/sntp.offset
files_read_all_locks(polaris_cpp_cp_t)

# allow objstore access
polaris_disk_objstore_read(polaris_cpp_cp_t)

optional_policy(
  polaris_spa_dev_use(polaris_cpp_cp_t)
')

# handle geodb file access
polaris_geodb_files_manage(polaris_cpp_cp_t)

optional_policy(
  polaris_cbdma_dev_use(polaris_cpp_cp_t)
')

polaris_hkp_dev_use(polaris_cpp_cp_t)
# Access /dev/astro
polaris_astro_dev_use(polaris_cpp_cp_t)
polaris_vega_dev_use(polaris_cpp_cp_t)
')
polaris_cpp_tmpfs_manage(polaris_cpp_cp_t)
polaris_cpld_dev_use(polaris_cpp_cp_t)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppcp.te
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
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#

policy_module(polariscppstats, 1.0);

gen_require(
    type polaris_cpp_stats_t;
)

polaris_btrace_data_manage(polaris_cpp_stats_t)
polaris_crft_data_manage(polaris_cpp_stats_t)
polaris_chasfs_manage(polaris_cpp_stats_t)
polaris_tdlresolve_read(polaris_cpp_stats_t)
polaris_tldldb_list_dirs(polaris_cpp_stats_t)
polaris_cpld_read(polaris_cpp_stats_t)
polaris_flashlib_read(polaris_cpp_stats_t)
polaris_ripc_sman_ui_serv_connect(polaris_cpp_stats_t)
polaris_cpp_tmp_files_use(polaris_cpp_stats_t)
# works with /dev/cpp_dev_info, /dev/cpp and /dev/cpp_kipc
polaris_cpp_dev_use(polaris_cpp_stats_t)
polaris_cpp_tmpfs_ifdev_rw(polaris_cpp_stats_t)
polaris_icc_broken_relocations(polaris_cpp_stats_t)

# get attributes of /dev/shm from glibc where_is_shmfs function
fs_getattr_tmpfs(polaris_cpp_stats_t)

optional_policy(
    polaris_cbdma_dev_use(polaris_cpp_stats_t)
)

polaris_cpp_tmpfs_manage(polaris_cpp_stats_t)
polaris_cpld_dev_use(polaris_cpp_stats_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppstats.te
No license file was found, but licenses were detected in source scan.
policy_module(polarislm, 1.0);

gen_require(
    type polaris_lm_t;
')

polaris_btrace_data_manage(polaris_lm_t)
polaris_crft_data_manage(polaris_lm_t)
polaris_chasfs_manage(polaris_lm_t)
polaris_tdlresolve_read(polaris_lm_t)
polaris_tdlldb_list_dirs(polaris_lm_t)
polaris_cpld_read(polaris_lm_t)
polaris_flashlib_read(polaris_lm_t)

polaris_ripc_sman_ui_serv_connect(polaris_lm_t)

allow polaris_lm_t self:capability { dac_override }; # allow to read /proc/mtd
kernel_read_system_state(polaris_lm_t)

# work with /tmp files (/tmp/iosd_level)
type polaris_lm_tmp_t;
files_tmp_file(polaris_lm_tmp_t)
files_tmp_filetrans(polaris_lm_t, polaris_lm_tmp_t, file, "iosd_level")
files_tmp_filetrans(polaris_lm_t, polaris_lm_tmp_t, file, "stack_apcount")
manage_files_pattern(polaris_lm_t, tmp_t, polaris_lm_tmp_t)

polaris_dyncfg_tmp_read(polaris_lm_t)
polaris_disk_license_manage(polaris_lm_t)
polaris_disk_csl_manage(polaris_lm_t)
logging_send_syslog_msg(polaris_lm_t)
polaris_lua_read(polaris_lm_t)

# permission to access /tmp/rp/lipc/lmanrtu_stackrtu_socket
# polaris_lm_t policy
allow polaris_lm_t self:unix_stream_socket connectto;
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislm.te
No license file was found, but licenses were detected in source scan.

#
# August 2017, Victor Kamensky
#
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# All rights reserved
#
/usr/binos/conf/flash_check.sh -- gen_context(system_u:object_r:polaris_flashcheck_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisflashcheck.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

policy_module(polarislipc, 1.0);

########################################################################
# LIPC policy
########################################################################
gen_require(
    type polaris_pvp_t;
    attribute polaris_extended_domain;
')

type polaris_lipc_t;
files_type(polaris_lipc_t)

files_tmp_filetrans(polaris_extended_domain, polaris_lipc_t, dir, "lipc")
init_script_tmp_filetrans(polaris_extended_domain, polaris_lipc_t, dir, "lipc")

# in some cases pvp.sh creates lipc tmp directory it needs permisions for that
manage_dirs_pattern(polaris_pvp_t, tmp_t, polaris_lipc_t)

gen_require(
    attribute polaris_extended_domain;
    type polaris_pvp_tmp_t;
')
filetrans_pattern(polaris_extended_domain, polaris_pvp_tmp_t, polaris_lipc_t, dir, "lipc")

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislipc.te
No license file was found, but licenses were detected in source scan.

#  
# September 2018, Anubha Balani 
#  
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# All rights reserved 
#  
### <summary>Polaris Memory Service Policy Rules.</summary>

******************************************************************************
# Polaris memory: libmaroon and such
******************************************************************************

******************************************************************************
### <summary>
### Allow the specified domain to check existence of 
### /lib/systemd/system/ksm.service file. Effectivly checking
### whether KSM kernel feature is enabled on device or not.
### </summary>
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
interface(`polaris_ksm_run_check`,
    gen_require(
        type systemd_unit_file_t;
    
    getattr_files_pattern($1, systemd_unit_file_t, systemd_unit_file_t)
    )

******************************************************************************
### <summary>
### Manage temporary maroon files
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
## <rolebase/>
#
interface('polaris_maroon_data_manage_all',

```
gen_require(
    attribute polaris_maroon_data_domain;
    type polaris_maroon_base_t;
')
```

manage_files_pattern($1, polaris_maroon_base_t, polaris_maroon_data_domain)
allow $1 polaris_maroon_data_domain:file map;

# manage temporary files in maroon_stats directory
manage_files_pattern($1, polaris_maroon_base_t, polaris_maroon_base_t)
')

# Make the specified type usable as maroon data file type.
## <summary>
##      Process to manage its own maroon files
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
## <param name="file_type">
##      File type of maroon that corresponds to given domain.
## </param>
```
interface(`polaris_maroon_data_client',`
  gen_require(`
  type polaris_maroon_base_t;
  `)
  manage_files_pattern($1, polaris_maroon_base_t, $2)
  allow $1 $2:file map;
  filetrans_pattern($1, polaris_maroon_base_t, $2, file)
  `)

## <summary>
##      Process to manage its own maroon files
## </summary>
## <param name="domain_stem">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface(`polaris_maroon_data_client_template',`
  gen_require(`
  type polaris_$1_maroon_t;
  polaris_maroon_data_type(polaris_$1_maroon_t)
  polaris_maroon_data_client(polaris_$1_t, polaris_$1_maroon_t)
  `)

type polaris_$1_maroon_t;
  polaris_maroon_data_type(polaris_$1_maroon_t)
  polaris_maroon_data_client(polaris_$1_t, polaris_$1_maroon_t)
  `)

## <summary>
##      Getattr of polaris_zram_device_t files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface(`polaris_zram_getattr',`
  gen_require(`
  type device_t;
  `)
type polaris_zram_device_t;

)               getattr_blk_files_pattern($1, device_t, polaris_zram_device_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismemory.if
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky
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#

/bootflash/dbpersist(/.*)? gen_context(system_u:object_r:polaris_disk_dbm_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdbm.fc
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# # March 2017, Victor Kamensky
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#

policy_module(polarisreflector, 1.0);

polaris_process_domain_template(reflector)

corecmd_exec_bin(polaris_reflector_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_reflector_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_reflector_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_reflector_t)

# read /etc/hosts file
sysnet_read_config(polaris_reflector_t)

# work with /tmp files
type polaris_reflector_tmp_t;
files_tmp_file(polaris_reflector_tmp_t)
manage_dirs_pattern(polaris_reflector_t, tmp_t, polaris_reflector_tmp_t)
manage_files_pattern(polaris_reflector_t, polaris_reflector_tmp_t, polaris_reflector_tmp_t)
manage_fifo_files_pattern(polaris_reflector_t, polaris_reflector_tmp_t, polaris_reflector_tmp_t)
files_tmp_filetrans(polaris_reflector_t, polaris_reflector_tmp_t, { file dir })

# reflector can work with droputil tmp files
polaris_droputil_manage_tmp_files(polaris_reflector_t)

#rsync_exec(polaris_reflector_t)
gen_require('type rsync_t;
')
rsync_entry_domtrans(polaris_reflector_t, rsync_t)
allow rsync_t polaris_reflector_t:process sigchld;
# upon exec rsync inherits reflector.sh stdout/stderr which are
# polaris_reflector_t fifo_files
allow rsync_t polaris_reflector_t:fifo_file write;

allow polaris_reflector_t self:capability { sys_resource dac_override };
allow polaris_reflector_t self:process setpgid;

polaris_btrace_data_manage(polaris_reflector_t)
polaris_cpld_read(polaris_reflector_t)
polaris_chasfs_manage(polaris_reflector_t)
polaris_boot_tmp_read(polaris_reflector_t)
polaris_read_debug_conf(polaris_reflector_t)
polaris_disk_crashinfo_getattr(polaris_reflector_t)
polaris_rmonbifo_tmp_read(polaris_reflector_t)

# watch over /tmp/rp/dropbox
polaris_droputil_tmp_watch(polaris_reflector_t)

# Allow /tmp/ufs/bootflash & /tmp/ufs/harddisk read access
optional_policy('polaris_ncd_tmp_read(polaris_reflector_t)
')

# 'rm -rf /tmp/rp/reflector'
fs_getattr_tmpfs(polaris_reflector_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisreflector.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
政策模块(polarispman, 1.0);

polaris_process_domain_template(pman)

# 推测所有权限授予在此处的新 pman
# - 我们是克隆此域到 pmanc，还是替换它？

gen_require(''
    type polaris_psvp_t;
    type polaris_pvp_t;
')

corecmd_exec_bin(polaris_pman_t)
corecmd_exec_shell(polaris_pman_t)
# 可以在 polaris 域执行进程
polaris_exec(polaris_pman_t)

# LOOK AT ME start-stop-daemon 从 busy box 迭代所有
# /proc/<pid> 目录并读取 /proc/<pid>/cmdline
# /proc/<pid>/exe。也就是说，它需要相当大的特权
domain_read_all_domains_state(polaris_pman_t)

# pman 想要写到 /proc/<pid>/oom_adj 的每个进程
# 它启动。现在 oom_adj 是所有拥有它的进程的标签
# 所以现在 pman 可以写入任何文件
# 在 polaris_domain。后面尝试通过将 oom_adj 迁移到单独的域来清理它？

gen_require(''
    attribute polaris_domain;
')
manage_files_pattern(polaris_pman_t, polaris_domain, polaris_domain)

# 允许读取 /proc/meminfo
kernel_read_system_state(polaris_pman_t)

# 允许读取 /etc/passwd
auth_use_nsswitch(polaris_pman_t)

# 运行 ldd，其中在执行 "ld.so --verify"
libs_exec_ld_so(polaris_pman_t)

# 读取 /proc/sys/vm/nr_hugepages
kernel_read_vm_sysctls(polaris_pman_t)
# read/write cgroups files
fs_rw_cgroup_files(polaris_pman_t)

dmidencode_domtrans(polaris_pman_t)

allow polaris_pman_t self:capability { sys_nice sys_resource dac_overide sys_rawio sys_admin };

polaris_brtrace_data_manage(polaris_pman_t)
polaris_chasfs_manage(polaris_pman_t)
polaris_cpld_read(polaris_pman_t)
ifdef(`ngwc_family',`
polaris_cpld_write(polaris_pman_t)
')
polaris_proc_rmonbifo_read(polaris_pman_t)
polaris_rmonbifo_tmp_read(polaris_pman_t)
polaris_boot_tmp_read(polaris_pman_t)
polaris_read_debug_conf(polaris_pman_t)
polaris_disk_crashinfo_getattr(polaris_pman_t)

# work with /tmp files
type polaris_pman_tmp_t;
files_tmp_file(polaris_pman_tmp_t)
manage_dirs_pattern(polaris_pman_t, tmp_t, polaris_pman_tmp_t)
manage_files_pattern(polaris_pman_t, polaris_pman_tmp_t, polaris_pman_tmp_t)
manage_fifo_files_pattern(polaris_pman_t, polaris_pman_tmp_t, polaris_pman_tmp_t)
files_tmp_filetrans(polaris_pman_t, polaris_pman_tmp_t, { file dir })
filetrans_pattern(domain, tmp_t, polaris_pman_tmp_t, dir, "process")
filetrans_pattern(domain, tmp_t, polaris_pman_tmp_t, dir, "pman_ports")

# pcohort reads files in /tmp/rp/process directory
gen_require(`
    attribute polaris_extended_domain;
')
read_files_pattern(polaris_extended_domain, polaris_pman_tmp_t, polaris_pman_tmp_t)
list_dirs_pattern(polaris_extended_domain, polaris_pman_tmp_t, polaris_pman_tmp_t)

# bash needs setpgid in its make_child function
allow polaris_pman_t self:process { setpgid };

# pmanlite uses getsid
allow polaris_pman_t self:process { getsession };

# pman call renice utility to change process nice level
allow polaris_pman_t self:process { setsched };

# pman needs to work with pvp tmp files
polaris_pvp_manage_tmp_files(polaris_pman_t)
on ultra pman waits for /tmp/cpp_ifdev_rep pipes appearence before proceeding further before it starts iosd

optional_policy(
    polaris_cpp_tmp_ifdev_getattr(polaris_pman_t)
)

/tmp/vxe_ucode_image created by some systemd units and accessed by pman, lets transition it into polaris_pman_tmp_t domain

gen_require(
    type initrc_t;
    type init_t;
)

files_tmp_filetrans({ initrc_t init_t }, polaris_pman_tmp_t, file, "vxe_ucode_image")
files_tmp_filetrans({ initrc_t init_t }, polaris_pman_tmp_t, file, "wlc_ucode_image")
files_tmp_filetrans({ initrc_t init_t }, polaris_pman_tmp_t, file, "utah_ucode_image")
files_tmp_filetrans({ initrc_t init_t }, polaris_pman_tmp_t, file, "fugazi_ucode_image")

# pman needs to manage cgroups membership of differnt processes
# See move_to_cgroup pman function. It needs setsched permission
domain_setpriority_all_domains(polaris_pman_t)

# pman.sh can call logger command
logging_send_syslog_msg(polaris_pman_t)

# pman can receive signals from any polaris domain process
polaris_receive_signal_from_domain(polaris_pman_t)

# pman.sh calls pidof command (similar to ps)
# pidof needs access to /sys/devices/system/cpu/online
dev_read_sysfs(polaris_pman_t)
# pidof commands wants sys_ptrace
allow polaris_pman_t self:capability sys_ptrace;

# pman can send signal to anything
domain_signal_all_domains(polaris_pman_t)

# pmanlite can getpgid to its child group processes
domain_getpgid_all_domains(polaris_pman_t)

# pmanlite uses killpg(<child pid>,SIGNULL) to test its child processes
domain_signull_all_domains(polaris_pman_t)

term_use_unallocated_ttys(polaris_pman_t)

optional_policy(
    polaris_repm_tmp_manager(polaris_pman_t)
)
optional_policy(''
# pman on nyquist ls /tmp/ufs/crashinfo
polaris_ncd_tmp_read(polaris_pman_t)
')

# runs find over /proc
kernel_getattr_proc(polaris_pman_t)

# PLEASE LOOK AT ME: pman removes /tmp/subpkg directory after CSCvm14562 commit
# back out and change properly after CSCvm51181 is fixed
polaris_install_tmp_manage(polaris_pman_t)

# rm from coreutils-8.30 wants to know filesystem type
fs_getattr_tmpfs(polaris_pman_t)
fs_getattr_xattr_fs(polaris_pman_t)

# domain for gdbserver started by pman
polaris_utility_domain_template(gdb)
domtrans_pattern(polaris_pman_t, polaris_gdb_exec_t, polaris_gdb_t)

# pman starts gdbserver with stdout pointing to btrace fifo
polaris_use_btrace_fifo(polaris_gdb_t)

# gdbserver reads /proc/$pid/exe of a process it gets attached to.
# Allow to read state of all processes for now.
domain_read_all_domains_state(polaris_gdb_t)

# allow gdbserver to bind to all unreserved ports for now
corenets_tcp_bind_unreserved_ports(polaris_gdb_t)
corenets_tcp_bind_generic_node(polaris_gdb_t)

allow polaris_gdb_t self:process { ptrace setpgid }
allow polaris_gdb_t self:tcp_socket { accept bind create getattr listen setopt }

# pman update iosxe_control_processes/iosxe_mgmt_processes/tasks
fs_manage_cgroup_dirs(polaris_pman_t)
fs_manage_cgroup_files(polaris_pman_t)

optional_policy(''
container_runtime_domtrans(polaris_pman_t)
')

# pman calls show_version for dockerd executable
optional_policy(''
polaris_container_runtime_show_version(polaris_pman_t)
')
# needs to access nsfs file during killall invocation
fs_read_nfs_files(polaris_pman_t)

# runs over /proc/<pid>/net/arp
kernel_read_network_state(polaris_pman_t)

# runs over /proc/<pid>/net/stat
kernel_read_network_state_symlinks(polaris_pman_t)

# runs over /proc/<pid>/net/rpc
kernel_read_rpc_sysctls(polaris_pman_t)

# LOOK AT ME: why pman doing it
# from mgmt/confd/confd/src/confd_startup_sh_post_exit.sh archive_errlog function
polaris_btrace_persistent_data_manage(polaris_pman_t)
polaris_conf_log_manage(polaris_pman_t)
allow polaris_pman_t self:process setfscreate;

# access /bootflash/installer/install_issu_state
polaris_disk_install_read(polaris_pman_t)

# /usr/binos/conf/umbrella_init.sh that runs under pman
# copies into /bootflash/ios_core.p7b
polaris_bootflash_manage(polaris_pman_t)

optional_policy(''
# we may write bits to the exiting_bays file in /proc
polaris_rw_exiting_bays(polaris_pman_t)
')

ifdef('ngwc_family','
# linux_iosd_image_post_exit.sh restores the slot-based address
# for the management ethernet should be restored on dual RP system.
polaris_chvrf_domtrans(polaris_pman_t)
sysnet_domtrans_ifconfig(polaris_pman_t)

# For use of flashutil preparing for reload
polaris_flashlib_read(polaris_pman_t)
polaris_flashlib_write(polaris_pman_t)
')

# File description leaks for TDL db lock files as processes are managed by
# pman.
# TODO Eventually these fd leaks should be fixed in the calling processes
#
# Note that TDL db lock file interfaces are typically generated by TDL and
# are not found in our local .if files
polaris_tdlresolve_read(polaris_pman_t)
polaris_db_tdlldb_ios_oper_use(polaris_pman_t)

ifdef(\"nyquist_platform\","
polaris_db_tdlldb_ewlc_operational_use(polaris_pman_t)
polaris_db_tdlldb_rogued_use(polaris_pman_t)
polaris_db_tdlldb_ewlc_config_use(polaris_pman_t)
polaris_db_tdlldb_wstatsd_use(polaris_pman_t)
polaris_db_tdlldb_client_global_use(polaris_pman_t)
"

# delete /tmp/booted from linux_iosd_image_post_exit.sh when iosd goes down.
# For example: preparing for reload.
gen_require("
    type polaris_iosd_tmp_files_t;
"
allow polaris_pman_t polaris_iosd_tmp_files_t:file { delete_file_perms open }
);

# Upon exit of a process, pman needs to remove sai directory and files
# associated with the process
polaris_pvp_delete_sai_files(polaris_pman_t)
#rsync port want to establish Tcp connection
#runs over /usr/bin/rsync
corenetsycopg_connect_rsync_port(polaris_pman_t)
rsync_entry_type(polaris_pman_t)

ifdef(\"crankshaft_family\","
# Provide process signal perms to pman.
polaris_caf_proc_signal_perms(polaris_pman_t)
"

# open connections from processes managed by pman can leak. The selinux
# errors associated with these typically come from a forked and renamed
# elastic process like wncd_0. During process forking/startup, node
# binds may cause denials as they are brought up by pman
ifdef(\"ngwc_family\","
corenetsycopg_bind_generic_node(polaris_pman_t)
corenetsycopg_udp_bind_generic_node(polaris_pman_t)
corenetsycopg_connect_lisp_cons_control_port(polaris_pman_t)
"

# pman can stop itself on reload
allow polaris_pman_t self:capability kill;

# For pmanlite, allow pman's grand-children rsync to be able to operate on pipe created by pman.
gen_require("
    type rsync_t;
"
)
polaris_use_pman_fifo(rsync_t)

ifdef(`sumatra_platform',`
# Allow pman to execute cman_fp in the polaris_cm_fp_t domain
polaris_cm_fp_domtrans(polaris_pman_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispman.te
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dnl
dnl April 2018, Victor Kamensky
dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl
dnl Nyquist Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 0)
max_bay_map_set(`fp', `per_bay', 0)

dnl in elastic scope each process has its own value
max_elastic_map_set(`rp', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`cc', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`fp', `elastic', BPROC_ODM, 0)

max_elastic_map_set(`rp', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(`cc', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(`fp', `elastic', BPROC_WNCD, 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/nyquistmaps.m4
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#
# Aug 2020, Sridhar
#
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#

### <summary>Polaris xcopy Policy Rules.</summary>

############################################################
### <summary>
###  Execute xcopy related scripts in its own domain.
### </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
interface(`polaris_xcopy_script_domtrans',
   gen_require(`
      type polaris_xcopy_script_t, polaris_xcopy_script_exec_t;
   ')
   domtrans_pattern($1, polaris_xcopy_script_exec_t, polaris_xcopy_script_t)
')
#
#######################################
## <summary>
##      xcopy progress temp file access
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface(`polaris_xcopy_tmp_manage',
   gen_require(`
      type polaris_xcopy_tmp_t;
   ')
   manage_dirs_pattern($1,polaris_xcopy_tmp_t, polaris_xcopy_tmp_t)
   manage_files_pattern($1,polaris_xcopy_tmp_t, polaris_xcopy_tmp_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisxcopy.if

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#
# April 2017, Victor Kamensky
#
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#

## <summary>Polaris dmi_ncsshd_mgmt Policy Rules.</summary>

###############################################################
## <summary>
## Read polaris_ncsshd_keys_t files, effectively access
## /tmp/.ncsshd_authorized_keys created by psd and read by ncsshd
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>

interface('polaris_ncsshd_authorized_keys_read',
  gen_require(
    type polaris_ncsshd_keys_t;
    read_files_pattern($1, polaris_ncsshd_keys_t, polaris_ncsshd_keys_t)
    list_dirs_pattern($1, polaris_ncsshd_keys_t, polaris_ncsshd_keys_t)
  )
)

########################################
## Watch /var/run/netns and list contents
## <param name="domain">
## Domain allowed access.
## </param>

interface('polaris_watch_netns',
  gen_require(
    type ifconfig_var_run_t;
    list_dirs_pattern($1, ifconfig_var_run_t, ifconfig_var_run_t)
    allow $1 ifconfig_var_run_t:dir watch;
  )
)

########################################
## Manage polaris_ptted_tmp_t files, effectively files
## under /tmp/tmppub/interceptor
## <param name="domain">
## Domain allowed access.
## </param>

interface('polaris_interceptor_manage',
  gen_require('
type polaris_pttcd_tmp_t;
"
manage_files_pattern($1, polaris_pttcd_tmp_t, polaris_pttcd_tmp_t)
manage_dirs_pattern($1, polaris_pttcd_tmp_t, polaris_pttcd_tmp_t)
allow $1 polaris_pttcd_tmp_t:{ dir file } watch;
"

########################################
## <summary>
##      Execute a domain transition to run ncsshd polaris process.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
interface('polaris_ncsshd_mgmt_domtrans',
    gen_require(
        type polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_exec_t;
    )
)

domtrans_pattern($1, polaris_dmi_ncsshd_mgmt_exec_t, polaris_dmi_ncsshd_mgmt_t)
"

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmincsshdmgmt.if
No license file was found, but licenses were detected in source scan.
#
# March 2017, Victor Kamensky
#
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#
## <summary>Polaris cm_rp Policy Rules.</summary>

##################################################
## <summary>
##	Execute cmand_fp in the polaris_cm_fp_t domain.
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed to transition.
##	</summary>
## </param>
#
interface('polaris_cm_rp_domtrans',
    gen_require(
        type polaris_cm_rp_t, polaris_cm_rp_exec_t;
    ')
)

corecmd_search_bin($1)
domtrans_pattern($1, polaris_cm_rp_exec_t, polaris_cm_rp_t)
')

#################################################
## <summary>
##      Write into fifo file created by cmrp, typical case when
##      cmrp starts script under popen.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_cmrp_use_fifo',
    gen_require(
        type polaris_cm_rp_t;
    ')
)

    write_fifo_files_pattern($1, polaris_cm_rp_t, polaris_cm_rp_t)
')

#############################################################
## <summary>
##      Write/read /tmp/pfu_oirtime.lock file
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_cm_rp_tmp_manage',
    gen_require(
        type polaris_cm_rp_tmp_t;
        type tmp_t;
    ')
)
manage_dirs_pattern($1, { tmp_t polaris_cm_rp_tmp_t }, polaris_cm_rp_tmp_t)
manage_files_pattern($1,{ tmp_t polaris_cm_rp_tmp_t }, polaris_cm_rp_tmp_t)
')
## <summary>
## Setup policies to access dir and file
## /vol/harddisk/.inv/inv_log_file
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
#interface('polaris_cm_rp_inv_log_setup',`
  gen_require(`
    type polaris_cm_rp_inv_log_file_t;
    type polaris_disk_harddisk_t;
    type polaris_disk_bootflash_t;
  `)
  filetrans_pattern($1, {polaris_disk_harddisk_t polaris_disk_bootflash_t}, polaris_cm_rp_inv_log_file_t, dir, ".inv")
  # allow access to /vol/harddisk/inv
  manage_dirs_pattern($1, {polaris_disk_harddisk_t polaris_disk_bootflash_t}, polaris_cm_rp_inv_log_file_t)
  # allow access to /vol/harddisk/inv/inv_log_file
  manage_files_pattern($1, {polaris_cm_rp_inv_log_file_t}, polaris_cm_rp_inv_log_file_t)
``)

### <summary>
### Write into /tmp/codesign.txt file created by cm_rp
### <param name="domain">
### Domain allowed to transition.
### </param>
### <summary>
### </param>
#
#interface('polaris_cm_rp_tmp_write',`
  gen_require(`
    type polaris_cm_rp_tmp_t;
  `)
  write_files_pattern($1, { tmp_t polaris_cm_rp_tmp_t }, polaris_cm_rp_tmp_t)
``)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmrp.if
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
policy_module(polarisvdaemon, 1.0);

gen_require(
    type polaris_vdaemon_t;
)
polaris_chasfs_manage(polaris_vdaemon_t)
# read and write /bootflash/sdwan/etc/vdaemon_gen_id
polaris_bootflash_manage(polaris_vdaemon_t)
polaris_tdlresolve_read(polaris_vdaemon_t)
polaris_cpld_read(polaris_vdaemon_t)
polaris_flashlib_read(polaris_vdaemon_t)
polaris_ripc_sman_ui_serv_connect(polaris_vdaemon_t)
polaris_db_tldldb_dir_use(polaris_vdaemon_t)
logging_send_syslog_msg(polaris_vdaemon_t)

# vconfd_load_shared_schemas
polaris_confd_shared_schema_read(polaris_vdaemon_t)

# manage /etc/viptela
polaris_cedge_etc_manage(polaris_vdaemon_t)
polaris_cedge_reset_ns(polaris_vdaemon_t)

# calls ifconfig for tun_0_0 interface
sysnet_domtrans_ifconfig(polaris_vdaemon_t)

# calls dmidecode get system serial number
dmidecode_domtrans(polaris_vdaemon_t)

# /var/run/vdaemon socket and pid
type polaris_vdaemon_var_run_t;
files_pid_file(polaris_vdaemon_var_run_t)
manage_files_pattern(polaris_vdaemon_t, polaris_vdaemon_var_run_t, polaris_vdaemon_var_run_t)
manage_sock_files_pattern(polaris_vdaemon_t, polaris_vdaemon_var_run_t, polaris_vdaemon_var_run_t)
files_pid_filetrans(polaris_vdaemon_t, polaris_vdaemon_var_run_t, { file sock_file })
polaris_ttm_var_sock_write(polaris_vdaemon_t)

# generate_instance_uuid reads /sys/devices/virtual/dmi/id/product_uuid
dev_read_sysfs(polaris_vdaemon_t)
# vip_util_set_fd_limits calls setrlimit
allow polaris_vdaemon_t self:process { setrlimit setpgid };  

allow polaris_vdaemon_t self:capability { dac_override fowner sys_resource };  

# vdaemon_init_tunn_intf initialize tun_0_0 in vrf 1
allow polaris_vdaemon_t self:tun_socket create;
corenet_rw_tun_tap_dev(polaris_vdaemon_t)  
polaris_persistent_watch(polaris_vdaemon_t)  
# from vdaemon_misc.c vdaemon_init_inotify function
polaris_cedge_etc_watch(polaris_vdaemon_t)  

# set_netns_with_etc mounts on / and /sys
# set_netns_with_etc opens /etc/netns/1 dir
polaris_namespace_set_netns_with_etc(polaris_vdaemon_t)  
# DNS thread complains about tmp_t mounton
# on /sys when switching namespace
gen_require('  
    type tmp_t;
')  
allow polaris_vdaemon_t tmp_t:dir mounton;  

# vip_util_set_ns opens /var/run/netns/*
polaris_cedge_set_ns(polaris_vdaemon_t)  
# vip_dns_process_request switches namespace from linux n/w namespace to
# original mount namespace
allow polaris_vdaemon_t self:capability { net_admin sys_chroot };  
allow polaris_vdaemon_t self:udp_socket { bind connect create getattr getopt setopt shutdown };  

# control linux routes vip_route_delete and vdaemon_setup_system_ip_route
allow polaris_vdaemon_t self:netlink_route_socket { bind create getattr nlmsg_read nlmsg_write };  

# binds to vbond udp ports
corenet_udp_bind_generic_node(polaris_vdaemon_t)  
corenet_udp_bind_polaris_vbond_port(polaris_vdaemon_t)  

# though default ports exist, users can configure the tcp ports in vManage and vSmart
corenet_tcp_connect_all_ports(polaris_vdaemon_t)  

# vdaemon_proc_hello executes VIP_CDB_BACKUP_SCRIPT
polaris_confd_domtrans(polaris_vdaemon_t)  
# VIP_CDB_BACKUP_SCRIPT makes use of /etc/confd/confd_ipc_secret
auth_map_passwd(polaris_vdaemon_t)  

# vdaemon_write_authorized_keys_to_ncsshd opens VDAEMON_NCSSHD_AUTH_KEY_FILE file
polaris_ncsshd_keys_manage(polaris_vdaemon_t)
# vbond_encode_version opens /etc/version
polaris_confed_etc_read(polaris_vdaemon_t)

# generate_or_parse_uid() invokes uuid_generate that needs read on
# random-number generator devices (e.g., /dev/random).
dev_read_rand(polaris_vdaemon_t)

# vdaemon_exec_iptables() is invoked by vdaemon all over the place
iptables_domtrans(polaris_vdaemon_t)

allow polaris_vdaemon_t self:capability net_raw;
allow polaris_vdaemon_t self:rawip_socket create_socket_perms;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisvdaemon.te
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#
# March 2017, Victor Kamensky
#
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#

## <summary>Polaris fman_rp Policy Rules.</summary>

### <summary>Polaris fman_rp Policy Rules.</summary>

#### <summary>Manage mqipc fmrp2fpm shared memory file in /dev/shm directory</summary>
#### </summary>
#### <param name="domain">
#### <summary>
#### Domain allowed access.
#### </summary>
#### </param>

interface(`polaris_fmrp2fpm_mqipc_use',
gen_require(`
type polaris_fmrp2fpm_mqipc_t;
')
polaris_mqipc_use($1, polaris_fmrp2fpm_mqipc_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfmanrp.if
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dnl
May 2019

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dnl

dnl confined and permissive domain maps

divert(-1)
define('permissive_domain', `defn(format(``permissive_domain[%s]'', `$1'))')
define('permissive_domain_set', `define(format(``permissive_domain[%s]'', `$1'), `$2')')

define('confined_domain', `defn(format(``confined_domain[%s]'', `$1'))')
define('confined_domain_set', `define(format(``confined_domain[%s]'', `$1'), `$2')')

dnl

dnl list of all subjects that should be in confined mode
dnl
confined_domain_set(`polaris_iosd_t', `polaris_iosd_t')

dnl

dnl list of all subjects that should be placed in permissive mode
dnl
permissive_domain_set(`polaris_nginx_t', `polaris_nginx_t')
permissive_domain_set(`polaris_nginx_webui_t', `polaris_nginx_webui_t')
permissive_domain_set(`polaris_nginx_webui_install_t', `polaris_nginx_webui_install_t')
divert(0)

dnl

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/domainmaps.m4

No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
	/tmp/dbgmn_log_svr gen_context(system_u:object_r:polaris_fed_sock_t,s0)
	/tmp/fed_post_result -- gen_context(system_u:object_r:polaris_fed_tmp_t,s0)
	/flash/shfwd_params.txt gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwcfed.fc
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
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#

policy_module(polarisrollbacktimer, 1.0);

polaris_process_domain_template(rbtimer)

corecmd_exec_bin(polaris_rbtimer_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_rbtimer_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_rbtimer_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_rbtimer_t)

# work with /tmp files
type polaris_rbtimer_tmp_t;
files_tmp_file(polaris_rbtimer_tmp_t)
manage_dirs_pattern(polaris_rbtimer_t, tmp_t, polaris_rbtimer_tmp_t)
manage_files_pattern(polaris_rbtimer_t, polaris_rbtimer_tmp_t, polaris_rbtimer_tmp_t)
manage_fifo_files_pattern(polaris_rbtimer_t, polaris_rbtimer_tmp_t, polaris_rbtimer_tmp_t)
files_tmp_filetrans(polaris_rbtimer_t, polaris_rbtimer_tmp_t, { file dir })

# work with /bootflash/.rollback_timer (RBT_CONTROL_DIR) file
type polaris_rbtimer_bootflash_t;
polaris_disk_type(polaris_rbtimer_bootflash_t)
polaris_rbtimer_bootflash_manage(polaris_rbtimer_t)

allow polaris_rbtimer_t self:capability sys_resource;
allow polaris_rbtimer_t self:capability dac_override;
allow polaris_rbtimer_t self:process setpgid;

polaris_btrace_data_manage(polaris_rbtimer_t)
polaris_chasfs_manage(polaris_rbtimer_t)
polaris_cpld_read(polaris_rbtimer_t)
polaris_boot_tmp_read(polaris_rbtimer_t)
polaris_read_debug_conf(polaris_rbtimer_t)
polaris_proc_rmonbifo_read(polaris_rbtimer_t)
polaris_rmonbifo_tmp_read(polaris_rbtimer_t)
polaris_disk_crashinfo_getattr(polaris_rbtimer_t)
polaris_disk_harddisk_read_lnk(polaris_rbtimer_t)
polaris_bootflash_manage(polaris_rbtimer_t)

logging_send_syslog_msg(polaris_rbtimer_t)

# uses pidof
domain_read_all_domains_state(polaris_rbtimer_t)
dev_read_sysfs(polaris_rbtimer_t)

# rollbacktimer runs install_engine.sh
polaris_install_engine_domtrans(polaris_rbtimer_t)

polaris_script_errmsg_use(polaris_rbtimer_t)

# watch over /bootflash/.rollback_timer
allow polaris_rbtimer_t polaris_rbtimer_bootflash_t:dir watch;
# watch over /tmp/rp/rollback_timer
allow polaris_rbtimer_t polaris_rbtimer_tmp_t:dir watch;

# access to /tmp/ufs//crashinfo
optional_policy(
    polaris_ncd_tmp_read(polaris_rbtimer_t)
)
# access to read packages.conf
polaris_read_packages_conf(polaris_rbtimer_t)

# access to /cdrom0/ when *ova image is booted during
# first instance of vwlc on ucs server
polaris_removable_read(polaris_rbtimer_t)

# access to "/bootflash/installer/install_abort_timer_val"
polaris_disk_install_read(polaris_rbtimer_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrollbacktimer.te
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#
# March 2017, Victor Kamensky
#
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#

policy_module(polarisbhytoolsd, 1.0);

polaris_process_domain_template(bhytoolsd)
polaris_btrace_data_manage(polaris_bhytoolsd_t)
polaris_chasfs_manage(polaris_bhytoolsd_t)
polaris_cpld_read(polaris_bhytoolsd_t)

# vmtoolsd transitions from polaris_bhytoolsd_t to vmtools_t -
# bhytoolsd is small wrapper that calls vmtoolsd
vmtools_domtrans(polaris_bhytoolsd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbhytoolsd.te
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
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#

policy_module(polarismobilityd, 1.0);

gen_require(''
   type polaris_mobilityd_t;
')
polaris_btrace_data_manage(polaris_mobilityd_t)
polaris_crft_data_manage(polaris_mobilityd_t)
polaris_chasfs_manage(polaris_mobilityd_t)
polaris_tdlresolve_read(polaris_mobilityd_t)
polaris_tdldb_list_dirs(polaris_mobilityd_t)
polaris_cpld_read(polaris_mobilityd_t)
polaris_lua_read(polaris_mobilityd_t)
polaris_flashlib_read(polaris_mobilityd_t)
polaris_ripc_sman_ui_serv_connect(polaris_mobilityd_t)
polaris_db_tdldb_dir_use(polaris_mobilityd_t)

# allow to use setrlimit
allow polaris_mobilityd_t self:capability sys_resource;
allow polaris_mobilityd_t self:process setrlimit;
allow polaris_mobilityd_t self:capability dac_override;
allow polaris_mobilityd_t self:udp_socket { create_socket_perms recv_msg send_msg };

logging_send_syslog_msg(polaris_mobilityd_t)
polaris_lfts_dev_use(polaris_mobilityd_t)
polaris_cpld_read(polaris_mobilityd_t)

polaris_odm_clnt2svr_mqipc_create(polaris_mobilityd_t)

polaris_tmp_tdlldb_persist_setup(polaris_mobilityd_t)

polaris_tdlldbpersist_setup(polaris_mobilityd_t)

corennet_udp_bind_generic_node(polaris_mobilityd_t)
corennet_udp_bind_polaris_mobility_ctl_port(polaris_mobilityd_t)
corennet_udp_bind_polaris_mobility_data_port(polaris_mobilityd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismobilityd.te

No license file was found, but licenses were detected in source scan.

#
# June 2017, Victor Kamensky
#
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#

/usr/bin/os/conf/wui-lighttpd-launch.sh -- gen_context(system_u:object_r:polaris_webui_lighttpd_exec_t,s0)

/usr/bin/os/conf/wui-app-launch.sh -- gen_context(system_u:object_r:polaris_webui_exec_t,s0)

/usr/bin/os/conf/wui-tipc-launch.sh -- gen_context(system_u:object_r:polaris_webui_exec_t,s0)

/webui(/.*)? gen_context(system_u:object_r:polaris_webui_file_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswebui.fc

No license file was found, but licenses were detected in source scan.

#
# April 2017, Victor Kamensky
#
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#

/tmp\DmiAuth\socket -s gen_context(system_u:object_r:polaris_dmi_dmiauthd_tmp_t,s0)
/tmp/netconf-yang-diag(/.*)? gen_context(system_u:object_r:polaris_dmi_dmiauthd_tmp_diags_t,s0)
/usr/bin/os/conf/dmid_diag_logs.sh -- gen_context(system_u:object_r:polaris_dmid_diag_logs_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmidmiamuthd.fc
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
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#

# polarisrrmmgr file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrrmmgr.fc
No license file was found, but licenses were detected in source scan.

#
# May 2017, Victor Kamensky
#
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#

## <summary>Polaris pttd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisptted.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

/usr/binos/conf/oom.sh -- gen_context(system_u:object_r:polaris_oom_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisoom.fc
No license file was found, but licenses were detected in source scan.

#
# July 2020, Swati Kumari
#
# Copyright (c) 2020 by Cisco Systems, Inc.
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#
policy_module(polarisptpdrp, 1.0);

gen_require(
    type polaris_ptpd_rp_t;
')
polaris_chasfs_read(polaris_ptpd_rp_t)
polaris_cpld_read(polaris_ptpd_rp_t)
polaris_tdlresolve_read(polaris_ptpd_rp_t)
polaris_lsmipi_dev_use(polaris_ptpd_rp_t)

# ptpd needs to have open,read,write access with /dev/ds31408
polaris_ds31408_dev_use(polaris_ptpd_rp_t)

# blzi device
polaris_blzi_dev_use(polaris_ptpd_rp_t)

allow polaris_ptpd_rp_t self:capability sys_nice;
allow polaris_ptpd_rp_t self:process setsched;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisptpdrp.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

/tmp/lsn.log -- gen_context(system_u:object_r:polaris_epc_ws_liaison_tmp_t,s0)

/tmp/epc_ws(/.*)? gen_context(system_u:object_r:polaris_epc_ws_liaison_tmp_t,s0)

# CLI: show platform software wireshark
/usr/binos/conf/wireshark_show.sh -- gen_context(system_u:object_r:polaris_wireshark_show_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisepcwsliaison.fc
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
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#
policy_module(polarisgsdrp, 1.0);

gen_require('  
    type polaris_gsd_rp_t;
')

#if allow to run readlink /dev/loop0 & /bin/date  
corecmd_exec_bin(polaris_gsd_rp_t)

#if run ldd, which in turn exec "ld.so --verify"  
libs_exec_ld_so(polaris_gsd_rp_t)

#if allow to run mount in its own domain  
mount_domtrans(polaris_gsd_rp_t)
#if awk -v what=~^BuildPath: $pkginfo_file ~ what { print $2 } /tmp/sw/boot/pkginfo  
polaris_boot_tmp_read(polaris_gsd_rp_t)
#endif
#if polaris_btrace_data_manage(polaris_gsd_rp_t)
#if polaris_chasfs_manage(polaris_gsd_rp_t)
#if polaris_read_debug_conf(polaris_gsd_rp_t)
#if polaris_disk_crashinfo_getattr(polaris_gsd_rp_t)
#if polaris_guestshell_exec_files_exec(polaris_gsd_rp_t)
#if polaris_guestshell_files_read(polaris_gsd_rp_t)
#if polaris_ncd_tmp_read(polaris_gsd_rp_t)
#if polaris_proc_rmonbifo_read(polaris_gsd_rp_t)
#if polaris_cpld_read(polaris_gsd_rp_t)
#if polaris_bootflash_read(polaris_gsd_rp_t)
#if polaris_harddisk_read(polaris_gsd_rp_t)

#if read /proc/cmdline  
kernel_read_system_state(polaris_gsd_rp_t)

#if auth_use_nsswitch(polaris_gsd_rp_t)
#if polaris_rmonbifo_tmp_read(polaris_gsd_rp_t)
#if allow polaris_gsd_rp_t self:capability { dac_override sys_resource };
#if allow polaris_gsd_rp_t self:process setpgid;

#if type polaris_gsd_rp_tmp_t
#if files_tmp_file(polaris_gsd_rp_tmp_t)
#if manage_dirs_pattern(polaris_gsd_rp_t, tmp_t, polaris_gsd_rp_tmp_t)
#if manage_files_pattern(polaris_gsd_rp_t, tmp_t, polaris_gsd_rp_tmp_t)
#if manage_fifo_files_pattern(polaris_gsd_rp_t, polaris_gsd_rp_tmp_t, polaris_gsd_rp_tmp_t)
#if # work with /tmp/guestshell_stk directory  
#if files_tmp_filetrans(polaris_gsd_rp_t, polaris_gsd_rp_tmp_t, dir, "guestshell_stk")

#if gen_require('  
    type rsync_t;
rsync_entry_domtrans(polaris_gsd_rp_t, rsync_t)
allow rsync_t polaris_gsd_rp_t:process sigchld;

# read /opt/cisco/caf directory
polaris_caf_files_read(polaris_gsd_rp_t)

gen_require(''
  type polaris_caf_api_port_t;
  type polaris_caf_exec_t;
')
allow polaris_gsd_rp_t polaris_caf_api_port_t:tcp_socket name_connect;
allow polaris_gsd_rp_t polaris_caf_exec_t:file { getattr open read }; 
allow polaris_gsd_rp_t tmp_t:dir { create rmdir }; 

polaris_flashlib_read(polaris_gsd_rp_t)
polaris_flashlib_write(polaris_gsd_rp_t)

# watch over /tmp/udev/etc/udev
polaris_udev_tmp_read(polaris_gsd_rp_t)
polaris_udev_tmp_watch(polaris_gsd_rp_t)
# watch over /bootflash/gs_script
polaris_persistent_watch(polaris_gsd_rp_t)
#allow iox_ha_utils.sh to read /etc/docker/daemon.json.
gen_require(''
  type container_config_t;
')
read_files_pattern(polaris_gsd_rp_t, container_config_t, container_config_t)

# allow guestshell_ha.sh to log messages
logging_send_syslog_msg(polaris_gsd_rp_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgsdrp.te
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#
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#
## <summary>Polaris Rmonbifo Policy Rules.</summary>

******************************************************************************
# Polaris Rmonbifo Driver policy
******************************************************************************
## <summary>
## Read /proc/rmbonbifo files.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>

interface(`polaris_proc_rmonbifo_read',

gen_require(`
type polaris_proc_rmonbifo_t;
')
read_files_pattern($1, polaris_proc_rmonbifo_t, polaris_proc_rmonbifo_t)
list_dirs_pattern($1, polaris_proc_rmonbifo_t, polaris_proc_rmonbifo_t)
')

## <summary>
## Getattr of /proc/rmbonbifo files.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>

interface(`polaris_proc_rmonbifo_getattr',

gen_require(`
type polaris_proc_rmonbifo_t;
')
getattr_files_pattern($1, polaris_proc_rmonbifo_t, polaris_proc_rmonbifo_t)
')

## <summary>
## Read /tmp/sw/boot/rmbonbifo files.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>

interface(`polaris_rmonbifo_tmp_read',

gen_require(`
type polaris_rmonbifo_tmp_t;
  type polaris_boot_tmp_t;
'}
  read_files_pattern($1, polaris_rmonbifo_tmp_t, polaris_rmonbifo_tmp_t)
  # /tmp/sw/boot/rmonbifo dir is inside of polaris_boot_tmp_t dir
  search_dirs_pattern($1, polaris_boot_tmp_t, polaris_rmonbifo_tmp_t)
'}

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrmonbifo.if
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#
/usr/binos/conf/ncd.sh -- gen_context(system_u:object_r:polaris_ncd_exec_t,s0)
/etc/conf/unifiedfs/mount_data  gen_context(system_u:object_r:polaris_ncd_etc_t,s0)

/usr/binos/conf/iosd_console_attach.sh -- gen_context(system_u:object_r:polaris_console_attach_exec_t,s0)
/usr/binos/conf/unifiedfs/unifiedfs_helper.sh -- gen_context(system_u:object_r:polaris_ufs_helper_exec_t,s0)

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisncd.fc
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#
## <summary>Polaris iosd Policy Rules.</summary>

####################################################################
## <summary>
##      Make the specified domain able to work with /tmp/restconf
## </summary>
## <param name="type">
##      Domain allowed access.
## </summary>
interface('polaris_restconf_tmp_use',
    gen_require(
        type polaris_restconf_tmp_t;
    )
)

manage_files_pattern($1, polaris_restconf_tmp_t, polaris_restconf_tmp_t)
manage_dirs_pattern($1, polaris_restconf_tmp_t, polaris_restconf_tmp_t)

interface('polaris_iosd_domain',
polaris_process_domain_confined($1, $2)
polaris_iosd_maybe_unconfined($1)
)

interface('polaris_iosd2iox_tmp_manage',
gen_require(
    type polaris_iosd2iox_tmp_t;
manage_files_pattern($1, polaris_iosd2iox_tmp_t, polaris_iosd2iox_tmp_t)
')

### <summary>
### Make the specified domain able to read iosd2iox files
### </summary>
### <param name="type">
### Domain allowed access.
### </param>
#
interface(`polaris_iosd2iox_tmp_read',
    gen_require(
        type polaris_iosd2iox_tmp_t;
    ')

read_files_pattern($1,polaris_iosd2iox_tmp_t,polaris_iosd2iox_tmp_t)
')

### <summary>
### Send messages to iosd unix datagram sockets.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface(`polaris_iosd_dgram_send',
    gen_require(
        type polaris_iosd_t;
    ')

allow $1 polaris_iosd_t:unix_dgram_socket sendto;
')

### <summary>
### Make the specified domain to read /tmp/rp/.iosp_dmiauthd
### </summary>
### <param name="type">
### Domain allowed access.
### </param>
interface('polaris_dmiauthd_token_read',
    gen_require(
        type polaris_dmiauthd_token_t;
    ')
)
read_files_pattern($1, polaris_dmiauthd_token_t, polaris_dmiauthd_token_t)

interface('polaris_gnmib_token_read',
    gen_require(
        type polaris_gnmib_token_t;
    ')
)
manage_files_pattern($1, polaris_gnmib_token_t, polaris_gnmib_token_t)

interface('polaris_iosd_tmp_file_use',
    gen_require(
        type polaris_iosd_tmp_files_t;
    ')
)
manage_files_pattern($1, polaris_iosd_tmp_files_t, polaris_iosd_tmp_files_t) allow $1 polaris_iosd_tmp_files_t:sock_file { manage_sock_file_perms};
### <summary>
### Manage /bootflash/geodb/ files
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>

```
interface('polaris_geodb_files_manage',
    gen_require(
        type polaris_geodb_files_t;
    )

    manage_files_pattern($1, polaris_geodb_files_t, polaris_geodb_files_t)
    manage_dirs_pattern($1, polaris_geodb_files_t, polaris_geodb_files_t)
    manage_lnk_files_pattern($1, polaris_geodb_files_t, polaris_geodb_files_t)
)
```

### <summary>
### Allow the specified domain to read /boot/vcpu_template.txt or /csl_p_0/vcpu_template.txt
### </summary>

```
interface('polaris_iosd_vcpu_read',
    gen_require(
        type polaris_iosd_vcpu_t;
        type polaris_disk_varied_t;
        type polaris_disk_csl_p_t;
    )

    read_files_pattern($1, [ polaris_disk_varied_t polaris_disk_csl_p_t ], polaris_iosd_vcpu_t)
)
```

### <summary>
### Allow the specified domain to read /tmp/usb-disable
### </summary>

```
```
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
# interface('polaris_iosd_usb_disable_tmp_manage',
#     gen_require(
#         type polaris_iosd_usb_disable_tmp_t;
#     )
#
#     manage_files_pattern($1, polaris_iosd_usb_disable_tmp_t, polaris_iosd_usb_disable_tmp_t)
#     files_tmp_filetrans($1, polaris_iosd_usb_disable_tmp_t, file, "usb-disable")
#
#     )

####################################################
## <summary>
## Allow the specified domain to access /bootflash/EFI
## </summary>
## <param name="type">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
# interface('polaris_efi_files_list_dirs',
#     gen_require(
#         type polaris_efi_files_t;
#     )
#
#     list_dirs_pattern($1, polaris_efi_files_t, polaris_efi_files_t)
# )

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiosd.if
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#
#
# polarissmd file contexts place holder

# dc_profile_dir
/mnt/sd3/user/dc_profile_dir(/.*)? gen_context(system_u:object_r:polaris_smd_disk_t,s0)
/flash1/user/dc_profile_dir(/.*)? gen_context(system_u:object_r:polaris_smd_disk_t,s0)
/bootflash/dc_profile_dir/*?  gen_context(system_u:object_r:polaris_smd_disk_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissmd.fc
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#

# polarismqipc file contexts place holder

Found in path(s):
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#

## <summary>Polaris iomd Policy Rules.</summary>

########################################################
## <summary>
## Work (read, write, ioctl) with /dev/ngio[0-9+] devices
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_ngio_dev_use',
  gen_require(
    type device_t;
    type polaris_ngio_device_t;
  ')
  write_chr_files_pattern($1, device_t, polaris_ngio_device_t)
  read_chr_files_pattern($1, device_t, polaris_ngio_device_t)
')

Found in path(s):
policy_module(polarisrepm, 1.0);

gen_require('"type polaris_repm_t;"
')
polaris_btrace_data_manage(polaris_repm_t)
polaris_crtf_data_manage(polaris_repm_t)
polaris_chasfs_manage(polaris_repm_t)
polaris_tdlresolve_read(polaris_repm_t)
polaris_tdlldb_list_dirs(polaris_repm_t)
polaris_cpld_read(polaris_repm_t)
polaris_lua_read(polaris_repm_t)
polaris_flashlib_read(polaris_repm_t)
polaris_ripc_sman_ui_serv_connect(polaris_repm_t)
polaris_db_tdlldb_dir_use(polaris_repm_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_repm_t)

allow polaris_repm_t self:capability { sys_resource dac_override }; allow polaris_repm_t self:process setrlimit;

# temporary files created for repm in /tmp/replication

type polaris_repm_tmp_t;
files_tmp_file(polaris_repm_tmp_t)
polaris_systemd_tmpfiles_tmp_filetrans(polaris_repm_tmp_t, dir, "replication") manage_files_pattern(polaris_repm_t, polaris_repm_tmp_t, polaris_repm_tmp_t)
polaris_dyncfg_tmp_read(polaris_repm_t)
polaris_tdlldbPersist_setup(polaris_repm_t)
polaris_tmp_tdlldb_persist_setup(polaris_repm_t)

# send syslog
logging_send_syslog_msg(polaris_repm_t)

# mq-local_rp_1_0
type polaris_repm_local_rp_mqipc_t;
polaris_mqipc_type(polaris_repm_local_rp_mqipc_t)

polaris_mqipc_create_name(polaris_repm_t, polaris_repm_local_rp_mqipc_t, local_rp_1_0)
polaris_mqipc_create_name(polaris_repm_t, polaris_repm_local_rp_mqipc_t, local_rp_0_0)

# repm peer mqipc queues under /dev/shm/repm_peer_mq folder
type polaris_repm_peer_mqipc_t;
polaris_mqipc_type(polaris_repm_peer_mqipc_t)
polaris_mqipc_create_name_dir(polaris_repm_t, polaris_repm_peer_mqipc_t, repm_peer_mq)

# repm invokes installer_api_* api's which need access to /bootflash/.installer/install_issu_state
polaris_install_disk_read(polaris_repm_t)

ifdef(`petra_platform',
    #allow access to polaris_cm_rp sem for chasfs
    polaris_cm_rpSem_use(polaris_repm_t)
    #allow access to /flash12/moncfg/cfg.dat for config
    polaris_swipedrive_file_manage(polaris_repm_t)
    )

# execute /bin/tar
corecmd_exec_bin(polaris_repm_t)
# tar reads /etc/passwd
auth_use_nsswitch(polaris_repm_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrepm.te
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#

## <summary>Polaris NGWC Platform Policy Rules.</summary>

#<summary>Manage ngwc shared memory /dev/shm/ngwc_shm.</summary>
## <param name="domain">
## Domain allowed access.

### Manage ngwc shared memory /dev/shm/ngwc_scc_shm.

```c
interface('polaris_ngwc_scc_shm_manage',
    gen_require(
        type tmpfs_t;
        type polaris_ngwc_scc_shm_t;
    )
)
fs_getattr_tmpfs($1)
manage_files_pattern($1, tmpfs_t, polaris_ngwc_scc_shm_t)
allow $1 polaris_ngwc_scc_shm_t:file map;
filetrans_pattern($1, tmpfs_t, polaris_ngwc_scc_shm_t, file, "ngwc_scc_shm")
)
```

### Manage ngwc shared memory /dev/shm/iomd_to_fed_ptp_offload.

```c
interface('polaris_ngwc_iomd_to_fed_ptp_shm_manage',
    gen_require(
        type tmpfs_t;
        type polaris_ngwc_iomd_to_fed_ptp_shm_t;
    )
)
fs_getattr_tmpfs($1)
manage_files_pattern($1, tmpfs_t, polaris_ngwc_iomd_to_fed_ptp_shm_t)
allow $1 polaris_ngwc_iomd_to_fed_ptp_shm_t:file map;
filetrans_pattern($1, tmpfs_t, polaris_ngwc_iomd_to_fed_ptp_shm_t, file, "ngwc_iomd_to_fed_ptp_shm")
)
```
interface('polaris_ngwc_itfpo_manage',
    gen_require(
        type tmpfs_t;
        type polaris_ngwc_itfpo_t;
    )
    fs_getattr_tmpfs($1)
    manage_files_pattern($1, tmpfs_t, polaris_ngwc_itfpo_t)
    allow $1 polaris_ngwc_itfpo_t:file map;
    filetrans_pattern($1, tmpfs_t, polaris_ngwc_itfpo_t, file, "iomd_to_fed_ptp_offload")
)

interface('polaris_sdm_shm_manage',
    gen_require(
        type tmpfs_t;
        type polaris_sdm_shm_t;
    )
    fs_getattr_tmpfs($1)
    manage_files_pattern($1, tmpfs_t, polaris_sdm_shm_t)
    filetrans_pattern($1, tmpfs_t, polaris_sdm_shm_t, file, "sdm")
    allow $1 polaris_sdm_shm_t:file map;
)

interface('polaris_chdrvmmap_dev_use',
    gen_require("chdrvmmmap",
        type tmpfs_t;
        type polaris_chdrvmmap_dev_t;
    )
    fs_getattr_tmpfs($1)
    manage_files_pattern($1, tmpfs_t, polaris_chdrvmmap_dev_t)
    filetrans_pattern($1, tmpfs_t, polaris_chdrvmmap_dev_t, file, "chdrvmmmap")
    allow $1 polaris_chdrvmmap_dev_t:file map;
)
type device_t;
    type polaris_chdrvmmap_device_t;

read_chr_files_pattern($1, device_t, polaris_chdrvmmap_device_t)
write_chr_files_pattern($1, device_t, polaris_chdrvmmap_device_t)
allow $1 polaris_chdrvmmap_device_t:chr_file map;

### <summary>
### Work (read, write, ioctl) with /dev/gettysburg_dev1
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface('polaris_gettysburg_fpga_dev_use',
gen_require(''
    type device_t;
    type polaris_gettysburg_fpga_device_t;
')
    write_chr_files_pattern($1, device_t, polaris_gettysburg_fpga_device_t)
    read_chr_files_pattern($1, device_t, polaris_gettysburg_fpga_device_t)
    mmap_chr_files_pattern($1, device_t, polaris_gettysburg_fpga_device_t)
')

### <summary>
### Work (read, write, ioctl) with /dev/cisco/dplriomem
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface('polaris_dplr_iomem_mmapdrv_dev_use',
gen_require(''
    type device_t;
    type polaris_dplr_iomem_mmapdrv_device_t;
')
    write_chr_files_pattern($1, device_t, polaris_dplr_iomem_mmapdrv_device_t)
    read_chr_files_pattern($1, device_t, polaris_dplr_iomem_mmapdrv_device_t)
    allow $1 polaris_dplr_iomem_mmapdrv_device_t:chr_file map;
')
### <summary>
### Allow access to semaphore of quake flashlib. Pure hack
### semaphore got created by dyncfg accidently, need to change to
### POSIX semaphore code ASAP.
### LOOK AT ME
### </summary>

### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>

```c
interface(‘polaris_quake_flashlib_sem_use’,
    gen_require(
        type polaris_dyncfg_t;
    ’)
    allow $1 polaris_dyncfg_t:sem rw_sem_perms;
’)
```

### <summary>
### Manage quake i2c semaphores /dev/shm/sem.i2c_sem00N
### and work with corresponding i2c devices (/dev/i2c-XXX)
### </summary>

### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>

```c
interface(‘polaris_quake_i2c_manage’,
    gen_require(
        type tmpfs_t;
        type polaris_quake_i2c_t;
    ’)
    manage_files_pattern($1, tmpfs_t, polaris_quake_i2c_t)
polaris_i2c_use($1)
’)
```

### <summary>
### Allow caller to read or write the exiting_bays file
### </summary>

### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
interface('polaris_rw_exiting_bays',
    gen_require('polaris_proc_exiting_bays_t;
    type proc_t;
    ')
)

rw_files_pattern($1, polaris_proc_exiting_bays_t, polaris_proc_exiting_bays_t)
#
# FIXME/TODO:
# The kernel does not reliably create /proc/exiting_bays on all platforms
# The following lines should be removed when CSCvv27097 is addressed
# allow $1 polaris_proc_exiting_bays_t:file create;
# allow $1 proc_t:file create;
# allow $1 proc_t:dir { add_name write };
#')

########################################
## <summary>
## Allow caller to create open write /tmp/fpga_upgrade
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_fpga_upgrade_tmp_use',
    gen_require('polaris_fpga_upgrade_tmp_t;
    )
    allow $1 polaris_fpga_upgrade_tmp_t:file { create open write };
')

########################################
## <summary>
## Execute a domain transition to run cat9k_ssd_unmount.sh
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_ssd_unmount_domtrans',
    gen_require('polaris_ssd_unmount_t, polaris_ssd_unmount_exec_t;
    ')
    domtrans_pattern($1, polaris_ssd_unmount_exec_t, polaris_ssd_unmount_t)
### <summary>
## Read lnk_file /ucode0, polaris_disk_ucode0_t.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_disk_ucode0_read_lnk',
  gen_require(`
    type polaris_disk_ucode0_t;
  ')
  read_lnk_files_pattern($1, polaris_disk_ucode0_t, polaris_disk_ucode0_t)
')

### <summary>
## Work (read, write, ioctl) with /dev/cisco/fpgaiomem
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_fpga_iomem_mmapfpga_dev_use',
  gen_require(`
    type device_t;
    type polaris_fpga_iomem_mmapfpga_device_t;
  ')
  allow $1 polaris_fpga_iomem_mmapfpga_device_t:chr_file map;
    write_chr_files_pattern($1, device_t, polaris_fpga_iomem_mmapfpga_device_t)
    read_chr_files_pattern($1, device_t, polaris_fpga_iomem_mmapfpga_device_t)
')

### <summary>
## Read Write access to /bootflash/nplusm-power
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
#
interface('polaris_nplusm_power_manage',
    gen_require(
        type polaris_nplusm_power_file_t;
        type polaris_disk_bootflash_t;
    )
    filetrans_pattern($1, polaris_disk_bootflash_t, polaris_nplusm_power_file_t, file, "nplusm-power")
    allow $1 polaris_nplusm_power_file_t:file { write create read open getattr unlink };
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwc.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
/usr/binos/conf/boothelper_evt.sh -- gen_context(system_u:object_r:polaris_boothelper_evt_exec_t,s0)
/tmp/udev(/.*)?                     gen_context(system_u:object_r:polaris_udev_tmp_files_t,s0)

/tmp/rommon_upgrade_ngwc(/.*)?     gen_context(system_u:object_r:polaris_boothelper_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisboothelper.fc
No license file was found, but licenses were detected in source scan.

#
# December 2018, Victor Kamensky
#
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#
## <summary>Polaris ezman_cc Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisezmancc.if
No license file was found, but licenses were detected in source scan.

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dnl
define('polaris_lipc_service_server',"")
define('polaris_lipc_service_client',"")

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_lipc_fc.m4
No license file was found, but licenses were detected in source scan.

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#

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgrmgr.fc
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
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#

/usr/bin/os/conf/install_issu_monitor.sh -- gen_context(system_u:object_r:polaris_issu_monitor_exec_t,s0)
/tmp/rp/issu_mon_dir -d gen_context(system_u:object_r:polaris_issu_monitor_tmp_t,s0)

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisissumonitor.fc
No license file was found, but licenses were detected in source scan.

#
# March 2019, Shikhar Dogra
#
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#

## <summary>Polaris fman_cc Policy Rules.</summary>

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfmancc.if
No license file was found, but licenses were detected in source scan.

#
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#

### <summary>Polaris smand Policy Rules.</summary>

```
# Allow domain to be started by smand with
# transition into specific service domain.
#
### <param name="domain">
### <summary>
### Type to be used to run utility.
### </summary>
### </param>
### <param name="entry_point">
### <summary>
### Type of the program to be used as an entry point to this domain.
### </summary>
### </param>
interface('polaris_smand_domain',
  gen_require(
  type polaris_smand_t;
  ')
)

domtrans_pattern(polaris_smand_t, $2, $1)
')
```

```
# Write into fifo file created by smand, typical case when
# smand starts script under popen.
#
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
### <rolecap/>
#
interface('polaris_smand_use_fifo',
  gen_require(
  type polaris_smand_t;
  ')
)
write_fifo_files_pattern($1, polaris_smand_t, polaris_smand_t)
```
## <summary>
##     Read access to CRDU fifo file created by smand
## </summary>
## <param name="domain">
##     <summary>
##     Domain allowed access.
##     </summary>
## </param>

interface('polaris_smand_crdu_pipe_read',
    gen_require(''
        type polaris_crdu_pipe_tmp_t;
    ')
    read_fifo_files_pattern($1, polaris_crdu_pipe_tmp_t, polaris_crdu_pipe_tmp_t)
')

## <summary>
##     Manage CRDU fifo file created by smand
## </summary>
## <param name="domain">
##     <summary>
##     Domain allowed access.
##     </summary>
## </param>

interface('polaris_smand_crdu_pipe_manage',
    gen_require(''
        type polaris_crdu_pipe_tmp_t;
    ')
    manage_fifo_files_pattern($1, polaris_crdu_pipe_tmp_t, polaris_crdu_pipe_tmp_t)
')

## <summary>
##      Write to polaris_sman_bshell_serv_lipc_t
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to connect and write into this lipc file.
##      </summary>
## </param>
# interface(`polaris_sman_bshell_serv_lipc_write',
    gen_require('  
        type polaris_sman_bshell_serv_lipc_t;
        type polaris_smand_t;
    ')
    polaris_lipc_write($1, polaris_sman_bshell_serv_lipc_t, polaris_smand_t)
')

#######################################
## <summary>
##   Manage /tmp/show_ports_tmp
## </summary>
## <param name="domain">
##   <summary>
##      Domain allowed to manage tmp files.
##   </summary>
## </param>
## <rolecap/>
interface(`polaris_trans_ports_tmp_manage',
    gen_require('  
        type polaris_trans_stats_tmp_t;
    ')
    manage_files_pattern($1, polaris_trans_ports_tmp_t, polaris_trans_ports_tmp_t)
')

#######################################
## <summary>
##   create /tmp/trans_tmp and /tmp/trans_tmp.1 to store lsof output
## </summary>
## <param name="domain">
##   <summary>
##      Domain allowed to manage tmp files.
##   </summary>
## </param>
## <rolecap/>
interface(`polaris_trans_stats_tmp_manage',
    gen_require('  
        type polaris_trans_stats_tmp_t;
    ')
    manage_files_pattern($1, polaris_trans_stats_tmp_t, polaris_trans_stats_tmp_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissmand.if
No license file was found, but licenses were detected in source scan.
/usr/cpp/bin/cpp_cdm_svr -- gen_context(system_u:object_r:polaris_cpp_cdm_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppcdm.fc
No license file was found, but licenses were detected in source scan.

### <summary>Polaris Flashlib Policy Rules.</summary>

```c
# Flashlib policy (infra/flashlib)

### Read Polaris /tmp/.flashlock file
### </summary>
### <param name="domain">
### </param>

# interface('polaris_flashlib_lock',
    gen_require(
        type tmp_t;
        type polaris_flashlib_lock_t;
    )

    manage_files_pattern($1, tmp_t, polaris_flashlib_lock_t)
    allow $1 self:capability dac_override;

    ifdef('quake_platform',
        polaris_quake_flashlib_sem_use($1)
    )
# access of .flashlock on ultra
```
ifdef(`vxe_family`,
    allow $1 self:capability dac_override;
')
')

########################################
## <summary>
##	Write Polaris /tmp/flashdev.log file
## </summary>
##<param name="domain">
##<summary>
##	Domain allowed access.
##</summary>
## </param>
#
interface(`polaris_flashlib_log`,
    gen_require(`
        type tmp_t;
        type polaris_flashlib_log_t;
    `)

    manage_files_pattern($1, tmp_t, polaris_flashlib_log_t)
')

########################################
## <summary>
##	Read partition disk device that contains rommon variables.
##      C8KV reads object store and reads grub files in BIOS and EFI partitions.
## </summary>
##<param name="domain">
##<summary>
##	Domain allowed access.
##</summary>
## </param>
#
interface(`polaris_flashlib_read`,
    gen_require(`
        type device_t;
        type polaris_flashlib_device_t;
    `)
polaris_flashlib_lock($1)
polaris_flashlib_log($1)
read_blk_files_pattern($1, device_t, polaris_flashlib_device_t)
read_chr_files_pattern($1, device_t, polarisFlashlib_device_t)
ifdef(`vxe_family`,
    polaris_vxeinstall_info_read($1)
polaris_grub_info_read($1)
')
ifdef(`vwlc_platform',`
polaris_vwlccinstall_info_read($1)
polaris_vwlcc_grub_info_read($1)
`
')

# processes that use tdlllib/DB will access romvar
# via flashlib mcp_getmonvar API which read /objstore.
optional_policy(`
    polaris_disk_objstore_read($1)
')
polaris_flash_shm_manage($1)
')

########################################
## <summary>
##	Write partition disk device that contains rommon variables.
## </summary>
## <param name="domain">
##<summary>
##	Domain allowed access.
## </summary>
## </param>
#
interface(`polaris_flashlib_write',`
gen_require(`
type device_t;
type polaris_flashlib_device_t;
`)
polaris_flashlib_lock($1)
write_blk_files_pattern($1, device_t, polaris_flashlib_device_t)
polaris_flash_shm_manage($1)
')

########################################
## <summary>
##	Manage ngwc shared memory /dev/shm/flash_shm.
## </summary>
## <param name="domain">
##	Domain allowed access.
## </param>
#
interface(`polaris_flash_shm_manage',`
gen_require(`
type tmpfs_t;
type polaris_flash_shm_t;
')
fs_getattr_tmpfs($1)
manage_files_pattern($1, tmpfs_t, polaris_flash_shm_t)
allow $1 polaris_flash_shm_t:file map;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisflashlib.if
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#
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#
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#

## <summary>Polaris LUA Policy Rules.</summary>

# Lua policy
# # Lua policy

############################################
## <summary>
##	Read Polaris lua files (/lua)
## </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### <param>
#
interface(`polaris_lua_read',
gen_require(`
type polaris_lua_file_t;
')
allow $1 polaris_lua_file_t:file read_file_perms;
allow $1 polaris_lua_file_t:dir { read_file_perms search_dir_perms };
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislua.if
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
## <summary>Polaris tamd_rp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristamdrp.if

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#
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#

## <summary>Polaris polarisiptbl Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiptbl.if

No license file was found, but licenses were detected in source scan.

#
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#
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#

# autopolarisplatformipbase file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/autopolarisplatformipbase.fc

No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
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#

policy_module(polarisdmiportsfetch, 1.0);

gen_require(
    type polaris_dmi_ports_fetch_t;

policy_module(polarisngwcfeddebug, 1.0);

gen_require(
    type polaris_ngwc_fed_debug_mgr_t;
)

polaris_bootflash_manage(polaris_ngwc_fed_debug_mgr_t)
polaris_btrace_data_manage(polaris_ngwc_fed_debug_mgr_t)
polaris_cpld_read(polaris_ngwc_fed_debug_mgr_t)
polaris_flashlib_read(polaris_ngwc_fed_debug_mgr_t)
polaris_chasfs_read(polaris_ngwc_fed_debug_mgr_t)
polaris_tdlresolve_read(polaris_ngwc_fed_debug_mgr_t)
polaris_disk_bootflash_read_lnk(polaris_ngwc_fed_debug_mgr_t)
polaris_dmammap_dev_use(polaris_ngwc_fed_debug_mgr_t)
polaris_chdrvmmap_dev_use(polaris_ngwc_fed_debug_mgr_t)
polaris_dplr_iomem_mmapdrv_dev_use(polaris_ngwc_fed_debug_mgr_t)

# opens /proc/pid/net/dev
kernel_read_network_state(polaris_ngwc_fed_debug_mgr_t)

# calls tcpdump, let it run in its own domain
netutils_domtrans(polaris_ngwc_fed_debug_mgr_t)

# calls system function
corecmd_exec_shell(polaris_ngwc_fed_debug_mgr_t)

# calls lspci and other utilities
corecmd_exec_bin(polaris_ngwc_fed_debug_mgr_t)

auth_use_nsswitch(polaris_ngwc_fed_debug_mgr_t)
# lspci needs sysfs access
dev_list_sysfs(polaris_ngwc_fed_debug_mgr_t)
dev_read_sysfs(polaris_ngwc_fed_debug_mgr_t)

# dope.py /tmp/idope_svr, /tmp/shfwd_svr socket files
type polaris_fed_debug_sock_t;
files_tmp_file(polaris_fed_debug_sock_t)

files_tmp_filetrans(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_sock_t, sock_file, "idope_svr")
files_tmp_filetrans(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_sock_t, sock_file, "shfwd_svr")

gen_require(
    type tmp_t;
)
manage_sock_files_pattern(polaris_ngwc_fed_debug_mgr_t, tmp_t, polaris_fed_debug_sock_t)

# allow show-forward to use following temp files in /tmp dir
type polaris_fed_debug_tmp_t;
files_tmp_file(polaris_fed_debug_tmp_t)
files_tmp_filetrans(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_tmp_t, file, "pktgen.txt")
files_tmp_filetrans(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_tmp_t, file, "DopeElam.sh")
files_tmp_filetrans(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_tmp_t, file, "MemDumpElam.sh")
gen_require(
    type tmp_t;
)
manage_files_pattern(polaris_ngwc_fed_debug_mgr_t, { tmp_t polaris_fed_debug_tmp_t}, polaris_fed_debug_tmp_t)

# talk to fed over unix sockets
polaris_fed_sock_write(polaris_ngwc_fed_debug_mgr_t)

# /dcmlog.txt
type polaris_fed_debug_dcmlog_t;
files_type(polaris_fed_debug_dcmlog_t)
gen_require(
    type root_t;
)
filetrans_pattern(polaris_ngwc_fed_debug_mgr_t, root_t, polaris_fed_debug_dcmlog_t, file, "dcmlog.txt")
manage_files_pattern(polaris_ngwc_fed_debug_mgr_t, root_t, polaris_fed_debug_dcmlog_t)

# dope.py listens on port 12255
corenet_tcp_bind_generic_node(polaris_ngwc_fed_debug_mgr_t)
allow polaris_ngwc_fed_debug_mgr_t self:tcp_socket { setattr setopt ioctl getopt bind create listen accept connect read write };
corenet_tcp_bind_polaris_fed_debug_trace_rpc_port(polaris_ngwc_fed_debug_mgr_t)
corenet_tcp_connect_polaris_fed_debug_trace_rpc_port(polaris_ngwc_fed_debug_mgr_t)

# dope.py listens on port 5389 for shfwd commands
corenet_tcp_bind_polaris_fed_debug_shfwd_command_port(polaris_ngwc_fed_debug_mgr_t)

# LOOK AT ME: /dev/mem access restriction remove after fix for CSCvm07702 is
# committed.
ifdef(`nyquist_platform',`
polaris_dev_mem_use(polaris_ngwc_fed_debug_mgr_t)
')
ifdef(`starfleet_platform',`
polaris_dev_mem_use(polaris_ngwc_fed_debug_mgr_t)
')
ifdef(`quake_platform',`
polaris_dev_mem_use(polaris_ngwc_fed_debug_mgr_t)
')

# /tmp/asic_config.pickle file access
type polaris_fed_debug_asic_config_t;
files_tmp_file(polaris_fed_debug_asic_config_t);
files_tmp_filetrans(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_asic_config_t, file, "asic_config.pickle")
gen_require(`
  type tmp_t;
')
manage_files_pattern(polaris_ngwc_fed_debug_mgr_t, tmp_t, polaris_fed_debug_asic_config_t)

# dope.py invokes scapy.py for DP trace which needs to create socket to seek
# interface info via ioctl ifreq
allow polaris_ngwc_fed_debug_mgr_t self:udp_socket { create ioctl }

# /tmp/rdope_ffi handle directory where libffi will create file with execute
# mapping. Files system should be executable and /tmp so far is. Note TMPDIR
# environment variable is the first choice where to create libffi executable
# mapped files.
type polaris_fed_debug_ffi_t;
files_tmp_file(polaris_fed_debug_ffi_t);
files_tmp_filetrans(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_ffi_t, dir, "rdope_ffi")
gen_require(`
  type tmp_t;
')
manage_dirs_pattern(polaris_ngwc_fed_debug_mgr_t, tmp_t, polaris_fed_debug_ffi_t)
manage_files_pattern(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_ffi_t, polaris_fed_debug_ffi_t)
allow polaris_ngwc_fed_debug_mgr_t polaris_fed_debug_ffi_t:file { execute map }

# allow to read /proc/mtd called from mcp_getmonvar
kernel_read_system_state(polaris_ngwc_fed_debug_mgr_t)

polaris_remap_mem_dev_use(polaris_ngwc_fed_debug_mgr_t)

allow polaris_ngwc_fed_debug_mgr_t self:capability sys_resource;
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 April 2018, Victor Kamensky
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 Process Names Map
define('process_map', `defn(format(``process_map[%s]'', `$1')))
define('process_map_set', `define(format(``process_map[%s]'', `$1'), `$2')`)

Process Names and Labels
define('process_short_name', `patsubst($1, `^BPROC_', `')
define('process_default_stem', `translit(process_short_name($1), `A-Z', `a-z')`
define('process_stem', `ifelse(process_map(process_short_name($1)), `', process_default_stem($1),
process_map(process_short_name($1)))`)
define('process_label', `format(`polaris_%s_t', process_stem($1))`)
define('process_exec_label', `format(`polaris_%s_exec_t', process_stem($1))`)

Process Type Map: track that type declations unique
define('process_type_map', `defn(format(``process_type_map[%s]', `$1')))
define('process_type_map_set', `define(format(``process_type_map[%s]', `$1'), `$2')`)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_process.m4
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dnl
process_map_set(AUTO_UPGRADE_CLIENT_RP, autoupgrade)
process_map_set(BSM_RP, bsm)
process_map_set(BTM_CC, btman)
process_map_set(BTM_FP, btman)
process_map_set(BTM_RP, btman)
process_map_set(BTM_BP, btman)
process_map_set(CCD_RP, caf)
process_map_set(DMI_CONFD, confd)
process_map_set(DMI_PTTCD, pttcd)
process_map_set(SDWAN_CONFD, confd)
process_map_set(EMD_CC, emd)
process_map_set(EMD_FP, emd)
process_map_set(EMD_RP, emd)
process_map_set(FCD_RP, flashcheck)
process_map_set(FM_FP, fman_fp)
process_map_set(FM_CC, fman_cc)
process_map_set(FM_RP, fman_rp)
process_map_set(HM_CC, hm)
process_map_set(HM_FP, hm)
process_map_set(HM_RP, hm)
process_map_set(IOMD_CC, iomd)
process_map_set(IOSD_CC, iosd)
process_map_set(IOSD_RP, iosd)
process_map_set(IOSD_BP, iosd)
process_map_set(IOXM_RP, ioxman)
process_map_set(ISSU_STK, issu_stack)
process_map_set(LM_RP, lm)
process_map_set(MAINT_RP, periodic)
process_map_set(PLOGD_CC, plogd)
process_map_set(PLOGD_FP, plogd)
process_map_set(PLOGD_RP, plogd)
process_map_set(REPM_RP, repm)
process_map_set(SERVICE_MGR_RP, service_mgr)
process_map_set(SERVICE_MGR_FP, service_mgr)
process_map_set(SM, smand)
process_map_set(SORT_RP, sort_files)
process_map_set(VMAN_RP, vman)
process_map_set(POLJVM, jvm)
process_map_set(CLUSTERMGR, clustermgr)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/processmap.m4

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dnl
divert(-1)

include('polaris_process.m4')

include('polaris_database_db.m4')
include('polaris_database_db_if.m4')

include('polaris_max_scope.m4')
divert(0)dnl
#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#
## <summary>Polaris Platform DB Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_database_if.m4
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dnl VXE Platform Max Bay Limits
def max_bay_map_set(par, per_bay, 0)
def max_bay_map_set(cc, per_bay, 0)
def max_bay_map_set(fp, per_bay, 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/vxemaps.m4
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#
# January 2021, Gabriel Lee, Shawn Liu
#
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#

/ezManage_v1/ezManage_sms_handler.py -- gen_context(system_u:object_r:polaris_ezmanage_exec_t,s0)

/ezManage_v1(/.*)? -- gen_context(system_u:object_r:polaris_ezmanage_file_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisezmanage.fc
No license file was found, but licenses were detected in source scan.

#
# April 2017, Victor Kamensky
#
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#
## <summary>Polaris dmi_vtyserverutild Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmivtyserverutild.if

No license file was found, but licenses were detected in source scan.

#
# August 2017, Victor Kamensky
#
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#
#
# polarisbsm file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbsm.fc

No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
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#
#
## <summary>Polaris dmi_ports_fetch Policy Rules.</summary>

################################
## <summary>
##     Work with /bootflash/sdavc
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_sdavc_proxy_manage',
    gen_require(
        type polaris_sdavc_proxy_files_t;
    )
    manage_files_pattern($1, polaris_sdavc_proxy_files_t, polaris_sdavc_proxy_files_t)
    manage_dirs_pattern($1, polaris_sdavc_proxy_files_t, polaris_sdavc_proxy_files_t)
    )

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisssdacproxy.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
#/usr/binos/bin/cman_fp_ledp -- gen_context(system_u:object_r:polaris_cm_fp_exec_t,s0)
#/usr/binos/bin/cman_fp_us_ledp -- gen_context(system_u:object_r:polaris_cm_fp_exec_t,s0)
#/usr/binos/bin/cman_fp_vwlc -- gen_context(system_u:object_r:polaris_cm_fp_exec_t,s0)
#/usr/binos/bin/cman_fp_vwlc_ledp -- gen_context(system_u:object_r:polaris_cm_fp_exec_t,s0)
#/usr/binos/bin/cman_fp_sumatra_ledp -- gen_context(system_u:object_r:polaris_cm_fp_exec_t,s0)
#/usr/binos/conf/mcp_pcie_status_cmd.sh -- gen_context(system_u:object_r:polaris_pcie_status_cmd_exec_t,s0)
#/dev/hkp -c gen_context(system_u:object_r:polaris_hkp_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmfp.fc

No license file was found, but licenses were detected in source scan.

#
# June 2020, Manu Roy
#
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#
#/bootflash labels

/bootflash(/.*)? gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/bootflash/ssh(/.*)? gen_context(system_u:object_r:ssh_home_t,s0)
/bootflash/ssh/ssh_host.*_key\.* pub gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/ssh/ssh_host.*_key gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/core(/.*)? gen_context(system_u:object_r:polaris_core_file_t,s0)

# /flash is symbolic link /flash10/USER
-flash gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

###flash1

###flash1(/.*)? gen_context(system_u:object_r:polaris_disk_crashinfo_t,s0)
###flash1/CRASH(/.*)? gen_context(system_u:object_r:polaris_disk_crashinfo_t,s0)
###flash1/CRASH/tracelogs(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
###flash7(/.*)? gen_context(system_u:object_r:polaris_disk_license_t,s0)
###flash8(/.*)? gen_context(system_u:object_r:polaris_disk_license_t,s0)
###flash9(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t,s0)
# /flash10
# USER is a reserved selinux keyword - escape it like this
'/flash10(/.*)?' gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
'/flash10/USE[R]/*' gen_context(system_u:object_r:polaris_core_file_t,s0)
'/flash10/USE[R]/*' gen_context(system_u:object_r:polaris_nvram_file_t,s0)
'/flash10/USER/ssh/ssh_host_rsa_key -- gen_context(system_u:object_r:sshd_key_t,s0)

# sdflash
/dev/mmcblk1p1 -b gen_context(system_u:object_r:polaris_iots_swipemount_device_t,s0)
/dev/sdflash gen_context(system_u:object_r:polaris_iots_swipemount_file_t,s0)
/sdflash gen_context(system_u:object_r:polaris_iots_swipemount_file_t,s0)

# DMA ASIC driver
/dev/mvDmaDrv gen_context(system_u:object_r:polaris_iots_mvDmaDrv_device_t,s0)
/dev/mvIntDrv gen_context(system_u:object_r:polaris_iots_mvIntDrv_device_t,s0)

# /crashinfo is symbolic link to /mnt/sd1 created by systemd-tmpfiles
/crashinfo gen_context(system_u:object_r:polaris_disk_crashinfo_t,s0)

# /dev
/dev/petra-fpga -c gen_context(system_u:object_r:polaris_iots_fpga_device_t,s0)
/dev/petra-zyq-ps-gpio -c gen_context(system_u:object_r:polaris_iots_fpga_device_t,s0)
/dev/petra-gpio-pc3 -c gen_context(system_u:object_r:polaris_iots_fpga_device_t,s0)
#Line card fpga driver for mmap
/dev/petra-lc-fpga -c gen_context(system_u:object_r:polaris_iots_fpga_device_t,s0)

#memory devices
/dev/tm -c gen_context(system_u:object_r:polaris_iots_tm_device_t,s0)
/dev/hcam -c gen_context(system_u:object_r:polaris_iots_tm_device_t,s0)
#vlan-virtual ethernet
/dev/petra-kport -c gen_context(system_u:object_r:polaris_iots_tm_device_t,s0)

/tmp/udev/etc/udev/sdflash/udev-info gen_context(system_u:object_r:polaris_udev_tmp_files_t,s0)

# hellcat
/dev/spidev0.0 -c gen_context(system_u:object_r:polaris_iots_led_device_t,s0)
/dev/spidev0.1 -c gen_context(system_u:object_r:polaris_iots_led_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiotswitch.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
policy_module(polarisngwcFed, 1.0);

gen_require(
    type polaris_ngwc_fed_t;
)

polaris_btrace_data_manage(polaris_ngwc_fed_t)
polaris_chasfs_manage(polaris_ngwc_fed_t)
polaris_tdlresolve_read(polaris_ngwc_fed_t)
polaris_tdlldb_list_dirs(polaris_ngwc_fed_t)
polaris_lua_read(polaris_ngwc_fed_t)
polaris_flashlib_read(polaris_ngwc_fed_t)
polaris_chasync_files_manage(polaris_ngwc_fed_t)

# LOOK AT ME: system() call restriction remove after
# CSCv19282 is fixed using CSCv19287.
#
# fed executes cp_trace_request.sh when a sv stack split occurs.
# cp_trace_request.sh does source of pglobals.sh which requires the
# access of /crashinfo.

polaris_disk_crashinfo_getattr(polaris_ngwc_fed_t)
polaris_ripc_sman_ui_serv_connect(polaris_ngwc_fed_t)
polaris_db_tdlldb_dir_use(polaris_ngwc_fed_t)
corecmd_exec_bin(polaris_ngwc_fed_t)
corecmd_exec_shell(polaris_ngwc_fed_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_ngwc_fed_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_ngwc_fed_t)

# allow read/write to /proc/irq/N/irq files
kernel_rw_irq_sysctls(polaris_ngwc_fed_t)
polaris_obfl_data_manage(polaris_ngwc_fed_t)
polaris_lsmpi_dev_use(polaris_ngwc_fed_t)

allow polaris_ngwc_fed_t self:capability { sys_rawio dac_override ipc_owner sys_nice ipc_lock };
allow polaris_ngwc_fed_t self:capability2 block_suspend;
polaris_dyncfg_tmp_read(polaris_ngwc_fed_t)
optional_policy(
    polaris_ngwc_shm_manage(polaris_ngwc_fed_t)  
)

optional_policy(
    polaris_ngwc_scc_shm_manage(polaris_ngwc_fed_t)  
)

# cpp bleeds into switching platforms through fman_fp and fed  
# apparently even on nyquist fed creates /tmp/cpp_anon_db
polaris_cpp_process(polaris_ngwc_fed_t)  
polaris_cpp_tmp_files_use(polaris_ngwc_fed_t)

optional_policy(
    # /dev/dplr_intrpt usage
    polaris_dplr_dev_use(polaris_ngwc_fed_t)
)

    # /dev/dmammap usage
    polaris_dmammap_dev_use(polaris_ngwc_fed_t)

    # /dev/remap_mem0 usage
    polaris_remap_mem_dev_use(polaris_ngwc_fed_t)

    # /dev/cli2xcvr_pipe and /dev/xcvr2cli_pipe
    type polaris_fed_xcvr_pipe_t;
    files_type(polaris_fed_xcvr_pipe_t)
    dev_associate(polaris_fed_xcvr_pipe_t)
    gen_require(
        type device_t;
    )
    filetrans_pattern(polaris_ngwc_fed_t, device_t, polaris_fed_xcvr_pipe_t, fifo_file, "cli2xcvr_pipe")
    filetrans_pattern(polaris_ngwc_fed_t, device_t, polaris_fed_xcvr_pipe_t, fifo_file, "xcvr2cli_pipe")
    manage_fifo_files_pattern(polaris_ngwc_fed_t, device_t, polaris_fed_xcvr_pipe_t)

    polaris_disk_bootflash_search(polaris_ngwc_fed_t)

    allow polaris_ngwc_fed_t self:process setsched;

    # work with /dev/msi/Slot0/Doppler0/GroupN files
    dev_rw_generic_chr_files(polaris_ngwc_fed_t)

    # read /sys/devices/system/cpu/online
    dev_read_sysfs(polaris_ngwc_fed_t)

    # bind to shfwd port
    corenet_udp_bind_polaris_ngwc_fed_shfwd_port(polaris_ngwc_fed_t)
# connect to shfwd port
corenetsctpconnectpolaris_fed_debug_shfwd_command_port(polaris_ngwc_fed_t)

# creates and write /flash/shfwd_params.txt file
polarisbootflashmanagem(polaris_ngwc_fed_t)

# use polaris_ngwc_fed_t as syslog_client_type
logging_sendsyslogmsg(polaris_ngwc_fed_t)

# bind to dbgmn port
corenetsudpbindpolaris_ngwc_fed_dbgmn_port(polaris_ngwc_fed_t)
corenetsudpbindgenericnode(polaris_ngwc_fed_t)
allowpolaris_ngwc_fed_tself:udp_socket{bindcreategetopt};

optional_policy(
  # on macallan cman_fp needs access to /dev/cisco/dplrilmem
  # for mapping dplr io memory to application space.
polaris_dplr_iomem_mmapdrv_dev_use(polaris_ngwc_fed_t);
')

# On Macallan as part of doppler sdk_asic_init(), a
# rw call is made to /dev/cpld
polaris_cpld_dev_use(polaris_ngwc_fed_t)
polaris_cpld_read(polaris_ngwc_fed_t)
#ptp_init_systemclock() called during fed process init writes
# /sys/devices/platform/cpld/reg_doppe_1588_sync
polaris_cpld_write(polaris_ngwc_fed_t)

optional_policy(
  # In Macallan cards which use Doppler ASIC,
  # ngmod_doppler_mmap() api is called to get hold of
  # MMapped Asic address. As part of the operation it uses
  # /dev/chdrvnmmap device.
polaris_chdrvnmmap_dev_use(polaris_ngwc_fed_t)
')

# LOOK AT ME: /dev/mem access restriction remove after
# CSCvk00737 is fixed using CSCvk00741
ifdef(‘nyquist_platform’,
polaris_dev_mem_use(polaris_ngwc_fed_t)
')

# LOOK AT ME: /dev/mem access restriction remove after
# CSCvm34589 is fixed using CSCvm34617
ifdef(‘starfleet_platform’,


polaris_dev_mem_use(polaris_ngwc_fed_t)

# LOOK AT ME: /dev/mem access restriction remove after
# CSCvn64182 is fixed using CSCvn64184
ifdef(`quake_platform'`
    polaris_dev_mem_use(polaris_ngwc_fed_t)
')

ifdef(`sumatra_platform';
# LOOK AT ME: After direct usage of /dev/mem is removed (CSCvw80796)
polaris_dev_mem_use(polaris_ngwc_fed_t)
polaris_sumatra_doppler_dev_use(polaris_ngwc_fed_t)
')

# LOOK AT ME: /dev/mem access restriction remove after
# CSCvn08008 is fixed using CSCvn08019.
# FED accesses raw memory (/dev/mem) for sending/receiving OOB
# traffic on an FSS interface.
ifdef(`passport_platform';
polaris_dev_mem_use(polaris_ngwc_fed_t)
')

# Entropy number is read from ACT2 and stored in /tmp/hw_entropy
# Allow sesa library read from /tmp/hw_entropy to update random
# number seed.
polaris_hw_entropy_read(polaris_ngwc_fed_t)

# fed is server for /tmp/dbgmn_log_svr socket file
type polaris_fed_sock_t;
files_tmp_file(polaris_fed_sock_t)

files_tmp_filetrans(polaris_ngwc_fed_t, polaris_fed_sock_t, sock_file, "dbgmn_log_svr")

gen_require`
    type tmp_t;
')
manage_sock_files_pattern(polaris_ngwc_fed_t, tmp_t, polaris_fed_sock_t)

optional_policy`
    # talk to rdope.sh over unix sockets
    polaris_fed_debug_sock_write(polaris_ngwc_fed_t)
')

# /dev/shm/sdm access
optional_policy`
    polaris_sdm_shm_manage(polaris_ngwc_fed_t)
# creates few files under /tmp/installer (e.g like 
# /tmp/installer/phy_shannon_ver_1) to indicate current h/w conditions
polaris_install_tmp_manager(polaris_ngwc_fed_t)

# communication between the nif manager and fed use directories under /tmp/sv
polaris_sv_tmp_use(polaris_ngwc_fed_t)

optional_policy(
    polaris_quake_i2c_manage(polaris_ngwc_fed_t)
)

# work with /tmp files (/tmp/fed_post_results)
type polaris_fed_tmp_t;
files_tmp_file(polaris_fed_tmp_t)
files_tmp_filetrans(polaris_ngwc_fed_t, polaris_fed_tmp_t, file, "fed_post_result")
files_tmp_filetrans(polaris_ngwc_fed_t, polaris_fed_tmp_t, dir, "test_mrvlphy")
manage_files_pattern(polaris_ngwc_fed_t, polaris_fed_tmp_t, polaris_fed_tmp_t)
manage_dirs_pattern(polaris_ngwc_fed_t, polaris_fed_tmp_t, polaris_fed_tmp_t)
manage_fifo_files_pattern(polaris_ngwc_fed_t, polaris_fed_tmp_t, polaris_fed_tmp_t)
polaris_cm_rp_tmp_manager(polaris_ngwc_fed_t)

# Allow write to flash. Needed for template support.
polaris_flashlib_write(polaris_ngwc_fed_t)

# CSCvo78054 will be used to fix fed policies on crankshaft properly. 
# Below policy is just to unblock Nightwatch boot issue on ISR in 
# enforcing mode.
ifdef("crankshaft_family");
# ISR Nightwatch module accesses libraries compiled with icc
polaris_icc_broken_relocations(polaris_ngwc_fed_t)

#ISR Nightwatch module creates softlink /flash -> /bootflash
gen_require(
    type root_t;
    )
filetrans_pattern(polaris_ngwc_fed_t, root_t, polaris_disk_bootflash_t, lnk_file, "flash")

optional_policy(
polaris_epc_ws_liaison_tmp_read(polaris_ngwc_fed_t)
)

# ngwc-fed manage /tmp/epc_ws/fed_to_wif_pipe file fifo_file.
optional_policy(
polaris_epc_ws_liaison_fifo_manage(polaris_ngwc_fed_t)
)
optional_policy('polaris_ngwc_itfpo_manage(polaris_ngwc_fed_t)')

# access SERDES /tmp/serdes ASIC key dir/
optional_policy('polaris_serdes ASIC key tmp manage(polaris_ngwc_fed_t)')

# ngwc-fed creates /tmp/epc ws dir
optional_policy('polaris_epc ws liaison tmp file(polaris_ngwc_fed_t)')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwcfed.te
No license file was found, but licenses were detected in source scan.

#
# April 2017, Victor Kamensky
#
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#
/usr/bin/os/sbin/ncsshd -- gen_context(system_u:object_r:polaris_dmi ncsshd mgmt_exec_t,s0)
/var/run/ncsshd_mgmt.pid -- gen_context(system_u:object_r:polaris_dmi ncsshd mgmt_var_run_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmincsshdmgmt.fc
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
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#
/usr/bin/os/conf/mcp_smartctl_cmds.sh -- gen_context(system_u:object_r:polaris smartctl exec_t,s0)
/tmp/smart.pid -- gen_context(system_u:object_r:polaris smartctl tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngiolite.fc
No license file was found, but licenses were detected in source scan.

# 
# May 2017, Victor Kamensky 
# 
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#

/tmp/tmppub/interceptor(/.*)? gen_context(system_u:object_r:polaris_pttcd_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispttcd.fc
No license file was found, but licenses were detected in source scan.

# 
# March 2017, Victor Kamensky 
# 
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#

## <summary>Polaris Cfg Policy Rules.</summary>

################################################################################
# Cfg files policy
################################################################################

#######################################
## <summary>
##      Manage cfg files (under /tmp/sw/cfg)
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface('polaris_cfg_data_manage',
  gen_require(''
    type polaris_cfg_data_t;
  ')
  manage_dirs_pattern($1, polaris_cfg_data_t, polaris_cfg_data_t)
  manage_files_pattern($1, polaris_cfg_data_t, polaris_cfg_data_t)
  manage_lnk_files_pattern($1, polaris_cfg_data_t, polaris_cfg_data_t)
)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscfg.if
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
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#

policy_module(polarisngiolite, 1.0);

gen_require('
  type polaris_ngiolite_t;
')

polaris_btrace_data_manage(polaris_ngiolite_t)
polaris_crft_data_manage(polaris_ngiolite_t)
polaris_chasfs_manage(polaris_ngiolite_t)
polaris_tdlresolve_read(polaris_ngiolite_t)
polaris_tdlldb_list_dirs(polaris_ngiolite_t)
polaris_cpld_read(polaris_ngiolite_t)
polaris_flashlib_read(polaris_ngiolite_t)

optional_policy('
polaris_cpp_tmp_ifdev_use(polaris_ngiolite_t)
')

# In the file of radium_xcvr.c allow access to create and bind
# the socket using the API bnxt_impl_init_netlink.
allow polaris_ngiolite_t self:netlink_generic_socket { bind create getattr setopt };

# in iot platforms, ngiolite needs access to /proc/sys/net/ipv6/conf/mvsw/disable_ipv6
optional_policy('
kernal_rwlock_sysctls(polaris_ngiolite_t)
kernal_search_network_sysctl(polaris_ngiolite_t)
')

# PLEASE LOOK AT code should not use sysv IPC ARIs,
# instead POSIX variants must be used. Remove after
# code changed in proper way
# allow access sysv semaphor created by qfp process
ifdef('crankshaft_family',
polaris_qfp_sem_use(polaris_ngiolite_t)
polaris_egpio_dev_read_write(polaris_ngiolite_t)
polaris_dplr_dev_use(polaris_ngiolite_t)
ifdef('fugazi_platform',
polaris_qfp_sem_use(polaris_ngiolite_t)
')

# write access to /sys/bus/pci/rescan
dev_rw_sysfs(polaris_ngiolite_t)
# LOOK AT ME ngiolite does it through "echo 1 > /sys/bus/pci/rescan" seems to much
# to grunt shell and bin access just to write "1" string into the file
corecmd_exec_bin(polaris_ngiolite_t)
corecmd_exec_shell(polaris_ngiolite_t)
# allow read of /etc/passwd
auth_use_nsswitch(polaris_ngiolite_t)
polaris_firmware_read(polaris_ngiolite_t)
polaris_udev_tmp_list_dirs(polaris_ngiolite_t)

# allow access to the file cman rommon file.
polaris_proc_rmonbifo_getattr(polaris_ngiolite_t)
polaris_proc_rmonbifo_read(polaris_ngiolite_t)

allow polaris_ngiolite_t self:capability { net_admin sys_rawio };

# allow system time capability to check for system timeout
# while checking the state using API cwan_modem_check_ready_state
allow polaris_ngiolite_t self:capability sys_time;

# allow access to nim_xxd file created by cmcc
polaris_nim_xxd_tmp_open_unlink(polaris_ngiolite_t);

# ngiolite needs to work with /dev/sd /dev/sg devices to figure out disk driver
# paramters. drivers/userspace/nim_xxd library
storage_raw_read_fixed_disk(polaris_ngiolite_t)
storage_read_scsi_generic(polaris_ngiolite_t)
storage_write_scsi_generic(polaris_ngiolite_t)
polaris_sysfs_platform_dev_use(polaris_ngiolite_t)

# LOOK AT ME: ngiolite needs to work with /dev/ds31408, which is generic device_t now
gen_require('type device_t;
')
rw_chr_files_pattern(polaris_ngiolite_t, device_t, device_t)

# modprobe nim_dm dm_drv_log_level=0x01
ifdef('crankshaft_family',
')
modutils_domtrans_insmod(polaris_ngiolite_t)
')

polaris_smartctl_domtrans(polaris_ngiolite_t)

# utah_fpge_driver.c needs socket to configure interface parameters
allow polaris_ngiolite_t self:udp_socket create_socket_perms;

polaris_utility_domain_template(smartctl)

corecmd_exec_bin(polaris_smartctl_t)
corecmd_exec_shell(polaris_smartctl_t)

# allow access to polaris_cpp_tmpfs_t file
# Example is ifdev shared memory /dev/shm/cpp_ifdev_shmem
# The ngiolite init function calls the api ifdev_init
# to initialize shared memory control info.
fs_getattr_tmpfs(polaris_ngiolite_t)
polaris_cpp_tmpfs_ifdev_rw(polaris_ngiolite_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_smartctl_t)

logging_send_syslog_msg(polaris_smartctl_t)

fstools_domtrans(polaris_smartctl_t)

# runs tar /bin/tar -xvzf /firmware/MicronP400m-MTFDDAK200MAN.pkg -C /firmware
polaris_firmware_manage(polaris_smartctl_t)
files_getattr_all_dirs(polaris_smartctl_t)
files_read_all_symlinks(polaris_smartctl_t)

# work with /dev/sgX
storage_read_scsi_generic(polaris_smartctl_t)
storage_write_scsi_generic(polaris_smartctl_t)

allow polaris_smartctl_t self:capability { chown dace override fowner fsetid };

type polaris_smartctl_tmp_t;
files_tmp_file(polaris_smartctl_tmp_t)
files_tmp_filetrans(polaris_smartctl_t, polaris_smartctl_tmp_t, file, "smart.pid")
manage_files_pattern(polaris_smartctl_t, polaris_smartctl_tmp_t, polaris_smartctl_tmp_t)

# script inherits stdout from ngiolite, needs permission to append to it
polaris_use_btrace_fifo(polaris_smartctl_t)

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCvh55517)
ifdef('crankshaft_family',
polaris_dev_mem_use(polaris_ngiolite_t)
')

ifdef('sparrow_platform',
polaris_cm_cc_tmpfs_manage(polaris_ngiolite_t)
polaris_tty_NMEA_dev_use(polaris_ngiolite_t)
')

ifdef('blackheart_platform',
polaris_cm_cc_tmpfs_manage(polaris_ngiolite_t)
')

ifdef('cabo_platform',
polaris_cm_cc_tmpfs_manage(polaris_ngiolite_t)
')

ifdef('aventus_platform',
polaris_cm_cc_tmpfs_manage(polaris_ngiolite_t)
polaris_tty_NMEA_dev_use(polaris_ngiolite_t)
')

ifdef('crankshaft_family',
# allow scan pci/devices proc dir
# The ngiolite init function makes call to o2_cvmx_remote_open to
# open the remote library connection to cavium chip in FFP.
# The octeon library call invokes pci_get_device, which needs to
# access /proc.
kernel_getattr_proc_files(polaris_ngiolite_t)
kern...
# RDM/Event thread needs to add a newly generated DM log file/ Crash dump file to/from bootflash directory
polaris_bootflash_manage(polaris_ngiolite_t)

# Modem Monitor thread uses sendto over a Datagram socket to send data to Turing Thread
allow polaris_ngiolite_t self:unix_dgram_socket sendto;

# Modem Monitor thread opens a socket to UDEV to process Modem USB addition/disconnection events
allow polaris_ngiolite_t self:netlink_kobject_uevent_socket create_socket_perms;

# Modem Monitor thread needs to be able to open/Read and GetAttributes to differentiate between Telit/SWI vendor
udev_rw_db(polaris_ngiolite_t)

# Turing thread needs to gather stats as well as set the IP address to /proc/net/cwan_modem0/cwan0/src_ip
kernel_search_network_state(polaris_ngiolite_t)
polaris_kernel_rw_network_state_files(polaris_ngiolite_t)

##########################################################
## CWAN NGIOLITE process policies end#####################
##########################################################
')

# on tsn need access to /sys/devices/platform/moka_fpga
# /sys/devices/platform/moka_fpga/external_int_pending dev
optional_policy(
  polaris_mokafpga_rw(polaris_ngiolite_t)
  )

# on radium need to get model info
optional_policy(
  polaris_dash_dev_use(polaris_ngiolite_t)
  )

# work with contdev sysfs files
polaris_contdev_dev_read(polaris_ngiolite_t)

sysnet_domtrans_ifconfig(polaris_ngiolite_t)

logging_send_syslog_msg(polaris_ngiolite_t)

ifdef(`neptune_platform',
  polaris_cpp_cavium_sdk_ipc_use(polaris_ngiolite_t)
  )

optional_policy(
  polaris_nim_dm_dev_use(polaris_ngiolite_t)
  )
ifdef(`radium_platform',`
#allow ngiolite to access nim_phy_device
polaris_nim_phy_dev_use(polaris_ngiolite_t)
')

# TODO/FIXME, Need to review this permission, this is related to
# the call "echo 1 > /sys/bus/pci/rescan"
dev_manage_sysfs_dirs(polaris_ngiolite_t)
allow polaris_ngiolite_t sysfs_t:file create;

# allow ngiolite to access sfp over i2c bus
polaris_i2c_use(polaris_ngiolite_t)

# on neptune, cavium library in o2_cavm_mem_map wants access to
# /sys/devices/pci0000:00/0000:00:01.0/0000:01:00.0/resource0
optional_policy(`
polaris_cpp_cavium_dma_map(polaris_ngiolite_t)
')

# /dev/sfp-ktr & qfp sem access on Katar
ifdef(`katar_platform',`
polaris_sfp_katar_dev_use(polaris_ngiolite_t)
polaris_qfp_sem_use(polaris_ngiolite_t)
fs_getattr_tmpfs(polaris_ngiolite_t)
polaris_cpp_tmpfs_ifdev_rw(polaris_ngiolite_t)
')

# allow /usr/binos/bin/ngiolite to access /tmp/nim_xxd_present
gen_require(`
    type polaris_cmrp_nim_xxd_tmp_t;
')
files_tmp_file(polaris_cmrp_nim_xxd_tmp_t)
files_tmp_filetrans(polaris_ngiolite_t, polaris_cmrp_nim_xxd_tmp_t, file, "nim_xxd_present")
manage_files_pattern(polaris_ngiolite_t, polaris_cmrp_nim_xxd_tmp_t, polaris_cmrp_nim_xxd_tmp_t)

# allow /usr/binos/bin/ngiolite to access /tmp/hd_sz
gen_require(`
    type udev_tmp_t;
')
read_files_pattern(polaris_ngiolite_t, udev_tmp_t, udev_tmp_t)

# allow /usr/sbin/lvm to be executed and to be operated
lvm_domtrans(polaris_ngiolite_t)

# allow /usr/binos/bin/ngiolite to manage /tmp
type polaris_ngiolite_tmp_t;
files_tmp_file(polaris_ngiolite_tmp_t)
# allow /usr/binos/bin/ngiolite to manage /tmp/smartctl.out and
# /tmp/xxdisplay.out
files_tmp_filetrans(polaris_ngiolite_t, polaris_ngiolite_tmp_t, file)
manage_files_pattern(polaris_ngiolite_t, polaris_ngiolite_tmp_t, polaris_ngiolite_tmp_t)

# allow /usr/sbin/smartctl to operate on fsadm_exec_t
fstools_domtrans(polaris_ngiolite_t)

# allow /usr/sbin/smartctl to access nvme device in chr and blk
dev_nvme_chr_files_manage(polaris_ngiolite_t)
dev_nvme_blk_files_manage(polaris_ngiolite_t)

ifdef(`sumatra_platform',`
    # dev/cpld
    polaris_cpld_dev_use(polaris_ngiolite_t)
    
    # manage "sysctl_i2c.lck"
    gen_require(`
        type polaris_cm_rp_tmp_t;
    `)
    files_tmp_filetrans(polaris_ngiolite_t, polaris_cm_rp_tmp_t, file, "sysctl_i2c.lck")
polaris_cm_rp_tmp_manage(polaris_ngiolite_t)

    # access /dev/huron_fpga
    polaris_huron_dev_use(polaris_ngiolite_t)
')

ifdef(`crankshaft_family',`
    # /var/run/cwan socket and pid
    gen_require(`
        type polaris_cwan_svr_var_run_t;
    `)
    files_pid_filetrans(polaris_ngiolite_t, polaris_cwan_svr_var_run_t, sock_file, "cwan_ezmanage_cwan_server")
    create_sock_files_pattern(polaris_ngiolite_t, polaris_cwan_svr_var_run_t, polaris_cwan_svr_var_run_t)
    delete_sock_files_pattern(polaris_ngiolite_t, polaris_cwan_svr_var_run_t, polaris_cwan_svr_var_run_t)
')

# allow /usr/binos/bin/ngiolite to access the following interface
fs_unmount_xattr_fs(polaris_ngiolite_t)
dev_manage_generic_symlinks(polaris_ngiolite_t)
polaris_udev_tmp_manage(polaris_ngiolite_t)

# ngiolite/ezManage access rules - currently only applies to TSN
optional_policy(`
    # Allow ngiolite to access ezManage dgram socket
    gen_require(`
        type polaris_ezmanage_t;
    `)
)
allow polaris_ngiolite_t polaris_ezmanage_t:unix_dgram_socket sendto;

# Allow ngiolite to access ezManage socket file in /var/run
polaris_manage_ezmanage_var_run_files(polaris_ngiolite_t)
')

# allow ngiolite to access /dev/nim_phy
ifdef('crankshaft_family','
polaris_nim_phy_dev_use(polaris_ngiolite_t)
')

# allow ioctl, read, wr permission for ds31408 device
optional_policy('polaris_ds31408_dev_use(polaris_ngiolite_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngiolite.te
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# # April 2017, Victor Kamensky
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#
/	mp\nncsshd_bp\.sock -s gen_context(system_u:object_r:polaris_dmi_ncsshd_log_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmincsshdfwd.fc
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#
## <summary>Polaris vdaemon Policy Rules.</summary>

####################################################
## <summary>
##      Write vdaemon /var/run socket file
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_vdaemon_var_sock_write',
    gen_require('type polaris_vdaemon_t;
    type polaris_vdaemon_var_run_t;
    type var_run_t;
    ')
write_sock_files_pattern($1, var_run_t, polaris_vdaemon_var_run_t)
allow $1 polaris_vdaemon_t:unix_stream_socket { connectto };
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisvdaemon.if
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#
# March 2017, Victor Kamensky
#
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#

policy_module(polarisboothelper, 1.0);

polaris_process_domain_template(boothelper_evt)

corecmd_exec_bin(polaris_boothelper_evt_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_boothelper_evt_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_boothelper_evt_t)

polaris_cpld_read(polaris_boothelper_evt_t)

####################################################################################################
# work with /tmp/udev/

polaris_udev_tmp_files_t;
files_tmp_file(polaris_udev_tmp_files_t)

polaris_systemd_tmpfiles_tmp_filetrans(polaris_udev_tmp_files_t, dir, "udev")

polaris_bootflash_manage(polaris_boothelper_evt_t)
type polaris_boothelper_tmp_t;
files_tmp_file(polaris_boothelper_tmp_t)
files_tmp_filetrans(polaris_boothelper_evt_t, polaris_boothelper_tmp_t, dir, "rommon_upgrade_ngwc")
manage_files_pattern(polaris_boothelper_evt_t, polaris_boothelper_tmp_t, polaris_boothelper_tmp_t)
manage_dirs_pattern(polaris_boothelper_evt_t, polaris_boothelper_tmp_t, polaris_boothelper_tmp_t)
# watch over /tmp/rommon_upgrade_ngwc
allow polaris_boothelper_evt_t polaris_boothelper_tmp_t:dir watch;

# nyquist creates /tmp/udev_ssd.log
gen_require(
    type udev_t;
)
files_tmp_filetrans(udev_t, polaris_udev_tmp_files_t, file, "udev_ssd.log")
fs_tmpfs_filetrans(udev_t, polaris_udev_tmp_files_t, file, "udev_ssd.log")

# create /dev/harddisk1 softlink during bootup
ifdef('crankshaft_family',
    gen_require(
        type device_t;
        type initrc_t;
        type fixed_disk_device_t;
    )
    filetrans_pattern(initrc_t, device_t, fixed_disk_device_t, lnk_file, "harddisk1")
)
# restorecon under setfiles_t appends to /tmp/udev_ssd.log
gen_require(
    type setfiles_t;
)
polaris_udev_tmp_manage(setfiles_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisboothelper.te
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#
# August 2017, Shawn Lu
#
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#

policy_module(polarisnmspd, 1.0);

gen_require(
    type polaris_nmspd_t;
)
}
polaris_btrace_data_manage(polaris_nmspd_t)
polaris_crft_data_manage(polaris_nmspd_t)
polaris_chasfs_manage(polaris_nmspd_t)
polaris_tdlresolve_read(polaris_nmspd_t)
polaris_tdlldb_list_dirs(polaris_nmspd_t)
polaris_cpld_read(polaris_nmspd_t)
polaris_lua_read(polaris_nmspd_t)
polaris_flashlib_read(polaris_nmspd_t)

polaris_rpic_sman_ui_serv_connect(polaris_nmspd_t)

polaris_db_tdlldb_dir_use(polaris_nmspd_t)

******************************************************************************
# mqipc manual, one that missing in platform tdl file
******************************************************************************
type polaris_nmspd_testclient1_mqipc_t;
polaris_mqipc_type(polaris_nmspd_testclient1_mqipc_t)

type polaris_nmspd_testclient2_mqipc_t;
polaris_mqipc_type(polaris_nmspd_testclient2_mqipc_t)

type polaris_testclient1_nmspd_mqipc_t;
polaris_mqipc_type(polaris_testclient1_nmspd_mqipc_t)

type polaris_testclient2_nmspd_mqipc_t;
polaris_mqipc_type(polaris_testclient2_nmspd_mqipc_t);

polaris_mqipc_create_name(polaris_nmspd_t, polaris_nmspd_testclient1_mqipc_t, nmspd-testclient1)
polaris_mqipc_use(polaris_nmspd_t, polaris_testclient1_nmspd_mqipc_t)

polaris_mqipc_create_name(polaris_nmspd_t, polaris_nmspd_testclient2_mqipc_t, nmspd-testclient2)
polaris_mqipc_use(polaris_nmspd_t, polaris_testclient2_nmspd_mqipc_t)

#stuff related to vrf support of the socket
polaris_lfts_dev_use(polaris_nmspd_t)
polaris_socketat_nsfs_read(polaris_nmspd_t)
# enable listen on tcp port 16113
corenet_tcp_bind_polaris_nmspd_port(polaris_nmspd_t)

allow polaris_nmspd_t self:capability dac_override;

# Allow IPC messages to Btrace Process from NMSPD Process
logging_send_syslog_msg(polaris_nmspd_t)
# Allow NMSPD to read DNS file for nameresolution
sysnet_read_config(polaris_nmspd_t)

# NMSPD uses cURL to open HTTP connections and SSL to open TLS Connections

# to DNASpaces and CMX respectively

gen_require(' type node_t;
       )
allow polaris_nmspd_t node_t:udp_socket node_bind;
allow polaris_nmspd_t self:udp_socket { bind connect getattr };
corenet_tcp_connect_http_port(polaris_nmspd_t)
polaris_odm_clnt2svr_mqipc_create(polaris_nmspd_t)

# DB persistence
polaris_tdldbpersist_setup(polaris_nmspd_t)
polaris_imp_tdldb_persist_setup(polaris_nmspd_t)

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnmspd.te
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#
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#

policy_module(polarisftm, 1.0);

gen_require(' type polaris_ftm_t;
       )
polaris_chasfs_manage(polaris_ftm_t)
polaris_cpld_read(polaris_ftm_t)
polaris_flashlib_read(polaris_ftm_t)
polaris_tdlresolve_read(polaris_ftm_t)
polaris_ripc_sman_ui_serv_connect(polaris_ftm_t)
polaris_db_tdldb_dir_use(polaris_ftm_t)
logging_send_syslog_msg(polaris_ftm_t)
corecmd_exec_bin(polaris_ftm_t)
corecmd_exec_shell(polaris_ftm_t)
auth_use_nsswitch(polaris_ftm_t)

# vconfd_load_shared_schemas
polaris_confconf_shared_schema_read(polaris_ftm_t)

# work with /tmp/xml
polaris_cedge_xml_tmp_manage(polaris_ftm_t)

# work with /tmp/tmp
polaris_cedge_tmp_manage(polaris_ftm_t)

polaris_cedge_reset_ns(polaris_ftm_t)

# /var/run/ftmd-xxx sockets and pid
type polaris_ftm_var_run_t;
files_pid_file(polaris_ftm_var_run_t)
manage_files_pattern(polaris_ftm_t, polaris_ftm_var_run_t, polaris_ftm_var_run_t)
manage_sock_files_pattern(polaris_ftm_t, polaris_ftm_var_run_t, polaris_ftm_var_run_t)
files_pid_filetrans(polaris_ftm_t, polaris_ftm_var_run_t, { file sock_file })

polaris_cfgmgr_var_sock_write(polaris_ftm_t)
polaris_dbgd_var_sock_write(polaris_ftm_t)
polaris_fpm_var_sock_write(polaris_ftm_t)
polaris_ttm_var_sock_write(polaris_ftm_t)
polaris_vdaemon_var_sock_write(polaris_ftm_t)

# PLEASE LOOK AT ME: write access to /boot/hugepage.conf
# which on ultra translates into /varied/hugepage.conf access
# But no code in polaris uses it
polaris_disk_varied_manage(polaris_ftm_t)
files_manage_boot_files(polaris_ftm_t)

# fp_scaling_init calls posix_sysconf
dev_read_sysfs(polaris_ftm_t)

# vip_execute_nowait uses setpgid
allow polaris_ftm_t self:process setpgid;

polaris_cedge_tmpfs_manage(polaris_ftm_t)

# raw socket access from trace_tunnel_socket_icmp_init ftm_binos_trace.c
allow polaris_ftm_t self:rawip_socket create_socket_perms;
allow polaris_ftm_t self:capability net_raw;

# bind to ftm fnf port
corenets_udp_bind_polaris_ftm_fnf_port(polaris_ftm_t)
corenets_udp_bind_generic_node(polaris_ftm_t)

# ftm may create vrf-based netsns on demand, vrf.65528
polaris_vrf_netsns_manage(polaris_ftm_t)

# creates /tmp/HTX-IOX/sw-htx-service
optional_policy(
        polaris_htx_iox_tmp_manage(polaris_ftm_t)

Open Source Used In Crosswork Platform Infrastructure cw-infra-opensource-4.3.0 16008
# fp_scaling_read_core_count accesses cgroups file at
# /sys/fs/cgroup/cpuset/iosxe_control_processes/cpuset.cpus
fs_read_cgroup_files(polaris_ftm_t)

# ftm_change_default_gw_src_ip calls ip utility
sysnet_domtrans_ifconfig(polaris_ftm_t)

# ftm process periodically call nice utility to gzip some xml file
allow polaris_ftm_t self:process setsched;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisftm.te
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#
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#

### <summary>Polaris fman_fp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfmanfp.if
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#
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#
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#

/tmp/replication(/.*)? gen_context(system_u:object_r:polaris_repm_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrepm.fc
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#
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#
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#
### <summary>Polaris Btrace Policy Rules.</summary>

```
# Polaris cpp (ultra)

### <summary>Work (read, write, ioctl) with /dev/cpp_dev_info and /dev/cpp_vxe_rsrc devices.</summary>
### </summary>
### <param name="domain">Domain allowed access.
### </param>
### <rolebase/>
#
interface('polaris_cpp_dev_use',
    gen_require(
        type device_t;
        type polaris_cpp_device_t;
    ')
    write_chr_files_pattern($1, device_t, polaris_cpp_device_t)
    read_chr_files_pattern($1, device_t, polaris_cpp_device_t)
    allow $1 polaris_cpp_device_t:chr_file map;
polaris_i95_dev_use($1)
')

### <summary>Make the specified domain as polaris cpp process.
### </summary>
### <param name="type">Type to be used as a cpp process.
### </param>
#
interface('polaris_cpp_process',
    gen_require(
        typeattribute polaris_cpp_domain;
    ')
    typeattribute $1 polaris_cpp_domain;
')
```
### <summary>
### Make the specified domain able to use cpp /tmp files.
### </summary>
### <param name="type">
### Domain allowed access.
### </param>
### <param name="object">
### File name in /tmp that domains creates and other cpp process access.
### </param>
#
# interface('polaris_cpp_tmp_files_use',
  gen_require(
    type polaris_cpp_tmp_t;
  ')
  files_tmp_filetrans($1, polaris_cpp_tmp_t, file, $2)
  manage_files_pattern($1, tmp_t, polaris_cpp_tmp_t)
  allow $1 polaris_cpp_tmp_t:file map;
')

### <summary>
### Specified domain can execute polaris_cpp_tmpfs_t code which resides in /dev/shm/cpp_ucode_dram
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
# interface('polaris_cpp_tmpfs_exec',
#  gen_require(
#    type polaris_cpp_tmpfs_t;
#  ')
#  allow $1 polaris_cpp_tmpfs_t:file execute;
')

### <summary>
### Read write from polaris_cpp_tmpfs_t file
### </summary>
## Example is ifdev shared memory /dev/shm/cpp_ifdev_shmem
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>

```
interface('polaris_cpp_tmpfs_ifdev_rw',
    gen_require('    type tmpfs_t;
    type polaris_cpp_tmpfs_t;
    ')

rw_files_pattern($1, tmpfs_t, polaris_cpp_tmpfs_t)
    allow $1 polaris_cpp_tmpfs_t:file map;
')
```

########################################
## Make the specified domain able to work with cpp /tmp/cpp_ifdev_rep and 
## /tmp/cpp_ifdev_req pipe files.
## </summary>
## <param name="type">
## Domain allowed access.
## </summary>
## </param>

```
interface('polaris_cpp_tmp_ifdev_use',
    gen_require('    type polaris_cpp_tmp_t;
    ')
    manage_fifo_files_pattern($1, tmp_t, polaris_cpp_tmp_t)
    allow $1 polaris_cpp_tmp_t:file map;
')
```

########################################
## Make the specified domain able to getattr of /tmp/cpp_ifdev_rep and 
## /tmp/cpp_ifdev_req pipe files.
## </summary>
## <param name="type">
## Domain allowed access.
## </summary>
## <summary>
## Allow process to use Cavium SDK sysv IPC primitives
## created by octeon_pci_dmap.c. Those could be created either
## by cpp_driver (usually) or by cpp_cdm on utah and overlord,
## and by cm_fp on neptune.
##</summary>
#
## <summary>
## Domain allowed access.
##</summary>
## <param name="type">
## Domain allowed access.
##</param>
#
# interface('polaris_cpp_cavium_sdk_ipc_use',
  ifdef('crankshaft_family',
      polaris_cpp_driver_sem_use($1)
polaris_cpp_driver_shm_use($1)
  optional_policy(
      polaris_cpp_cdm_sem_use($1)
polaris_cpp_cdm_shm_use($1)
  )
  optional_policy(
      polaris_cm_fp_sem_use($1)
polaris_cm_fp_shm_use($1)
  )
  # allow scan pci/devices proc dir
  kernel_getattr_proc_files($1)
kernel_write_proc_files($1)
kernel_read_system_state($1)
  )
)

## <summary>
## Work (read, write, ioctl) with /dev/i95 devices
##</summary>
## <param name="domain">
<summary>
Domain allowed access.
</summary>

```
interface('polaris_i95_dev_use','
gen_require('
    type device_t;
    type polaris_i95_device_t;
')
write_chr_files_pattern($1, device_t, polaris_i95_device_t)
read_chr_files_pattern($1, device_t, polaris_i95_device_t)
allow $1 polaris_i95_device_t:chr_file map;
')
```

<summary>
Work (read, write, map) with sysfs files required by cavium library in o2_cavm_mem_map.
</summary>

```
interface('polaris_cpp_cavium_dma_map','
gen_require('
    type sysfs_t;
')

mmap_files_pattern($1, sysfs_t, sysfs_t)
device_rw_sysfs($1)
')
```

<summary>
Manage /dev/shm files
</summary>

```
interface('polaris_cpp_tmpfs_manage','
gen_require('

')
```
type polaris_cpp_tmpfs_t;

type tmpfs_t;

fs_tmpfs_filetrans($1, polaris_cpp_tmpfs_t, file)
manage_files_pattern($1, tmpfs_t, polaris_cpp_tmpfs_t)
allow $1 polaris_cpp_tmpfs_t:file map;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscpp.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

## <summary>Polaris bt_logger Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbtlogger.if
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
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#

# /bootflash labels
/bootflash(/.*)? gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/bootflash/ssh(/.*)? gen_context(system_u:object_r:ssh_home_t,s0)
/bootflash/ssh/ssh_host.*_key.pub gen_context(system_u:object_r:ssh_key_t,s0)
/bootflash/ssh/ssh_host.*_key gen_context(system_u:object_r:ssh_key_t,s0)
/bootflash/tracelogs(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/bootflash/tan(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/bootflash/core(/.*)? gen_context(system_u:object_r:polaris_core_file_t,s0)
/bootflash/debug.conf gen_context(system_u:object_r:polaris_debug_conf_t,s0)
/bootflash/packages.conf gen_context(system_u:object_r:polaris_packages_conf_t,s0)

# /csl_p_0
/csl_p_0(/.*)? gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)

# /csl_p_1.context
# /csl_p_1(/.*)?
/csl_p_1(/.*)?  gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)

# /csl_s_0.context
/csl_s_0(/.*)?
/csl_s_0(/.*)?  gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)

# /csl_s_1.context
/csl_s_1(/.*)?
/csl_s_1(/.*)?  gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)

# /obfl is separate on qwlc
/obfl(/.*)?
/obfl(/.*)?  gen_context(system_u:object_r:polaris_obfl_data_t,s0)

# /varied
/varied(/.*)?
/varied(/.*)?  gen_context(system_u:object_r:polaris_disk_varied_t,s0)
/varied/install_info
/varied/install_info  gen_context(system_u:object_r:polaris_vwlcfailinstall_info_t,s0)
/varied/obfl/*
/varied/obfl/*  gen_context(system_u:object_r:polaris_obfl_data_t,s0)
/varied/grub_cisco_version
/varied/grub_cisco_version  gen_context(system_u:object_r:polaris_grubver_t,s0)
/varied/grub(/.*)?
/varied/grub(/.*)?  gen_context(system_u:object_r:boot_t,s0)
/varied/grub2(/.*)?
/varied/grub2(/.*)?  gen_context(system_u:object_r:polaris_grub_bios_t,s0)
/varied/grub/menu.*
/varied/grub/menu.*  gen_context(system_u:object_r:bootloader_etc_t,s0)
/sbin/grub*
/sbin/grub*  gen_context(system_u:object_r:bootloader_exec_t,s0)

# /grubenv
/bootefi/(/.*)?
/bootefi/(/.*)?  gen_context(system_u:object_r:polaris_grub_efi_t,s0)

# hanet driver used by vwlc and ultra, is there better place for it?
/dev/hanet  -c gen_context(system_u:object_r:polaris_hanet_device_t,s0)

# from /lib/tmpfiles.d/binos-vxe.conf
/lic0 -l
/lic0 -l  gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/lic1 -l
/lic1 -l  gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)

# /harddisk labels (qwlc)
/vol/harddisk(/.*)?
/vol/harddisk(/.*)?  gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)
/vol/harddisk/tracelogs(/.*)?
/vol/harddisk/tracelogs(/.*)?  gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/vol/harddisk/tan(/.*)?
/vol/harddisk/tan(/.*)?  gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/vol/harddisk/core(/.*)?
/vol/harddisk/core(/.*)?  gen_context(system_u:object_r:polaris_core_file_t,s0)
/vol/harddisk/debug.conf
/vol/harddisk/debug.conf  gen_context(system_u:object_r:polaris_debug_conf_t,s0)

# /init is symbolic link to /lib/systemd/systemd
/init  -l gen_context(system_u:object_r:init_exec_t,s0)

# /disk0 is symbolic link to /vol/disk0
/disk0 -l gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

# /dev/epa device on qwlc
/dev/epa[0-9]*
/dev/epa[0-9]*  -c gen_context(system_u:object_r:polaris_epa_device_t,s0)
/dev/epactrl[0-9]*
/dev/epactrl[0-9]*  -c gen_context(system_u:object_r:polaris_epa_device_t,s0)

# /dev/luna_fpga on qwlc
/dev/luna_mbfpga -c gen_context(system_u:object_r:polaris_luna_mbfpga_device_t,s0)

# /dev/astro on qwlc
/dev/astro -c gen_context(system_u:object_r:polaris_astro_device_t,s0)

# /dev/cpp_il on qwlc
/dev/cpp_il -c gen_context(system_u:object_r:polaris_cpp_il_device_t,s0)

# /flash is symbolic link to /bootflash on qwlc
/dev/flash gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

# /dev/oob_evfc on qwlc
/dev/oob_evfc -c gen_context(system_u:object_r:polaris_oob_evfc_device_t,s0)

# /dev/sfp-ktr on katar
/dev/sfp-ktr -c gen_context(system_u:object_r:polaris_sfp_katar_device_t,s0)

# To store tcpdump output in file haIntCaptureLo.pcap
/dev/haIntCaptureLo.pcap gen_context(system_u:object_r:polaris_netutils_data_t,s0)

# /config labels
/config(/.*)? gen_context(system_u:object_r:polaris_disk_config_t,s0)
/config/ssh(/.*)? gen_context(system_u:object_r:sshd_home_t,s0)
/config/ssh/ssh_host.*_key\pub gen_context(system_u:object_r:sshd_key_t,s0)
/config/ssh/ssh_host.*_key gen_context(system_u:object_r:sshd_key_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswlc.fc

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dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
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dnl
dnl WLC Platform Max Bay Limits
dnl max_bay_map_set(`rp`, `per_bay`, 0)
dnl max_bay_map_set(`cc`, `per_bay`, 0)
dnl max_bay_map_set(`fp`, `per_bay`, 0)

dnl in elastic scope each process has its own value
max_elastic_map_set(`rp`, `elastic`, BPROC_ODM, 1)
max_elastic_map_set(`cc`, `elastic`, BPROC_ODM, 1)
max_elastic_map_set(`fp`, `elastic`, BPROC_ODM, 1)

max_elastic_map_set(`rp`, `elastic`, BPROC_WNCD, 7)
max_elastic_map_set(`cc`, `elastic`, BPROC_WNCD, 7)
max_elastic_map_set(`fp`, `elastic`, BPROC_WNCD, 7)
max_elastic_ripc_map_set(\texttt{rp'}, `elastic', BPROC_ODM, 1)
max_elastic_ripc_map_set(\texttt{cc'}, `elastic', BPROC_ODM, 1)
max_elastic_ripc_map_set(\texttt{fp'}, `elastic', BPROC_ODM, 1)

max_elastic_ripc_map_set(\texttt{rp'}, `elastic', BPROC_WNCD, 7)
max_elastic_ripc_map_set(\texttt{cc'}, `elastic', BPROC_WNCD, 7)
max_elastic_ripc_map_set(\texttt{fp'}, `elastic', BPROC_WNCD, 7)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/vwlcmaps.m4
No license file was found, but licenses were detected in source scan.

#
# June 2017, Victor Kamensky
#
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#

policy_module(polariswebui, 1.0);

type polaris_webui_file_t;
files_type(polaris_webui_file_t)
polaris_pfile_type(polaris_webui_file_t)

polaris_process_domain_template(webui_lighttpd)

polaris_process_domain_template(webui)

gen_require(`
    type initrc_t;
')
manage_dirs_pattern(initrc_t, polaris_webui_file_t, polaris_webui_file_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswebui.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

policy_module(polariscmrp, 1.0);
gen_require(
    type polaris_cm_rp_t;
)

polaris_btrace_data_manage(polaris_cm_rp_t)
polaris_crft_data_manage(polaris_cm_rp_t)
polaris_chasfs_manage(polaris_cm_rp_t)
polaris_tdlresolve_read(polaris_cm_rp_t)
polaris_tdlldb_list_dirs(polaris_cm_rp_t)
polaris_cpld_read(polaris_cm_rp_t)
polaris_lua_read(polaris_cm_rp_t)
polaris_flashlib_read(polaris_cm_rp_t)
polaris_flashlib_write(polaris_cm_rp_t)
#
# cm_rp opens log file to collect required RP, CC, FP and rommon details
# and write into /vol/harddisk/.inv/inv_log_file
# This file is accessed by crashinfo collecting script and others
# type polaris_cm_rp_inv_log_file_t;
# polaris_disk_type(polaris_cm_rp_inv_log_file_t)
polaris_cm_rp_inv_log_setup(polaris_cm_rp_t)
polaris_ripc_sman_ui_serv_connect(polaris_cm_rp_t)
polaris_cpld_dev_use(polaris_cm_rp_t)
polaris_lfts_dev_use(polaris_cm_rp_t)
polaris_proc_rmonbifo_read(polaris_cm_rp_t)
polaris_obfl_data_read(polaris_cm_rp_t)
polaris_db_tdlldb_dir_use(polaris_cm_rp_t)
# cman_rp needs read access to cpu identity
#/dev/cpu/0/msr
dev_read_cpuid(polaris_cm_rp_t)
allow polaris_cm_rp_t self:capability { sys_rawio dac_override chown sys_resource};

allow polaris_cm_rp_t self:process setsched;

# on ultra read eeprom through i2c
# type=AVC msg=audit(1479569571.044:3): avc: denied { getattr } for pid=5283 comm="cmand"
path="/sys/devices/i2c-0/i2c-1/1-0056/eeprom" dev="sysfs" ino=25556
scontext=system_u:system_r:polaris_cm_rp_t:s0 tcontext=system_u:object_r:sysfs_t:s0 tclass=file
# type=AVC msg=audit(1479569571.045:4): avc: denied { read write } for pid=5283 comm="cmand"
name="eeprom" dev="sysfs" ino=25556 scontext=system_u:system_r:polaris_cm_rp_t:s0
tcontext=system_u:object_r:sysfs_t:s0 tclass=file
dev_rw_sysfs(polaris_cm_rp_t)
polaris_ggpio_dev_read_write(polaris_cm_rp_t)

# accessing obfl files like /obfl/obfl_uptime_v2.log
polaris_bootflash_read(polaris_cm_rp_t)
polaris_obfl_data_manage(polaris_cm_rp_t)

corecmd_exec_shell(polaris_cm_rp_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_cm_rp_t)

# cman_data_chasfs_mgmt_eth_overide (cman/rp/src/cman_data.c:1096) tries to do
# ioctl(sk, SIOCGIFHWADDR, &ifr) for "eth2", which is not present on ultra, but
# such ioctl in kernel triggers dev_load attempt in kernel. Since interface
# and module does exist anyway, it is OK to deny it
kernel_dontaudit_request_load_module(polaris_cm_rp_t)

# cmand creates udp socket to get interface hw address cmlib_if_config_addr
allow polaris_cm_rp_t self:udp_socket create_socket_perms;

# dynfcfg_setup.sh is started by cmand
polaris_dyncfg_domtrans(polaris_cm_rp_t)
polaris_dyncfg_tmp_read(polaris_cm_rp_t)
# on crankshaft cm_rp does init directly
polaris_dyncfg_setup(polaris_cm_rp_t)

# denied { search read open } subject: polaris_cm_rp_t; object: polaris_disk_varied_t
# name="/" dev="sda5"; path="/varied"
polaris_disk_varied_manage(polaris_cm_rp_t)

#allow polaris_cm_rp_t polaris_udev_tmp_files_t:dir { read search };
polaris_udev_tmp_list_dirs(polaris_cm_rp_t)

# LOOK AT ME: /tmp/rp/chasfs/inventory has symbolic links back to
# /bootflash/core/modules and /bootflash/tracelogs/modules cman_inv_restart_init
# calls chasfs_properties_internal over this node and as result it tries to
# access those directories
polaris_core_file_search(polaris_cm_rp_t)
polaris_disk_bootflash_search(polaris_cm_rp_t)
polaris_btrace_persistent_data_search(polaris_cm_rp_t)

polaris_dyncfg_tmp_manage(polaris_cm_rp_t)

ifdef(`mcp_family',`
  polaris_scooby_dev_use(polaris_cm_rp_t)
  # read/write /dev/ds3100 chr device
dev_rw_generic_chr_files(polaris_cm_rp_t)
polaris_spa_dev_use(polaris_cm_rp_t)
')
# temporary files created for repm in /tmp/replication

type polaris_cm_rp_tmp_t;
files_tmp_file(polaris_cm_rp_tmp_t)
gen_require('  
    type tmp_t;
')
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "sysctl_i2c.lck")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "pfu_overtime.lock")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "golden_boot")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "sr_message_debug.txt")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "ngwc_sudi_auth_done")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "codesign.txt")
polaris_cm_rp_tmp_manage(polaris_cm_rp_t)

logging_send_syslog_msg(polaris_cm_rp_t)

# work with /dev/i2c devices
polaris_i2c_use(polaris_cm_rp_t)
dev_getattr_sysfs_fs(polaris_cm_rp_t)

# /var files
gen_require('  
    type var_log_t;
')
type polaris_cm_rp_var_log_t;
logging_log_file(polaris_cm_rp_var_log_t)
logging_log_filetrans(polaris_cm_rp_t, polaris_cm_rp_var_log_t, file, "obfl_uptime_v2.log")
manage_files_pattern(polaris_cm_rp_t, var_log_t, polaris_cm_rp_var_log_t)

# needed for "show platform hardware slot R0 eobc interface primary status"
kernel_read_network_state(polaris_cm_rp_t)

############################################################
# show platform hardware slot R0 pcie status
# mcp_pcie_status_cmd.sh
# /bin/sh /usr/binos/conf/bexec.sh -c /usr/binos/conf/mcp_pcie_status_cmd.sh
############################################################

polaris_utility_domain_template(pcie_status_cmd)
polaris_bexecute_domtrans(polaris_cm_rp_t)
polaris_bexecute_domain(polaris_pcie_status_cmd_t, polaris_pcie_status_cmd_exec_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_pcie_status_cmd_t)

# "lspci" needs access to files like /sys/devices/pci0000:00/0000:00:00.0/resource
dev_read_sysfs(polaris_pcie_status_cmd_t)

polaris_send_signal_to_bexecute(polaris_cm_rp_t)

# need write/getattr access for pipes like "pipe:[118396]"
polaris_cmrp_use_fifo(polaris_pcie_status_cmd_t)

corecmd_exec_bin(polaris_pcie_status_cmd_t)

# on utah need to get model info
optional_policy(
    polaris_dash_dev_use(polaris_cm_rp_t)
    polaris_nios_dev_use(polaris_cm_rp_t)
)

# access to /dev/dash_fpga device on fugazi platform
ifdef(`fugazi_platform',`
    polaris_dash_dev_mcp_use(polaris_cm_rp_t)
')

ifdef(`crankshaft_family',`
polaris_quack_dev_use(polaris_cm_rp_t)
')

ifdef(`sparrow_platform',`
polaris_cm_cc_tmpfs_manage(polaris_cm_rp_t)
')

ifdef(`blackheart_platform',`
polaris_cm_cc_tmpfs_manage(polaris_cm_rp_t)
')

ifdef(`cabo_platform',`
polaris_cm_cc_tmpfs_manage(polaris_cm_rp_t)
')

ifdef(`aventus_platform',`
polaris_cm_cc_tmpfs_manage(polaris_cm_rp_t)
polaris_dio_dev_use(polaris_cm_rp_t)
')

ifdef(`qwlc_platform',`
polaris_quack_dev_use(polaris_cm_rp_t)
')

ifdef(`katar_platform',`
polaris_quack_dev_use(polaris_cm_rp_t)
')
ifdef(`wlc_family',`
netutils_domtrans_ping(polaris_cm_rp_t)
')

ifdef(`ngwc_family',`
# In cman_rp module fips/entropy component
# calls cman_ngwc_tam_platform_get_act2_entropy() to
# retrieve entropy from ACT2 chip.
polaris_act2_dev_use(polaris_cm_rp_t)

# cman-rp init needs access to quack chip
polaris_quack_dev_use(polaris_cm_rp_t)

# read /proc/cmdline
kernel_read_system_state(polaris_cm_rp_t)

#on macallan and nyquist cman_rp needs to access /flash<#/lic0/sudi_cert_data_v3
polaris_disk_license_read(polaris_cm_rp_t)

#on macallan and starfleet cli "show firmware version lan_spi" triggers ethtool usage
sysnet_domtrans_ifconfig(polaris_cm_rp_t)
')

# cman-rp needs to read /tmp/fed_post_result and /tmp/sm_post_result
# on ngwc platforms
optional_policy(`
polaris_fed_tmp_files_read(polaris_cm_rp_t)
')
optional_policy(`
polaris_sif_mgr_tmp_files_read(polaris_cm_rp_t)
')

ifdef(`starfleet_platform',`
polaris_dmammap_dev_use(polaris_cm_rp_t)
')

ifdef(`nyquist_platform',`
polaris_ngwc_shm_manage(polaris_cm_rp_t)

# /dev/dmammap usage
polaris_dmammap_dev_use(polaris_cm_rp_t)

# /dev/remap_mem0 usage
polaris_remap_mem_dev_use(polaris_cm_rp_t)
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "pm_post_result")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, dir, "microcode_update")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "mcu_upgrading")

# executes tar for microcode
allow polaris_cm_rp_t self:capability { fowner fsetid; }
')

ifdef(`radium_platform',
  # /dev/remap_mem0 usage
polaris_remap_mem_dev_use(polaris_cm_rp_t)
')

ifdef(`sumatra_platform',
  # /dev/remap_mem0 usage
polaris_remap_mem_dev_use(polaris_cm_rp_t)
  # LOOK AT ME: After direct usage of /dev/mem is removed (CSCvw80796)
polaris_dev_mem_use(polaris_cm_rp_t)
  # access huron FPGA
polaris_huron_dev_use(polaris_cm_rp_t)
')

ifdef(`quake_platform',
polaris_ngwc_shm_manage(polaris_cm_rp_t)
  # /dev/dmammap usage
polaris_dmammap_dev_use(polaris_cm_rp_t)
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "pm_post_result")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, dir, "microcode_update")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "mcu_upgrading")
')

# LOOK AT ME: /dev/mem access restriction remove after
# CSCvm48950 is fixed using CSCvm48953
ifdef(`nyquist_platform',
polaris_dev_mem_use(polaris_cm_rp_t)
')

# LOOK AT ME: /dev/mem access restriction remove after
# CSCvn64182 is fixed using CSCvn64184
ifdef(`quake_platform',
polaris_dev_mem_use(polaris_cm_rp_t)
')

############################################################################
# CLI: "show platform hardware slot R0 xaui statistics"
# this results in cman (/usr/binos/bin/cmand) invoking
# "/bin/sh /usr/binos/conf/bexec.sh -c /usr/binos/conf/dash_fpga_xaui.py show".
# The python script dash_fpga_xaui.py runs in polaris_bexecute_t domain
# and as part of its functionality it needs to create an UDP socket and make an ioctl call.

polaris_utility_domain_template(dash_fpga_xaui)
polaris_bexecute_domain(polaris_dash_fpga_xaui_t, polaris_dash_fpga_xaui_exec_t)
polaris_cmrp_use_fifo(polaris_dash_fpga_xaui_t)
allow polaris_dash_fpga_xaui_t self:udp_socket { create ioctl };

# CLI: show plat soft cpu share
# - invokes functions in binos/tools/bin/cgroup_reports.sh
# - also cman_cli_show_cpu_share_cb in binos/cman/rp/src/cman_cli.c
# - allow open/read/search cgroup files like
#   /sys/fs/cgroup/cpu,cpuacct/iosxe_control_processes/cpu.shares
fs_read_cgroup_files(polaris_cm_rp_t)
fs_list_cgroup_dirs(polaris_cm_rp_t)

# on tsn need access to /dev/moka_fpga
optional_policy(
  polaris_mokafpga_dev_use(polaris_cm_rp_t)
')

optional_policy(
  # betelgeuse need access to /dev/sirius_fpga
  polaris_sirius_fpga_dev_use(polaris_cm_rp_t)
')

# on tsn read access to /sys/devices/platform/moka_fpga
optional_policy(
  polaris_mokafpga_read(polaris_cm_rp_t)
')

optional_policy(
  polaris_tam_getattrs_tmp_dirs(polaris_cm_rp_t)
')

# on vwlc/macallan, cmand creates /tmp/hw_entropy
polaris_hw_entropy_create(polaris_cm_rp_t)

# on tsn need write access to
# /sys/devices/platform/cpld/reg_rp_sku_register
# on starfleet need write access to
# sys/devices/platform/cpld/reg_fan_fault_shutdown
optional_policy('polaris_cpld_write(polaris_cm_rp_t)
')

# LOOK AT ME: /dev/mem access restriction
ifdef('tsn_platform',
    polaris_dev_mem_use(polaris_cm_rp_t)
')

# reads from, populates chasfs with values and deletes /tmp/package_biv_sums
polaris_kgv_data_manage(polaris_cm_rp_t)

optional_policy('polaris_quake_i2c_manage(polaris_cm_rp_t)
')

ifdef('qwlc_platform',
    # read/write /dev/ds3100 chr device
dev_rw_generic_chr_files(polaris_cm_rp_t)
')

ifdef('katar_platform',
    # read/write /dev/ds3100 chr device
dev_rw_generic_chr_files(polaris_cm_rp_t)
    # Read access to /tmp/ldwm_envelope file
polaris_ldwm_envelope_read(polaris_cm_rp_t)
')

ifdef('mcp_family',
    # Read access to /tmp/ldwm_envelope file
polaris_ldwm_envelope_read(polaris_cm_rp_t)
')

# /dev/luna_fpga on qwlc
optional_policy('polaris_luna_nbfpga_dev_use(polaris_cm_rp_t)
')

# open /dev/ttyS0
term_use_unallocated_ttys(polaris_cm_rp_t)

optional_policy('polaris_ngwc_scc_shm_manage(polaris_cm_rp_t)
')

ifdef('ngwc_family',
    # on nyquist in ngwe_update_member_config nvram_config is
# copied from /tmp/chassis/local/rp/tam/00001.nvram_config
polaris_nvram_manage(polaris_cm_rp_t)

# CMAN needs to create nvram_config with the right label instead of bootflash_t
gen_require(
  type polaris_nvram_file_t;
  type polaris_disk_bootflash_t;
')
filetrans_pattern(polaris_cm_rp_t, polaris_disk_bootflash_t, polaris_nvram_file_t, file, "nvram_config")

# CMANRP needs to create right label instead of bootflash_t
type polaris_user_file_t;
files_type(polaris_user_file_t);
polaris_bootflash_filetrans(polaris_cm_rp_t, polaris_user_file_t, file);
manage_files_pattern(polaris_cm_rp_t, polaris_disk_bootflash_t, polaris_user_file_t)

# on virtual platforms cman reads virtual sudi file /csl_p_0/vudi.pri
ifdef(`vxe_family',`
polaris_disk_csl_read(polaris_cm_rp_t)
')
ifdef(`wlc_family',`
polaris_disk_csl_read(polaris_cm_rp_t)
')

# from cman_util_chasfs_watch_stby_harddisk
polaris_udev_tmp_watch(polaris_cm_rp_t)

# watch read over /tmp/chassis/local/rp/tam by cman_nyq_board_auth_init
polaris_chasfs_watch_read(polaris_cm_rp_t)

# /dev/aikido access
polaris_aikido_dev_use(polaris_cm_rp_t)

# access SERDES /tmp/serdes_asic_key_dir/
optional_policy(`
polaris_serdes_asic_key_tmp_manage(polaris_cm_rp_t)
')

# run /sbin/hwclock in its own domain
clock_domtrans(polaris_cm_rp_t)

ifdef(`crankshaft_family',`
# modprobe sm_nim_adpt.ko for Switzer-CC
modutils_domtrans_insmod(polaris_cm_rp_t)
# /dev/sm_nim_adpt device files for Switzer-CC
polaris_sm_nim_adpt_dev_use(polaris_cm_rp_t)

# "show platform hardware subslot <slot/card> backplane statistics"
# triggers ethtool with ifconfig_t using fifo_file (pipe) on polaris_cm_rp_t.

gen_require(
    type ifconfig_t;
)

polaris_cmrp_use_fifo(ifconfig_t)

polaris_iosd_vcpu_read(polaris_cm_rp_t)

################################################################################
# show platform hardware slot R0 fpga
# mcp_fpga_status_cmd.sh
# /bin/sh /usr/binos/conf/bexec.sh -c /usr/binos/conf/mcp_fpga_status_cmd.sh
################################################################################
polaris_utility_domain_template(fpga_status_cmd)
polaris_bexecute_domtrans(polaris_cm_rp_t)
polaris_bexecute_domain(polaris_fpga_status_cmd_t, polaris_fpga_status_cmd_exec_t)
polaris_cmrp_use_fifo(polaris_fpga_status_cmd_t)

auth_use_nsswitch(polaris_fpga_status_cmd_t)
corecmd_exec_bin(polaris_fpga_status_cmd_t)

# PLEASE LOOK AT ME: /sys/devices/platform/nios should have Cisco specific label
# read content under /sys/devices/platform/nios
dev_read_sysfs(polaris_fpga_status_cmd_t)

ifdef(`sparrow_platform',`
polaris_dio_dev_use(polaris_cm_rp_t)
')

ifdef(`cabo_platform',`
polaris_dio_dev_use(polaris_cm_rp_t)
')

ifdef(`starfleet_platform',`
polaris_fpga_upgrade_tmp_use(polaris_cm_rp_t)
')

type polaris_fpga_upgrade_tmp_t;
files_tmp_file(polaris_fpga_upgrade_tmp_t)
files_tmp_filetrans(polaris_cm_rp_t, polaris_fpga_upgrade_tmp_t, file, "fpga_upgrade")

# cman_rp needs read access to cpu identity
# /dev/cpu/0/msr
dev_read_cpuid(polaris_cm_rp_t)
# cman_rp needs read/write access to cpu msr
# /dev/cpu/0/msr
# following definition provides that
dev_rw_cpu_microcode(polaris_cm_rp_t)

type polaris_cmrp_nim_xxd_tmp_t;
files_tmp_file(polaris_cmrp_nim_xxd_tmp_t)
files_tmp_filetrans(polaris_cm_rp_t, polaris_cmrp_nim_xxd_tmp_t, file, "nim_xxd_present")
manage_files_pattern(polaris_cm_rp_t, polaris_cmrp_nim_xxd_tmp_t, polaris_cmrp_nim_xxd_tmp_t)

ifdef(`2kp_platform',`
# blzi device
polaris_blzi_dev_use(polaris_cm_rp_t)
')

# tamlib debug file access
polaris_tamlib_dbg_file_manage(polaris_cm_rp_t)

ifdef(`wlc_family',`
# tcpdump access for RP
# packet dump is stored in file /bootflash/haIntCaptureLo.pcap
    type polaris_netutils_data_t;
polaris_pfile_type(polaris_netutils_data_t)
gen_require(
        type polaris_disk_bootflash_t;
type netutils_t;
')
filetrans_pattern(netutils_t, polaris_disk_bootflash_t, polaris_netutils_data_t, file, "haIntCaptureLo.pcap")
manage_files_pattern(netutils_t, polaris_netutils_data_t, polaris_netutils_data_t)

# tcpdump access
    netutils_run(polaris_cm_rp_t, system_r)

# pidof access
    dev_read_sysfs(polaris_cm_rp_t)
kernell_read_system_state(polaris_cm_rp_t)
domain_read_all_domains_state(polaris_cm_rp_t)

# /usr/sbin/ethtool access for show platform hardware slot x ha_port interface stats command
    sysnet_domaintrans_ifconfig(polaris_cm_rp_t)
')

optional_policy(
polaris_ds31408_dev_use(polaris_cm_rp_t)
')

polaris_ddr_dev_use(polaris_cm_rp_t)
# allow /usr/sbin/smartctl to be operated on fsadm_exec_t
fstools_exec(polaris_cm_rp_t)

# allow acces to /tmp/cmlib_eeprom_sim_smartctl.out
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "cmlib_eeprom_sim_smartctl.out")

# allow access to /dev/nvme*
dev_nvme_chr_files_manage(polaris_cm_rp_t)
dev_nvme_blk_files_manage(polaris_cm_rp_t)

#DB persistence
polaris_tlddbpersist_setup(polaris_cm_rp_t)
polaris_tmp_tlddb_persist_setup(polaris_cm_rp_t)

#code_sign_verify is started by cmd
polaris_code_verify_domtrans(polaris_cm_rp_t)

ifdef(`ngwc_family',`
# SELINUX Mismatch warning when doing power redundancy configuration commands
# Allow access /bootflash/nplusm-power
polaris_nplusm_power_manage(polaris_cm_rp_t)
')

ifdef(`crankshaft_family',`
# For USB disable feature, /sys/bus/usb/drivers/usb/*/authorized is accessed
gen_require(`
type sysfs_t;
')
allow polaris_cm_rp_t sysfs_t:file create;
dev_manage_sysfs_dirs(polaris_cm_rp_t)
')

ifdef(`petra_platform',`
#allow access to /dev/petra-fpga
polaris_iots_fpga_dev_use(polaris_cm_rp_t)
#allow access to /flash6/moncfg/cfg.dat
polaris_nvram_read(polaris_cm_rp_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmrp.te
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
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divert(-1)

dnl Stub out plaris process
define(`polaris_process',"")

dnl Stub out mqipc
define(`polaris_mqipc_service_server',"")
declare(`polaris_mqipc_service_client',"")
declare(`polaris_mqipc_service_server_elastic_client',"")

dnl Stub out lipc
define(`polaris_lipc_service_server',"")
declare(`polaris_lipc_service_client',"")

include(`polaris_ipc_ripc.m4')
include(`polaris_ipc_base_ripc_if.m4')

dnl Stub out non existent one
define(`polaris_websocket_service_server',"")
declare(`polaris_cipc_service_server',"")

include(`polaris_max_scope.m4')

divert(0)dnl
#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#
## <summary>Polaris Platform Base IPC Policy Rules.</summary>
## <required val="true">
##   Needed for each polaris platform
## </required>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_base_if.m4

No license file was found, but licenses were detected in source scan.

#  
# March 2017, Victor Kamensky
#
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#

policy_module(polarisplogd, 1.0);
gen_require('  
    type polaris_plogd_t;
  ')

polaris_btrace_data_manage(polaris_plogd_t)
polaris_crfct_data_manage(polaris_plogd_t)
polaris_chasfs_manage(polaris_plogd_t)
polaris_tdlresolve_read(polaris_plogd_t)
polaris_tlddb_list_dirs(polaris_plogd_t)
polaris_cpld_read(polaris_plogd_t)
polaris_flashlib_read(polaris_plogd_t)
polaris_ripc_sman_ui_serv_connect(polaris_plogd_t)

# originally when box starts /dev/log is symbolic link to /run/systemd/journal/dev-log
# but latter plogd reset links to its own socket: make sure that we have proper
# transition

gen_require('  
    type devlog_t;
    type syslogd_t;
  ')
allow polaris_plogd_t devlog_t:sock_file manage_sock_file_perms;
allow polaris_plogd_t devlog_t:lnk_file manage_lnk_file_perms;
dev_filetrans(polaris_plogd_t, devlog_t, sock_file, "log")
# make sure that unix_dgram_socket got transitioned into syslogd_t

type_transition polaris_plogd_t polaris_plogd_t:unix_dgram_socket syslogd_t;
allow polaris_plogd_t syslogd_t:unix_dgram_socket { bind create read };  

# autogen script misses connection between plogd
polaris_ripc_plog_serv_connect(polaris_plogd_t)

# why plogd needs dac_override capability?
allow polaris_plogd_t self:capability { dac_override };
allow polaris_plogd_t self:capability2 block_suspend;

polaris_dyncfg_tmp_read(polaris_plogd_t)

# plogd calls journalctl -f to get system logs including our AVC messages
# plogd also signals running journalctl to manage the buffer queues

gen_require('  
    type journalctl_t;
  ')
journalctl_domtrans(polaris_plogd_t)
allow polaris_plogd_t journalctl_t:process signal;

# should be moved into contrib journalctl.te? journalctl tries to read
# /proc/1/environ

gen_require('
type journalctl_t;
    
    init_read_state(journalctl_t)
    allow journalctl_t self:capability sys_resource;
    allow journalctl_t self:process setrlimit;

    # plogd calls stdbuf to set up journalctl buffering
corecmd_exec_bin(polaris_plogd_t)

    # writes into pman fifo stdout
polaris_use_btrace_fifo(journalctl_t)

    # /dev/log is symbolic link to /run/systemd/journal/dev-log
    # need ability to search in init_var_run_t /run/systemd
    # some of subjects that use syslog may not have it
gen_require(''
        attribute syslog_client_type;
    ')
    init_search_pid_dirs(syslog_client_type)
    #plog_d calls journalctl to get system log including AVC message.
    allow polaris_plogd_t journalctl_t:process signal;

    Found in path(s):
    * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisplogd.te
    No license file was found, but licenses were detected in source scan.

    #
    # July 2017, Victor Kamensky
    #
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    #

    # polaristamsrp file contexts place holder

    Found in path(s):
    * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristamsrp.fc
    No license file was found, but licenses were detected in source scan.

    #
    # February 2020, Victor Kamensky
    #
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    #

    ### <summary>Polaris ftm Policy Rules.</summary>
### <summary>
### Write ttm /var/run socket file
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface('polaris_ftm_var_sock_write',
  gen_require(
    type polaris_ftm_t;
    type polaris_ftm_var_run_t;
    type var_run_t;
  )
  write_sock_files_pattern($1, var_run_t, polaris_ftm_var_run_t)
  allow $1 polaris_ftm_t:unix_stream_socket { connectto ;
  }
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisftm.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
/usr/bin/os/conf/iptbl.sh -- gen_context(system_u:object_r:polaris_iptbl_exec_t,s0)
/tmp/rp/iptbl -d gen_context(system_u:object_r:polaris_iptbl_tmp_t,s0)
/tmp/rp/iptbl/inot_fifo -p gen_context(system_u:object_r:polaris_iptbl_tmp_t,s0)

# in polaris we have xtables-multi at wrong location
/usr/bin/xtables-multi -- gen_context(system_u:object_r:iptables_exec_t,s0)

#fman (rp/fp) acl mgmt and iptbl modules dependency
/tmp/iptbl.v4 gen_context(system_u:object_r:polaris_iptbl_tmp_t,s0)
/tmp/iptbl.v6 gen_context(system_u:object_r:polaris_iptbl_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiptbl.fc
No license file was found, but licenses were detected in source scan.

#
## polariscppsp file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppsp.if

No license file was found, but licenses were detected in source scan.

# polarisngwctblmgr file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwctblmgr.fc

No license file was found, but licenses were detected in source scan.

# dash_fpga_xaui.py is the backend python code for
# the cli “show platform hardware slot R0 xaui statistics”
/usr/bin/os/conf/dash_fpga_xaui.py -- gen_context(system_u:object_r:polaris_dash_fpga_xaui_exec_t,s0)

/usr/bin/os/bin/cmand_us -- gen_context(system_u:object_r:polaris_cm_rp_exec_t,s0)
# relabel /vol/harddisk/.inv
/vol/harddisk/.inv(/.*)? gen_context(system_u:object_r:polaris_cm_rp_inv_log_file_t,s0)
/vol/harddisk_internal/.inv(/.*)? gen_context(system_u:object_r:polaris_cm_rp_inv_log_file_t,s0)

#.inv dir is in /bootflash in Katar eWLC
/bootflash/.inv(/.*)? gen_context(system_u:object_r:polaris_cm_rp_inv_log_file_t,s0)
/usr/binos/conf/mcp_fpga_status_cmd.sh -- gen_context(system_u:object_r:polaris_fpga_status_cmd_exec_t:s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmrp.fc
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
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#
### <summary>Polaris rrm_mgr Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrrmmgr.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
### <summary>Polaris LIPC Policy Rules.</summary>

# LIPC policy

### Manage lipc files

### Domain allowed access.

### Interface('polaris_lipc_manage',
  gen_require(
    type polaris_lipc_t;
  )
  manage_dirs_pattern($1, polaris_lipc_t, polaris_lipc_t)
manage_files_pattern($1, polaris_lipc_t, polaris_lipc_t)
manage_link_files_pattern($1, polaris_lipc_t, polaris_lipc_t)
manage_fifo_files_pattern($1, polaris_lipc_t, polaris_lipc_t)
manage_sock_files_pattern($1, polaris_lipc_t, polaris_lipc_t)
)

#######################################
## <summary>
##      Getattr of lipc files directories
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface('polaris_lipc_getattr';
gen_require('type polaris_lipc_t;
')
getattr_dirs_pattern($1, polaris_lipc_t, polaris_lipc_t)
ggetattr_files_pattern($1, polaris_lipc_t, polaris_lipc_t)
ggetattr_link_files_pattern($1, polaris_lipc_t, polaris_lipc_t)
ggetattr_fifo_files_pattern($1, polaris_lipc_t, polaris_lipc_t)
ggetattr_sock_files_pattern($1, polaris_lipc_t, polaris_lipc_t)
')

#######################################
## <summary>
##      Create lipc file
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed creating lipc channel.
##      </summary>
## </param>
## <param name="channel_domain">
##      <summary>
##      Domain assigned to lipc channel.
##      </summary>
## </param>
## <param name="channel_name">
##      <summary>
##      File name of lipc channel.
##      </summary>
## </param>
#
interface('polaris_lipc_create_name',
gen_require(''
type polaris_lipc_t;
')
type_transition $1 polaris_lipc_t : sock_file $2 $3;
manage_sock_files_pattern($1, polaris_lipc_t, $2)

polaris_socketat_nfs_read($1)

# not specific enough
# type_transition $1 $1 : unix_stream_socket $2;
# allow $1 $2:unix_stream_socket { listen accept bind create write read };
')

#######################################
## <summary>
##      Write lipc file
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to connect and write into lipc file.
##      </summary>
## </param>
## <param name="channel_domain">
##      <summary>
##      Domain assigned to lipc channel.
##      </summary>
## </param>
## <param name="server">
##      <summary>
##      Domain of owner of lipc channel.
##      </summary>
## </param>
#
interface('polaris_lipc_write',
gen_require(''
type polaris_lipc_t;
')
write_sock_files_pattern($1, polaris_lipc_t, $2)
allow $1 $3:unix_stream_socket { connectto };

polaris_socketat_nfs_read($1)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislipc.if
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dnl
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dnl define(`polaris_lipc_service_server_aux',`dnl
type $1;
files_type($1)
polaris_lipc_$2_create_name($3))

define(`polaris_lipc_service_server_full',`dnl
polaris_lipc_service_server_aux(lipc_label($1), lipc_stem($1), process_label($2))dnl')

define(`polaris_lipc_service_server',`dnl
ifelse(lipc_type_map($1), `', `polaris_lipc_service_server_full($1, $2))
lipc_type_map_set(lipc_label($1), process_label($2))
')

define(`polaris_lipc_service_client_aux',`dnl
polaris_lipc_$2_write($3, $4))

define(`polaris_lipc_service_client',`dnl
polaris_lipc_service_client_aux(lipc_label($1), lipc_stem($1), process_label($2), lipc_type_map(lipc_label($1)))dnl')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_lipc_te.m4

No license file was found, but licenses were detected in source scan.

#
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#
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#

policy_module(polarisbtman, 1.0);

gen_require(`
    type polaris_btman_t;
')

polaris_crft_data_manage(polaris_btman_t)
polaris_chasfs_manage(polaris_btman_t)
polaris_tdlresolve_read(polaris_btman_t)
polaris_tdlldb_list_dirs(polaris_btman_t)
polaris_cpld_read(polaris_btman_t)
polaris_flashlib_read(polaris_btman_t)

polaris_ripc_sman_ui_serv_connect(polaris_btman_t)

polaris_db_tdlldb_dir_use(polaris_btman_t)

polaris_bexecute_domtrans(polaris_btman_t)

# script starts rsync with mcp_chvrf.sh
polaris_chvrf_domtrans(polaris_btman_t)
polaris_send_signal_to_bexecute(polaris_btman_t)

corecmdExec_bin(polaris_btman_t)
corecmdExec_shell(polaris_btman_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_btman_t)

allow polaris_btman_t self:capability { dac_override fsetid };;
polaris_cpld_read(polaris_btman_t)

# operate on all btrace files
polaris_btrace_data_manage_all(polaris_btman_t)

# btman operated on /tmp/tmppub files
type polaris_btrace_tmppub_t;
files_tmppub_file(polaris_btrace_tmppub_t)

polaris_systemd_tmppub_files_tmppub_filetrans(polaris_btrace_tmppub_t, dir, "tmppub")
filetrans_pattern(polaris_btman_t, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t, { file dir })
manage_files_pattern(polaris_btman_t, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)
manage_dirs_pattern(polaris_btman_t, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)

polaris_persistent_read(polaris_btman_t)

# in purge_old_core_files_from_harddisk function of btrace_rotate_util.c
# script removes outdated core files, so it needs read/write permission
# to polaris_core_file_t files.
polaris_core_file_manage(polaris_btman_t)

fs_getattr_xattr_fs(polaris_btman_t)

# btman checks for presence of /tmp/udev/etc/udev/harddisk
# through hwutil_is_harddisk_present function of hwutil-common.sh
polaris_udev_tmp_list_dirs(polaris_btman_t)

# when /bootflash or /harddisk are 100% full
allow polaris_btman_t self:capability sys_resource;

# access to /tmp/sw/boot/dmesg
polaris_boot_tmp_read(polaris_btman_t)

polaris_create_ldb_domtrans(polaris_btman_t)

# btman calls update_resolver_luid_paths which eventually calls open_brand function for
# given polaris executable (build_crdu_luid_file_paths, bcrdu_get_proc_path_internal,
# brand_type_string)
polaris_read_exec_domain(polaris_btman_t)

# btman create transitional files in /tmp directory
type polaris_btman_tmp_t;
files_tmp_file(polaris_btman_tmp_t)
files_tmp_filetrans(polaris_btman_tmp_t, polaris_btman_tmp_t, file)
manage_files_pattern(polaris_btman_t, polaris_btman_tmp_t, polaris_btman_tmp_t)

# use syslog
logging_send_syslog_msg(polaris_btman_t)

# btman unlink /tmp/rp/pvp/work/btman_first_inst
polaris_pvp_manage_tmp_files(polaris_btman_t)

# operate on btrace file in /bootflash
polaris_btrace_persistent_data_manage(polaris_btman_t)

gen_require(
    type polaris_btrace_data_t;
    '
    polaris_bootflash_filetrans(polaris_btman_t, polaris_btrace_data_t, dir, "tracelogs")
polaris_harddisk_filetrans(polaris_btman_t, polaris_btrace_data_t, dir, "tracelogs")
polaris_crashinfo_filetrans(polaris_btman_t, polaris_btrace_data_t, dir, "tracelogs")
polaris_bootflash_filetrans(polaris_btman_t, polaris_btrace_data_t, dir, "tan")
polaris_harddisk_filetrans(polaris_btman_t, polaris_btrace_data_t, dir, "tan")
    )

# btman creates /tmp/rp/pvp/work/btman_first_inst directory in is_first_incarnation
# function called by btrace_rotate_init
polaris_pvp_manage_tmp_files(polaris_btman_t)

####################################################################################################
# This block is policies for "request platform software system shell" CLI

# /tmp/sw/rp/0/0(rp_security/mount/usr/binos/bin/btman -f rp
-s /tmp/rp/trace-stage -w /tmp/rp/trace

```
# - needs to read/getattr on
# /tmp/sw/*/universalk9.*.SSA.pkg/usr/bin/os/sbin/in.telnetd
gen_require('  
    type telnetd_exec_t;
')
allow polaris_btman_t telnetd_exec_t:file { getattr open read };

# btman establishes leases for trace files
allow polaris_btman_t self:capability lease;

# dump_btrace_meta walks all files with nf tw
files_getattr_all_files(polaris_btman_t)
files_getattr_all_dirs(polaris_btman_t)
files_read_all_symlinks(polaris_btman_t)
files_list_non_security(polaris_btman_t)
files_read_all_files(polaris_btman_t)
files_mmap_all_files(polaris_btman_t)

# btman exports data through http protocol btm_trigger_export and schedule_newfile_export
corenet_tcp_connect_http_port(polaris_btman_t)

# LOOK AT ME: incorrect iosd-tps service_def. It should be renamed
# iosd_tps_socket-b0 in all platform.tdl files. Remove the following
# policy when CSCvp89498 is fixed.
gen_require('  
    type polaris_lipc_t;
    type polaris_pman_t;
')
polaris_lipc_write(polaris_btman_t, polaris_lipc_t, polaris_pman_t)

# btman manages some persistent crashinfo files
polaris_disk_crashinfo_manage(polaris_btman_t)

# DB persistence
polaris_tdldbpersist_setup(polaris_btman_t)
polaris_tmp_tdldb_persist_setup(polaris_btman_t)
polaris_btrace_data_watch(polaris_btman_t)

# dump_btrace_meta writes to /tmp/binary_trace.1605747053/.pkginfo
polaris_install_tmp_manage(polaris_btman_t)

#allow polaris_btman_t access to polaris_cm_rp semaphore
polaris_cm_rp_sem_use(polaris_btman_t)

Found in path(s):
```
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#
# March 2017, Victor Kamensky
#
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#

policy_module(polarisfmanrp, 1.0);

gen_require(`
    type polaris_fman_rp_t;
`)

# mqipc manual, one that missing in platform tdl file

type polaris_fman_log_bay0_peer0_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer0_mqipc_t)

# mq.-fman-log-bay0-peer1

type polaris_fman_log_bay0_peer1_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer1_mqipc_t)

# mq.-fman-log-bay0-peer2

type polaris_fman_log_bay0_peer2_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer2_mqipc_t)

# mq.-fman-log-bay0-peer3

type polaris_fman_log_bay0_peer3_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer3_mqipc_t)

# mq.-fman-log-bay0-peer4

type polaris_fman_log_bay0_peer4_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer4_mqipc_t)

# mq.-fman-log-bay0-peer5

type polaris_fman_log_bay0_peer5_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer5_mqipc_t)

# mq.-fman-log-bay0-peer6

type polaris_fman_log_bay0_peer6_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer6_mqipc_t)
# mq.-fman-log-bay0-peer7

type polaris_fman_log_bay0_peer7_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer7_mqipc_t)

# mq.-fman-log-bay0-peer8

type polaris_fman_log_bay0_peer8_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer8_mqipc_t)

polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer0_mqipc_t, fman-log-bay0-peer0)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer1_mqipc_t, fman-log-bay0-peer1)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer2_mqipc_t, fman-log-bay0-peer2)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer3_mqipc_t, fman-log-bay0-peer3)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer4_mqipc_t, fman-log-bay0-peer4)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer5_mqipc_t, fman-log-bay0-peer5)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer6_mqipc_t, fman-log-bay0-peer6)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer7_mqipc_t, fman-log-bay0-peer7)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer8_mqipc_t, fman-log-bay0-peer8)

polaris_btrace_data_manage(polaris_fman_rp_t)
polaris_crft_data_manage(polaris_fman_rp_t)
polaris_chasfs_manage(polaris_fman_rp_t)
polaris_tdlresolve_read(polaris_fman_rp_t)
polaris_tdlldb_list_dirs(polaris_fman_rp_t)
polaris_cpld_read(polaris_fman_rp_t)
polaris_flashlib_read(polaris_fman_rp_t)
polaris_lua_read(polaris_fman_rp_t)

polaris_ripc_sman_ui_serv_connect(polaris_fman_rp_t)

polaris_db_tdlldb_dir_use(polaris_fman_rp_t)

ifdef(`nyquist_platform',`
  type polaris_bt_logger_fman_rp_mqipc_t;

  gen_require('`
    type polaris_bt_logger_fman_rp_mqipc_t;

  ')

  # fman_rp may start first and create this mqipc channel
  polaris_mqipc_create_name(polaris_fman_rp_t, polaris_bt_logger_fman_rp_mqipc_t, bt_logger_fman-rp)

')

allow polaris_fman_rp_t self:udp_socket { create ioctl }

allow polaris_fman_rp_t self:capability { dac_override }
allow polaris_fman_rp_t self:capability2 block_suspend;

# not clear why fman_rp tries to load netdev-mgmtbr kernel module
# it does not exist on ultra anyway
# type=AVC msg=audit(1478126742.967:98): avc: denied [ module_request ] for pid=18020 comm="fman_rp"
kmod="netdev-mgmtbr" scontext=system_u:system_r:polaris_fman_rp_t:s0
tcontext=system_u:system_r:kernel_t:s0 tclass=system
kernel_request_load_module(polaris_fman_rp_t)

polaris_socketat_nsfs_read(polaris_fman_rp_t)

polaris_dyncfg_tmp_read(polaris_fman_rp_t)

# socketat usage from fman_punt_port_mapping_init for AF_NETLINK, SOCK_DGRAM
polaris_lfts_dev_use(polaris_fman_rp_t)
allow polaris_fman_rp_t self:netlink_tcpdiag_socket {create nlmsg_read };

# fman_rp tries to write to systemd journal when a peer is stuck
# introduced by CSCvt19772
logging_send_syslog_msg(polaris_fman_rp_t)

optional_policy(
    #fman-rp creates tmp files in acl-mgmt workflow.
polaris_fman_acl_iptbl_tmp_file(polaris_fman_rp_t)
    ')

# manually create mqipc channel: missing in TDL
type polaris_fmrp2fpm_mqipc_t;
polaris_mqipc_type(polaris_fmrp2fpm_mqipc_t)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fmrp2fpm_mqipc_t, fmrp2fpm_vulcan_mqipc)

optional_policy(
    polaris_fpm2fmrp_mqipc_use(polaris_fman_rp_t)
    ')

polaris_issu_tmp_files_read(polaris_fman_rp_t)

polaris_install_tmp_read(polaris_fman_rp_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfmanrp.te
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#
# August 2017, Shawn Lu
#
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#

policy_module(polarisrifmgr, 1.0);

gen_require(
    type polaris_rif_mgr_t;
polaris_btrace_data_manage(polaris_rif mgr_t)
polaris_crft_data_manage(polaris_rif mgr_t)
polaris_chasfs_manage(polaris_rif mgr_t)
polaris_tdlresolve_read(polaris_rif mgr_t)
polaris_tdlldb_listDirs(polaris_rif mgr_t)
polaris_cpld_read(polaris_rif mgr_t)
polaris_lua_read(polaris_rif mgr_t)
polaris_lua_read(polaris_rif mgr_t)
polaris_lua_read(polaris_rif mgr_t)
logging_send_syslog_msg(polaris_rif mgr_t)

polaris_ripc_sman_ui_serv_connect(polaris_rif mgr_t)

allow polaris_rif mgr_t self:capability { sys_nice dac_override };
allow polaris_rif mgr_t self:process { setsched };
# open /dev/ttyS0 console in sco_sys_init_sw_params
term_use_unallocated ttys(polaris_rif mgr_t)

# work with /dev/hanet device
polaris_hanet_dev_use(polaris_rif mgr_t)

# update/read chassis serial numer /csl_p_0/vudi.pri
polaris_disk_csl_manage(polaris_rif mgr_t)

# monitors native interfaces flap over /proc and netlink
kernel_read_network_state(polaris_rif mgr_t)
allow polaris_rif mgr_t self:netlink_route_socket rw_netlink_socket_perms;
allow polaris_rif mgr_t self:unix_dgram_socket create_socket_perms;

# pidof and /proc usage
dev_read_sysfs(polaris_rif mgr_t)
kernell_read_system_state(polaris_rif mgr_t)
domain_read_all_domains_state(polaris_rif mgr_t)
corecmd_exec_bin(polaris_rif mgr_t)

kernel_dontaudit_request_load_module(polaris_rif mgr_t)
# rifmgr creates udp socket to get interface flags in rif_rp_init
allow polaris_rif mgr_t self:udp_socket create_socket_perms;

corenet_tcp_bind_polaris_rif mgr_port(polaris_rif mgr_t)
corenet_tcp_connect_polaris_rif mgr_port(polaris_rif mgr_t)
corenet_udp_bind_polaris_rif mgr_port(polaris_rif mgr_t)
corenet_udp_bind_generic_node(polaris_rif mgr_t)
# March 2017, Victor Kamensky

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## <summary>Polaris stack_mgr Policy Rules.</summary>

### <summary>Read and write all stack mgr's fifo file, used as standard input/output.

### <param name="domain">

### <summary>Domain allowed access.

### </summary>

### </param>

### <rolecap/>

```c
interface(`polaris_use_stack_mgr_fifo',
gen_require(`
type polaris_stack_mgr_t;
')

write_fifo_files_pattern($1, polaris_stack_mgr_t, polaris_stack_mgr_t)
')
```

# April 2017, Victor Kamensky

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```
tmp\DMI_FIFO                      gen_context(system_u:object_r:polaris_dmi_vtyserverutild_tmp_t,s0)
```

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#
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#

### <summary>Polaris cm_cc Policy Rules.</summary>

#######################################
### <summary>
###      Execute cmmand_fp in the polaris_cm_fp_t domain.
### </summary>
### <param name="domain">
###      <summary>
###      Domain allowed to transition.
###      </summary>
### </summary>
### </param>
#
interface(`polaris_cm_cc_domtrans',
    gen_require(
        type polaris_cm_cc_t, polaris_cm_cc_exec_t;
    )
)
corecmd_search_bin($1)
domtrans_pattern($1, polaris_cm_cc_exec_t, polaris_cm_cc_t)
)

#######################################
### <summary>
###      Manage cm_cc_tmpfs files.
### </summary>
### <param name="domain">
###      <summary>
###      Domain allowed access.
###      </summary>
### </summary>
### </param>
#
interface(`polaris_cm_cc_tmpfs_manage',
    gen_require(
        type polaris_cm_cc_tmpfs_t;
    )
)
manage_files_pattern($1, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
mmap_files_pattern($1, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
## <summary>
## Check presence and unlink /tmp/nim_xxd_present file created by cman cc.
## </summary>

## <param name="domain">
## Domain allowed access.
## </param>

interface('polaris_nim_xxd_tmp_open_unlink',

`gen_require(
   type polaris_nim_xxd_tmp_t;

')

allow $1 polaris_nim_xxd_tmp_t:file { open unlink }
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmcc.if

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#
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#
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#

## <summary>Polaris LUA Policy Rules.</summary>
interface('polaris_lfts_dev_use',
  gen_require(
    type device_t;
    type polaris_lfts_device_t;
  )
  write_chr_files_pattern($1, device_t, polaris_lfts_device_t)
  read_chr_files_pattern($1, device_t, polaris_lfts_device_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislfts.if
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#
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#
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#
## <summary>Polaris ofa Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisofa.if
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#
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#
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#
/var/virtual-instance(/.*)? gen_context(system_u:object_r:polaris_var_vman_t,s0)
/bootflash/virtual-instance(/.*)? gen_context(system_u:object_r:polaris_disk_vman_t,s0)
/bootflash/virtual-instance.conf -- gen_context(system_u:object_r:polaris_disk_vman_t,s0)
/bootflash/vman_fdb(/.*)? gen_context(system_u:object_r:polaris_disk_vman_t,s0)
/vol/harddisk/virtual-instance(/.*)? gen_context(system_u:object_r:polaris_disk_vman_t,s0)
/vol/harddisk/virtual-instance.conf -- gen_context(system_u:object_r:polaris_disk_vman_t,s0)
/vol/harddisk/vman_fdb(/.*)? gen_context(system_u:object_r:polaris_disk_vman_t,s0)

#sparrow, blackheart
/flash1/virtual-instance(/.*)? gen_context(system_u:object_r:polaris_disk_vman_t,s0)
/flash1/virtual-instance.conf -- gen_context(system_u:object_r:polaris_disk_vman_t,s0)
/flash1/vman_fdb(/.*)? gen_context(system_u:object_r:polaris_disk_vman_t,s0)
policy_module(polarisodmproxy, 1.0);

gen_require(`
    type polaris_odm_proxy_t;
`)

polaris_btrace_data_manage(polaris_odm_proxy_t)
polaris_crtf_data_manage(polaris_odm_proxy_t)
polaris_chasfs_manage(polaris_odm_proxy_t)
polaris_tdlresolve_read(polaris_odm_proxy_t)
polaris_tdldb_list_dirs(polaris_odm_proxy_t)
polaris_cpld_read(polaris_odm_proxy_t)
polaris_lua_read(polaris_odm_proxy_t)
polaris_flashlib_read(polaris_odm_proxy_t)
polaris_ripc_sman_ui_serv_connect(polaris_odm_proxy_t)
polaris_db_tdldb_dir_use(polaris_odm_proxy_t)

#allow to setrlimit
allow polaris_odm_proxy_t self:capability sys_resource;
allow polaris_odm_proxy_t self:process setrlimit;
allow polaris_odm_proxy_t self:capability dac_override;

polaris_odm_clnt2svr_mqipc_create(polaris_odm_proxy_t)

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## <summary>Polaris issu_monitor Policy Rules.</summary>
### <summary>
## Execute issumonitor in the polaris_issu_monitor domain.
</summary>
### <param name="domain">
## Domain allowed to transition.
### </param>

```
interface('polaris_issu_monitor_domtrans',
    gen_require(
        type polaris_issu_monitor_t, polaris_issu_monitor_exec_t;
    )
)
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisissumonitor.if

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```
dnl
May 2018, Victor Kamensky
dnl
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dnl
Place holder to let selinux-policy makefile know that this module
dnl is autigenerated, but we have different rules for it
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisplatformipcauto.fc.in
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisplatformdbauto.te.in
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisplatformdbauto.if.in
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/autopolarisplatformipchase.te.in
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisplatformdbauto.fc.in
policy_module(polariskeyman, 1.0);

gen_require("
    type polaris_keyman_t;
"
)

polaris_btrace_data_manage(polaris_keyman_t)
polaris_crft_data_manage(polaris_keyman_t)
polaris_chasfs_manage(polaris_keyman_t)
polaris_tdlresolve_read(polaris_keyman_t)
polaris_tdlldb_list_dirs(polaris_keyman_t)
polaris_flashlib_read(polaris_keyman_t)

polaris_ripc_sman_ui_serv_connect(polaris_keyman_t)

allow polaris_keyman_t self:capability net_admin;
# keyman utilizes secure memory via ciscossl libcrypto.so (mlock)
allow polaris_keyman_t self:capability ipc_lock;
polaris_cpld_read(polaris_keyman_t)

#define __get_nprocs opens /sys/devices/system/cpu/online
ifdef('quake_platform',"
    dev_read_sysfs(polaris_keyman_t)
"
)

#define __get_nprocs opens /sys/devices/system/cpu/online
ifdef('supernova_platform',"
    dev_read_sysfs(polaris_keyman_t)
"
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariskeyman.te
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Open Source Used In Crosswork Platform Infrastructure cw-infra-opensource-4.3.0 16053
# polaristamdrp file contexts place holder

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristamdrp.fc
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#
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#
#
# /bootflash labels

/bootflash(/.*)?  gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/bootflash/ssh(/.*)?  gen_context(system_u:object_r:sshd_home_t,s0)
/bootflash/ssh/ssh_host.*_key\pub  gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/ssh/ssh_host.*_key  gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/tracelogs(/.*)?  gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/bootflash/tan(/.*)?  gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/bootflash/core(/.*)?  gen_context(system_u:object_r:polaris_core_file_t,s0)
/bootflash/debug.conf  gen_context(system_u:object_r:polaris_debug_conf_t,s0)
/bootflash/packages.conf  gen_context(system_u:object_r:polaris_packages_conf_t,s0)

# /vol/bootflash4 labels

/vol/bootflash4(/.*)?  gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/vol/bootflash4/csl_p_0(/.*)?  gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/vol/bootflash4/csl_p_1(/.*)?  gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/vol/bootflash4/csl_s_0(/.*)?  gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)
/vol/bootflash4/csl_s_1(/.*)?  gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)
/vol/bootflash4/obfl_.*  gen_context(system_u:object_r:polaris_obfl_data_t,s0)

# /harddisk labels

/vol/harddisk(/.*)?  gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)
/vol/harddisk_internal(/.*)?  gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)
/vol/harddisk/tracelogs(/.*)?  gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/vol/harddisk/tan(/.*)?  gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/vol/harddisk/core(/.*)?  gen_context(system_u:object_r:polaris_core_file_t,s0)
/vol/harddisk/debug.conf  gen_context(system_u:object_r:polaris_debug_conf_t,s0)
/vol/harddisk_internal/tracelogs(/.*)?  gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/vol/harddisk_internal/tan(/.*)?  gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/vol/harddisk_internal/core(/.*)?  gen_context(system_u:object_r:polaris_core_file_t,s0)
/vol/harddisk/packages.conf  gen_context(system_u:object_r:polaris_packages_conf_t,s0)
# on 1ng persistent storage arranged differently
/csl_p_0(/.*)?  gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/csl_p_1(/.*)?  gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/csl_s_0(/.*)?  gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)
/csl_s_1(/.*)?  gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)
/obfl(/.*)?     gen_context(system_u:object_r:polaris_obfl_data_t,s0)
/vol/disk0(/.*)? gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

# /init is symbolic link to /lib/systemd/systemd
/init  -l gen_context(system_u:object_r:init_exec_t,s0)

# /disk0 is symbolic link to /vol/disk0
/disk0 -l gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

# scooby device
/dev/scooby -c gen_context(system_u:object_r:polaris_scooby_device_t,s0)

# spa devices handled by sys_platform driver
/dev/spa0 -c gen_context(system_u:object_r:polaris_spa_device_t,s0)
/dev/spa1 -c gen_context(system_u:object_r:polaris_spa_device_t,s0)
/dev/spa2 -c gen_context(system_u:object_r:polaris_spa_device_t,s0)
/dev/spa3 -c gen_context(system_u:object_r:polaris_spa_device_t,s0)
/dev/iocp0 -c gen_context(system_u:object_r:polaris_spa_device_t,s0)

# htdp devices
/dev/htdp[0-9]* -c gen_context(system_u:object_r:polaris_htdp_device_t,s0)

# /dev/epa device on asr1k(mcp)
/dev/epa[0-9]*  -c gen_context(system_u:object_r:polaris_epa_device_t,s0)
/dev/epactrl[0-9]* -c gen_context(system_u:object_r:polaris_epa_device_t,s0)

# /dev/luna_fpga on asr1k(mcp)
/dev/luna_mbfpga -c gen_context(system_u:object_r:polaris_luna_mbfpga_device_t,s0)

# /dev/dash_fpga device on fugazi(mcp)
/dev/dash_fpga -c gen_context(system_u:object_r:polaris_dash_device_t,s0)
/dev/dash_fpga_cc0 -c gen_context(system_u:object_r:polaris_dash_device_t,s0)

# /dev/astro on asr1k(mcp)
/dev/astro  -c gen_context(system_u:object_r:polaris_astro_device_t,s0)

# /dev/oob_evfc on asr1k(mcp)
/dev/oob_evfc  -c gen_context(system_u:object_r:polaris_oob_evfc_device_t,s0)

# /dev/cpp_il on asr1k(mcp)
/dev/cpp_il  -c gen_context(system_u:object_r:polaris_cpp_il_device_t,s0)

/dev/icp_adf_ctl -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_adf_gige_wd -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismcp.fc
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dnl

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dnl define(`max_bay_map', `defn(format(``max_bay_map[%s-%s]"', `$1', `$2'))')
dnl define(`max_bay_map_set', `define(format(``max_bay_map[%s-%s]"', `$1', `$2'), `$3')')

dnl define(`max_elastic_map', `defn(format(``max_elastic_map[%s-%s-%s]"', `$1', `$2', `$3'))')
dnl define(`max_elastic_map_set', `define(format(``max_elastic_map[%s-%s-%s]"', `$1', `$2', `$3'), `$4')')

dnl define(`max_scope_map', `ifelse($2, `elastic', `max_elastic_map($1, $2, $3)', `max_bay_map($1, $2)')')

dnl define(`min_bay_ripc_map', `defn(format(``min_bay_ripc_map[%s-%s]"', `$1', `$2'))')
dnl define(`min_bay_ripc_map_set', `define(format(``min_bay_ripc_map[%s-%s]"', `$1', `$2'), `$3')')

dnl define(`min_elastic_ripc_map', `defn(format(``min_elastic_ripc_map[%s-%s-%s]"', `$1', `$2', `$3'))')
dnl define(`min_elastic_ripc_map_set', `define(format(``min_elastic_ripc_map[%s-%s-%s]"', `$1', `$2', `$3'), `$4')')

dnl define(`min_scope_ripc_map_aux', `ifelse($2, `elastic', `min_elastic_ripc_map($1, $2, $3)', `min_bay_ripc_map($1, $2)')')
dnl define(`min_scope_ripc_map', `ifelse(min_scope_ripc_map_aux($1, $2, $3), `', 0, min_scope_ripc_map_aux($1, $2, $3))')

dnl define(`max_bay_ripc_map', `defn(format(``max_bay_ripc_map[%s-%s]"', `$1', `$2'))')
dnl define(`max_bay_ripc_map_set', `define(format(``max_bay_ripc_map[%s-%s]"', `$1', `$2'), `$3')')

dnl define(`max_elastic_ripc_map', `defn(format(``max_elastic_ripc_map[%s-%s-%s]"', `$1', `$2', `$3'))')
define('max_elastic_ripc_map_set', `define(format('max_elastic_ripc_map[%s-%s-%s]', '$1', '$2', '$3'), '$4')

define('max_scope_ripc_map_aux', `ifelse($2, 'elastic', 'max_elastic_ripc_map($1, $2, $3)', 'max_bay_ripc_map($1, $2))

define('max_scope_ripc_map', `ifelse(max_scope_ripc_map_aux($1, $2, $3), '', 0, max_scope_ripc_map_aux($1, $2, $3))

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_max_scope.m4
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## <summary>Polaris periodic Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisperiodic.if
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## <summary>Polaris service_mgr Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisservicemgr.if
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#
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#

policy_module(polariscommon, 1.0);
# domain that holds all polaris processes
attribute polaris_domain;

# domain that holds all polaris processes executables
attribute polaris_exec_domain;

# domain that holds all polaris processes plus few base types that operates on
# during system start, like initrc_t and unconfined_service_t. Please remove
# unconfined types latter.
attribute polaris_extended_domain;

gen_require(`
  type unconfined_t;
  type unconfined_service_t;
  type initrc_t;
  type init_t;
`)
typeattribute unconfined_t polaris_extended_domain;
typeattribute unconfined_service_t polaris_extended_domain;
typeattribute initrc_t polaris_extended_domain;
typeattribute init_t polaris_extended_domain;

# common permissions that are safe to grant and hard to root cause.
# these permissions may need to be turned off during development or tightened
# in future releases
gen_require(`
  attribute domain;
`)

# sys_resource denial is seen due to disk full issue
# and possibly FD exceeding limit
allow domain self:capability sys_resource;

# When management interface is enabled for development Polaris device can be
# access by telnet, which directly drops into shell. It would be desirreably
# to remove telnet functionality att all. But for now we need transition
# rule to get shell running in unconfined domain.
gen_require(`
  type telnetd_t;
`)

unconfined_shell_domtrans(telnetd_t)

# This block is policies for "request platform software system shell" CLI.
# Execute bexecute in polaris_bexecute domain.
polaris_bexecute_domtrans(telnetd_t)
# /tmp/sw/rp/0/0/rp_security/mount/usr/binos/shin/in.telnetd
# -L /usr/binos/conf/brelay.sh
# - this needs read/write/create access to /tmp/rp/trace/.in_telnetd_*.bin.tmp
# which later gets renamed to /tmp/rp/trace/telnetd_service_sh_*.bin
polaris_btrace_data_manage(telnetd_t)
# mcp_telnetd_init through btrace_application_start calls get_chassis_number
# so it needs chasfs access
polaris_chasfs_read(telnetd_t)
polaris_cpld_read(telnetd_t)
polaris_btrace_LVL_config_manage(telnetd_t)

# LOOK AT ME: rsync needs sys_admin capability
# only seen when we boot in enforcing mode, localtime glibc library call
# needs time zone information and through __tz_convert function it eventually
# calls syslog function and that in turns calls Cisco syslog related
# prctl that is protected by CAP_ADMIN now
gen_require(`

    type rsync_t;
    
`) allow rsync_t self:capability sys_admin;

# mount_packages.sh systemd unit runs under init_t and it leaks unix socket
gen_require(`

    type rsync_t;
    type init_t;
    
`) allow rsync_t init_t:unix_stream_socket getattr;

# LOOK AT ME: auditd needs sys_admin capability
# only seen when we boot in enforcing mode, denials happens upon exec of
# auditdsp why is not entirely clear
/gen_require(`

    type auditd_t;
    
`) allow auditd_t self:capability sys_admin;

# LOOK AT ME:
# Because Cisco kernel features check for capability sys_admin
# before granting access to it. It turns out to be mistake because
# in SELinux universe beeing root does not mean one have sys_admin
# capability. For now grant sys_admin capability to everyone :(
/gen_require(`

    attribute domain;
    
`) allow domain self:capability sys_admin;
# LOOK AT ME:
# all polaris SMU system is based on LD_LIBRARY_PATH passing from
# parent to child, but if auxv AT_SECURE would be set to 1, glibc
# will clean LD_LIBRARY_PATH and other environment variables when
# it execve another process. We need to grant noatsecure to all
# processes
gen_require(
    attribute domain;
)
allow domain:process { noatsecure rlimitinh };

# nfs server exporting some directories like /harddisk
gen_require(
    type nfsd_t;
)
polaris_disk_bootflash_read_lnk(nfbsd_t)
polaris_harwdisk_read(nfbsd_t)

# nfs server check hugetlbfis files system
gen_require(
    type hugetlbfis_t;
)
list_dirs_pattern(nfbsd_t, hugetlbfis_t, hugetlbfis_t)

# temporarily addressing denial,
# preferable to turn on nfs_export_all_RW/RO boolean
gen_require(
    type removable_t;
)
list_dirs_pattern(nfbsd_t, removable_t, removable_t)

# firmware type
type polaris_firmware_t;
files_type(polaris_firmware_t)

# some systemd unit creates /firmware directory in initramfs
gen_require(
    attribute domain;
    type root_t;
)
filetrans_pattern(domain, root_t, polaris_firmware_t, dir, "firmware")

# handling /tmp/debug.conf, created by systemd unit
gen_require(
    type polaris_debug_conf_t;
    type unconfined_service_t;
)
files_tmp_filetrans(unconfined_service_t, polaris_debug_conf_t, {file lnk_file}, "debug.conf")
# /tmp/etc files; serving as /etc like but sitting in mutable storage
# (assuming that real /etc would become read-only eventually)
type polaris_etc_t;
files_type(polaris_etc_t);

# /tmp/sv files
type polaris_sv_tmp_t;
files_tmp_file(polaris_sv_tmp_t)

# /dev/i2c-N
type polaris_i2c_device_t;
dev_node(polaris_i2c_device_t)

# remap_mem0 device
type polaris_remap_mem_device_t;
dev_node(polaris_remap_mem_device_t)

type polaris_ebf_t;
files_type(polaris_ebf_t)

# allow all domains map/read ebf files
gen_require(`
    attribute domain;
    `)
polaris_ebf_map(domain)

# btrace files for telnetd, since telnetd is open source label
# and it does not use our domain creation template
gen_require(`
    type telnetd_t;
    `)
type polaris_telnetd_bt_t;
polaris_btrace_data_type(polaris_telnetd_bt_t)
polaris_btrace_data_client(telnetd_t, polaris_telnetd_bt_t)

type polaris_telnetd_maroon_t;
polaris_maroon_data_type(polaris_telnetd_maroon_t)
polaris_maroon_data_client(telnetd_t, polaris_telnetd_maroon_t)

###########################################################################
# "install add file" on ULTRA invokes:
# /tmp/sw rp/0/0/rp_security/mount/usr/binos/sbin/in.telnetd -L /usr/binos/conf/brelay.sh
# That needs getattr on /lib/systemd/system/ksm.service
polaris_ksm_run_check(telnetd_t)

# restorecon needs sys_resource capability
gen_require(`
type setfiles_t;
`
allow setfiles_t self:capability sys_resource;

# accessing /sys/firmware/dmi/tables/DMI
gen_require(`
    type dmidecode_t;
    type sysfs_t;
`
)mmap_files_pattern(dmidecode_t, sysfs_t, sysfs_t)
gen_require(`
    type dmidecode_t;
    type memory_device_t;
`
)allow dmidecode_t memory_device_t:chr_file map;

# called by confd_t label with it is file as stdin
polaris_confd_tmp_use_fifo(dmidecode_t)

# rpcbind binds to port
gen_require(`
    type rpcbind_t;
`
corenet_udp_bind_generic_port(rpcbind_t)

# when polaris_unconfined we need to mark all subject labels except
# iosd label to run as unconfined
ifdef(`polaris_unconfined',`
gen_require(`
    type audidt_t;
    type dhcpc_t;
    type getty_t;
    type inetd_t;
    type initrc_t;
    type init_t;
    type journalctl_t;
    type nfsd_t;
    type ntpd_t;
    type rpcbind_t;
    type rpced_t;
    type rsync_t;
    type setfiles_t;
    type sshd_t;
    type syslogd_t;
    type system_dbusd_t;
    type udev_t;
    type virtd_t;
    type virtlogd_t;
    type ldconfig_t;
type hostname_t;

) unconfined_domain(auditd_t)
unconfined_domain(dhcpc_t)
unconfined_domain(getty_t)
unconfined_domain(inetd_t)
unconfined_domain(initre_t)
unconfined_domain(init_t)
unconfined_domain(journalctl_t)
unconfined_domain(nfsd_t)
unconfined_domain(ntpd_t)
unconfined_domain(rpcbind_t)
unconfined_domain(rpcd_t)
unconfined_domain(rsync_t)
unconfined_domain(setfiles_t)
unconfined_domain(sshd_t)
unconfined_domain(syslogd_t)
unconfined_domain(system_dbusd_t)
unconfined_domain(udev_t)
unconfined_domain(virtd_t)
unconfined_domain(virtlogd_t)
unconfined_domain(ldconfig_t)
unconfined_domain(hostname_t)

) undefined('polaris_unconfined',`
optional_policy(`
gen_require(`
    type container_runtime_t;
)
unconfined_domain(container_runtime_t)
)

#define /tmp/rsync_log_dir files
type polaris_rsync_tmp_t;
files_tmp_file(polaris_rsync_tmp_t)

#define activate correct named transition for basic directories
# when code runs under unconfined_service_t, i.e calls ip
# command that runs under ifconfig_t and creates /run/netns

gen_require(`
    type unconfined_service_t;
)
domain_named_filetrans(unconfined_service_t)
gen_require(`
    type ifconfig_t;
type ifconfig_var_run_t;
allow ifconfig_t ifconfig_var_run_t:dir mounton;

# earlier invocation of ifconfig complains about tmp_t mounton
# on /sys directory
gen_require('  
    type tmp_t;
')
allow ifconfig_t tmp_t:dir mounton;

#SERDES library stores info in /tmp/serdes_asic_key_dir/*
type polaris_serdes_asic_key_tmp_t;
files_tmp_file(polaris_serdes_asic_key_tmp_t)

# /dev/shm/vrf_shm access
type polaris_vrf_shm_t;
files_type(polaris_vrf_shm_t)

# /dev/shm/cerrno_dll access
type polaris_cerr_shm_t;
files_tmpfs_file(polaris_cerr_shm_t)

# for /sbin/ip: /dev/shm/vrf_shm access in netns creation
gen_require('  
    type ifconfig_t;
')
polaris_vrf_shm_manage(ifconfig_t)

# for /sbin/ip: adds lfts device in netns creation
polaris_lfts_dev_use(ifconfig_t)

# new systemd-tmpfiles needs this permissions
gen_require('  
    type systemd_tmpfiles_t;
')
allow systemd_tmpfiles_t self:capability sys_resource;
allow systemd_tmpfiles_t self:process setrlimit;

gen_require('  
    type unconfined_service_t;
')
ssh_initrc_domtrans(unconfined_service_t)

# wlc awips
type polaris_awips_signature_file_t;
polaris_pfile_type(polaris_awips_signature_file_t)

# /usr/bin/curl
type polaris_curl_t;
type polaris_curl_exec_t;
init_system_domain(polaris_curl_t, polaris_curl_exec_t)
corenet_udp_bind_generic_node(polaris_curl_t)
auth_use_nsswitch(polaris_curl_t)
polaris_crlf_data_read(polaris_curl_t)

# for ip netns exec X curl
optional_policy(
    polaris_curl_domtrans(ifconfig_t)
)

# /etc/init.d/sshd that runs under initrc_t through ssh-keygen
# creates /config/.ssh directory if does not exist; /config
# directory is typically symlink to /bootflash
gen_require(
    type initrc_t;
    type ssh_home_t;
)
polaris_bootflash_filetrans(initrc_t, ssh_home_t, dir, ".ssh")

# /tmp/ldwm_envelope file
type polaris_ldwm_envelope_tmp_t;
files_tmp_file(polaris_ldwm_envelope_tmp_t)

# /tmp/ldwm_envelope file
# Additional policies needed for workflow
auth_use_nsswitch(polaris_tech_support_t)
dev_list_sysfs(polaris_tech_support_t)
polaris_chasfs_read(polaris_tech_support_t)
polaris_cpld_read(polaris_tech_support_t)
# Allow Is to /tmp/ufs/crashinfo
optional_policy(
    polaris_ncl_tmp_read(polaris_tech_support_t)
')

# Allow readlink to /usb0 and /usb1
optional_policy(
    fs_read_removable_symlinks(polaris_tech_support_t)
')

gen_require(
    type polaris_btrace_tmppub_t;
    type polaris_disk_bootflash_t;
    type polaris_disk_crashinfo_t;
    )

# platform_tech_support.sh creates misc files/dirs under /tmp/tmppub
type polaris_tech_support_tmp_t;
files_tm_file(polaris_tech_support_tmp_t)
filetrans_pattern(polaris_tech_support_tmp_t, polaris_btrace_tmppub_t, polaris_tech_support_tmp_t, { file dir })
# misc file directly in /tmp like /tmp/esg_tech_support_command_file_out.txt
files_tm_filetrans(polaris_tech_support_tmp_t, polaris_tech_support_tmp_t, file, "esg_tech_support_command_file_out.txt")
files_tm_filetrans(polaris_tech_support_tmp_t, polaris_tech_support_tmp_t, file, "sdwan_tech_support_command_file_out.txt")
manage_files_pattern(polaris_tech_support_tmp_t, polaris_tech_support_tmp_t, polaris_tech_support_tmp_t)
manage_dirs_pattern(polaris_tech_support_tmp_t, polaris_tech_support_tmp_t, polaris_tech_support_tmp_t)

#/bootflash/certs
type polaris_ap_cert_file_t;
files_type(polaris_ap_cert_file_t)
polaris_pfile_type(polaris_ap_cert_file_t)

# Additional policies needed for workflow when file option is used
# show platform software tech-support file bootflash:show_tech_file
polaris_bootflash_manage(polaris_tech_support_t)
polaris_disk_crashinfo_manage(polaris_tech_support_t)
fs_getattr_tmpfs(polaris_tech_support_t)
polaris_btrace_persistent_data_read(polaris_tech_support_t)

type polaris_rommon_info_tmp_t;
files_tm_filetrans(initrc_t, polaris_rommon_info_tmp_t, file, "existing_rommon_info")
manage_files_pattern(initrc_t, polaris_rommon_info_tmp_t, polaris_rommon_info_tmp_t)
fs_associate_tmpfs(polaris_rommon_info_tmp_t)

# tamlib debug file
type polaris_tamlib_dbg_file_t;
polaris_pfile_type(polaris_tamlib_dbg_file_t)
# read /proc/cmdline
kernel_read_system_state(polaris_tech_support_t)

# read rmbonbifo files such as env_var.sh
polaris_rmonbifo_tmp_read(polaris_tech_support_t)

# read /tmp/sw/boot/base_pkg
polaris_boot_tmp_read(polaris_tech_support_t)

# /dev/ddr

type polaris_ddr_device_t;
dev_node(polaris_ddr_device_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscommon.te
No license file was found, but licenses were detected in source scan.

dnl April 2018, Victor Kamensky
dnl

dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
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dnl
dnl Ripc Base Interface Map: track that type declations unique
define(`ripc_base_type_map', `defn(format(``ripc_base_type_map[%s]', `$1'))')
define(`ripc_base_type_map_set', `define(format(``ripc_base_type_map[%s]', `$1'), `$2'))

define(`ripc_base_port_map', `defn(format(``ripc_base_port_map[%s]', `$1'))')
define(`ripc_base_port_map_set', `define(format(``ripc_base_port_map[%s]', `$1'), `$2'))

define(`polaris_ripc_portcon', portcon tcp $1 gen_context(system_u:object_r:$2,s0))
define(`polaris_ripc_portcon_aux', `dnl
ifelse(ripc_base_port_map($1), `', `polaris_ripc_portcon($1, $2))
ripc_base_port_map_set($1, $2)
')

define(`polaris_ripc_portcon_many',
`polaris_ripc_portcon_aux(eval($2 + $3), $1)
ifelse($4, $3, `', `polaris_ripc_portcon_many($1, $2, eval($3 + 1), $4))')

define(`polaris_ripc_service_server_aux', `dnl
type $1, port_type, defined_port_type;
$4
')

define(`polaris_ripc_service_server_full', `dnl
polaris_ripc_service_server_aux(ripc_label($1), ripc_stem($1), process_label($2),
polaris_ripc_portcon_many(ripc_label($1), $5, min_scope_ripc_map($3, $4, $2),

Open Source Used in Crosswork Platform Infrastructure cw-infra-opensource-4.3.0 16067
max_scope_ripc_map($3, $4, $2))
')

define('polaris_ripc_service_server', "dnl
ifelse(ripc_base_type_map($1), ", ", polaris_ripc_service_server_full($1, $2, $3, $4, $5))
ripc_base_type_map_set($1, 1)
')

define('polaris_ripc_service_client', "dnl
ifelse(ripc_base_type_map($1), ", ", polaris_ripc_service_server_full($1, $2, $3, $4, $5))
ripc_base_type_map_set($1, 1)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_base_ripc_te.m4
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

## <summary>Polaris ngwc_plfm_mgr Policy Rules.</summary>

#########################################################
## <summary>
##      Read /tmp/installer files and directories
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_ngwc_plfm_mgt_tmp_manage',
    gen_require(`
        type polaris_ngwc_plfm_mgr_tmp_t;
    `)
    manage_dirs_pattern($1, polaris_ngwc_plfm_mgr_tmp_t, polaris_ngwc_plfm_mgr_tmp_t)
    manage_files_pattern($1, polaris_ngwc_plfm_mgr_tmp_t, polaris_ngwc_plfm_mgr_tmp_t)
    `)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwcplfmmgr.if
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# April 2017, Victor Kamensky
#
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#

##<summary>Polaris dmi_dmiauthd Policy Rules.</summary>

### <summary>
##     Connect to and send messages to dmiauthd.
## tmp/.DmiAuth.sock unix datagram sockets.
### </summary>
### <param name="domain">
### <summary>
##      Domain allowed access.
### </summary>
### </param>
#
interface('polaris_dmi_dmiauthd_dgram_send',
    gen_require(
        type polaris_dmi_dmiauthd_tmp_t;
        type polaris_dmi_dmiauthd_t;
    )
    allow $1 self:unix_stream_socket {create_socket_perms};
    allow $1 polaris_dmi_dmiauthd_t:unix_stream_socket { connectto };
    write_sock_files_pattern($1, polaris_dmi_dmiauthd_tmp_t,polaris_dmi_dmiauthd_tmp_t)
)

### <summary>
##      Manage dmiauthd fifo files
### </summary>
### <param name="domain">
### <summary>
##      Domain allowed access.
### </summary>
### </param>
#
interface('polaris_dmiauthd_tmp_manage',
    gen_require(
        type polaris_dmi_dmiauthd_tmp_t;
        type tmp_t;
    )
    manage_fifo_files_pattern($1, tmp_t, polaris_dmi_dmiauthd_tmp_t)
### <summary>
### Write into fifo file created by dmiauthd, typical case when
dmiauthd starts script under popen.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface('polaris_dmiauthd_use_fifo',
    gen_require(
        type polaris_dmi_dmiauthd_t;
    )
    write_fifo_files_pattern($1, polaris_dmi_dmiauthd_t, polaris_dmi_dmiauthd_t)
)

### <summary>
### Manage /tmp/netconf-yang-diag/ files
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
### </param>
### <rolebase/>
#
interface('polaris_dmiauthd_tmp_diags_manage',
    gen_require(
        type polaris_dmi_dmiauthd_tmp_diags_t;
    )
    manage_files_pattern($1, polaris_dmi_dmiauthd_tmp_diags_t, polaris_dmi_dmiauthd_tmp_diags_t)
    manage_dirs_pattern($1, polaris_dmi_dmiauthd_tmp_diags_t, polaris_dmi_dmiauthd_tmp_diags_t)
    manage_lnk_files_pattern($1, polaris_dmi_dmiauthd_tmp_diags_t, polaris_dmi_dmiauthd_tmp_diags_t)
)

### <summary>
### Read /tmp/netconf-yang-diag/ files
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
## <param>
## <rolebase/>
#
interface(`polaris_dmiauthd_tmp_diags_read',
    gen_require(`
        type polaris_dmi_dmiauthd_tmp_diags_t;
    ')
    read_files_pattern($1, polaris_dmi_dmiauthd_tmp_diags_t, polaris_dmi_dmiauthd_tmp_diags_t)
    list_dirs_pattern($1, polaris_dmi_dmiauthd_tmp_diags_t, polaris_dmi_dmiauthd_tmp_diags_t)
    read_lnk_files_pattern($1, polaris_dmi_dmiauthd_tmp_diags_t, polaris_dmi_dmiauthd_tmp_diags_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmidmiauthd.if
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# # March 2019, Shikhar Dogra
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# #
# # polarisfmancc file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfmancc.fc
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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl
define(`lipc_stem', `translit(patsubst($1, `-lipc$', `'), `-', `_'))
define(`lipc_label', `format(`polaris_%s_lipc_t', lipc_stem($1))')

dnl Lipc Type Map: track that type declations unique
define(`lipc_type_map', `defn(format(``lipc_type_map[%s]'', `$1'))')
define(`lipc_type_map_set', `define(format(``lipc_type_map[%s]'', `$1''), `$2'))

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_lipc.m4
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# # February 2020, Victor Kamensky
policy_module(polariscfgmgr, 1.0);

gen_require(`
    type polaris_cfgmgr_t;
`)
polaris_chasfs_manage(polariscfgmgr_t)

# read day0_oper.xml and write local.data.tmp
polaris_bootflash_manage(polariscfgmgr_t)
polaris_boot_tmp_read(polariscfgmgr_t)
polaris_cpld_read(polariscfgmgr_t)
polaris_tdlresolve_read(polariscfgmgr_t)
polaris_flashlib_read(polariscfgmgr_t)

polaris_ripc_sman_ui_serv_connect(polariscfgmgr_t)

polaris_db_tdlldb_dir_use(polariscfgmgr_t)

logging_send_syslog_msg(polariscfgmgr_t)

# vconfd_load_shared_schemas
polaris_confd_shared_schema_read(polariscfgmgr_t)

polaris_cedge_reset_ns(polariscfgmgr_t)

polaris_cedge_etc_manage(polariscfgmgr_t)

# /etc/version is opened via "show sdwan version"
polaris_confd_etc_read(polariscfgmgr_t)

# /var/run/.cfgmgr socket and pid

type polaris_cfgmgr_var_run_t;

files_pid_file(polariscfgmgr_var_run_t)
manage_files_pattern(polariscfgmgr_t, polariscfgmgr_var_run_t, polariscfgmgr_var_run_t)
manage_sock_files_pattern(polariscfgmgr_t, polariscfgmgr_var_run_t, polariscfgmgr_var_run_t)
files_pid_filetrans(polariscfgmgr_t, polariscfgmgr_var_run_t, { file sock_file })

# sets up symbloc link /var/run/netns/default to pid 1 netns

sysnet_manage_ifconfig_run(polariscfgmgr_t)

# PLEASE LOOK AT ME create_syslog_conf_file function in
# viptela/cfgmgr/cfgmgr_logging.c creates /etc/syslog.conf.sysklogd file
# that nobody uses in polaris

files_manage_etc_files(polariscfgmgr_t)
# in cfgmgr_vpn_namespace_add creates udp socket
allow polaris_cfgmgr_t self:udp_socket create_socket_perms;

# watch /bootflash/sdwan/day0_oper.xml
polaris_persistent_watch(polaris_cfgmgr_t)

# compute_available_memory executes /bin/df /dev/shm'
corecmd_exec_bin(polaris_cfgmgr_t)
# vip_binos_cpuinfo calls sysconf
dev_read_sysfs(polaris_cfgmgr_t)
# cfgmgr_show_system_get_elem collects SDWAN_DISK_MOUNT (/bootflash) fs info
fs_getattr_xattr_fs(polaris_cfgmgr_t)
# crashlist_refresh collects info about corefiles
polaris_core_file_read(polaris_cfgmgr_t)
# cfgmgr_show_system_get_elem collects info about /bootflash/installer fs
polaris_disk_install_read(polaris_cfgmgr_t)
# cfgmgr_show_system_get_elem() collects available mem info by executing
#/bin/df /tmp/rp/tdldb'
polaris_tdldb_list_dirs(polaris_cfgmgr_t)

#vip_binos_cpuinfo() performs file operations on PROC_CPUSTAT_FILE (/proc/stat)
polaris_disk_install_fs_getattr(polaris_cfgmgr_t)
#vip_binos_meminfo() reads PROC_MEMINFO_PATH (/proc/meminfo)
kernell_read_system_state(polaris_cfgmgr_t)

# configure ip address on system interface on vrf 1
sysnet_domtrans_ifconfig(polaris_cfgmgr_t)

# create tunnel interface in cfgmgr_tun_alloc function
corenet_rw_tun_tap_dev(polaris_cfgmgr_t)
allow polaris_cfgmgr_t self:tun_socket create;

# works if /proc accept_source_route file of system interface
kernel_rw_net_sysctls(polaris_cfgmgr_t)

# work with /tmp/xml/geostats
polaris_cedge_xml_tmp_manage(polaris_cfgmgr_t)

# work with /tmp/tmp/geostats
polaris_cedge_tmp Manage(polaris_cfgmgr_t)
allow polaris_cfgmgr_t self:process setpgid;

# map on /etc/passwd
auth_map_passwd(polaris_cfgmgr_t)

# give read permissions for /tmp/GPS_supported file created by iosd
polaris_iosd2iox_tmp_read(polaris_cfgmgr_t)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscfgmgr.te

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dnl
May 2018, Manohar Hungund
dnl
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dnl
Starfleet Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`bp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 1)
max_bay_map_set(`fp', `per_bay', 1)

min_bay_ripc_map_set(`rp', `per_bay', 0)
min_bay_ripc_map_set(`bp', `per_bay', 0)
min_bay_ripc_map_set(`cc', `per_bay', 1)
min_bay_ripc_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `per_bay', 1)
max_bay_ripc_map_set(`bp', `per_bay', 1)
max_bay_ripc_map_set(`cc', `per_bay', 1)
max_bay_ripc_map_set(`fp', `per_bay', 1)

min_bay_ripc_map_set(`rp', `global', 0)
min_bay_ripc_map_set(`bp', `global', 0)
min_bay_ripc_map_set(`cc', `global', 1)
min_bay_ripc_map_set(`fp', `global', 0)

max_bay_ripc_map_set(`rp', `global', 1)
max_bay_ripc_map_set(`bp', `global', 1)
max_bay_ripc_map_set(`cc', `global', 1)
max_bay_ripc_map_set(`fp', `global', 1)

dnl in elastic scope each process has its own value
max_elastic_map_set(`rp', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`cc', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`fp', `elastic', BPROC_ODM, 0)

max_elastic_map_set(`rp', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(`cc', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(`fp', `elastic', BPROC_WNCD, 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/bigbangmaps.m4
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dnl

dnl Nyquist Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 0)
max_bay_map_set(`fp', `per_bay', 0)

dnl in elastic scope each process has its own value
max_elastic_map_set(`rp', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`cc', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`fp', `elastic', BPROC_ODM, 0)

max_elastic_map_set(`rp', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(`cc', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(`fp', `elastic', BPROC_WNCD, 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/quake2maps.m4
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#
# August 2017, Shawn Lu
#
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#

# polarisodmproxy file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisodmproxy.fc
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#

## <summary>Polaris rif_mgr Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrifmgr.if
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#
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#

# August 2018 Man-Yee Hau
#
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/usr/cpp/bin/qfp-ucode-csr -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-csr-us -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-csx -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-c8kv -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-wlc -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-utah -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-tns -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-tns-le -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-blackheart -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-supernova -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-sparrow -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-aventus -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-cabo -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-goldbeach -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-radium -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-fugazi -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-sumatra -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-nanook -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-csr-fb -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/var/run/.rte_config -- gen_context(system_u:object_r:polaris_qfp_var_run_t,s0)

/dev/netmap -c gen_context(system_u:object_r:polaris_netmap_device_t,s0)
/dev/svc_eng_punt[0-9]* -c gen_context(system_u:object_r:polaris_sep_device_t,s0)

# qfp memif interfaces
/bootflash/SHARED-IOX/memif(/.*)? gen_context(system_u:object_r:polaris_qfp_memif_t,s0)
/tmp/memif(/.*)? gen_context(system_u:object_r:polaris_qfp_memif_t,s0)

# CSR & C8KV infiniband devices for Azure
/dev/infiniband/uverbs[0-9]* -c gen_context(system_u:object_r:polaris_infiniband_device_t,s0)

/etc/rd/d/init/d/iodbd/sh -- gen_context(system_u:object_r:polaris_iodbd_exec_t,s0)
# For Intel quickassist (qat) v1.5 - Note that mcp_family also includes this.
# fugazi uses polarismafc.fc and polarsqfp.fc so need to exclude it here.
ifndef('mcp_family',
/dev/icp_adf_ctl -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev_processes -c gen_context(system_u:object_r:polaris_icp_device_t,s)
')

# For platforms which use Intel quickassist (qat) v1.7
/dev/usdm_drv       -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/qat_adf_ctl   -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/qat_dev_processes -c gen_context(system_u:object_r:polaris_icp_device_t,s0)

# For platforms which use the musdk from the Marvell 10.3.x.x SDK
/dev/musdk-cma       -c gen_context(system_u:object_r:polaris_icp_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisqfp.fc
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#
# June 2017, Victor Kamensky
#
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#
/usr/binos/conf/telnetd_service.sh -- gen_context(system_u:object_r:polaris_tservice_telnet_exec_t,s0)
/usr/binos/conf/sshd_service.sh -- gen_context(system_u:object_r:polaris_tservice_ssh_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristservice.fc
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#
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#
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#
/usr/binos/conf/rollback_timer.sh -- gen_context(system_u:object_r:polaris_rbtimer_exec_t,s0)
/bootflash/rollback_timer(/.*)?        gen_context(system_u:object_r:polaris_rbtimer_bootflash_t,s0)
/tmp/rp/rollback_timer(/.*)?            gen_context(system_u:object_r:polaris_rbtimer_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrollbacktimer.fc
dnl
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dnl Katar WLC Platform Max Bay Limits
max_bay_map_set(`rp',`per_bay',0)
max_bay_map_set(`cc',`per_bay',3)
max_bay_map_set(`fp',`per_bay',0)

max_bay_ripc_map_set(`rp',`per_bay',0)
max_bay_ripc_map_set(`cc',`per_bay',3)
max_bay_ripc_map_set(`fp',`per_bay',0)

max_bay_ripc_map_set(`rp',`global',0)
max_bay_ripc_map_set(`cc',`global',3)
max_bay_ripc_map_set(`fp',`global',0)

dnl in elastic scope each process has its own value
max_elastic_map_set(`rp',`elastic',BPROC_ODM,1)
max_elastic_map_set(`cc',`elastic',BPROC_ODM,1)
max_elastic_map_set(`fp',`elastic',BPROC_ODM,1)

max_elastic_map_set(`rp',`elastic',BPROC_WNCD,7)
max_elastic_map_set(`cc',`elastic',BPROC_WNCD,7)
max_elastic_map_set(`fp',`elastic',BPROC_WNCD,7)

max_elastic_ripc_map_set(`rp',`elastic',BPROC_ODM,1)
max_elastic_ripc_map_set(`cc',`elastic',BPROC_ODM,1)
max_elastic_ripc_map_set(`fp',`elastic',BPROC_ODM,1)

max_elastic_ripc_map_set(`rp',`elastic',BPROC_WNCD,7)
max_elastic_ripc_map_set(`cc',`elastic',BPROC_WNCD,7)
max_elastic_ripc_map_set(`fp',`elastic',BPROC_WNCD,7)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/katarmaps.m4

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#
# June 2017, Victor Kamensky
#
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#
#
# polariscontainer file contexts place holder
# All the possible IOX flash_dir/harddisk_dir from iox_polaris.conf for docker
# Expected labels for docker as per container.fc

/bootflash/docker(/.*)?  gen_context(system_u:object_r:container_var_lib_t,s0)
/bootflash/docker/.*/config\ env  gen_context(system_u:object_r:container_share_t,s0)
/bootflash/docker/.*/containers/.*/.*\ log  gen_context(system_u:object_r:container_log_t,s0)
/bootflash/docker/.*/containers/.*/hostname  gen_context(system_u:object_r:container_share_t,s0)
/bootflash/docker/.*/init(/.*)?  gen_context(system_u:object_r:container_share_t,s0)
/bootflash/docker/.*/overlay(/.*)?  gen_context(system_u:object_r:container_share_t,s0)
/bootflash/docker/.*/overlay2(/.*)?  gen_context(system_u:object_r:container_share_t,s0)

/bootflash/iox_alt_hdd_mount_dir/docker(/.*)?
  gen_context(system_u:object_r:container_var_lib_t,s0)
/bootflash/iox_alt_hdd_mount_dir/docker/.*/config\ env
  gen_context(system_u:object_r:container_share_t,s0)
/bootflash/iox_alt_hdd_mount_dir/docker/.*/containers/.*/.*\ log
  gen_context(system_u:object_r:container_log_t,s0)
/bootflash/iox_alt_hdd_mount_dir/docker/.*/containers/.*/hostname
  gen_context(system_u:object_r:container_share_t,s0)
/bootflash/iox_alt_hdd_mount_dir/docker/.*/containers/.*/hosts
  gen_context(system_u:object_r:container_share_t,s0)
/bootflash/iox_alt_hdd_mount_dir/docker/.*/init(/.*)?
  gen_context(system_u:object_r:container_share_t,s0)
/bootflash/iox_alt_hdd_mount_dir/docker/.*/overlay(/.*)?
  gen_context(system_u:object_r:container_share_t,s0)
/bootflash/iox_alt_hdd_mount_dir/docker/.*/overlay2(/.*)?
  gen_context(system_u:object_r:container_share_t,s0)

ifdef(`nyquist_platform',``
/mnt/sd3/docker(/.*)?
  gen_context(system_u:object_r:container_var_lib_t,s0)
/mnt/sd3/docker/.*/config\ env
  gen_context(system_u:object_r:container_share_t,s0)
/mnt/sd3/docker/.*/containers/.*/.*\ log
  gen_context(system_u:object_r:container_log_t,s0)
/mnt/sd3/docker/.*/containers/.*/hostname
  gen_context(system_u:object_r:container_share_t,s0)
/mnt/sd3/docker/.*/containers/.*/hosts
  gen_context(system_u:object_r:container_share_t,s0)
/mnt/sd3/docker/.*/init(/.*)?
  gen_context(system_u:object_r:container_share_t,s0)
/mnt/sd3/docker/.*/overlay(/.*)?
  gen_context(system_u:object_r:container_share_t,s0)
/mnt/sd3/docker/.*/overlay2(/.*)?
  gen_context(system_u:object_r:container_share_t,s0)
Open Source Used In Crosswork Platform Infrastructure cw-infra-opensource-4.3.0 16080
Policy Module: polarissortfiles

policy_module(polarissortfiles, 1.0);

gen_require("type polaris_sort_files_t;")

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscontainer.fc

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# March 2017, Victor Kamensky
#
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#

policy_module(polarissortfiles, 1.0);

gen_require("type polaris_sort_files_t;")
corecmd_exec_bin(polaris_sort_files_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_sort_files_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_sort_files_t)

polaris_btrace_data_manage(polaris_sort_files_t)
polaris_chasfs_manage(polaris_sort_files_t)
polaris_rmonbifo_tmp_read(polaris_sort_files_t)
polaris_read_debug_conf(polaris_sort_files_t)
polarisPersistent_getattr(polaris_sort_files_t)
polarisPersistent_list_dirs(polaris_sort_files_t)
polaris_cpld_read(polaris_sort_files_t)
polaris_capsule_upgrade_log_use(polaris_sort_files_t)
optional_policy('polaris_gnmib_gnoi_images_read(polaris_sort_files_t)')

# Dontaudit /bootflash/#lost+found avc denials
dontaudit polaris_sort_files_t polaris_disk:chr_file { getattr };
dontaudit polaris_sort_files_t polaris_disk:blk_file { getattr };

#allow polaris_sort_files_t polaris_udev_tmp_files_t:dir { getattr search };
polaris_udev_tmp_list_dirs(polaris_sort_files_t)

optional_policy('polaris_iox_dir_list(polaris_sort_files_t)')

polaris_sandbox_file_dir_list(polaris_sort_files_t)
polaris_disk_bootflash_read_link(polaris_sort_files_t)
polaris_disk_bootflash_fifo_file_getattr(polaris_sort_files_t)
polaris_disk_bootflash_sock_file_getattr(polaris_sort_files_t)

# allow search and read under /tmp/boot directory
polaris_boot_tmp_read(polaris_sort_files_t)

#allow manage the files under /tmp/sort
type polaris_sort_files_tmp_t;
files_tmp_file(polaris_sort_files_tmp_t)
files_tmp_filetrans(polaris_sort_files_t, polaris_sort_files_tmp_t, file)
manage_files_pattern(polaris_sort_files_t, polaris_sort_files_tmp_t, polaris_sort_files_tmp_t)
# for pluggable FS, allow sort to access files on them.
polaris_getattr_removable(polaris_sort_files_t)
polaris_removable_manage(polaris_sort_files_t)
fs_read_removable_symlinks(polaris_sort_files_t)

# to look at files sort_file sometime needs to violate DAC permissions
allow polaris_sort_files_t self:capability dac_read_search;

optional_policy(
  # LOOK AT ME memif sock_file interface present in /bootflash as
  # /bootflash/SHARED-IOX/memif/memif-dp-svr, since class of the
  # object is sock_file adding it to polaris_disk does not make much
  # sense
  gen_require(
    type polaris_qfp_memif_t;
  )
  setattr_sock_files_pattern(polaris_sort_files_t, polaris_qfp_memif_t, polaris_qfp_memif_t)
)

# find runs fstatfs
fs_getattr_xattr_fs(polaris_sort_files_t)

# allow polaris_sort_files_t fs_t:filesystem getattr
fs_getattr_all_fs(polaris_sort_files_t)

# with "/bootflash"...this needs attr to access for logfile
polaris_user_file_getattr(polaris_sort_files_t)

optional_policy(
  gen_require(
    type polaris_elf_files_t;
  )
  #find /bootflash/ -printf %i %p
  allow polaris_sort_files_t polaris_elf_files_t:dir { getattr open read search };

  #stat -c %i %f %s %n /bootflash/EFI/UpdateCapsule/UpdateCapsuleFile.bin
  allow polaris_sort_files_t polaris_elf_files_t:file getattr;
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissortfiles.te
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#
# June 2017, Victor Kamensky
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
policy_module(polarisioxman, 1.0);

gen_require(
    type polaris_ioxman_t;
)

polaris_btrace_data_manage(polaris_ioxman_t)
polaris_chasfs_manage(polaris_ioxman_t)
polaris_tdlresolve_read(polaris_ioxman_t)
polaris_tdlldb_list_dirs(polaris_ioxman_t)
polaris_cpld_read(polaris_ioxman_t)
polaris_lua_read(polaris_ioxman_t)
polaris_flashlib_read(polaris_ioxman_t)
polaris_ripc_sman_ui_serv_connect(polaris_ioxman_t)
polaris_db_tdlldb_dir_use(polaris_ioxman_t)

# allow access to /bootflash/iox/ files
polaris_iox_dir_search(polaris_ioxman_t)
corennet_tcp_connect_polaris_caf_api_port(polaris_ioxman_t)

# allow read permissions for /etc/hosts file
sysnet_read_config(polaris_ioxman_t)

# ioxman interacting with caf through api http interface and
# is uses curl library to send requests to caf. curl wants
# to do getsockopt with SOL_SOCKET,
allow polaris_ioxman_t self:tcp_socket getopt;

# allow to get getattr of /proc file system
domain_read_all_domains_state(polaris_ioxman_t)
corecmd_exec_bin(polaris_ioxman_t)
corecmd_exec_shell(polaris_ioxman_t)

# allow to run mount in its own domain; guestshell_set_netns.sh
# needs it; also, read and exec the set_netns script.
# ioxman_setup_guestshell_namespace invokes the script
# using NAMESPACE_COMMAND
mount_domtrans(polaris_ioxman_t)
polaris_guestshell_files_read(polaris_ioxman_t)
polaris_guestshell_exec_files_exec(polaris_ioxman_t)
allow read of /etc/passwd

auth_use_nsswitch(polaris_ioxman_t)

# guestshell_set_netns.sh calls ps command
# ps needs access to /sys/devices/system/cpu/online
dev_read_sysfs(polaris_ioxman_t)
# ps needs access to proc_t
kernel_read_system_state(polaris_ioxman_t)

# modifies /bootflash/iox/iox_app/guestshell_iox.json
polaris_iox_files_manage(polaris_ioxman_t)

# guestshell_set_netns.sh touches /var/run/netns/guestshell
files_pid_filetrans(polaris_ioxman_t, polaris_guestshell_var_run_t, file, "guestshell")
polaris_guestshell_var_run_files_manage(polaris_ioxman_t)

# Read and write the all pty
term_use_generic_ptys(polaris_ioxman_t)

# allow ioxman_syslib.sh to set uid/gid for screen
allow polaris_ioxman_t self:capability { dac_override setgid setuid }

# ioxman execve virsh
gen_require(
    type virsh_t;
    type virsh_exec_t;
')
domtrans_pattern(polaris_ioxman_t, virsh_exec_t, virsh_t)
# virsh needs to write into /tmp/rp/trace/iox_guestshell.log
polaris_btrace_data_manage(virsh_t)

# ioxman is vman client over @vman_domain_socket socket
optional_policy(
    polaris_vman_use_client_socket(polaris_ioxman_t)
')

# ioxman uses VS_OPER_DB from virtual_services_tbl_init
polaris_tdldbpersist_setup(polaris_ioxman_t)
polaris_tmp_tdldb.persist_setup(polaris_ioxman_t)

# ioxman through libcurl library hit c-ares DNS code needs
# udp sockets access
allow polaris_ioxman_t self:udp_socket connect;

logging_send_syslog_msg(polaris_ioxman_t)

# read /opt/cisco/caf/config/system-config.ini
polaris_caf_files_read(polaris_ioxman_t)

virt_manage_sandbox_files(polaris_ioxman_t)

# handle ioxman /tmp files like /tmp/iox_xml.dat
type polaris_iox_tmp_t;
files_tmp_file(polaris_iox_tmp_t)
polaris_iox_manage_tmp_files(polaris_ioxman_t)

# by some strange reason ioxman munges files in /bootflash/tracelogs
# please see iox_tracefile_restore in ioxman/src/im_serial.c
polaris_btrace_persistent_data_manage(polaris_ioxman_t)

# virsh execved from ioxman inherits stdout from ioxman
gen_require('type polaris_ioxman_bt_t;
type virsh_t;')
allow virsh_t polaris_ioxman_bt_t:file write;

optional_policy('gen_require('attribute polaris_domain;
attribute polaris_extended_domain;
type container_runtime_t;')
typeattribute container_runtime_t polaris_domain;
typeattribute container_runtime_t polaris_extended_domain;
')

# /usr/binos/conf/shell_exec.sh policy
polaris_utility_domain_template(iox_shell)

polaris_bexecute_domain(polaris_iox_shell_t, polaris_iox_shell_exec_t)
# shell_exec call bexec.sh
polaris_bexecute_domtrans(polaris_iox_shell_t)
corecmd_exec_bin(polaris_iox_shell_t)
polaris_chasfs_read(polaris_iox_shell_t)
auth_use_nsswitch(polaris_iox_shell_t)
fs_getattr_tmpfs(polaris_iox_shell_t)

mount_domtrans(polaris_iox_shell_t)

# inherit stdin from telnetd
telnet_use_ptys(polaris_iox_shell_t)

# create files under /bootflash/iox
polaris_iox_files_manage(polaris_iox_shell_t)

# executing guestshell.sh
polaris_guestshell_exec_files_exec(polaris_iox_shell_t)
polaris_guestshell_files_read(polaris_iox_shell_t)

# executing "ip netns exec guestshell /usr/bin/ssh ..."
sysnet_exec_ifconfig(polaris_iox_shell_t)
fs_read_nfs_files(polaris_iox_shell_t)
files_mounton_rootfs(polaris_iox_shell_t)
dev_mounton_sysfs(polaris_iox_shell_t)
allow polaris_iox_shell_t self:netlink_route_socket rw_netlink_socket_perms;
dev_mount_sysfs_fs(polaris_iox_shell_t)
dev_unmount_sysfs_fs(polaris_iox_shell_t)

# executing ssh
corenet_tcp_connect_ssh_port(polaris_iox_shell_t)
ssh_exec(polaris_iox_shell_t)
allow polaris_iox_shell_t self:tcp_socket { connect create getattr getopt setopt shutdown };

# ssh creates /root/.ssh directory
userdom_create_user_home_dirs(polaris_iox_shell_t)

# read /etc/guestshell_rsa_key
polaris_guestshell_key_read(polaris_iox_shell_t)

# work with sandbox files
polaris_sandbox_file_dir_list(polaris_iox_shell_t)
polaris_caf_var_run_files_manage(polaris_iox_shell_t)

# shell_exec.sh invokes:
#  mkdir /tmp/shell_exec
#  create /tmp/shell_exec/*
type polaris_iox2iosd_tmp_t;
files_tmp_file(polaris_iox2iosd_tmp_t)
files_tmp_filetrans(polaris_iox_shell_t, polaris_iox2iosd_tmp_t, dir, ".shell_exec")
files_tmp_filetrans(polaris_iox_shell_t, polaris_iox2iosd_tmp_t, file)
#allow shell_exec to manage /tmp/ncsshd Authorized_keys
polaris_nccshd_keys_manage(polaris_iox_shell_t)
# allow shell_exec to manage /tmp/shell_exec/* files
polaris_iox2iosd_tmp_manage(polaris_iox_shell_t)
# allow shell_exec to work with files created by iosd
polaris_iosd2iox_tmp_manage(polaris_iox_shell_t)
ifdef(`nyquist_platform',`
  # Manage alternate hdd files
  polaris_iox_alt_hdd_manage(polaris_iox_shell_t)
)
ifdef(`passport_platform',
# Manage alternate hdd files
polaris_iox_alt_hdd_manage(polaris_iox_shell_t)
')

allow polaris_iox_shell_t self:capability { chown dac_override fowner fsetid setgid setuid dac_read_search }
allow polaris_iox_shell_t self:cap_users sys_admin;
allow polaris_iox_shell_t self:process setfscreate;

# LOOK AT ME very fishy iox_shell executes
# /bootflash/iox/repo-lxc/guestshell/rootfs_mnt/cisco/shell_exec.sh that
# actually can be modified from container itself. File is recreated
# each guestshell activation and it seems not executed afterwards.
# Grant access for now. Need to look closely whether it could be exploited
# in some way
virt_exec_sandbox_files(polaris_iox_shell_t)

# ip command called from iox_shell, running it under
# iox_shell domain, add required mounton on unlabled_t
files_mounton_isid(polaris_iox_shell_t)

# read guestshell net namespace file
fs_read_nsfs_files(polaris_ioxman_t)

# need to create /bootflash/gs_script/db.ini file
polaris_bootflash_manage(polaris_ioxman_t)
polaris_harddisk_manage(polaris_ioxman_t)

# run_ioxn_secure_dir.sh policy
gen_require(`
  type polaris_iox_secure_dir_t;
')
corecmd_exec_bin(polaris_iox_secure_dir_t)
auth_use_nsswitch(polaris_iox_secure_dir_t)
polaris_caf_files_read(polaris_iox_secure_dir_t)
polaris_chasfs_manage(polaris_iox_secure_dir_t)
polaris_bootflash_manage(polaris_iox_secure_dir_t)
polaris_harddisk Manage(polaris_iox_secure_dir_t)
polaris_iox_files manage(polaris_iox_secure_dir_t)

# /bin/cat9k_ssd_auth_cmds.sh
polaris_utility_domain_template(ssd_auth)

corecmd_exec_bin(polaris_ssd_auth_t)
storage_getattr_fixed_disk_dev(polaris_ssd_auth_t)

#allow to read /etc/passwd
auth_use_nsswitch(polaris_ssd_auth_t)

fs_getattr_tmpfs(polaris_ssd_auth_t)

# execute hdparam in its own domain
fstools_domtrans(polaris_ssd_auth_t)

polaris_use_btrace_fifo(polaris_ssd_auth_t)

type polaris_ssd_auth_tmp_t;
files_tmp_file(polaris_ssd_auth_tmp_t)
# bash tmp files like /tmp/sh-thd.kxX3sc
files_tmp_filetrans(polaris_ssd_auth_t, polaris_ssd_auth_tmp_t, file)
manage_files_pattern(polaris_ssd_auth_t, polaris_ssd_auth_tmp_t, polaris_ssd_auth_tmp_t)
# /tmp/ssl_blk_device created by udev
gen_require(`
    type udev_t;
    type tmpfs_t;
    type tmp_t;
`)
filetrans_pattern(udev_t, {tmpfs_t tmp_t}, polaris_ssd_auth_tmp_t, file, "ssl_blk_device")
polaris_getattr_harddisk(polaris_ssd_auth_t)

fs_read_cgroup_files(polaris_ioxman_t)

# Allow ioxman to download package files using url
polaris_caf_tmp_files_manage(polaris_ioxman_t)
polaris_cli_fs_cmds_domtrans(polaris_ioxman_t)
# ufs information captured by the chasfs utils
optional_policy(`
polaris_ncd_tmp_read(polaris_ioxman_t)
`)
gen_require(`
    type polaris_fts_client_tmp_t;
`)
manage_files_pattern(polaris_ioxman_t, polaris_fts_client_tmp_t, polaris_fts_client_tmp_t)
manage_dirs_pattern(polaris_ioxman_t, polaris_fts_client_tmp_t, polaris_fts_client_tmp_t)
allow polaris_ioxman_t tmp_t:file { create open unlink write };

# get_orchestration_template in cgroup_init_common.sh reads
# ovf-env.xml file from removable and varied
fs_read_removable_files(polaris_ioxman_t)
polaris_disk_varied_read(polaris_ioxman_t)

# writes into /tmp/trace/resource.log
optional_policy(`
polaris_vman_tmp_manage(polaris_ioxman_t)
# watch over /tmp/udev/etc/udev/usbflash1 in iox_media_chasfs_watch
polaris_udev_tmp_read(polaris_ioxman_t)
polaris_udev_tmp_watch(polaris_ioxman_t)

ifdef("nyquist_platform",
# Manage alternate hdd files
polaris_iox_alt_hdd_manage(polaris_ioxman_t)
"
)
dev_getattr_fs(polaris_iox_shell_t)
kernel_read_system_state(polaris_iox_shell_t)

gen_require(
    type virt_lxc_var_run_t;
"
)read_files_pattern(polaris_ioxman_t, virt_lxc_var_run_t, virt_lxc_var_run_t)

#sys_resource denial is seen even on factory reset
allow polaris_ioxman_t self:capability sys_resource;

ifdef("passport_platform",
# Manage alternate hdd files
polaris_iox_alt_hdd_manage(polaris_ioxman_t)
"
)
polaris_iosd_vcpu_read(polaris_ioxman_t)

# work with files like /tmp/guestinfo_status.txt
polaris_iosd2iox_tmp_manage(polaris_ioxman_t)

gen_require(
    type screen_var_run_t;
    type screen_exec_t;
"
)

# allow ioxman to set up ttys for screen
polaris_caf tty_link_manage(polaris_ioxman_t)

# allow ioxman_syslib.sh to invoke screen
screen_exec(polaris_ioxman_t)

# add entrypoint to screen_exec/can_exec permissions
allow polaris_ioxman_t screen_exec_t:file entrypoint;

# make sure /tmp/screens is labeled correctly
files_tmp_filetrans(polaris_ioxman_t, screen_var_run_t, dir, "screens")
# allow ioxman to manage /tmp/screens/<appname>_con/aux.sid
manage_files_pattern(polaris_ioxman_t, screen_var_run_t, screen_var_run_t)

# allow ioxman to manage sock_files and unix_stream_socket on screen
allow polaris_ioxman_t self:unix_stream_socket { create_socket_perms connectto }; manage_dirs_pattern(polaris_ioxman_t, screen_var_run_t, screen_var_run_t) manage_sock_files_pattern(polaris_ioxman_t, screen_var_run_t, screen_var_run_t)

# allow ioxman to transition into bexecute domain
polaris_bexecute_domtrans(polaris_ioxman_t) polaris_bexecute_domain(polaris_ioxman_t, screen_exec_t)
# allow bexecute to access the /tmp/screens/*_sid files
gen_require(' type polaris_bexecute_t; ')
manage_files_pattern(polaris_bexecute_t, screen_var_run_t, screen_var_run_t)

# allow shell_exec to manage /tmp/.ncsshd_authorized_keys
polaris_ncsshd_keys_manage(polaris_iox_shell_t) polaris_iox2iosd_tmp_manage(polaris_iox_shell_t)

# allow shell_exec to manage guestshell files
gen_require(' type container_file_t; ')
manage_files_pattern(polaris_iox_shell_t, container_file_t, container_file_t)

# allow ioxman to setattr for /dev/pts relating to screen
gen_require(' type telnetd_devpts_t; ')
allow polaris_ioxman_t telnetd_devpts_t:chr_file setattr_chr_file_perms;

# allow ioxman to access the /tmp/ttyF*. files
gen_require(' type fifo_var_run_t; ')
files_tmp_filetrans(polaris_ioxman_t, fifo_var_run_t, fifo_file) manage_fifo_files_pattern(polaris_ioxman_t, fifo_var_run_t, fifo_var_run_t)

# allow ioxman to access rootfs and sysfs
# The same is needed when guestshell uses a passwordless SSH, when users do
# like "guestshell run bash" from IOS and it provides a bash shell screen
# in IOS.

gen_require(' type ssh_home_t;')
ssh_filetrans_admin_home_content(polaris_iox_shell_t)
allow polaris_iox_shell_t ssh_home_t:dir [create search getattr];
dev_getattr_sysfs_fs(polaris_iox_shell_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisioxman.te
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#
# March 2017, Victor Kamensky
#
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#

policy_module(polarismqipc, 1.0);

attribute polaris_mqipc;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismqipc.te
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#
# March 2017, Victor Kamensky
#
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#

/var/run/cli_agent\.pid  --gen_context(system_u:object_r:polaris_cli_agent_var_run_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscliagent.fc
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#
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#
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#

policy_module(polarisvxe, 1.0);

# hanet driver used by vpcgw platform of VXE family
ifdef(`vpcgw_platform',`)
type polaris_hanet_device_t;
dev_node(polaris_hanet_device_t)
')

# on ultra in some cloud configuration runs dhclient utility
# receive meta information from cloud provider, /var/lib/dhcp
# directory is created by initc_t
gen_require(`
    type dhcpc_t;
    type initc_t;
    type dhcp_state_t;
')
files_var_lib_filetrans({ dhcpc_t initc_t }, dhcp_state_t, dir, "dhcp")

# during boot on misc cloud environment ultra image creates directory
# in /tmp to keep information received from cloud provider. Since latter
# it is copied into /varied directory let's assigned polaris_disk_varied_t
# to them
gen_require(`
    type initc_t;
    type polaris_disk_varied_t;
    type unconfined_service_t;
')
files_tmp_filetrans({ unconfined_service_t initc_t }, polaris_disk_varied_t, dir, "ami")
files_tmp_filetrans({ unconfined_service_t initc_t }, polaris_disk_varied_t, dir, "azure")
files_tmp_filetrans({ unconfined_service_t initc_t }, polaris_disk_varied_t, dir, "gcp")

# park policy for small polaris process umbrella_init.sh here
gen_require(`
    type polaris_umbrella_init_t;
')
polaris_bootflash_manage(polaris_umbrella_init_t)
corecmd_exec_bin(polaris_umbrella_init_t)
auth_use_nsswitch(polaris_umbrella_init_t)

# define added to address issues related to dependency
# on mcp-platform-tdl for db defines
# Skip for vpcgw platform
ifndef(`vpcgw_platform',`
type polaris_gnmib_t;
')

    type polaris_objstore_sem_t;
files_tmpfs_file(polaris_objstore_sem_t)

# semaphore created by systemd-tmpfiles needs map permission
gen_require(`
type systemd_tmpfiles_t;
);

mmap_files_pattern(systemd_tmpfiles_t, polaris_objstore_sem_t, polaris_objstore_sem_t)

# on vxe all processes read grub_cisco_version in polaris_disk_varied_t
gen_require(
    attribute polaris_domain;
);
polaris_disk_varied_search(polaris_domain)

type polaris_grub_bios_t;
polaris_pfile_type(polaris_grub_bios_t)

type polaris_grubver_t;
polaris_pfile_type(polaris_grubver_t)

type polaris_vxeinstall_info_t;
polaris_pfile_type(polaris_vxeinstall_info_t)

gen_require(
    type unconfined_service_t;
    type polaris_disk_varied_t;
    );

# unconfined service create /boot/.install_info if does not exist yet
filetrans_pattern(unconfined_service_t, polaris_disk_varied_t, polaris_vxeinstall_info_t, file, ".install_info")

# on C8KV all processes read grubenv in EFI disk partition
gen_require(
    attribute polaris_domain;
);
polaris_grub_efi_search(polaris_domain)

gen_require(
    type unconfined_service_t;
    type polaris_disk_varied_t;
    type polaris_obfl_data_t;
    );

# unconfined service create /boot/obfl_temp_k1/2/3 if does not exist yet
filetrans_pattern(unconfined_service_t, polaris_disk_varied_t, polaris_obfl_data_t, file, "obfl_temp_k1")
filetrans_pattern(unconfined_service_t, polaris_disk_varied_t, polaris_obfl_data_t, file, "obfl_temp_k2")
filetrans_pattern(unconfined_service_t, polaris_disk_varied_t, polaris_obfl_data_t, file, "obfl_temp_k3")

# handle /tmp/vxe_disk_XXX_YYY files
gen_require(
    type unconfined_service_t;
    );
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v1")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v2")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v3")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v4")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_gpt_v1")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_gpt_v2")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_gpt_v3")
polaris_boot_tmp_manage(unconfined_service_t)

# /etc/init.d/sshd that runs under initrc_t through ssh-keygen
# creates /config/.ssh directory if does not exist; /config
# directory is typically bootflash, but on MBRv2/MBRv4/GPTv1/GPTv3
# partition layouts it could be separate /config partition that is
# under polaris_disk_config_t label

gen_require(
    type initrc_t;
    type ssh_home_t;
')
polaris_disk_config_filetrans(initrc_t, ssh_home_t, dir, ".ssh")

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisvxe.te
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#  
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#  
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#

policy_module(polarisissumonitor, 1.0);

###########################################################################
# install_issu_monitor
###########################################################################
polaris_process_domain_template(issu_monitor)
corecmd_exec_bin(polaris_issu_monitor_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_issu_monitor_t)

polaris_btrace_data_manage(polaris_issu_monitor_t)
polaris_chasfs_manage(polaris_issu_monitor_t)
polaris_cpld_read(polaris_issu_monitor_t)
polaris_proc_rmonbifo_read(polaris_issu_monitor_t)
polaris_boot_tmp_read(polaris_issu_monitor_t)
polaris_read_debug_conf(polaris_issu_monitor_t)
# read and possibly create /bootflash/.installer/issu_crash dir
polaris_bootflash_manage(polaris_issu_monitor_t)

allow polaris_issu_monitor_t self:capability sys_resource;
allow polaris_issu_monitor_t self:process setpgid;

type polaris_issu_monitor_tmp_t;
files_tmp_file(polaris_issu_monitor_tmp_t)
files_tmp_filetrans(polaris_issu_monitor_tmp_t, polaris_issu_monitor_tmp_t, dir, "issu_mon_dir")
manage_files_pattern(polaris_issu_monitor_tmp_t, polaris_issu_monitor_tmp_t, polaris_issu_monitor_tmp_t)
manage_dirs_pattern(polaris_issu_monitor_tmp_t, polaris_issu_monitor_tmp_t, polaris_issu_monitor_tmp_t)
manage_fifo_files_pattern(polaris_issu_monitor_tmp_t, polaris_issu_monitor_tmp_t, polaris_issu_monitor_tmp_t)

# access to /tmp/ufs/harddisk
optional_policy(`
polaris_ncd_tmp_read(polaris_issu_monitor_t)
`)

# access to /bootflash/.installer/issu_crash
polaris_disk_install_read(polaris_issu_monitor_t)

# access to /tmp/sw/boot/rmonbifo/env_var.sh
polaris_rmonbifo_tmp_read(polaris_issu_monitor_t)

# read /proc/cmdline
kernel_read_system_state(polaris_issu_monitor_t)

# rm -rf /tmp/rp/issu_mon_dir
fs_getattr_tmpfs(polaris_issu_monitor_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisissumonitor.te
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#
# February 2018, Manohar Hungund
#
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#

ciscoact2(1.0);

###############################################################################
# ACT2 Chip Driver policy
###############################################################################

type polaris.act2_device_t;
dev_node(polaris_act2_device_t)

# /tmp/hw_entropy file.
# Certain platforms save entropy from main board ACT-2 chip in this file.

type polaris_hw_entropy_t;
files_tmp_file(polaris_hw_entropy_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisact2.te
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#
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#

policy_module(polariscppha, 1.0);

gen_require(
    type polaris_cpp_ha_t;
')
polaris_btrace_data_manage(polaris_cpp_ha_t)
polaris_crft_data_manage(polaris_cpp_ha_t)
polaris_chasfsmanage(polaris_cpp_ha_t)
polaris_tdlresolve_read(polaris_cpp_ha_t)
polaris_tdldb_list_dirs(polaris_cpp_ha_t)
polaris_cpld_read(polaris_cpp_ha_t)
polaris_flashlib_read(polaris_cpp_ha_t)
polaris_ripc_sman_ui_serv_connect(polaris_cpp_ha_t)
polaris_db_tdldb_dir_use(polaris_cpp_ha_t)
polaris_cpp_process(polaris_cpp_ha_t)
polaris_cpp_dev_use(polaris_cpp_ha_t)
polaris_icc_broken_relocations(polaris_cpp_ha_t)
polaris_cpp_cavium_sdk_ipc_use(polaris_cpp_ha_t)

# allow objstore access
polaris_disk_objstore_read(polaris_cpp_ha_t)
# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCvh58515)
ifdef(`crankshaft_family',`
polaris_dev_mem_use(polaris_cpp_ha_t)
')

# allow syslogging
logging_send_syslog_msg(polaris_cpp_ha_t)

optional_policy(`
polaris_cbdma_dev_use(polaris_cpp_ha_t)
')
polaris_cpld_dev_use(polaris_cpp_ha_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppha.te
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#
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#
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#

policy_module(polariscppsp, 1.0);

gen_require(`
    type polaris_cpp_sp_t;
')
polaris_btrace_data_manage(polaris_cpp_sp_t)
polaris_crft_data_manage(polaris_cpp_sp_t)
polaris_chasfs_manage(polaris_cpp_sp_t)
polaris_tdlresolve_read(polaris_cpp_sp_t)
polaris_tdlldb_list_dirs(polaris_cpp_sp_t)
polaris_cpld_read(polaris_cpp_sp_t)
polaris_flashlib_read(polaris_cpp_sp_t)
polaris_ripc_sman_ui_serv_connect(polaris_cpp_sp_t)
polaris_db_tdlldb_dir_use(polaris_cpp_sp_t)
polaris_cpp_process(polaris_cpp_sp_t)
polaris_cpp_dev_use(polaris_cpp_sp_t)
polaris_icc_broken_relocations(polaris_cpp_sp_t)
polaris_cpp_cavium_sdk_ipc_use(polaris_cpp_sp_t)

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCvh58515)
ifdef(`crankshaft_family',`
polaris_dev_mem_use(polaris_cpp_sp_t)
')

# allow syslogging
logging_send_syslog_msg(polaris_cpp_sp_t)

optional_policy(`
polaris_cbdma_dev_use(polaris_cpp_sp_t)
')
polaris_cpld_dev_use(polaris_cpp_sp_t)

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppsp.te
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#
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#
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#
/usr/binos/conf/reflector.sh -- gen_context(system_u:object_r:polaris_reflector_exec_t,s0)
/tmp/rp/reflector(/.*)? gen_context(system_u:object_r:polaris_reflector_tmp_t,s0)

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisreflector.fc
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#
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#
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#
policy_module(polarissifmgr, 1.0);

gen_require(`
  type polaris_sif_mgr_t;
')
polaris_btrace_data_manage(polaris_sif_mgr_t)
polaris_crft_data_manage(polaris_sif_mgr_t)
polaris_chasfs_manage(polaris_sif_mgr_t)
polaris_tdlresolve_read(polaris_sif_mgr_t)
polaris_tdlldb_list_dirs(polaris_sif_mgr_t)
polaris_cpld_read(polaris_sif_mgr_t)
polaris_lua_read(polaris_sif_mgr_t)
polaris_flashlib_read(polaris_sif_mgr_t)

#if romvar is not set, Set Rommon env variable needs write permission
polaris_flashlib_write(polaris_sif_mgr_t)

polaris_ripc_sman_ui_serv_connect(polaris_sif_mgr_t)
corecmd_exec_bin(polaris_sif_mgr_t)
corecmd_exec_shell(polaris_sif_mgr_t)

#if allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_sif_mgr_t)

#if allow to read /proc/mtd
kernel_read_system_state(polaris_sif_mgr_t)

#if allow write /proc/dplr_sesa
optional_policy(`
    polaris_proc_sesa_create_write(polaris_sif_mgr_t)
`)

#if access SERDES /tmp/serdes_asic_key_dir/*
polaris_serdes_asic_key_tmp_manage(polaris_sif_mgr_t)

#if allow read/write to /proc/irq/N/irq files
kernel_rw_irq_sysctls(polaris_sif_mgr_t)

#if work with /tmp files (/tmp/sm_post_result)
type polaris_sif_mgr_tmp_t;
files_tmp_file(polaris_sif_mgr_tmp_t)
files_tmp_filetrans(polaris_sif_mgr_t, polaris_sif_mgr_tmp_t, file, "sm_post_result")
files_tmp_filetrans(polaris_sif_mgr_t, polaris_sif_mgr_tmp_t, file, "fips_status")
files_tmp_filetrans(polaris_sif_mgr_t, polaris_sif_mgr_tmp_t, file, "sif_regdump_0")
files_tmp_filetrans(polaris_sif_mgr_t, polaris_sif_mgr_tmp_t, file, "sif_regdump_1")
manage_files_pattern(polaris_sif_mgr_t, tmp_t, polaris_sif_mgr_tmp_t)
polaris_cm_rp_tmp_manage(polaris_sif_mgr_t)

#if allow ipc_lock when mmap64(..) a shared mememoy with MAP_LOCKED in dplr_pkt_drv_oob.c
allow polaris_sif_mgr_t self:capability { ipe_owner dac_override ipc_lock };
#allow read from /tmp/hw_entropy
polaris_hw_entropy_read(polaris_sif_mgr_t)

polaris_obfl_data_manage(polaris_sif_mgr_t)

# /dev/dplr_intrpt usage
polaris_dplr_dev_use(polaris_sif_mgr_t)

# /dev/dmammap usage
polaris_dmammap_dev_use(polaris_sif_mgr_t)

# /dev/remap_mem0 usage
polaris_remap_mem_dev_use(polaris_sif_mgr_t)

polaris_lsmpi_dev_use(polaris_sif_mgr_t)

# open /dev/ttyS0 console in sco_sys_init_sw_params
term_use_unallocated_ttys(polaris_sif_mgr_t)

polaris_socketat_nsfs_read(polaris_sif_mgr_t)

allow polaris_sif_mgr_t self:process setsched;

# work with /dev/msi/Slot0/Doppler0/GroupN files
dev_rw_generic_chr_files(polaris_sif_mgr_t)
# /dev/msi/Slot0/Doppler0/GroupN gets polaris_dplr_device_t label
# at some point, but need above generic chr permission by some
# reason, not clear need to look a bit more
polaris_dplr_dev_use(polaris_sif_mgr_t)

# set out of band interface mac set_oobndif_mac
allow polaris_sif_mgr_t self:tcp_socket ioctl;

# LOOK AT ME: raw memory write access
polaris_dev_mem_use(polaris_sif_mgr_t)

# /dev/shm/sdm access
optional_policy('polaris_sdm_shm_manage(polaris_sif_mgr_t)
')

# LOOK AT ME: unsolicited creation of file in /bootflash
# by CSCvm43512. Backout when CSCvm99282 is fixed
polaris_bootflash_manage(polaris_sif_mgr_t)
polaris_disk_bootflash_read_lnk(polaris_sif_mgr_t)

optional_policy('}
```c

polaris_quake_i2c_manage(polaris_sif_mgr_t)
'

# __get_nprocs opens /sys/devices/system/cpu/online
ifdef(`quake_platform',`
dev_read_sysfs(polaris_sif_mgr_t)
')

optional_policy(`
polaris_ngwc_scc_shm_manage(polaris_sif_mgr_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissifmgr.te
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#
# August 2017, Shawn Lu
#
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#
#
# polariswncmgrd file contexts place holder

#gRPC certificate for ICap, written and read by wncmgrd
/bootflash/NACert.pem gen_context(system_u:object_r:polaris_icap_cert_t:s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswncmgrd.fc
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dnl
dnl July 2020, Victor Kamensky
dnl
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dnl
dnl ISRV Platform Max Bay Limits
max_bay_map_set('rp', `per_bay', 0)
max_bay_map_set('cc', `per_bay', 3)
max_bay_map_set('fp', `per_bay', 0)

max_bay_ripc_map_set('rp', `per_bay', 0)
max_bay_ripc_map_set('cc', `per_bay', 3)
max_bay_ripc_map_set('fp', `per_bay', 0)

max_bay_ripc_map_set('rp', `global', 0)
```

---

Open Source Used In Crosswork Platform Infrastructure cw-infra-opensource-4.3.0 16102
max_bay_ripc_map_set("cc", `global`, 3)
max_bay_ripc_map_set("fp", `global`, 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/isrvmaps.m4
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#
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#
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#

policy_module(polarismcp, 1.0);

# scooby device
type polaris_scooby_device_t;
dev_node(polaris_scooby_device_t)

# spa devices i.e sys_platform_module_1ng
type polaris_spa_device_t;
dev_node(polaris_spa_device_t)

# htdp device
type polaris_htdp_device_t;
dev_node(polaris_htdp_device_t)

# epaN and epactrlN devices
type polaris_epa_device_t;
dev_node(polaris_epa_device_t)

# luna_fpgs device
type polaris_luna_mbfpga_device_t;
dev_node(polaris_luna_mbfpga_device_t)

# dash fpga device (/dev/dash_fpga)
type polaris_dash_device_t;
dev_node(polaris_dash_device_t)

# astro device
type polaris_astro_device_t;
dev_node(polaris_astro_device_t)

# cpp_il device
type polaris_cpp_il_device_t;
dev_node(polaris_cpp_il_device_t)
# blzi_fpga device
type polaris_blzi_device_t;
dev_node(polaris_blzi_device_t)

# oob_evfc device
type polaris_oob_evfc_device_t;
dev_node(polaris_oob_evfc_device_t)

# ds31408 device
type polaris_ds31408_device_t;
dev_node(polaris_ds31408_device_t)

# icp_ads_ctl device
#   Note that fugazi gets this from polarisqfp module
ifndef(`fugazi_platform',`
    type polaris_icp_device_t;
dev_node(polaris_icp_device_t)
')

type polaris_cpp_htdp_device_t;
dev_node(polaris_cpp_htdp_device_t)

type polaris_cbdma_device_t;
dev_node(polaris_cbdma_device_t)

type polaris_n2_device_t;
dev_node(polaris_n2_device_t)

type polaris_cy2213_device_t;
dev_node(polaris_cy2213_device_t)

type polaris_vega_device_t;
dev_node(polaris_vega_device_t)

# Fugazi makes use of fugazi_platform.tdl for IPCs and processes definition
# and it uses mcp_platform.tdl for databases definition. The below symbols
# are referred by mcp_platform.tdl but not fugazi_platform.tdl and hence these
# type definitions.
ifdef(`fugazi_platform',`
    type polaris_fnf_agg_t;
')
optional_policy(`
    # access to /dev/icp_XXX device on asr1k platforms
    gen_require(`
        type polaris_cck_qat_t;
    ')
    polaris_icp_dev_use(polaris_cck_qat_t)
dev_list_sysfs(polaris_cck_qat_t)
polaris_chasfs_read(polaris_cck_qat_t)
polaris_cpld_read(polaris_cck_qat_t)
polaris_tdlresolve_read(polaris_cck_qat_t)
')

# Handling denial for rsync_t for socket -
# comm="rsync" path="/socket:[16784]" dev="sockfs" ino=16784
# scontext=system_u:system_r:rsync_t:s0 tcontext=system_u:system_r:init_t:s0
# gen_require:
#     type rsync_t;
# )
init_rw_stream_sockets(rsync_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismcp.te
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#
# June 2017, Victor Kamensky
#
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#
#
# polarisioxman file contexts place holder

/usr/binos/conf/shell_exec.sh -- gen_context(system_u:object_r:polaris_iox_shell_exec_t,s0)
/usr/binos/conf/run_ioxn_secure_dir.sh -- gen_context(system_u:object_r:polaris_iox_secure_dir_exec_t,s0)
/bin/cat9k_ssd_auth_cmds.sh -- gen_context(system_u:object_r:polaris_ssd_auth_exec_t,s0)
/tmp/trace/resource.log -- gen_context(system_u:object_r:polaris_iox_tmp_t,s0)
/tmp/screens(/.*) -- gen_context(system_u:object_r:screen_var_run_t,s0)
/tmp/.shell_exec(/.*) -- gen_context(system_u:object_r:polaris_iox2iosd_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisioxman.fc
No license file was found, but licenses were detected in source scan.

#
# August 2017, Victor Kamensky
#
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#

Open Source Used In Crosswork Platform Infrastructure cw-infra-opensource-4.3.0 16105
policy_module(polarisbsm, 1.0);

gen_require('type polaris_bsm_t;
')

polaris_btrace_data_manage(polaris_bsm_t)
polaris_chasfs_manage(polaris_bsm_t)
polaris_tdlresolve_read(polaris_bsm_t)
polaris_tdlldb_list_dirs(polaris_bsm_t)
polaris_cpld_read(polaris_bsm_t)
polaris_flashlib_read(polaris_bsm_t)

polaris_ripc_sman_ui_serv_connect(polaris_bsm_t)

optional_policy('polaris_bde_dev_use(polaris_bsm_t)
')

allow polaris_bsm_t self:capability sys.nice;
allow polaris_bsm_t self:process setsched;

# need access to /sys/devices/system/cpu/online
dev_read_sysfs(polaris_bsm_t)

# handling /var/tmp/bsm_bcm_shell
type polaris_bsm_bcm_shell_t;
files_type(polaris_bsm_bcm_shell_t)
gen_require('type tmp_t;
')
filetrans_pattern(polaris_bsm_t, tmp_t, polaris_bsm_bcm_shell_t, fifo_file, "bsm_bcm_shell")
manage_fifo_files_pattern(polaris_bsm_t, tmp_t, polaris_bsm_bcm_shell_t)

ifdef('vxe_family','
# bind to BSM_AGENT_CLIENT_PORT port from bsm_tlv_init
corenetscp_bind_polaris_bsm_agent_client_port(polaris_bsm_t)
')

# LOOK AT ME: raw memory write access
polaris_dev_mem_use(polaris_bsm_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbsm.te
No license file was found, but licenses were detected in source scan.

#
Open Source Used In Crosswork Platform Infrastructure cw-infra-opensource-4.3.0 16107

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#
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#

/tmp/sm_post_result -- gen_context(system_u:object_r:polaris_sif_mgr_tmp_t,s0)
tmp/fips_status -- gen_context(system_u:object_r:polaris_sif_mgr_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissifmgr.fc
No license file was found, but licenses were detected in source scan.

#
# June 2020, Cuiyan Ma
#
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#

## <summary>Polaris polarisissucompcheck Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisissucompcheck.if
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#
# March 2017, Victor Kamensky
#
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#

policy_module(polarisngwcplfmmgr, 1.0);

gen_require('type polaris_ngwc_plfm_mgr_t;
')
polaris_btrace_data_manage(polaris_ngwc_plfm_mgr_t)
polaris_crft_data_manage(polaris_ngwc_plfm_mgr_t)
polaris_chasfs_manage(polaris_ngwc_plfm_mgr_t)
polaris_tdlresolve_read(polaris_ngwc_plfm_mgr_t)
polaris_tddlb_list_dirs(polaris_ngwc_plfm_mgr_t)
polaris_cpld_read(polaris_ngwc_plfm_mgr_t)
polaris_lua_read(polaris_ngwc_plfm_mgr_t)
polaris_flashlib_read(polaris_ngwc_plfm_mgr_t)
polaris_ripc_sman_ui_serv_connect(polaris_ngwc_plfm_mgr_t)

corecmd_exec_bin(polaris_ngwc_plfm_mgr_t)
corecmd_exec_shell(polaris_ngwc_plfm_mgr_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_ngwc_plfm_mgr_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_ngwc_plfm_mgr_t)

allow polaris_ngwc_plfm_mgr_t self:capability { sys_rawio ipc_owner dac_override }
allow polaris_ngwc_plfm_mgr_t self:capability2 block_suspend;

polaris_obfl_data_manage(polaris_ngwc_plfm_mgr_t)

polaris_dyncfg_tmp_read(polaris_ngwc_plfm_mgr_t)

polaris_ngwc_shm_manage(polaris_ngwc_plfm_mgr_t)

#/dev/dmammap usage
polaris_dmammap_dev_use(polaris_ngwc_plfm_mgr_t)

#/dev/remap_mem0 usage
polaris_remap_mem_dev_use(polaris_ngwc_plfm_mgr_t)

# open /dev/ttyS0 console in edison_platform_init
term_use_unallocated_ttys(polaris_ngwc_plfm_mgr_t)

polaris_disk_license_read(polaris_ngwc_plfm_mgr_t)

allow polaris_ngwc_plfm_mgr_t self:capability { chown fowner fsetid };

type polaris_ngwc_plfm_mgr_tmp_t;
files_tmp_file(polaris_ngwc_plfm_mgr_tmp_t)
files_tmp_filetrans(polaris_ngwc_plfm_mgr_t, polaris_ngwc_plfm_mgr_tmp_t, file, "pm_post_result")
files_tmp_filetrans(polaris_ngwc_plfm_mgr_t, polaris_ngwc_plfm_mgr_tmp_t, dir, "microcode_update")
files_tmp_filetrans(polaris_ngwc_plfm_mgr_t, polaris_ngwc_plfm_mgr_tmp_t, dir, "mcu_upgrading")
manage_files_pattern(polaris_ngwc_plfm_mgr_t, polaris_ngwc_plfm_mgr_tmp_t, polaris_ngwc_plfm_mgr_tmp_t)
manage_dirs_pattern(polaris_ngwc_plfm_mgr_t, polaris_ngwc_plfm_mgr_tmp_t, polaris_ngwc_plfm_mgr_tmp_t)

# LOOK AT ME: raw memory write access
polaris_dev_mem_use(polaris_ngwc_plfm_mgr_t)

# create /tmp/hw_entropy file anf fill with info from act2
polaris_hw_entropy_create(polaris_ngwc_plfm_mgr_t)

polaris_boot_tmp_read(polaris_ngwc_plfm_mgr_t)
polaris_flashlib_write(polaris_ngwc_plfm_mg_t)

# check existence of /tmp/tam_cfg_done
polaris_tam_getattrs_tmpdirs(polaris_ngwc_plfm_mg_t)

# LOOK AT ME: Allow access to bootflash /flash/tam_client_app.log. file access
# remove after CSCvh66533 fixed
polaris_bootflash_manage(polaris_ngwc_plfm_mg_t)

# scans /sys/devices/pci0000:00/0000:00:00.0
dev_read_sysfs(polaris_ngwc_plfm_mg_t)

# rsync nvram_config file across stack
# rsync_exec(polaris_ngwc_plfm_mg_t)
gen_require(`
  type rsync_t;
`)
rsync_entry_domtrans(polaris_ngwc_plfm_mg_t, rsync_t)
allow rsync_t polaris_ngwc_plfm_mg_t:process sigchld;
# write access to /dev/ttyS0
term_write_unallocated_ttys(rsync_t)

# reads from, populates chasfs with values and deletes /tmp/package_biv_sums
polaris_kgv_data_manage(polaris_ngwc_plfm_mg_t)

#/dev/shm/sdm access
optional_policy(`
polaris_sdm_shm_manage(polaris_ngwc_plfm_mg_t)
`)

# platform manager moves 00001.nvram_config file to /bootflash/nvram_config
polaris_nvram_manage(polaris_ngwc_plfm_mg_t)
allow polaris_ngwc_plfm_mg_t self:process setfscreate;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwcplfmmgr.te
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#
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#
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#

policy_module(polarisgrmgr, 1.0);
gen_require(
    type polaris_gr_mgr_t;
)

polaris_crft_data_manage(polaris_gr_mgr_t)
polaris_chasfs_manage(polaris_gr_mgr_t)
polaris_tldresolve_read(polaris_gr_mgr_t)
polaris_cpld_read(polaris_gr_mgr_t)
polaris_lua_read(polaris_gr_mgr_t)
polaris_ripc_sman_ui_serv_connect(polaris_gr_mgr_t)

allow polaris_gr_mgr_t self:capability { dac_override dac_read_search };
#DB persistence
polaris_tlddbpersist_setup(polaris_gr_mgr_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgrmgr.te
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#
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#
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#

# ngio devices
/dev/ngio[0-9]* -c gen_context(system_u:object_r:polaris_ngio_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiomd.fc
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#
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#
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#

/tmp/idope_svr gen_context(system_u:object_r:polaris_fed_debug_sock_t,s0)
/tmp/shfwd_svr gen_context(system_u:object_r:polaris_fed_debug_sock_t,s0)
/tmp/pktgen.txt gen_context(system_u:object_r:polaris_fed_debug_tmp_t,s0)
/tmp/DopeElam.sh gen_context(system_u:object_r:polaris_fed_debug_tmp_t,s0)
/tmp/MemDumpElam.sh gen_context(system_u:object_r:polaris_fed_debug_tmp_t,s0)
/dcmlog.txt -- gen_context(system_u:object_r:polaris_fed_debug_dcmlog_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwcfeddebug.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
policy_module(polariscpld, 1.0);

###############################################################################
# CPLD Driver policy
###############################################################################

# note polaris_sysfs_cpld_t is defined in kernel/devices.te, since genfscon statements
# could be only in base policy

type polaris_cpld_device_t;
dev_node(polaris_cpld_device_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscpld.te
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#
# August 2017, Shawn Lu
#
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#
policy_module(polarisrogued, 1.0);

gen_require(`
    type polaris_rogued_t;
`)

polaris_btrace_data_manage(polaris_rogued_t)
polaris_chasfs_manage(polaris_rogued_t)
polaris_tdlresolve_read(polaris_rogued_t)
polaris_tdlldb_list_dirs(polaris_rogued_t)
polaris_cpld_read(polaris_rogued_t)
polaris_lua_read(polaris_rogued_t)
polaris_flashlib_read(polaris_rogued_t)

polaris_ripc_sman_ui_serv_connect(polaris_rogued_t)

polaris_db_tdldb_dir_use(polaris_rogued_t)

# allow to use setrlimit
allow polaris_rogued_t self:process setrlimit;
allow polaris_rogued_t self:capability sys_resource;
allow polaris_rogued_t self:capability dac_override;

# stuff related to vrf support of the socket
polaris_lfts_dev_use(polaris_rogued_t)
polaris_socketat_nsfs_read(polaris_rogued_t)

### allow to open udp socket on RDLP port 6532
corenet_udp_bind_polaris_rdlp_port(polaris_rogued_t)
corenet_udp_bind_generic_node(polaris_rogued_t)
allow polaris_rogued_t self:udp_socket { create_socket_perms recv_msg send_msg };

# reading images/ap_capabilities.xml
polaris_wlc_ap_images_read(polaris_rogued_t)

# syslogs in RLDP
logging_send_syslog_msg(polaris_rogued_t)

#DB persistence
polaris_tdldbpersist_setup(polaris_rogued_t)
polaris_tmp_tdldb_persist_setup(polaris_rogued_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrogued.te
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#
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#
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#

policy_module(polariscmm, 1.0);

gen_require(
    type polaris_cmm_t;
')

---

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polaris_btrace_data_manage(polaris_cmm_t)
polaris_crft_data_manage(polaris_cmm_t)
polaris_chasfs_manage(polaris_cmm_t)
polaris_tdlresolve_read(polaris_cmm_t)
polaris_tdlldb_list_dirs(polaris_cmm_t)
polaris_cpld_read(polaris_cmm_t)
polaris_flashlib_read(polaris_cmm_t)
polaris_ripc_sman_ui_serv_connect(polaris_cmm_t)

allow polaris_cmm_t self:capability dac_override;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmm.te
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Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_base_ripc_if.m4
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_mqipc_fc.m4
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_process_fc.m4
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#

# polarisofa file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisofa.fc
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#
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#

## <summary>Polaris emd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisemd.if
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#
# June 2017, Victor Kamensky
#
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#

policy_module(polariscaf, 1.0);

gen_require(
    type polaris_caf_t;
    type polaris_caf_exec_t;
    type usr_t;
)

ifdef(`nyquist_platform`,
    type polaris_sioxcd_rp_t;
)

# Allow read of /etc/passwd
auth_map_passwd(polaris_sioxcd_rp_t)

# Allow usage of ls in helper script
corecmd_exec_bin(polaris_sioxcd_rp_t)

# Allow sysfs read
dev_list_sysfs(polaris_sioxcd_rp_t)

# Allow create/write/open of files under tmp
type polaris_sioxcd_rp_tmp_t;
files_tmp_file(polaris_sioxcd_rp_tmp_t)
files_tmp_filetrans(polaris_sioxcd_rp_t, polaris_sioxcd_rp_tmp_t, { dir file })
manage_dirs_pattern(polaris_sioxcd_rp_t, polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t)
manage_files_pattern(polaris_sioxcd_rp_t, polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t)
manage_fifo_files_pattern(polaris_sioxcd_rp_t, polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t)

# Allow losetup in helper script to run in its own domain
fstools_domtrans(polaris_sioxcd_rp_t)

# Allow mount/umount in its own domain
mount_domtrans(polaris_sioxcd_rp_t)

# Allow /tmp/sw/boot read
polaris_boot_tmp_read(polaris_sioxcd_rp_t)

# Allow /tmp/tmppub read
polaris_btrace_tmppub_read(polaris_sioxcd_rp_t)

# Allow iox_polaris.conf read
polaris_caf_files_read(polaris_sioxcd_rp_t)

# Allow chasfs access
polaris_chasfs_manage(polaris_sioxcd_rp_t)

# Allow /sys/devices/platform/cpld/board_vtype read
polaris_cpld_read(polaris_sioxcd_rp_t)

# Allow debug.conf access
polaris_read_debug_conf(polaris_sioxcd_rp_t)

# Allow cats /tmp/sw/boot/rmonbifo/boardsubtype
polaris_rmonbifo_tmp_read(polaris_sioxcd_rp_t)

# Allow console logging
term_open_unallocated_ttys(polaris_sioxcd_rp_t)

# Allow capability 1/24 access
allow polaris_sioxcd_rp_t self:capability { dac_override sys_resource };

# Transition to chvrf domain needed by push_using_rsync
polaris_chvrf_domtrans(polaris_sioxcd_rp_t)

# Allow flashutil
polaris_flashutil_read(polaris_sioxcd_rp_t)

# logger needs to run pidof
dev_read_sysfs(polaris_sioxcd_rp_t)
kernell_read_system_state(polaris_sioxcd_rp_t)
domain_read_all_domains_state(polaris_sioxcd_rp_t)

# Manage alternate hdd files
polaris_iox_alt_hdd_manage(polaris_sioxcd_rp_t)

# Allow ls /tmp/ufs/crashinfo
optional_policy(`
polaris_ncd_tmp_read(polaris_sioxcd_rp_t)
`)

# Allow logger which is used for syslog messages
allow polaris_sioxcd_rp_t self:unix_dgram_socket { connect create };
logging_send_syslog_msg(polaris_sioxcd_rp_t)

# Allow standby to access /dev/sda3
fs_getattr_xattr_fs(polaris_sioxcd_rp_t)
# Allowgetattr under iox_alt_hdd_mount_dir
polaris_iox_alt_hdd_getattr(polaris_sioxcd_rp_t)
')

polaris_chasfs_manage(polaris_caf_t)
polaris_btrace_data_manage(polaris_caf_t)
polaris_cpld_read(polaris_caf_t)
polaris_boot_tmp_read(polaris_caf_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_caf_t)
corecmd_exec_bin(polaris_caf_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_caf_t)

# run-caf.sh invokes startup.py. This leads to node_t:tcp_socket node_bind
corenetscp bind generic node(polaris_caf_t)

allow polaris_caf_t self:capability { net_admin sys_resource };
allow polaris_caf_t self:tcp_socket { accept listen create_socket_perms };
allow polaris_caf_t self:udp_socket create_socket_perms;
allow polaris_caf_t self:unix_dgram_socket { create_socket_perms sendto };
allow polaris_caf_t self:cap_users { sys_admin sys ptrace setgid setuid sys_chroot };

# df needs to have getattr on many file/dir/fs
fs_getattr_all_fs(polaris_caf_t)
fs_getattr_all_files(polaris_caf_t)
files_getattr_all_dirs(polaris_caf_t)
dev_getattr_all_chr_files(polaris_caf_t)
files_getattr_all_mountpoints(polaris_caf_t)

# df on "/" needs fs_t:filesystem getattr
fs_getattr_xattr_fs(polaris_caf_t)

# allow execution of /usr/sbin/brctl
brctl_domtrans(polaris_caf_t)

#allow open/read/search cgroup files like /sys/fs/cgroup/cpu,cpuaacct/machine
fs_read_cgroup_files(polaris_caf_t)
fs_list_cgroup_dirs(polaris_caf_t)

# add new type for /guestshell files and allow CAF to manage them
type polaris_guestshell_t;
files_type(polaris_guestshell_t)
manage_files_pattern(polaris_caf_t, polaris_guestshell_t, polaris_guestshell_t)
manage_lnk_files_pattern(polaris_caf_t, polaris_guestshell_t, polaris_guestshell_t)
manage_dirs_pattern(polaris_caf_t, polaris_guestshell_t, polaris_guestshell_t)

# required to support guestshell enable, which creates <iox-storage>/iox/repo/guestshell
relabelto_files_pattern(polaris_caf_t, polaris_guestshell_t, polaris_guestshell_t)

# run_ioxn_caf.sh invokes run-caf.sh which executes "ip"
sysnet_domtrans_ifconfig(polaris_caf_t)
# allow netns operations
sysnet_manage_ifconfig_run(polaris_caf_t)

libs_domtrans_ldconfig(polaris_caf_t)

# add new type for /bootflash/iox files and allow CAF to manage them
type polaris_iox_files_t;
polaris_disk_type(polaris_iox_files_t)
polaris_iox_files_manage(polaris_caf_t)

# need open, read, ioctl, getattr on /bootflash/debug.conf
polaris_read_debug_conf(polaris_caf_t)

# run_ioxn_caf.sh cats /tmp/sw/boot/rmonbifo/boardsubtype
polaris_rmonbifo_tmp_read(polaris_caf_t)

# pvsm_cpu.sh reads /tmp/cgroup.log
optional_policy('polaris_vman_tmp_manage(polaris_caf_t)
')

# allow to read /proc/cpuinfo
kernel_read_system_state(polaris_caf_t)

optional_policy('container_runtime_domtrans(polaris_caf_t)
')

# add new type for /opt/cisco/caf files and allow CAF to manage them
type polaris_caf_files_t;
files_type(polaris_caf_files_t)
files_root_filetrans(polaris_caf_t, polaris_caf_files_t, dir)
files_root_filetrans(polaris_caf_t, polaris_caf_exec_t, dir, "scripts")
manage_dirs_pattern(polaris_caf_t, polaris_caf_files_t, polaris_caf_files_t)
manage_files_pattern(polaris_caf_t, polaris_caf_files_t, polaris_caf_files_t)
manage_lnk_files_pattern(polaris_caf_t, polaris_caf_files_t, polaris_caf_files_t)

gen_require('type polaris_hm_t;
')
polaris_caf_files_read(polaris_hm_t)

# this label is created for sharing of core file dirs between host and containers
type polaris_caf_core_files_t;
polaris_disk_type(polaris_caf_core_files_t)
# transition /local files and dirs
files_root_filetrans(polaris_caf_t, polaris_caf_core_files_t, dir, "local")
polaris_btrace_data_manage(polaris_caf_core_files_t)
manage_files_pattern(polaris_caf_core_files_t, usr_t, usr_t)

# manage local core files between host and container
polaris_caf_local_core_files_manage(polaris_caf_t)
polaris_caf_local_core_files_manage(brctl_t)

# run_ioxn_caf.sh invokes startup.py that eventually through resourcemanager.py
# calls cpu_count_logical function in order to get number of cores and which
# needs read access to /sys/devices/system/cpu/online
dev_read_sysfs(polaris_caf_t)

# run-caf.sh modifies iox_polaris.conf; backup is saved due to "sed-i.bak".
# in order to preserve security context, setfscreate is invoked
allow polaris_caf_t self:process setfscreate;

# work with /var/log/caf/ files
type polaris_caf_log_t;
logging_log_file(polaris_caf_log_t)
manage_files_pattern(polaris_caf_t, polaris_caf_log_t, polaris_caf_log_t)
manage_dirs_pattern(polaris_caf_t, polaris_caf_log_t, polaris_caf_log_t)
logging_log_filetrans(polaris_caf_t, polaris_caf_log_t, dir, "caf")
logging_log_filetrans(polaris_caf_t, polaris_caf_log_t, dir, "docker")
corenet_tcp_bind_polaris_caf_api_port(polaris_caf_t)

virt_stream_connect(polaris_caf_t)
virt_read_config(polaris_caf_t)

# allow to get getattr of /proc file system
domain_read_all_domains_state(polaris_caf_t)

# allow access to /etc/guestshell_rsa_key* files
type polaris_guestshell_ssh_key_t;
files_type(polaris_guestshell_ssh_key_t)
files_etc_filetrans(polaris_caf_t, polaris_guestshell_ssh_key_t, file, "guestshell_rsa_key")
files_etc_filetrans(polaris_caf_t, polaris_guestshell_ssh_key_t, file, "guestshell_rsa_key.pub")
manage_files_pattern(polaris_caf_t, polaris_guestshell_ssh_key_t, polaris_guestshell_ssh_key_t)

# add new type for "internal" temp files created by underlying python modules when
# user-level python scripts (e.g., run_ioxn_caf.sh, run-caf.sh, etc) performs init;
# we are now creating them using TMPDIR=/tmp/caf; and, allow CAF to manage these
# internal temp files; in addition, underlying python-infra invokes __mmap() that
# somehow translates to... execute stuff like "/tmp/caf/#97893 (deleted)"

type polaris_caf_tmp_files_t;
files_tmp_file(polaris_caf_tmp_files_t)
files_tmp_filetrans(polaris_caf_t, polaris_caf_tmp_files_t, dir)
files_tmp_filetrans(polaris_caf_t, polaris_caf_tmp_files_t, file)
manage_files_pattern(polaris_caf_t, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
manage_dirs_pattern(polaris_caf_t, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)

# python through libffi tries to mmap open file with PROT_EXEC, it triggers need
# for execute permission
allow polaris_caf_t polaris_caf_tmp_files_t:file execute;
allow polaris_caf_t polaris_caf_tmp_files_t:file map;

# python3 seems to do a setxattr syscall
# A folder like /bootflash/iox/repo/guestshell/extract_archive
# contains files that are extracted from a tarball and are
# made polaris_caf_tmp_files_t because of the files_tmp_filetrans rule
relabel_files_pattern(polaris_caf_t, polaris_iox_files_t, polaris_iox_files_t)
relabel_files_pattern(polaris_caf_t, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)

# allow to run e2fsck in its own domain
fstools_domtrans(polaris_caf_t)

# allow to run mount in its own domain
mount_domtrans(polaris_caf_t)

# add new type for /guestshell/* .sh files
type polaris_guestshell_exec_t;
files_type(polaris_guestshell_exec_t)

# add new type for /var/run/netns/guestshell
type polaris_guestshell_var_run_t;
files_type(polaris_guestshell_var_run_t)

# add new type for /var/run/cisco_cli
type polaris_caf_var_run_t;
files_pid_file(polaris_caf_var_run_t)
manage_dirs_pattern(polaris_caf_t, polaris_caf_var_run_t, polaris_caf_var_run_t)
manage_files_pattern(polaris_caf_t, polaris_caf_var_run_t, polaris_caf_var_run_t)
files_pid_filetrans(polaris_caf_t, polaris_caf_var_run_t, { file dir })

# Intermediate step: When CAF unpacks the contents of the application
# you upload, it will stage the contents somewhere and verify some checks
# (filesystem check on the disk image, existence of several folders, etc.). Disk
# images are mounted without any label since CAF has not generated security
# labels yet for the app at this point. The disk gets unmounted and eventually
# gets mounted again with the proper context/label.
type polaris_disk_caf_t;
polaris_disk_type(polaris_disk_caf_t)
list_dirs_pattern(polaris_caf_t, polaris_disk_caf_t, polaris_disk_caf_t)

allow polaris_caf_t self:capability { chown dac_override fowner fsetid setfcap sys_chroot sys_ptrace }
allow polaris_caf_t self:process setcap;
fs_read_nsfs_files(polaris_caf_t)

# caf to manage loop device: finding free /dev/loopN device
dev_rw_loop_control(polaris_caf_t)

# PLEASE LOOK AT ME
# allow caf to read, write /dev/loopN devices that are
# under fixed_disk_device_t label. It is pretty strong premission
# and at this point it is only done for /dev/loopN devices.
# Can we do better? i.e move /dev/loopN to some other label?
storage_manage_fixed_disk(polaris_caf_t)

# caf executing chroot via bash
gen_require(''
type svirt_sandbox_file_t;
')
allow polaris_caf_t svirt_sandbox_file_t:file { execute execute_no_trans };

gen_require(''
type polaris_disk_bootflash_t;
    type polaris_disk_harddisk_t;
')
setattr_dirs_pattern(polaris_caf_t, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
# replicating policy done for polaris_disk_bootflash_t
setattr_dirs_pattern(polaris_caf_t, polaris_disk_harddisk_t, polaris_disk_harddisk_t)

# caf connects to its own port 8098
corenet_tcp_connect_polaris_caf_api_port(polaris_caf_t)

virt_manage_sandbox_files(polaris_caf_t)

kernel_read_network_state(polaris_caf_t)

polaris_bootflash_manage(polaris_caf_t)
polaris_bootflash_files_mmap(polaris_caf_t)
#allow polaris_disk_harddisk_t manage like polaris_disk_bootflash_t
polaris_harddisk_manage(polaris_caf_t)

# caf execve virsh
gen_require(''
    type virsh_t;
    type virsh_exec_t;
')
domtrans_pattern(polaris_caf_t, virsh_exec_t, virsh_t)
# virsh needs to read /opt/cisco/caf/scripts/ieobcbcr.xml
polaris_caf_files_read(virsh_t)

# caf calls tipc-config that works with tipc sockets
allow polaris_caf_t self:socket create_socket_perms;
allow polaris_caf_t self:netlink_generic_socket { create_socket_perms sendto recvfrom };

# get and set attrs on httpd_var_run_t under /bootflash/iox
gen_require(' type httpd_var_run_t;
  )
getattr_sock_files_pattern(polaris_caf_t, httpd_var_run_t, httpd_var_run_t)
setattr_sock_files_pattern(polaris_caf_t, httpd_var_run_t, httpd_var_run_t)
manage_dirs_pattern(polaris_caf_t, httpd_var_run_t, httpd_var_run_t)
# allow TCP connection for http port e.g. Local Manager
corennet_tcp_connect_http_port(polaris_caf_t)

# execute lvm commands, like lvs
lvm_domtrans(polaris_caf_t)

polaris_disk_crashinfo_getattr(polaris_caf_t)
optional_policy(' polaris_nccd_tmp_read(polaris_caf_t)
  )
logging_send_syslog_msg(polaris_caf_t)

# tries to load KLM like cuse, fuse, overlay
modutils_domtrans_insmod(polaris_caf_t)

# modifies files under /var/www/features/iox
apache_manage_sys_content(polaris_caf_t)

# caf reads version of ioxman from its executable
polaris_ioxman_exec_read(polaris_caf_t)

polaris_ioxman_show_version(polaris_caf_t)

type polaris_iox_alt_hdd_files_t;
files_type(polaris_iox_alt_hdd_files_t)
polaris_pfile_type(polaris_iox_alt_hdd_files_t)
polaris_iox_alt_hdd_manage(polaris_caf_t)

# On stargazer platform /vol/disk0 is used by iox to create below dirs.
# On nyquist platform /vol/usb1 with polaris_disk_harddisk_t is used
# Transition them to appropriate labels.
gen_require("
    type container_var_lib_t;
  ")

filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t, dir, "iox")
filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_alt_hdd_files_t }, polaris_caf_tmp_files_t, dir, "caf")
filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_alt_hdd_files_t polaris_iox_files_t }, container_var_lib_t, dir, "docker")
filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_alt_hdd_files_t }, polaris_caf_files_t, dir, "iox_data_share")
filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t, dir, "iox_host_data_share")

# Allow files under guest-share directory which is shared between ios
# and container

type polaris_iox_shared_files_t;
files_type(polaris_iox_shared_files_t)
polaris_pfile_type(polaris_iox_shared_files_t)
manage_dirs_pattern(polaris_caf_t, polaris_iox_shared_files_t, polaris_iox_shared_files_t)
filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_alt_hdd_files_t }, polaris_iox_shared_files_t, dir, "guest-share")

# Allow signature verification of applications

gen_require("
    type polaris_code_verify_t;
  ")
polaris_iox_files_manage(polaris_code_verify_t)

# allow caf to control /tmp/trace/resource.log
polaris_iox_manage_tmp_files(polaris_caf_t)

# some utility running under caf needs access to /varied/ovf-env.xml
polaris_disk_varied_read(polaris_caf_t)

# caf reads the udev information

gen_require("
    type udev_var_run_t;
  ")
manage_files_pattern(polaris_caf_t, udev_var_run_t, udev_var_run_t)

gen_require("
    type virtd_lxc_t;
  ")
allow polaris_caf_t virtd_lxc_t:process signull;
polaris_removable_manage(polaris_caf_t)
polaris_lm_tmp_read(polaris_caf_t)

# caf modifies /etc/cgroup_params.txt
files_manage_etc_files(polaris_caf_t)

# read /tmp/iox_override.conf created by ioxman
polaris_iox_read_tmp_files(polaris_caf_t)

# python udev library used by caf
allow polaris_caf_t self:netlink_kobject_uevent_socket { bind create getattr setopt };

# need access to rawip socket by pd_iox.sh
allow polaris_caf_t self:capability [ net_raw setgid ];
allow polaris_caf_t self:rawip_socket { create getopt setopt };
# LOOK AT ME caf leaks fifo file descriptors need permissions for
# domains that started by it
gen_require(')
    type iptables_t;
')
allow iptables_t polaris_caf_t:fifo_file { read write append getattr };

# allow iptables_t users permissions for IP accessed by the script guestshell_setup.sh
allow iptables_t self:cap_users { net_admin net_raw };

container_stream_connect(polaris_caf_t)

gen_require(')
    type pki_ca_port_t;
')
allow polaris_caf_t pki_ca_port_t:tcp_socket name_connect;

polaris_flashlib_read(polaris_caf_t)
polaris_flashlib_write(polaris_caf_t)
polaris_contdev_dev_read(polaris_caf_t)

gen_require(')
    type rsync_exec_t;
    type rsync_port_t;
')
allow polaris_caf_t rsync_exec_t:file { execute execute_no_trans getattr map open read };
allow polaris_caf_t rsync_port_t:tcp_socket name_connect;

# IOX uses rsync to sync the data
gen_require(')
    type rsync_t;
')
rsync_entry_domtrans(polaris_caf_t, rsync_t)
polaris_manage_rsync_tmplog_dir(polaris_caf_t)
allow rsync_t polaris_caf_t:fifo_file { getattr write }

kernel_search_network_sysctl(polaris_caf_t)
kernl_rw_net_sysctls(polaris_caf_t)
dev_rw_sysfs(polaris_caf_t)

# Allow run-caf.sh to configure byte_queue_limits/limit_min for KR port
gen_require('`
    type sysfs_t;
')
allow polaris_caf_t sysfs_t:file create;
dev_manage_sysfs_dirs(polaris_caf_t)

# CAF needs access to setup for containers
manage_dirs_pattern(polaris_caf_t, self, self)
fs_associate_proc(polaris_caf_t)

# guestshell_setup.sh reads /proc/sys/kernel/core_pattern
kernel_read_usermodehelper_state(polaris_caf_t)
# and then guestshell_setup.sh reads /tmp/corelink
gen_require('`
    type initrc_tmp_t;
')
allow polaris_caf_t initrc_tmp_t:lnk_file read;

# Beluga/Meraki container
ifdef(`ms_platform',`
    polaris_iox_container_domtrans(polaris_caf_t)
')
# Bottlenose/Meraki container
ifdef(`bottlenose_platform',`
    polaris_iox_container_domtrans(polaris_caf_t)
')

#allow run_ioxn_caf.sh to modify /etc/docker/daemon.json, etc.
container_manage_config_files(polaris_caf_t)

# Manage IOx Secure storage CC files
type polaris_iox_ss_disk_t;
files_type(polaris_iox_ss_disk_t)
polaris_pfile_type(polaris_iox_ss_disk_t)

#Guestshell management
virt_signull(polaris_caf_t)

gen_require('`
    type ifconfig_t;
allow ifconfig_t self:cap_users { net_admin sys_admin sys_ptrace };

# allow ifconfig_t to transition into dhcpc domain
sysnet_domtrans_dhcpc(ifconfig_t)

# Being an IOSP client does not allow for setattr permissions

ifdef(`passport_platform',`

gen_require(''
    type polaris_iosd_portal_app_lipc_t;
')

setattr_sock_files_pattern(polaris_caf_t, polaris_iosd_portal_app_lipc_t, polaris_iosd_portal_app_lipc_t)

ifdef(`passport_platform',`

gen_require(''
    type polaris_sioxcd_rp_t;
')

# Allow read of /etc/passwd
auth_map_passwd(polaris_sioxcd_rp_t)
#
# # Allow usage of ls in helper script
corecmd_exec_bin(polaris_sioxcd_rp_t)

# Allow sysfs read
dev_list_sysfs(polaris_sioxcd_rp_t)

# # Allow mount/umount in its own domain
mount_domtrans(polaris_sioxcd_rp_t)

# # Allow /tmp/sw/boot read
polaris_boot_tmp_read(polaris_sioxcd_rp_t)

# # Allow /tmp/tmppub read
polaris_btrace_tmppub_read(polaris_sioxcd_rp_t)

files_tmp_file(polaris_sioxcd_rp_tmp_t)
files_tmp_filetrans(polaris_sioxcd_rp_t, polaris_sioxcd_rp_tmp_t, { dir file } )
manage_dirs_pattern(polaris_sioxcd_rp_t, polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t)
manage_files_pattern(polaris_sioxcd_rp_t, polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t)
manage_fifo_files_pattern(polaris_sioxcd_rp_t, polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t)

# Allow losetup in helper script to run in its own domain
fstools_domtrans(polaris_sioxcd_rp_t)
#
# # Allow mount/umount in its own domain
mount_domtrans(polaris_sioxcd_rp_t)
#
# # Allow /tmp/sw/boot read
polaris_boot_tmp_read(polaris_sioxcd_rp_t)

# # Allow /tmp/tmppub read
polaris_btrace_tmppub_read(polaris_sioxcd_rp_t)
# # Allow iox_polaris.conf read
polaris_caf_files_read(polaris_sioxcd_rp_t)
#
# Allow chasfs access
polaris_chasfs_manage(polaris_sioxcd_rp_t)

# Allow /sys/devices/platform/cpld/board_vtype read
polaris_cpld_read(polaris_sioxcd_rp_t)

# Allow debug.conf access
polaris_read_debug_conf(polaris_sioxcd_rp_t)

# Allow cats /tmp/sw/boot/rombifo/boardsubtype
polaris_rombifo_tmp_read(polaris_sioxcd_rp_t)

# Allow console logging
term_open_unallocated_ttys(polaris_sioxcd_rp_t)

# Allow capability 1/24 access
allow polaris_sioxcd_rp_t self:capability { dac_override sys_resource }

# Transition to chvrf domain needed by push_using_rsync
polaris_chvrf_domtrans(polaris_sioxcd_rp_t)

# Allow flashutil
polaris_flashlib_read(polaris_sioxcd_rp_t)

#iptables execute in its own domain
iptables_domtrans(polaris_caf_t)

# logger needs to run pidof
dev_read_sysfs(polaris_sioxcd_rp_t)
kernell_read_system_state(polaris_sioxcd_rp_t)
domain_read_all_domains_state(polaris_sioxcd_rp_t)

# Manage alternate hdd files
polaris_iox_alt_hdd_manage(polaris_sioxcd_rp_t)

# Allow ls /tmp/ufs/crashinfo
optional_policy(`
polaris_ncd_tmp_read(polaris_sioxcd_rp_t)
`)

# Allow logger which is used for syslog messages
allow polaris_sioxcd_rp_t self:unix_dgram_socket { connect create }
logging_send_syslog_msg(polaris_sioxcd_rp_t)

# Allow standby to access /dev/sda3
fs_getattr_xattr_fs(polaris_sioxcd_rp_t)

# Allow getattr under iox_alt_hdd_mount_dir
polaris_iox_alt_hdd_getattr(polaris_sioxcd_rp_t)

# Allow sync_data to use chvrf
polaris_chvrf_domtrans(polaris_caf_t)

# tty device and link files under /dev
type polaris_caf_tty_file_t;
dev_node(polaris_caf_tty_file_t)
dev_filetrans(polaris_caf_t, polaris_caf_tty_file_t, lnk_file)
term_use_pmtx(polaris_caf_t)
polaris_caf_tty_lnk_manage(polaris_caf_t)
polaris_caf_chr_file_read(polaris_caf_t)
polaris_iosd_vcpu_read(polaris_caf_t)

# Allow access starting/stopping iox
polaris_chasfs_read(iptables_t)
polaris_chasfs_read(ifconfig_t)
polaris_hman_use_fifo(polaris_caf_t)
iptables_domtrans(polaris_caf_t)

# Allow application signature verification
polaris_code_verify_domtrans(polaris_caf_t)

#access /proc/rmbonbifo file cat9k-ioxhelper.sh
polaris_proc_rmonbifo_read(polaris_caf_t)

gen_require(
    type dhcpc_t;
')
# allow these users capabilities for dhcpc
allow dhcpc_t self:cap_users { net_raw net_bind_service };
# allow CAF to transition to dhcpc e.g. dhcpclient_custom.sh
sysnet_domtrans_dhcpc(polaris_caf_t)
# allow reading of dhcp configuration files e.g.
# /vol/usb1/iox/repo-docker/perfsonar1/dhcp/dhcp_eth0.conf
polaris_caf_files_read(dhcpc_t)
# allow writing of dhcp lease files e.g. eth0ipv4.lease
polaris_iox_files_manage(dhcpc_t)
# allow dhcpc domain to transition back into CAF e.g. dhcpclient_custom.sh
polaris_caf_domtrans(dhcpc_t)

# Allow read container share files
container_read_share_files(polaris_caf_t)
# Allow manage container files
gen_require(')
    type container_file_t;
    type container_share_t;
    type container_log_t;
')
mmap_files_pattern(polaris_caf_t, container_file_t, container_file_t)
manage_files_pattern(polaris_caf_t, container_file_t, container_file_t)

manage_chr_files_pattern(polaris_caf_t, container_share_t, container_share_t)
manage_fifo_files_pattern(polaris_caf_t, container_share_t, container_share_t)
manage_sock_files_pattern(polaris_caf_t, container_share_t, container_share_t)

manage_files_pattern(polaris_caf_t, container_log_t, container_log_t)

# Allow polaris caf to set attributes of device nodes of fuse devices
gen_require(')
    type fuse_device_t;
')
allow polaris_caf_t fuse_device_t:chr_file setattr;

# Allow polaris caf to set attributes of TUN/TAP virtual network device
gen_require(')
    type tun_tap_device_t;
')
allow polaris_caf_t tun_tap_device_t:chr_file setattr;

# Allow operations on fifo file
type fifo_var_run_t;
# make sure /tmp/ttyF0 is labeled correctly
files_tmp_file(fifo_var_run_t)
files_tmp_filenetrans(polaris_caf_t, fifo_var_run_t, fifo_file)
manage_fifo_files_pattern(polaris_caf_t, fifo_var_run_t, fifo_var_run_t)

# allow udev read operations
polaris_udev_tmp_read(polaris_caf_t)

# allow link file for tmpfs_t
allow polaris_caf_t tmpfs_t:lnk_file create;

###################
# IOx Secure storage service policies
###################
optional_policy(')
gen_require(')
    type polaris_ioxss_rp_t;
    type polaris_sort_files_t;
type polaris_iosd_t;

')
type polaris_ioxss_rp_tmp_t;
files_tmp_file(polaris_ioxss_rp_tmp_t)
files_tmp_filetrans(polaris_ioxss_rp_t, polaris_ioxss_rp_tmp_t, file, "ioxss_up")
polaris_ioxss_rp_tmp_manage(polaris_ioxss_rp_t)

polaris_chasfs_read(polaris_ioxss_rp_t)
polaris_lua_read(polaris_ioxss_rp_t)

manage_files_pattern(polaris_ioxss_rp_t, polaris_iox_ss_disk_t, polaris_iox_ss_disk_t)
allow polaris_sort_files_t polaris_iox_ss_disk_t:dir list_dir_perms;
allow polaris_iosd_t polaris_iox_ss_disk_t:dir list_dir_perms;

# Allow polaris_sort_files_t getattr of iosd_portal_app_lipc socket file
polaris_iosd_portal_app_lipc_getattr(polaris_sort_files_t)

# allow secure storage server to connect through tcp_socket on port 9000 from system-config.ini
gen_require(
    type http_port_t;
    )

allow polaris_ioxss_rp_t self:tcp_socket { bind create listen setopt };
corenet_tcp_bind_http_port(polaris_ioxss_rp_t);
allow polaris_ioxss_rp_t node_t:tcp_socket node_bind;

# allow polaris caf to process signal of dhcpc client
allow polaris_caf_t dhcpc_t:process signal;

# allow secure storage server to connect through socket
allow polaris_ioxss_rp_t self:socket create_socket_perms;

optional_policy(
# Allow polaris_sort_files_t getattr of container fifo file
gen_require(
    type polaris_sort_files_t;
    type container_file_t;
    )
gattr_fifo_files_pattern(polaris_sort_files_t, container_file_t, container_file_t)
    )

# Clear iox handling
container_manage_lib_files(polaris_caf_t)
container_manage_lib_dirs(polaris_caf_t)
container_manage_share_files(polaris_caf_t)
container_manage_share_dirs(polaris_caf_t)
gen_require(

type polaris_vs_oper_db_tdldb_t;
    type polaris_tdldb_t;
)
manage_files_pattern(polaris_caf_t, polaris_tdldb_t, polaris_vs_oper_db_tdldb_t)

# allow caf to read systemd unit files
systemd_read_unit_files(polaris_caf_t)

# allow restorecon on iox_alt_hdd_mount_dir
seutil_domtrans_setfiles(polaris_caf_t)

filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t }, polaris_iox_alt_hdd_files_t, file, "iox_alt_hdd.dsk")
filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t }, polaris_iox_alt_hdd_files_t, dir, "iox_alt_hdd_mount_dir")

allow ifconfig_t polaris_iox_files_t:file { read };

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscaf.te
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#
# May 2017, Victor Kamensky
#
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#

## <summary>Polaris confd Policy Rules.</summary>

### <summary>Setup /dev/shm/confd directory and file, pid and shared memory.</summary>
### <param name="domain">Domain allowed access.</param>
### </summary>

interface(`polaris_confd_shm_setup',
    gen_require(
        type polaris_confd_shm_t;
        type tmpfs_t;
    )
    fs_tmpfs_filetrans($1, polaris_confd_shm_t, dir, "confd")
manage_dirs_pattern($1, tmpfs_t, polaris_confd_shm_t)
manage_files_pattern($1, { tmpfs_t polaris_confd_shm_t }, polaris_confd_shm_t)
allow $1 polaris_confd_shm_t:file map;
')

#######################################
## <summary>
##      Read /dev/shm/confd_shared_schema shared memory.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_confd_shared_schema_read',
  gen_require(
    type polaris_confd_shm_t;
    type tmpfs_t;
  )
  allow $1 polaris_confd_shm_t:file map;
')

#######################################
## <summary>
##      Watch confd_shm directories
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface(`polaris_confd_shared_schema_watch',
  gen_require(
    type polaris_confd_shm_t;
  )
  allow $1 polaris_confd_shm_t:dir watch;
')

#######################################
## <summary>
##      Read /proc/cond_pid/exe file. Few dmi utilities do that by
## some reason. Look at handle_confd_pid_available.
## Read files and symlinks under /dev/shm/confd.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_confd_read',
    gen_require('        
    type polaris_confd_t;
    ')
    read_files_pattern($1, polaris_confd_t, polaris_confd_t)
    read_link_files_pattern($1, polaris_confd_t, polaris_confd_t)
    ')

#######################################
## <summary>
##      Create /var/log/ndbutil directory
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_confd_ndbutil_create',
    gen_require('        
    type polaris_confd_ndbutil_lock_t;
    ')
    files_lock_filetrans($1, polaris_confd_ndbutil_lock_t, dir, "ndbutil")
    files_create_lock_dirs($1)
    manage_dirs_pattern($1, polaris_confd_ndbutil_lock_t, polaris_confd_ndbutil_lock_t)
    manage_files_pattern($1, polaris_confd_ndbutil_lock_t, polaris_confd_ndbutil_lock_t)
    create_dirs_pattern($1, polaris_confd_ndbutil_lock_t, polaris_confd_ndbutil_lock_t)
    ')

########################################
## Creates types for and rules for ndbutils files under /var/lock/ndbutil
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <param name="stem">
## <summary>
## Stem for the domain. Name is constructed as polaris_stem_ndbutil_t

---

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template(`polaris_ndbutil_lock_template',
    gen_require(
        type polaris_confd_ndbutil_lock_t;
      )
    type polaris_$2_ndbutil_t;
    files_type(polaris_$2_ndbutil_t)

    filetrans_pattern($1, polaris_confd_ndbutil_lock_t, polaris_$2_ndbutil_t, file, $3)
    manage_files_pattern($1, polaris_confd_ndbutil_lock_t, polaris_$2_ndbutil_t)

    allow $1 polaris_$2_ndbutil_t:file { watch watch_reads }
    ')

########################################
## <summary>
##      Execute a domain transition to run mmap_schema polaris process.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
interface(`polaris_mmap_schema_domtrans',
    gen_require(
        type polaris_mmap_schema_t, polaris_mmap_schema_exec_t;
      )
    domtrans_pattern($1, polaris_mmap_schema_exec_t, polaris_mmap_schema_t)
    ')

########################################
## <summary>
##      Execute a domain transition to run confd polaris process.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
# interface('polaris_confd_domtrans',``
    gen_require(
        type polaris_confd_t, polaris_confd_exec_t;
    )
)

domtrans_pattern($1, polaris_confd_exec_t, polaris_confd_t)
``

#interface('polaris_confd_log_read',``
    gen_require(
        type polaris_confd_var_t;
    )
    read_files_pattern($1, polaris_confd_var_t, polaris_confd_var_t)
    
``

#interface('polaris_confd_log_manage',``
    gen_require(
        type polaris_confd_var_t;
    )
    manage_files_pattern($1, polaris_confd_var_t, polaris_confd_var_t)
`

#Execute dmi_ports_fetch in the caller domain.
## <summary>
## Domain allowed access.
## </summary>
#

interface('confd_exec_dmi_ports_fetch',
    gen_require('polaris_dmi_ports_fetch_exec_t);
    )

corecmd_search_bin($1)
can_exec($1, polaris_dmi_ports_fetch_exec_t)
')

########################################################
## <summary>
## Manage confd /var/log files (i.e /var/log/confd)
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#

interface('polaris_confd_var_log_manage',
gen_require('polaris_confd_var_log_t);
    )
logging_log_filetrans($1, polaris_confd_var_log_t, dir, "confd")
manage_dirs_pattern($1, var_log_t, polaris_confd_var_log_t)
manage_files_pattern($1, polaris_confd_var_log_t, polaris_confd_var_log_t)
')

########################################################
## <summary>
## Read confd /var/log files (i.e /var/log/confd)
## /bootflash/tracelogs/cia-netconf-trace* also has polaris_confd_var_log_t
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#

interface('polaris_confd_var_log_read',
gen_require('polaris_confd_var_log_t');
type polaris_confld_var_log_t;

) list_dirs_pattern($1, polaris_confld_var_log_t, polaris_confld_var_log_t)
read_files_pattern($1, polaris_confld_var_log_t, polaris_confld_var_log_t)
)

#########################################################################
## <summary>
## Write into fifo file created by confd, typical case when
## confd starts script under popen in different domain.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolecap/>
#
interface(`polaris_confld_tmp_use_fifo',

read_fifo_files_pattern($1, polaris_confld_tmp_t, polaris_confld_tmp_t)
write_fifo_files_pattern($1, polaris_confld_tmp_t, polaris_confld_tmp_t)
)

#########################################################################
## <summary>
## Write into file created by confd, to deal with cases
## confd starts script under popen in different domain and
## file descriptor leaks into another domain. Since we cannot
## modify confd to use O_CLOEXEC
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolecap/>
#
interface(`polaris_confld_tmp_use',

gen_require(

type polaris_confld_tmp_t;

) read_files_pattern($1, polaris_confld_tmp_t, polaris_confld_tmp_t)
write_files_pattern($1, polaris_confld_tmp_t, polaris_confld_tmp_t)
')

###############################################################
## <summary>
## Provide access for file operations under /etc/ dir.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_confd_etc_read',
    gen_require(
        type polaris_confd_etc_t;
    )
)

read_files_pattern($1, polaris_confd_etc_t, polaris_confd_etc_t)
')

###############################################################
## <summary>
## Create an object in the /var directory under
## polaris_confd_var_t label.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <param name="object">
## The object class of the object being created.
## </param>
## <param name="name" optional="true">
## The name of the object being created.
## </param>
#
interface('polaris_confd_var_filetrans',
    gen_require(
        type polaris_confd_var_t;
    )
)

files_var_filetrans($1, polaris_confd_var_t, $2, $3)
### <summary>
### Make the specified domain able to work with /var/confd0
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
#
interface(`polaris_confd_var_dir_manage',
    gen_require(
    type polaris_confd_var_t;
    )
    manage_dirs_pattern($1, polaris_confd_var_t, polaris_confd_var_t);
    )

### <summary>
### Execute a domain transition to run admin_tech scripts of sdwan
### </summary>
### <param name="domain">
### Domain allowed to transition.
### </param>
#
#
interface(`polaris_admin_tech_domtrans',
    gen_require(
    type polaris_admin_tech_t, polaris_admin_tech_exec_t;
    )
    domtrans_pattern($1, polaris_admin_tech_exec_t, polaris_admin_tech_t);
    )

### <summary>
### Read admin_tech files created under bootflash
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
#
interface(`polaris_admin_tech_data_read',

gen_require(`
    type polaris_admin_tech_data_t;
`)
read_files_pattern($1, polaris_admin_tech_data_t, polaris_admin_tech_data_t)
``

### <summary>
### Manage admin_tech files created under bootflash
### </summary>
### <param name="domain">
## Domain allowed access.
### </param>
#
interface(`polaris_admin_tech_data_manage',`
    gen_require(`
        type polaris_admin_tech_data_t;
    `)
    manage_files_pattern($1, polaris_admin_tech_data_t, polaris_admin_tech_data_t)
    manage_link_files_pattern($1, polaris_admin_tech_data_t, polaris_admin_tech_data_t)
    manage_dirs_pattern($1, polaris_admin_tech_data_t, polaris_admin_tech_data_t)
    allow $1 polaris_admin_tech_data_t:file watch;
`)  

### <summary>
### Allow domain to be started by confd with
### transition into specific service domain.
### </summary>
### <param name="domain">
## Type to be used to run utility.
### </param>
### <param name="entry_point">
## Type of the program to be used as an entry point to this domain.
### </param>
#interface(`polaris_confd_domain',`
    gen_require(`
        type polaris_confd_t;
    `)
    domtrans_pattern(polaris_confd_t, $2, $1)
`)"

### <summary>
### Manage confd_cli files under /tmp/confd_cli.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface('polaris_confd_cli_tmp_manage',
    gen_require(
        type polaris_confd_cli_tmp_t;
    )
    manage_files_pattern($1, polaris_confd_cli_tmp_t, polaris_confd_cli_tmp_t)
)`

### <summary>
### Manage vconfd files under /tmp/vconfd.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface('polaris_vconfd_tmp_manage',
    gen_require(
        type polaris_vconfd_tmp_t;
    )
    manage_dirs_pattern($1, polaris_vconfd_tmp_t, polaris_vconfd_tmp_t)
    manage_files_pattern($1, polaris_vconfd_tmp_t, polaris_vconfd_tmp_t)
)`

### <summary>
### Connect to confd port. Should be used only by utility
### domains that do not have TDL entry. Processes with TDL entries
### just need to register as confd pseudo service clients.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
interface(`polaris_confd_connect',`
    polaris_ripc_confd_ipc_connect($1)
')

#######################################
## <summary>
##      Use unix stream socket created by confd as standard I/O
## descriptors. Need to look more, because so far it triggers only
## getattr, append and ioctl permissions. If it would be real standard I/O
## it would need read and write as well.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_confd_unix_stream_stdio_use',`
    gen_require(`
        type polaris_confd_t;
    ')
    allow $1 polaris_confd_t:unix_stream_socket { append getattr ioctl);
')

########################################
## <summary>
##	Creates types and rules for a script that is started
##	by confd process.
## </summary>
## <param name="stem">
##	<summary>
##	Stem for the domain. Name is constructed as polaris_stem_t
##	</summary>
## </param>
#
template(`polaris_vconfd_domain_template',`
    polaris_utility_domain_template($1)
    polaris_confd_domain(polaris_$1_t, polaris_$1_exec_t)

# access /etc/passwd
auth_use_nsswitch(polaris_$1_t)

# inherit unix stream as script stdio
polaris_confd_unix_stream_stdio_use(polaris_$1_t)
')
dnl

dnl April 2018, Victor Kamensky

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dnl
divert(-1)

include('polaris_process.m4')

include('polaris_database_db.m4')
include('polaris_database_db_fc.m4')

include('polaris_max_scope.m4')

divert(0)dnl

#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_database_fc.m4
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#
# February 2020, Victor Kamensky
#
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#

policy_module(polarisinstallmgr, 1.0);

gen_require('
   type polaris_install_mgr_t;
')
polaris_chasfs_manage(polaris_install_mgr_t)
polaris_tdlresolve_read(polaris_install_mgr_t)
polaris_cpld_read(polaris_install_mgr_t)
polaris_flashlib_read(polaris_install_mgr_t)
polaris_lua_read(polaris_install_mgr_t)
logging_send_syslog_msg(polaris_install_mgr_t)

polaris_ripe_sman_ui_serv_connect(polaris_install_mgr_t)

polaris_db_tdlldb_dir_use(polaris_install_mgr_t)

# read all files in persistent storage
polaris_persistent_read(polaris_install_mgr_t)

# calls code_verify
polaris_code_verify_domtrans(polaris_install_mgr_t)
# calls mount command
mount_domtrans(polaris_install_mgr_t)

# allow access to gnmib image files
optional_policy(`
polaris_gnmib_gnoi_images_read(polaris_install_mgr_t)
`)

# LOOK AT ME: /dev/mem access restriction will be removed after
# CSCvu32649 is fixed using CSCvu32742.
# code_sign_verify accesses /dev/mem: class=chr_file, {read, open, map}
# to read the codesign key in storage
# side effects: execute is also allowed
gen_require(`
    type polaris_code_verify_t;
    type polaris_nvram_file_t;
`)
dev_rx_raw_memory(polaris_code_verify_t)

# read access to /bootflash/nvram_config on CLI "install remove inactivate"
read_files_pattern(polaris_code_verify_t, polaris_disk_bootflash_t, polaris_nvram_file_t)
getattr_files_pattern(polaris_code_verify_t, polaris_disk_bootflash_t, polaris_nvram_file_t)

# open, read, map and getattr access of capsule-upgrade.log file
polaris_capsule_upgrade_log_use(polaris_code_verify_t)

# calls install_mgr_helper_api.sh
corecmd_exec_bin(polaris_install_mgr_t)
corecmd_exec_shell(polaris_install_mgr_t)
auth_use_nsswitch(polaris_install_mgr_t)

# /tmp/sw/inst_tmp_x handling
type polaris_install_mgr_tmp_t;
files_tmp_file(polaris_install_mgr_tmp_t)
gen_require(`
    type tmp_t;
`)


manage_dirs_pattern(polaris_install_mgr_t, tmp_t, polaris_install_mgr_tmp_t)
manage_dirs_pattern(polaris_install_mgr_t, polaris_install_mgr_tmp_t, polaris_install_mgr_tmp_t)
files_tmp_filetrans(polaris_install_mgr_t, polaris_install_mgr_tmp_t, dir, "inst_tmp_1")
files_tmp_filetrans(polaris_install_mgr_t, polaris_install_mgr_tmp_t, dir, "inst_tmp_2")

# writes into /bootflash/.installer/watchlist
polaris_disk_install_manage(polaris_install_mgr_t)

# install_mgr_monitor.c:add_prior_watches
polaris_persistent_watch(polaris_install_mgr_t)

# watch over /tmp/patch
polaris_patch_data_watch(polaris_install_mgr_t)

polaris_repm_peer_mqipc_manage(polaris_install_mgr_t)

# watches over /tmp for /tmp/booted appearence in
# init_operation_mgmt_watches function
gen_require(
    type tmp_t;
')
allow polaris_install_mgr_t tmp_t:dir watch;

allow polaris_install_mgr_t self:capability sys_resource;

#install_mgr writes into /bootflash/.installer/watchlist and watches /bootflash/inot_fifo
polaris_install_disk_manage(polaris_install_mgr_t)

#install_mgr does search and get attribute operation on /tftp directory
gen_require(
    type tftpdir_rw_t;
')
allow polaris_install_mgr_t tftpdir_rw_t:dir { getattr search };

# allow read access to iso9660
fs_read_iso9660_files(polaris_install_mgr_t)

# accesses /proc/sys/vm/drop_caches
kernel_rw_vm_sysctls(polaris_install_mgr_t)

# creates files under /tmp/pkg_cs_debug through install_helper
# and verify_pkg shell function from common
polaris_pkg_cs_debug_manage(polaris_install_mgr_t)

# for pluggable FS, allow the install manager to access files on them (it needs read and
# write access).
gen_require(
    type removable_t;
allow polaris_install_mgr_t removable_t:dir { getattribute open read search watch }
allow polaris_install_mgr_t removable_t:file { getattribute open }
allow polaris_install_mgr_t removable_t:lnk_file read;

#allow install_mgr to stat caf files in /vol/harddisk/caf, /bootflash/caf, etc.
polaris_caf_tmp_files_read(polaris_install_mgr_t)

# install manager Cleanup related to inotify watches, Basically frees malloced memory
gen_require(
    type root_t;
)
allow polaris_install_mgr_t root_t:dir watch;

# install manager access to /guestshell
polaris_guestshell_files_read(polaris_install_mgr_t)

# install manager access to /lib/systemd/systemd
polaris_init_access_check(polaris_install_mgr_t)

# install manager reads dcmlog.txt
optional_policy(
    gen_require(
        type polaris_fed_debug_dcmlog_t;
    )
    read_files_pattern(polaris_install_mgr_t, polaris_fed_debug_dcmlog_t, polaris_fed_debug_dcmlog_t)
)

# install manager reads /firmware
polaris_firmware_read(polaris_install_mgr_t)

# install manager reads /guestshell
gen_require(
    type polaris_guestshell_t;
)
getattr_dirs_pattern(polaris_install_mgr_t, polaris_guestshell_t, polaris_guestshell_t)

# install_manager reads /tmp/sw/boot during auto_upgrade
polaris_boot_tmp_read(polaris_install_mgr_t)

# install_manager writes /tmp/sw/boot during auto_upgrade
polaris_boot_tmp_write(polaris_install_mgr_t)

# install_manager reads /tmp/sw/boot/rmonbifo during auto_upgrade
polaris_rmonbifo_tmp_read(polaris_install_mgr_t)

# install_manager reads /tmp/tmppub during auto_upgrade
polaris_btrace_tmppub_read(polaris_install_mgr_t)
# install manager accesses /tmp/rsync_log_dir during auto_upgrade
polaris_manage_rsync_tmplog_dir(polaris_install_mgr_t)

# install manager invokes mcp_chvrf.sh for rsync operations during auto_upgrade
polaris_chvrf_domtrans(polaris_install_mgr_t)

polaris_bexecute_domtrans(polaris_install_mgr_t)

ifdef(`ngwc_family',`
# install_mgr needs to be able to execute the auto_upgrade_client_helper scripts
polaris_autoupgrade_domtrans(polaris_install_mgr_t)

# read /tmp/etc/installer
polaris_autoupgrade_tmp_manage(polaris_install_mgr_t)
')

ifdef(`mcp_family',`
# install_mgr needs to be able to execute the auto_upgrade_client_helper scripts
polaris_autoupgrade_domtrans(polaris_install_mgr_t)

# read /tmp/etc/installer
polaris_autoupgrade_tmp_manage(polaris_install_mgr_t)
')

ifdef(`wlc_family',`
# install_mgr needs to be able to execute the auto_upgrade_client_helper scripts
polaris_autoupgrade_domtrans(polaris_install_mgr_t)

# read /tmp/etc/installer
polaris_autoupgrade_tmp_manage(polaris_install_mgr_t)
')

# with "/bootflash"...this needs read and attr to access for logfile
polaris_read_user_file(polaris_install_mgr_t)
polaris_user_file_getattr(polaris_install_mgr_t)

# auto upgrade server bind operation when install manager initialize auto upgrade server
corenent_tcp_bind_polaris_autoupgrade_port(polaris_install_mgr_t)

# access to /tmp/etc
polaris_etc_list(polaris_install_mgr_t)

# read access to /tmp/etc/installer
polaris_install_tmp_read(polaris_install_mgr_t)
polaris_script_errmsg_use(polaris_install_mgr_t)

# install mgr calls install_abort.sh on rollback timer expiry
# /tmp/ufs/crashinfo access
optional_policy(
  polaris_ncd_tmp_read(polaris_install_mgr_t)
)

# read/write to /bootflash/.rollback_timer/install_abort_time
polaris_rbtimer_bootflash_manage(polaris_install_mgr_t)

allow polaris_install_mgr_t self:process setpgid;

optional_policy(
  polaris_efi_files_list_dirs(polaris_install_mgr_t)
)

# walk all files on “install issu activate” and “install remove inactivate” CLI
files_read_all_files(polaris_install_mgr_t)

# install mgr file descriptor leaks into mcp_chvrf.sh for rsync operation
gen_require(
  type polaris_chvrf_t;
)
allow polaris_chvrf_t polaris_install_mgr_t:file read;

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisinstallmgr.te
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#
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#

policy_module(polarisconfd, 1.0);

gen_require(
  type polaris_confd_t;
)

# confd-startup.sh calls confd_cmd to get_phase and other cases
# that utilities under confd label connects to confd
polaris_ripe_confd_ipc_connect(polaris_confd_t)

# confd needs communicate over HTTP
corennet_tcp_bind_http_port(polaris_confd_t)
# compplex_main (port 5000) is used by apache
corenethlpbind-compplex_main_port(polaris_conf_d_t)

corenethlpbind-generic_node(polaris_conf_d_t)
allow polaris_conf_d_t self:tcp_socket { getattr getopt setopt create listen accept connect read write }

corenethlpbind-generic_node(polaris_conf_d_t)
allow polaris_conf_d_t self:udp_socket { bind connect create getattr getop setopt }
corenethlpbind-polaris_conf_d_snmp_traps_port(polaris_conf_d_t)

logging_send_syslog_msg(polaris_conf_d_t)
polaris_chasfs_manage(polaris_conf_d_t)
polaris_brtrace_data_manage(polaris_conf_d_t)
polaris_cpld_read(polaris_conf_d_t)
polaris_boot_tmp_read(polaris_conf_d_t)
polaris_rmonbifo_tmp_read(polaris_conf_d_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_conf_d_t)

# confd-startup.sh process is shell script need permission to execute shell
# and variety of small util commands under bin_t
corecmd_exec_shell(polaris_conf_d_t)
corecmd_exec_bin(polaris_conf_d_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_conf_d_t)

# confdexec needs access to /sys/devices/system/cpu/online
dev_read_sysfs(polaris_conf_d_t)

allow polaris_conf_d_t self:capability { net_admin sys_resource }

# allow read permissions for /etc/hosts file
sysnet_read_config(polaris_conf_d_t)

# allow read permissions for /var/run/netns/8
fs_read_nsfs_files(polaris_conf_d_t)

# work with /var/confd0/ files
type polaris_conf_d_var_t;
files_tmp_file(polaris_conf_d_var_t)
polaris_conf_d_var_filetrans(polaris_conf_d_var_t, dir, "confd0")
manage_files_pattern(polaris_conf_d_var_t, polaris_conf_d_var_t, polaris_conf_d_var_t)
manage_link_files_pattern(polaris_conf_d_var_t, polaris_conf_d_var_t, polaris_conf_d_var_t)
manage_dirs_pattern(polaris_conf_d_var_t, polaris_conf_d_var_t, polaris_conf_d_var_t)
erlang calls efile_fileinfo function (/erts/emulator/drivers/unix/unix_efile.c)
root directory. Inside of the function code calls `access` function that check
access permission for R_OK and W_OK. W_OK triggers denial warning. Instead of
granting access let's mark it as dontaudit. Erlang will be fine with this
files_dontaudit_write_root_dirs(polaris_confd_t)

deals with /dev/shm/confd files (shared memory and pid)
type polaris_confd_shm_t;
files_tmpfs_file(polaris_confd_shm_t)

confd-startup.sh modifies confd.conf which is under polaris_confd_var_t label
# sed -i /CONFDF_FXS_CISCO_AUTOGEN_EWLC/d /var/confd0/confd.conf
allow polaris_confd_t self:process setfscreate;
type polaris_confd_ndbutil_lock_t;
files_lock_file(polaris_confd_ndbutil_lock_t)

confd mmap_schema utility runs from systemd unit under polaris_confd_t label

polaris_confd_shm_setup(polaris_confd_t)
# create ndbutil directory under /var/lock
polaris_confd_ndbutil_create(polaris_confd_t)

# Allow access to /crashinfo
polaris_disk_crashinfo_getattr(polaris_confd_t)

optional_policy(''
# confd-startup.sh on nyquist makes ls /tmp/ufs/crashinfo
polaris_nsd_tmp_read(polaris_confd_t)
')

# confd-startup.sh reads /proc/cmdline
kernel_read_system_state(polaris_confd_t)

# LOOK AT ME allow mapping of low addresses, that could be exploited
# need to understand why; unfortunately confd symbols are not decodable
# need to ask tail-f guys
ifdef(`tsn_platform',`
domain_mmap_low_uncond(polaris_confd_t)
gen_require(''
    type polaris_confd_cli_t;
')
domain_mmap_low_uncond(polaris_confd_cli_t)
')
ifdef(`quake_platform',`
domain_mmap_low_uncond(polaris_confd_cli_t)
')
polaris_mmap_schema_domtrans(polaris_conf_td_t)

# mmap_schema process policy
gen_require(' type polaris_mmap_schema_t; ')
polaris_btrace_data_manage(polaris_mmap_schema_t)
polaris_chasfs_read(polaris_mmap_schema_t)
polaris_cpld_read(polaris_mmap_schema_t)
polaris_flashlib_read(polaris_mmap_schema_t)
polaris_db_tdl_db_dir_use(polaris_mmap_schema_t)
polaris_confTd_ndbutil_create(polaris_mmap_schema_t)
polaris_confTd_shm_setup(polaris_mmap_schema_t)

# connects to confg mmap_schema is not TDL process, let # grant explicit permission to access corresponding port
polaris_ripc_confTd_ipc_connect(polaris_mmap_schema_t)
allow polaris_mmap_schema_t self:tcp_socket { connect create setopt };
polaris_socketat_nsfs_read(polaris_mmap_schema_t)

allow polaris_mmap_schema_t self:capability dac_override;
polaris_tdlresolve_read(polaris_mmap_schema_t)
polaris_confTd_read(polaris_mmap_schema_t)
polaris_ndbmand_ndbutil_manage(polaris_mmap_schema_t)

optional_policy(' polaris_gnmib_ndbutil_lock(polaris_mmap_schema_t, ".l.schema_use.gnmib") ')

type polaris_confTd_tmp_t;
files_tmp_file(polaris_confTd_tmp_t)
polaris_systemd_tmpfiles_tmp_filetrans(polaris_confTd_tmp_t, dir, "confd")
files_tmp_filetrans(polaris_confTd_t, polaris_confTd_tmp_t, dir, "confd")
manage_files_pattern(polaris_confTd_t, tmp_t, polaris_confTd_tmp_t)
manage_fifo_files_pattern(polaris_confTd_t, tmp_t, polaris_confTd_tmp_t)
manage_dirs_pattern(polaris_confTd_t, tmp_t, polaris_confTd_tmp_t)

# posix_pathconf called from get_tmpdir calls starvfs over /tmp
fs_getattr_tmpfs(polaris_confTd_t)

# dmi_ports_fetch that runs under confd_t reads global.service.conf
polaris_tdlresolve_read(polaris_confTd_t)
cfd_exec_dmi_ports_fetch(polaris_confTd_t)

# confd-startup script reads /tmp/dmi.ds.config if it exists
polaris_psd_tmp_read(polaris_confTd_t)

# vip-confd-startup.sh related
# figure out BOOT_ROLE in install_util.sh
polaris_read_packages_conf(polaris_confTd_t)
# touch /bootflash/sdwan/day0 Oper.xml
allow polaris_confTd_t self:capability dac_override;
polaris_bootflash_manage(polaris_confTd_t)
#/usr/bin/sw synccdb call uuidgen
dev_read_rand(polaris_confTd_t)

polaris_dmiauthd_tmp_manage(polaris_confTd_t)

# PLEASE LOOK AT ME: overloaded use of /bootflash/.installer and
# /bootflash/.sdwaninstaller directories. In controller mode cedge code loopback
# mounts /bootflash/.sdwaninstallerfs file onto /bootflash/.sdwaninstaller and
# creates /bootflash/.installer symbolic link to it. As result effective
# /bootflash/.installer carries two meaning: used by polaris install infra for
# regular install operations, and keep persistent state in controller mode. For
# now /bootflash/.sdwaninstallerfs was forced to be mounted with
# polaris_disk_install_t label, so installer policy would be happy, but confd
# writes into it through /var/confd0 which is symbolic link to
# /bootflash/.installer/images/pkg_boot_17.3.01/confd0 that means we need to
# grant polaris_disk_install_manage to confd which is not good thing.
# It would be much better if two different directories would be used.
polaris_disk_install_manage(polaris_confTd_t)

# /var/log/confd handling
type polaris_confTd_var_log_t;
logging_log_file(polaris_confTd_var_log_t)
polaris_confTd_var_log_manage(polaris_confTd_t)

# /etc/version handling
type polaris_confTd_etc_t;
files_config_file(polaris_confTd_etc_t)
files_etc_filetrans(polaris_confTd_t, polaris_confTd_etc_t, file, "version")
gen_require(
    type etc_t;
)
manage_files_pattern(polaris_confTd_t, etc_t, polaris_confTd_etc_t)

# "/usr/bin/sw synccdb" calls "confd_cmd -p 3010 -o -c "delete /software"
# that invokes /usr/binos/conf/install_assist.sh
polaris_install_engine_domtrans(polaris_confTd_t)
# confd calls /usr/bin/sw that creates temp files in /tmp/cedge_sw_log
# since it runs under same domain make sure that cedge_sw_log gets
# right label
files_tmp_filetrans(polaris_confd_t, polaris_confd_tmp_t, dir, "cedge_sw_log")

# /tmp/confd_booted created by vip-confd-start
files_tmp_filetrans(polaris_confd_t, polaris_confd_tmp_t, file, "cedge_booted")

# runs flashutils to read rommon variables
polaris_flashlib_read(polaris_confd_t)

allow polaris_confd_t self:capability fowner;

optional_policy(
# work with /tmp/.econfd2sysmgr-ipc
  polaris_econfd2sysmgr_tmp_manage(polaris_confd_t)
')

# confdexec calls dmidecode to get bios-vendor
dmidecode_domtrans(polaris_confd_t)

optional_policy(
  # polaris_sw.sh called in confd context accesses
  # /etc/viptela/controller_version
  polaris_cedge_etc_manage(polaris_confd_t)
')

# PLEASE LOOK AT ME confd tcp ports are supposed to be handle
# through TDL pseudo services, that one it not
corenets_tcp_connect_polaris_confd_maapi_port(polaris_confd_t)

# confd starts cmdptywrapper utility through erl_child_setup
# that allocates free pty device using operations on /dev/ptms
allow polaris_confd_t self:capability { fsetid setgid };
term_getattr_pty_fs(polaris_confd_t)
term_setattr_generic_ptys(polaris_confd_t)
term_use_generic_ptys(polaris_confd_t)
term_use_ptmx(polaris_confd_t)

# uses nice utility to start misc scripts
allow polaris_confd_t self:process setsched;

# allow netconf_callhome to execute ncsshd under ncsshd domain
polaris_ncsshd_mgmt_domtrans(polaris_confd_t)

# allow DmiAuth spawned by confd to access /tmp/.DmiAuth.socket
polaris_dmi_dmiauthd_dgram_send(polaris_confd_t)
# the default port for NETCONF Call Home (SSH) is 4334,
# and it is configurable by users
corenet_tcp_connect_all_ports(polaris_confd_t)
# by default the port is selected by system, and it is configurable by users
corenet_tcp_bind_generic_port(polaris_confd_t)
# netconf_callhome may create vrf-based netns on demand
polaris_vrf_netns Manage(polaris_confd_t)

# cmdwrapper utility that started by confd calls xstat
allow polaris_confd_t self:capability setuid;

# label for /tmp/vconfd temporary files created by binos/viptela/vconfd/*.sh
# scripts created from viptela/vconfd/vconfd_script_cli_session.sh
type polaris_vconfd_tmp_t;
files_tmp_file(polaris_vconfd_tmp_t)
# confd writes /tmp/vconfd/USID.XXX and /tmp/vconfd/THANDLE.YYY files
polaris_vconfd_tmp Manage(polaris_confd_t)

# label for /tmp/confd_cli temporary files created by execute_confd_cli.sh
# type polaris_confd_cli_tmp_t;
files_tmp_file(polaris_confd_cli_tmp_t)
# execute_confd_cli creates /tmp/sh-thd moved to /tmp/confd_cli
files_tmp_filetrans({ polaris_confd_t polaris_confd_cli_t }, polaris_confd_cli_tmp_t, dir, "confd_cli")

# execute_confd_cli.sh script policy
polaris_utility_domain_template(confd_cli)
polaris_bexecute_domain(confd_cli, polaris_confd_cli_exec_t)
polaris_chasfs_read(polaris_confd_cli_t)
corecmd_exec_shell(polaris_confd_cli_t)
corecmd_exec_bin(polaris_confd_cli_t)
auth_use_nsswitch(polaris_confd_cli_t)
# bash get_tmpdir statfs /tmp directory
fs_getattr_tmpfs(polaris_confd_cli_t)
polaris_confd_cli_tmp Manage(polaris_confd_cli_t)
polaris_vconfd_tmp Manage(polaris_confd_cli_t)
telnet_use_ptys(polaris_confd_cli_t)
polaris_ripc_confd_ipc_connect(polaris_confd_cli_t)

# execute_confd_cli.sh -a -g PRIV00 runs grep over /bootflash/sdwan/.init_stage
polaris_bootflash_read(polaris_confd_cli_t)

# execute_confd_cli.sh writes to "pipe:[24719894]"
polaris_dmi_ncsshd_fwd_use_fifo(polaris_confd_cli_t)
allow /usr/binos/conf/bexecute.sh for tcp_socket access
# due to "/bin/sh /usr/binos/conf/mcp_chvr.sh eobc
# /usr/binos/conf/bexecute.sh -c /mcp_pkg_wrap rp_daemons
# /usr/binos/conf/execute_co"
allow polaris_confconfd_cli_t polaris_dmi_ncshdh_fwd_t:tcp_socket ioctl;

# admin-tech : scripts in binos/viptela/vconfd/*admin_tech*.sh
# Invocation triggered here:
# viptela/vconfd/viptela-actions.yang: tailf:exec "vconfd_script_admin_tech.sh"
===========================================================================
polaris_vconfd_domain_template(admin_tech)

# /bin/bash /usr/binos/conf/bshell.sh -S -c
# show platform hardware qfp active infrastructure shared-memory
# process cpp-control-pro....
polaris_bexecute_domtrans(polaris_admin_tech_t)

# admin-tech launches "ps" via scripts
domain_read_all_domains_state(polaris_admin_tech_t)

# See trace logs accessed by vconfd_script_polaris_admin_tech_child.sh
polaris_btrace_data_manage_all(polaris_admin_tech_t)

# various utilities like "find", "memaudit", etc needs this
files_getattr_all_files(polaris_admin_tech_t)
files_getattr_all_dirs(polaris_admin_tech_t)
fs_getattr_all_fs(polaris_admin_tech_t)
files_read_all_files(polaris_admin_tech_t)

# '/bin/bash /usr/bin/memaudit' needs access to /proc/kmsg, /proc/mdstat, etc
dev_getattr_mtrr_dev(polaris_admin_tech_t)
kernal_read_all_proc(polaris_admin_tech_t)
dev_getattr_loop_control(polaris_admin_tech_t)

# infra/memaudit/memaudit uses dmesg
dmesg_domtrans(polaris_admin_tech_t)
gen_require(''
    type dmesg_t;
')
polaris_confconfd_unix_stream_stdio_use(dmesg_t)

# infra/memaudit/memaudit uses mount
mount_domtrans(polaris_admin_tech_t)

# infra/memaudit/memaudit uses fdisk
fstools_domtrans(polaris_admin_tech_t)
polaris_nvram_read(polaris_admin_tech_t)
polaris_nvram_getattr(polaris_admin_tech_t)
# memaudit writes to /proc/sys/vm/drop_caches
kernel_rwlock_sysctls(polaris_admin_tech_t)

# memaudit and smap needs 'getattr', 'search' on sysctls
kernel_read_sysctls(polaris_admin_tech_t)

# du -b -s /tmp/cc /tmp/rp /tmp/fp
files_getattr_all_sockets(polaris_admin_tech_t)
files_getattr_all_pipes(polaris_admin_tech_t)

# df -Th-BM needs access to /run/netns/
fs_getattr_nsfs_files(polaris_admin_tech_t)

# ls /tmp/ufs/harddisk
# maapi --clicmd --get-io --no-hidden show configuration commit list
corecmd_exec_bin(polaris_admin_tech_t)

# bash vconfd_script_admin_tech.sh -u root -c cli executes:
# 1. map on /etc/passwd
auth_map_passwd(polaris_admin_tech_t)
# 2. hostname
hostname_exec(polaris_admin_tech_t)
# 3. journalctl
journalctl_domtrans(polaris_admin_tech_t)

# journalctl writes to /tmp/vm4-bootuplog-20200903-175223-UTC.log
# see vconfd_script_polaris_admin_tech_child.sh
gen_require(
    type journalctl_t;
')
manage_files_pattern(journalctl_t, polaris_admin_tech_tmp_t, polaris_admin_tech_tmp_t)
polaris_confd_unix_stream_stdio_use(journalctl_t)

# admin_tech reads /tmp/chassis/cpld/chasfs/board_vtype on crankshaft
polaris_chasfs_read(polaris_admin_tech_t)

# find -H /misc/scratch -name MEMORY_LOG_*.text
# memaudit writes to /bootflash/MEMORY_LOG_2020-07-28-01:32:11.text
# We also have 'mv -Z /bootflash/admintech /var/tech/ios'
# admin_tech watches /tmp/chassis/local/rp/chasfs/etc/ios_admintech_done
type polaris_admin_tech_data_t;
polaris_disk_type(polaris_admin_tech_data_t)
polaris_bootflash_filetrans(polaris_admin_tech_t, polaris_admin_tech_data_t, dir)
polaris_bootflash_filetrans(polaris_admin_tech_t, polaris_admin_tech_data_t, file)
polaris_admin_tech_data_manage(polaris_admin_tech_t)

# sdwan_tech_support.sh -o /var/tech/binos; work with /var/tech/ files
type polaris_admin_tech_var_t;
files_tmp_file(polaris_admin_tech_var_t)
files_var_filetrans(polaris_admin_tech_t, polaris_admin_tech_var_t, dir, "tech")
manage_files_pattern(polaris_admin_tech_t, polaris_admin_tech_var_t, polaris_admin_tech_var_t)
manage_dirs_pattern(polaris_admin_tech_t, polaris_admin_tech_var_t, polaris_admin_tech_var_t)

# vconfd_script_polaris_admin_tech.sh invokes vlog "Requested admin-tech initiated."
# vlog is implemented in viptela/utils/vlog using logger; that needs
# - create/connect unix_dgram_socket of type polaris_admin_tech_t
# - read from devtmpfs of type devlog_t
# - write to sock_file of type devlog_t
# - sendto path="/run/systemd/journal/dev-log" of type unix_dgram_socket
logging_send_syslog_msg(polaris_admin_tech_t)

# maapi --cliget paginate: this performs connect to confd socket
polaris_ripe_confid_ipc_connect(polaris_admin_tech_t)

# reads /tmp/chassis/cpld/chasfs/board_vtype
# on c8kv cpld is at /sys/bus/platform/devices/cpld which has sysfs_t LABEL
polaris_cpld_read(polaris_admin_tech_t)

# handle various files created under /tmp
type polaris_admin_tech_tmp_t;
files_tmp_file(polaris_admin_tech_tmp_t)
files_tmp_filetrans(polaris_admin_tech_t, polaris_admin_tech_tmp_t, file)
manage_files_pattern(polaris_admin_tech_t, polaris_admin_tech_tmp_t, polaris_admin_tech_tmp_t)

# As part of admin-tech generation on cEdges, vconfd_script_polaris_admin_tech.sh
# invokes vconfd_script_polaris_admin_tech_child.sh which in turn invokes the
# script sdwan_tech_support.sh. The sdwan_tech_support.sh passes the file
# /tmp/sdwan_tech_support_command_file_out.txt to a bshell instance. The bshell
# instance does open operation on the file. So bshell needs open allow
# policy for /tmp/sdwan_tech_support_command_file_out.txt
gen_require(
    type polaris_bshell_t;
)
allow polaris_bshell_t polaris_admin_tech_tmp_t:file open;

# maapi needs this.
allow polaris_admin_tech_t self:tcp_socket { getopt setopt create connect read write };

# tar --ignore-failed-read -czf /home/vmanage-admin/vm4-20200903-055157-admin-tech.tar.gz
# /tmp/fp/trace/cpp_cp_F0-0_TAN.20041_0.20
allow polaris_admin_tech_t self:capability dac_override;

# awk /^Shared/ {v += $2} END { print v} /proc/6384/smaps
allow polaris_admin_tech_t self:capability sys_ptrace;
# 'top -n1 -b' creates /.config dir
# TODO/LOOKATME: selinux team to review handling of this issue in a
# common way for invoking top
allow polaris_admin_tech_t root_t:dir create;

# "show installerfs" is invoked by vconfd_script_admin_tech_common.sh
# this invokes vconfd_script_show_installerfs.sh via confd
# let's execute this under install_show domain
polaris_install_show_domtrans(polaris_confTd_t)

# create_bootflash_snapshot() performs 'ls -l /bootflash/.installer'
polaris_disk_install_read(polaris_admin_tech_t)

# vconfd_script_polaris_admin_tech_child.sh
# mv /bootflash/admintech /var/tech/ios
allow polaris_admin_tech_t self:process setfscreate;

# rm -rf $collated_ra (collated_log_*)

#Nutella-XE - Vedge image install
#/bin/sh /tmp/sw/rp/0/0/rp_security/mount/bin/sw synccdb
#mount -t vfat /dev/mmcblk0gp0p1 /gpp
mount_domtrans(polaris_confTd_t)

df /bootflash
fstools_domtrans(polaris_confTd_t)

#Nutella-XE - Vedge image activate
#/usr/binos/bin/flashutil --command unsetvar --name MIG_INT_STATE
polaris_flashlib_write(polaris_confTd_t)

# permit comm="ps" to "getattr" on dev="devtmpfs" for polaris_admin_tech_t
term_getattr_unallocated_ttys(polaris_admin_tech_t)

# permit to access polaris_proc_rmonbifo_t by
#/usr/bin/vconfd_script_admin_tech.sh
polaris_proc_rmonbifo_read(polaris_admin_tech_t)

# permit to access/unlink /bootflash by polaris_admin_tech_t
polaris_bootflash_manage(polaris_admin_tech_t)

# vconfd_script_admin_tech.sh executes 'top -n1 -b' which creates /.config dir
gen_require('
  type admin_home_t;
')
allow polaris_admin_tech_t admin_home_t:dir { add_name create write };

# vconfd_script_admin_tech.sh sources vconfd_script_cli_session.sh and calls
# start_cli_session() which writes to /tmp/vconfd/USID.XXX,
# /tmp/vconfd/THANDLE.YYY and /tmp/vconfd/start_cli.XXXXXXXXXX
polaris_vconfd_tmp_manage(polaris_admin_tech_t)

# work with "/tmp/fp/pvp/work/inot_fifo"
polaris_pvp_stdin_read(polaris_admin_tech_t)

# work with "/tmp/fp/trace/fifo/pvp_sh%fp_0_0_22607_fifo"
polaris_use_btrace_fifo(polaris_admin_tech_t)

# access to tunnel interface from snapshot_cdb()
corenets_rtw_tun_tap_dev(polaris_confd_t)

# access to /tmp/bootstrap/sdwan/ciscosdwan_cloud_init.cfg
init_read_script_tmp_files(polaris_confd_t)

# "vconfd_notifier security-clear-installed-cert" reads
# /var/run/netns/default which is symlinked to /proc/1/ns/net
polaris_cedge_reset_ns(polaris_confd_t)

# allow /usr/binos/conf/execute_confd_cli.sh to access polaris_disk_install_t
polaris_disk_install_read(polaris_confd_cli_t)

# vconfd script ends up cleaning core files, most likely its
# vconfd_script_polaris_admin_tech_child.sh, so it needs read/write
# permission to polaris_core_file_t files.
polaris_core_file_manage(polaris_admin_tech_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisconfd.te
No license file was found, but licenses were detected in source scan.

#
# OWNERS - Code Ownership
#
# For information on the purpose and format of this file see:
#
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#
* @csg/polaris-selinux-dev

# iox team related files
polariscontainer* @csg/polaris-selinux-dev @csg/iox-selinux
polariscalaf* @csg/polaris-selinux-dev @csg/iox-selinux
polarisgsdrp* @csg/polaris-selinux-dev @csg/iox-selinux
polarisioxman* @csg/polaris-selinux-dev @csg/iox-selinux
polarisvman* @csg/polaris-selinux-dev @csg/iox-selinux

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/OWNERS
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

## <summary>Polaris lm Policy Rules.</summary>

#######################################
## <summary>
##      Read files of type polaris_lm_tmp_t (e.g., /tmp/iosd_level)
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_lm_tmp_read',
    gen_require(
        type polaris_lm_tmp_t;
    )
    read_files_pattern($1, polaris_lm_tmp_t, polaris_lm_tmp_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislm.if
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
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#

## <summary>Polaris nmspd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnmspd.if
No license file was found, but licenses were detected in source scan.

dnl

dnl April 2018, Victor Kamensky
dnl
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dnl
define('polaris_database_aux','

########################################
## <summary>
##	Use $2 database.
## </summary>
## <param name="domain">
##<summary>
##	Domain allowed access.
##</summary>
## </param>
## <infoflow type="none"/>#

interface(``polaris_db_tdldb_$1_use'',``
gen_require(`
type $2;
')

  polaris_tdldb_use(dollarsone, $2, $3)
")
')

define('polaris_database','
polaris_database_aux(database_stem($1), database_label($1), $1)dnl
')

define('polaris_database_process','

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_database_db_if.m4

No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

policy_module(polarishm, 1.0);
gen_require("
    type polaris_hm_t;
"
)

polaris_btrace_data_manage(polaris_hm_t)
polaris_chasfs_manage(polaris_hm_t)
polaris_tdlresolve_read(polaris_hm_t)
polaris_tlddb_list_dirs(polaris_hm_t)
polaris_cpld_read(polaris_hm_t)
polaris_lua_read(polaris_hm_t)
polaris_flashlib_read(polaris_hm_t)
polaris_ripc_sman_ui_serv_connect(polaris_hm_t)
polaris_db_tlddb_dir_use(polaris_hm_t)

files_getattr_all_files(polaris_hm_t)
files_getattr_all_dirs(polaris_hm_t)
gen_require("
    attribute non_security_file_type;
"
)
allow polaris_hm_t [ non_security_file_type ]:dir list_dir_perms;

# hman need to read proc for all processes to collect CPU
# utilization information
domain_read_all_domains_state(polaris_hm_t)
domain_signull_all_domains(polaris_hm_t)

kernel_read_system_state(polaris_hm_t)

# hman needs to run "df /dev/shm" command
corecmd_exec_bin(polaris_hm_t)
corecmd_exec_shell(polaris_hm_t)

# hman needs to operate on all maroon files
polaris_maroon_data_manage_all(polaris_hm_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_hm_t)

fs_getattr_tmpfs(polaris_hm_t)

# work with /tmp files (/tmp/myhostname)
type polaris_hm_tmp_t;
files_tmp_file(polaris_hm_tmp_t)
manage_files_pattern(polaris_hm_t, tmp_t, polaris_hm_tmp_t)
files_tmp_filetrans(polaris_hm_t, polaris_hm_tmp_t, file, "myhostname")
allow polaris_hm_t self:capability { chown fsetid dac_override kill sys_resource sys_ptrace };  
allow polaris_hm_t self:process setsched;  
allow polaris_hm_t self:unix_dgram_socket create;  
allow polaris_hm_t self:cap_users { kill sys_ptrace };  

polaris_boot_tmp_read(polaris_hm_t)  

# Allow write to flash. Needed for usb disable feature  
ifdef(`ngwc_family',`  
polaris_flashlib_write(polaris_hm_t)  
')  

# "show platform software mount RP active" command needs attributes of  
# all file systems  
fs_getattr_all_fs(polaris_hm_t)  
# above show command accesses /var/run/netns/2  
fs_read_nsfs_files(polaris_hm_t)  
# reads /scratch link which is labeled as polaris_disk_bootflash_t  
polaris_disk_bootflash_read_lnk(polaris_hm_t)  
polaris_disk_harddisk_read_lnk(polaris_hm_t)  

# needed for "show platform software bound-uds RP active"  
kernell_read_network_state(polaris_hm_t)  

# "show rom-monitor R0" needs content of /proc/rmonbifo/bootver;  
# please refer to hman_ui.tpp file  
polaris_proc_rmonbifo_read(polaris_hm_t)  

# "show plat soft yang-management process r0" invokes hm_show_yang_proc_cb;  
# "show plat soft iox-service" invokes hm_iox_srvc_show_cb;  
# They invoke "ps -C" which needs access to /sys/devices/system/cpu/online  
# TODO: should we replace system() with something like hm_get_procs_with_name_running  
dev_read_sysfs(polaris_hm_t)  
# "show platform software yang-management process state" invokes /bin/mcp_pkg_wrap,  
# which sources /tmp/sw/boot/rmonbifo/env_var.sh  
polaris_rmonbifo_tmp_read(polaris_hm_t)  
# show iox-service requires reading of libvirt_ver of created under CAF context  
optional_policy(`  
polaris_caf_tmp_files_read(polaris_hm_t)  
')  
# hardcoded policy for hm to df, per Victor  
optional_policy(`  
gen_require(  
  type polaris_iosd_portal_dmi_lipc_t;  
  type polaris_iosd_portal_app_lipc_t;  
)  
allow polaris_hm_t { polaris_iosd_portal_dmi_lipc_t polaris_iosd_portal_app_lipc_t };sock_file getattr;  
')
# during "show version installed" command
# "grep -q srdriver /tmp/sw/rp/local/0/rp_base/iso" which is link to the universal image
polaris_bootflash_read(polaris_hm_t)
# this is for calcsha.sh (invoked by the command above) but might work for others too
polaris_install_engine_domtrans(polaris_hm_t)
# this if for hman to read and delete /tmp/version.info created by calcsha.sh in prev context type
polaris_install_tmp_read(polaris_hm_t)
gen_require('    type polaris_install_tmp_t;
  ')
allow polaris_hm_t polaris_install_tmp_t:file unlink;

# need open, read on /bootflash/packages.conf (grep sha1sum: /tmp/packages.conf)
polaris_read_packages_conf(polaris_hm_t)

# This is created for hman to grant it access to /bootflash/topnmemuse
polaris_bootflash_manage(polaris_hm_t)

# read /tmp/pkg_summary.txt file
polaris_pkg_summary_tmp_read(polaris_hm_t)
polaris_zram_getattr(polaris_hm_t)

optional_policy('    polaris_ssd_auth_domtrans(polaris_hm_t)
  ')

optional_policy('    polaris_ssdUnmount_domtrans(polaris_hm_t)
  ')

optional_policy('    polaris_confDomtrans(polaris_hm_t)
  ')

# show platform software process slot R0 monitor
# mcp_monitor_process_batchmode.sh
# /bin/sh /usr/binos/conf/bexec.sh -c /usr/binos/conf/mcp_monitor_process_batchmode.sh -n 1 -d 3 -l 0
polaris_utility_domain_template(monitor_process)
polaris_bexecute_domtrans(polaris_hm_t)
polaris_bexecute_domain(polaris_monitor_process_t, polaris_monitor_process_exec_t)

# mcp_monitor_process_batchmode.sh calls "top" command
# "top" needs read/getattr access of various files in the system
domain_read_all_domains_state(polaris_monitor_process_t)

# "top" needs access to /sys/devices/system/cpu/online, etc
dev_read_sysfs(polaris_monitor_process_t)

# "top" need read access to /proc/meminfo, /proc/stat
kernel_read_system_state(polaris_monitor_process_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_monitor_process_t)

# need write/ioctl/getattr access for pipes like "pipe:[118396]"
polaris_hman_use_fifo(polaris_monitor_process_t)

corecmd_exec_bin(polaris_monitor_process_t)

gen_require('
    type admin_home_t;
')
#top -b -n3 -d3 needs permission to create dir /.config ,write
#to files and add files
allow polaris_monitor_process_t admin_home_t:dir { add_name create write };  
allow polaris_monitor_process_t self:capability sys_ptrace;

******************************************************************************

********************************************************************************
# pkg_summary.sh : show version R0 installed
#/bin/bash /usr/binos/conf/pkg_summary.sh -o /tmp/pkg_summary.txt -d model -P
********************************************************************************

polaris_utility_domain_template(pkg_summary)

polaris_pkg_summary_domtrans(polaris_hm_t)

# it executes find /tmp/sw -maxdepth 5 -mindepth 5 -name mount
files_getattr_all_dirs(polaris_pkg_summary_t)
files_getattr_all_files(polaris_pkg_summary_t)
files_read_all_dirs_except(polaris_pkg_summary_t)
polaris_chasfs_read(polaris_pkg_summary_t)
polaris_cpld_read(polaris_pkg_summary_t)
polaris_use_btrace_fifo(polaris_pkg_summary_t)
polaris_rmonbifo_tmp_read(polaris_pkg_summary_t)
polaris_btrace_data_manage(polaris_pkg_summary_t)
polaris_boot_tmp_read(polaris_pkg_summary_t)

# need open, read on /bootflash/debug.conf
polaris_read_debug_conf(polaris_pkg_summary_t)

polaris_read_packages_conf(polaris_pkg_summary_t)

allow polaris_pkg_summary_t self:capability sys_resource;

corecmd_exec_bin(polaris_pkg_summary_t)

auth_use_nsswitch(polaris_pkg_summary_t)

polaris_disk_crashinfo_getattr(polaris_pkg_summary_t)

# read /proc/cmdline
kernel_read_system_state(polaris_pkg_summary_t)

# handle /tmp/pkg_summary.txt file
type polaris_pkg_summary_tmp_t;
files_tmp_file(polaris_pkg_summary_tmp_t)
files_tmp_filetrans(polaris_pkg_summary_t, polaris_pkg_summary_tmp_t, file)
manage_files_pattern(polaris_pkg_summary_t, polaris_pkg_summary_tmp_t, polaris_pkg_summary_tmp_t)

################################################################################

# pkg_to_tree.sh : Generates a software tree based on a provisioning file.
# /bin/bash /usr/bin/os/conf/pkg_to_tree.sh -c /tmp/packages.conf
#           -t /tmp/show_patch_provision_temp -p /tmp/sw/isos
#           -r /tmp/show_provision_temp -a -q
# pkg_to_tree.sh

polaris_utility_domain_template(pkg_to_tree)

gen_require(`
type unconfined_service_t;
`)
polaris_pkg_to_tree_domtrans({unconfined_service_t polaris_hm_t})

files_getattr_all_files(polaris_pkg_to_tree_t)
polaris_harddisk_read(polaris_pkg_to_tree_t)
polaris_cpld_read(polaris_pkg_to_tree_t)
polaris_use_btrace_fifo(polaris_pkg_to_tree_t)
polaris_rmonbifo_tmp_read(polaris_pkg_to_tree_t)
polaris_btrace_data_manage(polaris_pkg_to_tree_t)
polaris_boot_tmp_read(polaris_pkg_to_tree_t)
polaris_patch_data_manage(polaris_pkg_to_tree_t)

# if being executed on other node, telnet /dev/ptsN might be used
# as stdin/stdout
telnet_use_ptys(polaris_pkg_to_tree_t)

# pkg_to_tree.sh creates/deletes directories and files under
# /tmp/show_provision_temp
type polaris_show_provision_tmp_t;
files_tmp_file(polaris_show_provision_tmp_t)
polaris_show_provision_temp_manage(polaris_pkg_to_tree_t)

# pkg_to_tree.sh verifies each package as it is mounted
polaris_code_verify_domtrans(polaris_pkg_to_tree_t)
corecmd_exec_bin(polaris_pkg_to_tree_t)
polaris_disk_crashinfo_getattr(polaris_pkg_to_tree_t)

# manage the /tmp/lf symbolic link
type polaris_pkg_to_tree_tmp_t;
files_tmp_file(polaris_pkg_to_tree_tmp_t)
files_tmp_filetrans(polaris_pkg_to_tree_t, polaris_pkg_to_tree_tmp_t, lnk_file, "lf")
manage_lnk_files_pattern(polaris_pkg_to_tree_t, polaris_pkg_to_tree_tmp_t, polaris_pkg_to_tree_tmp_t)

# permit pkg_to_tree.sh mounting to use conf/pkg files in bootflash
polaris_bootflash_read(polaris_pkg_to_tree_t)
polaris_disk_bootflash_search(polaris_pkg_to_tree_t)

# we want to read the existing mounts in chasfs
polaris_chasfs_read(polaris_pkg_to_tree_t)

# pkg_to_tree.sh interfaces with installer data, including ISSU files
polaris_install_tmp_log_write(polaris_pkg_to_tree_t)
polaris_sw_data_manage(polaris_pkg_to_tree_t)
polaris_read_packages_conf(polaris_pkg_to_tree_t)
polaris_issu_tmp_files_manage(polaris_pkg_to_tree_t)
polaris_install_tmp_manage(polaris_pkg_to_tree_t)

# allow pkg_to_tree.sh to do the loopback mounts of packages and manage
# mount links in tmp. This includes mapping mounted passwd file and
# mounting sysfs. This is also needed to mount /mnt/sd3/iox_alt_hdd.dsk
mount_domtrans(polaris_pkg_to_tree_t)
auth_map_passwd(polaris_pkg_to_tree_t)
dev_list_sysfs(polaris_pkg_to_tree_t)
allow polaris_pkg_to_tree_t sysfs_t:file { getattr open read };
    allow polaris_pkg_to_tree_t tmp_t:lnk_file { create rename unlink };

# when expanding/installing super images, pkg_to_tree uses install_engine_exec_t
# utilities like issu_check
polaris_install_engine_domtrans(polaris_pkg_to_tree_t)

Open Source Used In Crosswork Platform Infrastructure cw-infra-opensource-4.3.0 16166
# misc hman cli(s)

# hman needs access to /bootflash/.issu_loc_lock
polaris_issu_files_manage(polaris_hm_t)

# hman process creates/deletes directories and files under
# /tmp/show_provision_temp
polaris_show_provision_temp_manage(polaris_hm_t)

# signal send during show platform software process slot R0 monitor
polaris_send_signal_to_bexecute(polaris_hm_t)

polaris_dyncfg_tmp_read(polaris_hm_t)

polaris_disk_crashinfo_getattr(polaris_hm_t)

# setting up /dev/ttyS0 speed from hman_handle_console_baud_rate_change
term_use_unallocated_ttys(polaris_hm_t)

# allow to send message to /dev/log
logging_send_syslog_msg(polaris_hm_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_hm_t)

# hman starts agetty-iosd.service in case of nyquist stack
getty_systemctl(polaris_hm_t)

# This block is policies for "sh pla so filesystem bootflash: de" CLI
polaris_utility_domain_template(cli_fs_cmds)

gen_require(`
    type polaris_bexecute_t;
`)
polaris_bexecute_domtrans(polaris_cli_fs_cmds_t)
polaris_cli_fs_cmds_domtrans(polaris_bexecute_t)
telnet_use_ptys(polaris_cli_fs_cmds_t)

# Blanket permission for disk management for cli_fs_cmds (for show/erase fs)
polaris_persistent_manage(polaris_cli_fs_cmds_t)

# permission to manage removable ( seems pretty safe )
polaris_removable_manage(polaris_cli_fs_cmds_t)
polaris_getattr_removable(polaris_cli_fs_cmds_t)
fs_read_removable_symlinks(polaris_cli_fs_cmds_t)

# btrace.sh needs these
polaris_boot_tmp_read(polaris_cli_fs_cmds_t)
polaris_btrace_tmppub_read(polaris_cli_fs_cmds_t)
# this is for NFS access mounted in a dir of ncd context
optional_policy('polaris_ncd_tmp_read(polaris_cli_fs_cmds_t)
')

# need to access pipes like pipe:[107820]
polaris_hman_use_fifo(polaris_cli_fs_cmds_t)

# df or stat the mount point
fs_getattr_nfs(polaris_cli_fs_cmds_t)
# mkfs permissions via domtrans
fstools_domtrans(polaris_cli_fs_cmds_t)
# runs NFS exportfs ( copied from ncd )
rpc_read_exports(polaris_cli_fs_cmds_t)
rpc_write_exports(polaris_cli_fs_cmds_t)
rpc_manage_nfs_state_data_dir(polaris_cli_fs_cmds_t)
rpc_manage_nfs_state_data(polaris_cli_fs_cmds_t)
fs_rw_nfsd_fs(polaris_cli_fs_cmds_t)
kernell_rw_rpc_sysctls(polaris_cli_fs_cmds_t)
fs_getattr_xattr_fs(polaris_cli_fs_cmds_t)
# rsync/remote format perms ( rsync borrowed from polariscrft.te )
polaris_udev_tmp_list_dirs(polaris_cli_fs_cmds_t)
gen_require('type rsync_exec_t;
type rsync_port_t;
type rsync_tmp_t;
')
allow polaris_cli_fs_cmds_t rsync_port_t:tcp_socket name_connect;
allow polaris_cli_fs_cmds_t rsync_exec_t:file { execute execute_no_trans getattr map open read };
allow polaris_cli_fs_cmds_t rsync_tmp_t:file open;
allow polaris_cli_fs_cmds_t self:capability { chown fsetid setgid };

# Need to access /proc/self/fd/1 by platform_fs_operation.sh which is invoked by
# /bin/bash/usr/binos/conf/mcp_cli_fs_cmds.sh show bootflash:all
fs_associate_proc(polaris_cli_fs_cmds_t)
polaris_cli_fs_cmds_domtrans(polaris_hm_t)
coremcmd_exec_bin(polaris_cli_fs_cmds_t)
polaris_cpld_read(polaris_cli_fs_cmds_t)
polaris_chasfs_manage(polaris_cli_fs_cmds_t)
polaris_use_btrace_fifo(polaris_cli_fs_cmds_t)
polaris_rmonbifo_tmp_read(polaris_cli_fs_cmds_t)
auth_use_nsswitch(polaris_cli_fs_cmds_t)
allow polaris_cli_fs_cmds_t polaris_udev_tmp_files_t:file open;
polaris_udev_tmp_read(polaris_cli_fs_cmds_t)
# watch on modify /tmp/udev/etc/udev/usbflash1-2/udev-info for remote/stby usb device
polaris_udev_tmp_watch(polaris_cli_fs_cmds_t)

# allow to run mount in its own domain
mount_domtrans(polaris_cli_fs_cmds_t)
# runs systemctl to remount file system.
# usb[01] fs_target remount service used.
systemd_exec_systemctl(polaris_cli_fs_cmds_t)
systemd_config GENERIC Generic Services(polaris_cli_fs_cmds_t)

# allow to run readlink -f /dev/bootflash1
storage_getattr fixed_disk_dev(polaris_cli_fs_cmds_t)

# allow "format" CLI to add/delete links in /dev/, and /; e.g., /dev/harddisk1 /harddisk
ifdef("crankshaft_family",";
gen_require(";
    type device_t;
    type root_t;
    type udev_t;
")
  /dev/harddisk1 /dev/harddisk1 -> /dev/dm-0
filetrans_pattern({udev_t polaris_cli_fs_cmds_t}, device_t, fixed_disk_device_t, lnk_file, "harddisk1")
filetrans_pattern({udev_t polaris_cli_fs_cmds_t}, device_t, fixed_disk_device_t, lnk_file, "harddisk")
# harddisk -> /misc/scratch
filetrans_pattern(polaris_cli_fs_cmds_t, root_t, polaris_disk_bootflash_t, lnk_file, "harddisk")

  manage_link_files_pattern(polaris_cli_fs_cmds_t, fixed_disk_device_t, fixed_disk_device_t)
")
seutil_domtrans_setfiles(polaris_cli_fs_cmds_t)
polaris_hman_use_fifo(setfiles_t)
# need open, read on /bootflash/packages.conf
polaris_read_packages_conf(polaris_cli_fs_cmds_t)

# "sed" needs access to /proc/cmdline
kernel_read_system_state(polaris_cli_fs_cmds_t)

# work with /tmp files (/tmp/fs_lock bootflash)
type polaris_cli_fs_cmds_tmp_t;
gen_require(";
    type tmp_t;
")
files_tmp_file(polaris_cli_fs_cmds_tmp_t)
manage_files_pattern(polaris_cli_fs_cmds_t, tmp_t, polaris_cli_fs_cmds_tmp_t)
files_tmp_filetrans(polaris_cli_fs_cmds_t, polaris_cli_fs_cmds_tmp_t, file)
"find /vol/disk0/caf" when show CLI is executed
polaris_caf_tmp_files_read(polaris_cli_fs_cmds_t)

# Caf and IOxMan-CLI interaction
polaris_caf_tmp_files_manage(polaris_cli_fs_cmds_t)

# mcp_cli_fs_cmds.sh show webui: all runs df -P /webui
fs_getattr_tmpfs(polaris_cli_fs_cmds_t)

polaris_persistent_getattr(polaris_cli_fs_cmds_t)
fs_getattr_xattr_fs(polaris_cli_fs_cmds_t)
allow polaris_cli_fs_cmds_t self:capability dac_override;
allow polaris_cli_fs_cmds_t self:dir { add_name write };

# allow caf access to mcp_cli_fs_cmds.sh for fsck on ngwc platforms
ifdef(`ngwc_family',``
domain_read_all_domains_state(polaris_cli_fs_cmds_t)
polaris_caf_domtrans(polaris_cli_fs_cmds_t)
polaris_caf_files_read(polaris_cli_fs_cmds_t)
dev_read_sysfs(polaris_cli_fs_cmds_t)
')

###############################################################################
# fsck CLI using mcp_cli_fs_cmds.sh as tested on sparrow
###############################################################################
# allow fsck in mcp_cli_fs_cmds.sh to execute udev in the udev domain
udev_domtrans(polaris_cli_fs_cmds_t)
# allow cryptsetup to be executed
lvm_domtrans(polaris_cli_fs_cmds_t)
# allow fsck to run on bootflash
polaris_nvram_getattr(polaris_cli_fs_cmds_t)

# during SDWAN admin-tech generation, fs_display_*() in mcp_cli_fs_cmds.sh is
# invoked; this tries to find files like /bootflash/tracelogs/cia-netcon* with
# LABEL polaris_confd_var_log_t
polaris_confd_var_log_read(polaris_cli_fs_cmds_t)

###############################################################################
# hm calls df to figure out tmpfs size, on some platforms
# where configfs is mounted it needs statfs access to it
gen_require(`
    type configfs_t;
')
allow polaris.hm_t configfs_t:dir getattr;

# hm populates vrf_shm on behalf of iosd, and may create
# and delete vrf-based netns
polaris_vrf_netns_manage(polaris.hm_t)
fs_unmount_nsfs(polaris.hm_t)
#read udev_info
polaris_udev_tmp_read(polaris_hm_t)

gen_require(
    type rsync_t;
)
allow rsync_t polaris_hm_t:fifo_file read;

*****************************************************************************
# show platform software yang-management process monitor
# mcp_monitor_dmi_proc.sh
#/bin/bash /bin/mcp_pkg_wrap rp_daemons /usr/binos/conf/mcp_monitor_dmi_proc.sh
*****************************************************************************
polaris_utility_domain_template(monitor_dmi_process)
polaris_bexecute_domain(polaris_monitor_dmi_process_t, polaris_monitor_dmi_process_exec_t)

# mcp_monitor_dmi_proc.sh calls "ps" command
# "ps" needs read/getattr access of various files in the system
# ps -eo comm,pid,s,vsize,rssize,%cpu,%mem,etime --sort=comm
domain_read_all_domains_state(polaris_monitor_dmi_process_t)

# "ps" needs access to /proc/uptime
kernel_read_system_state(polaris_monitor_dmi_process_t)

# "ps" needs access to /sys/devices/system/cpu/online, etc
dev_read_sysfs(polaris_monitor_dmi_process_t)

# "ps" need read access to /proc
kernel_list_proc(polaris_monitor_dmi_process_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_monitor_dmi_process_t)

# executes head command
corecmd_exec_bin(polaris_monitor_dmi_process_t)

# sources cyan_api.sh
files_exec_usr_files(polaris_monitor_dmi_process_t)

#/bin/bash /tmp/sw/rp/0/0/rp_daemons/mount/usr/binos/conf/mcp_monitor_dmi_proc.sh
corecmd_shell_entry_type(polaris_monitor_dmi_process_t)

# need write/ioctl/getattr access for pipes like "pipe:[79843]"
polaris_hman_use_fifo(polaris_monitor_dmi_process_t)
# read /etc/init.d/quad_sup_usb_infra.sh
init_read_script_files(polaris_cli_fs_cmds_t)
#This triggers access to /tmp/.flashlock and /dev/sda3
polaris_flashlib_lock(polaris_cli_fs_cmds_t)
#allow flash utility
polaris_flashlib_read(polaris_cli_fs_cmds_t)
# /sys/bus/usb/drivers/usb/*/authorized is accessed (read and write) from hman.
# For USB disable feature across all ngwc platforms needs authorized file to
# be accessed.
ifdef(`ngwc_family',`
  gen_require(`
  type sysfs_t;
  ')
  allow polaris_hm_t sysfs_t:file create;
  dev_rw_sysfs(polaris_hm_t)
  dev_manage_sysfs_dirs(polaris_hm_t)
  ')

# work with /tmp files (/tmp/usb-disable)
polaris_iosd_usb_disable_tmp_manage(polaris_hm_t)

#need access to tmp files created under issu directory
polaris_issu_tmp_files_read(polaris_hm_t)

# HMMAN calls for checking database compactability
# tdllib_db_epoch_test is requires access to /tmp/issu/provision/sw-running.txt
polaris_install_tmp_read(polaris_hm_t)

optional_policy(`
  polaris_efi_files_list_dirs(polaris_cli_fs_cmds_t)
  ')

# Execute hdparam in its own domain
fstools_domtrans(polaris_hm_t)

# Allow polaris_hm to get attributes of fixed disk
storage_getattr_fixed_disk_dev(polaris_hm_t)

# Allow read to ssd auth tmp files /tmp/ssp_blk_dev
polaris_read_ssd_tmp_files(polaris_hm_t)

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarishm.te
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#

### <summary>Polaris ngwc_tbl_mgr Policy Rules.</summary>

Found in path(s):
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#

### <summary>Polaris polarisbtman Policy Rules.</summary>

####################################
### Execute fs tools in the btrace_rotate domain.
### </summary>
### <param name="domain">
### Domain allowed to transition.
### </param>
#
interface(`polaris_btrace_rotate.domtrans`,
gen_require(`
type polaris_btman_t, polaris_btman_exec_t;
`)
corecmd_search_bin($1)
domtrans_pattern($1, polaris_btman_exec_t, polaris_btman_t)
`)  

####################################
### Read /tmp/tmppub files/dirs
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#

interface('polaris_btrace_tmppub_read',
    gen_require(
        type polaris_btrace_tmppub_t;
    )
)

read_files_pattern($1, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)
read_lnk_files_pattern($1, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)
list_dirs_pattern($1, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)
)

########################################
## <summary>
##      Manage /tmp/tmppub files/dirs
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_btrace_tmppub_manage',
#    gen_require(
#        type polaris_btrace_tmppub_t;
#    )
#)

manage_files_pattern($1, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)
manage_dirs_pattern($1, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)
)

########################################
## <summary>
##	Read and write all btman's fifo file, used as
##      standard input/output.
## </summary>
## <param name="domain">
##<summary>
##Domain allowed access.
##</summary>
##<param>
##<rolecap/>
#
interface('polaris_use_btman_fifo',
    gen_require(
        type polaris_btman_t;
    )
)

allow $1 polaris_btman_t:fifo_file { rw_term_perms lock append create unlink };
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbtman.if
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#
# June 2017, Victor Kamensky
#
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#

## <summary>Polaris webui Policy Rules.</summary>

### <summary>
## Read files under /webui/..., these are webui odm file
### </summary>
### <param name="domain">
## Domain allowed access.
### <//summary>
### </param>
#
interface('polaris_read_webui_files',
    gen_require(
        type polaris_webui_file_t;
    ')
read_files_pattern($1, polaris_webui_file_t, polaris_webui_file_t)
read_lnk_files_pattern($1, polaris_webui_file_t, polaris_webui_file_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswebui.if
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#
# March 2017, Victor Kamensky
#
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#
/tmp/fp/tdldb(/.*)?                      gen_context(system_u:object_r:polaris_tdldb_t,s0)
/tmp/rp/tdldb(/.*)?                      gen_context(system_u:object_r:polaris_tdldb_t,s0)
/tmp/cc/tdldb(/.*)?                      gen_context(system_u:object_r:polaris_tdldb_t,s0)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristldlb.fc
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# March 2017, Victor Kamensky
#
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#
### <summary>Polaris NVRAM Policy Rules.</summary>

################################################################################
## Work (read, write, ioctl) with /dev/lsmpi device.
## Domain allowed access.
##
#### interface(`polaris_lsmpi_dev_use`,
    gen_require(
        type device_t;
        type polaris_lsmpi_device_t;
    )
    write_chr_files_pattern($1, device_t, polaris_lsmpi_device_t)
    read_chr_files_pattern($1, device_t, polaris_lsmpi_device_t)
    allow $1 polaris_lsmpi_device_t:chr_file map;
    )

################################################################################
## Read lsmpi sysctl file, ie one under /proc/sys/lsmpi and
## /proc/sys/lsmpi_lodrv directories.
## Domain allowed access.
##
### <summary>
### <param name="domain">
### </param>

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## <rolebase/>
#
interface('polaris_lsmpi_sysctl_read',
  gen_require(
    type polaris_sysctl_lsmpi_t;
  ')
      read_files_pattern($1, polaris_sysctl_lsmpi_t, polaris_sysctl_lsmpi_t)
  ')

###################################################
## <summary>
##       Read from /sys/devices/virtual/contdev sysfs files.
## sys files.
## </summary>
## <param name="domain">
##     <summary>
##     Domain allowed access.
## </summary>
## </param>
#
interface('polaris_contdev_dev_read',
  gen_require(
    type polaris_sysfs_contdev_t;
    type sysfs_t;
  ')
      read_files_pattern($1, polaris_sysfs_contdev_t, polaris_sysfs_contdev_t)
    list_dirs_pattern($1, polaris_sysfs_contdev_t, polaris_sysfs_contdev_t)
    # genfscon statement specifically excludes symbolic links from
    # genfscon path specific entries. To workaround, let us allow
    # to follow sysfs_t symbolic links
    allow $1 sysfs_t:lnk_file read;
  ')

###################################################
## <summary>
##       Write into /sys/devices/virtual/contdev sysfs files.
## </summary>
## <param name="domain">
##     <summary>
##     Domain allowed access.
## </summary>
## </param>
#
interface('polaris_contdev_dev_write',
  gen_require(
    type polaris_sysfs_contdev_t;
    type sysfs_t;
  ')}
write_files_pattern($1, polaris_sysfs_contdev_t, polaris_sysfs_contdev_t)
# genfscon statement specifically excludes symbolic links from
# genfscon path specific entries. To workaround, let us allow
# to follow sysfs_t symbolic links
allow $1 sysfs_t:lnk_file read;
)

########################################
## <summary>
##  Manage /sys/devices/virtual/contdev sysfs files.
## </summary>
## <param name="domain">
##  <summary>
##  Domain allowed access.
##  </summary>
## </param>
#
# interface('polaris_manage_contdev_dev',
  gen_require(
    type polaris_sysfs_contdev_t;
    type sysfs_t;
  )
manage_files_pattern($1, polaris_sysfs_contdev_t, polaris_sysfs_contdev_t)
manage_dirs_pattern($1, polaris_sysfs_contdev_t, polaris_sysfs_contdev_t)
# genfscon statement specifically excludes symbolic links from
# genfscon path specific entries. To workaround, let us allow
# to follow sysfs_t symbolic links
allow $1 sysfs_t:lnk_file read;
)

########################################
## <summary>
##  Allow the specified domain to manage punt/inject socket
## files. I.e /tmp/pi/dp_2_iosd_pi and /tmp/pi/iosd_2_dp_pi
## </summary>
## <param name="domain">
##  <summary>
##  Domain allowed access.
##  </summary>
## </param>
#
# interface('polaris_pi_uds_manage',
  gen_require(
    type polaris_pi_uds_t;
  )
manage_sock_files_pattern($1, polaris_pi_uds_t, polaris_pi_uds_t)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislsmpi.if
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#
# March 2017, Victor Kamensky
#
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#

/usr/bin/os/conf/issu_stack.sh -- gen_context(system_u:object_r:polaris_issu_stack_exec_t,s0)
/tmp/issu_stk(/.*)? gen_context(system_u:object_r:polaris_issu_stack_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisissustack.fc
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#
# August 2017, Shawn Lu
#
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#
#
# polarismspd file contexts place holder

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#
# Aug 2020, Sridhar C
#
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#
#
policy_module(polarisxcopy, 1.0);

###########################################################
## xcopy_script.sh
###########################################################
polaris_utility_domain_template(xcopy_script)
polaris_bexecute_domain(polaris_xcopy_script_t, polaris_xcopy_script_exec_t)
# xcopy_script.sh call other scripts through brelay.sh
polaris_bexecute_domtrans(polaris_xcopy_script_t)

polaris_chasfs_manage(polaris_xcopy_script_t)

# xcopy calls curl/sshpass/scp command and support scp/http/https
gen_require(
    type polaris_curl_t;
    type ssh_exec_t;
    type ssh_home_t;
    type devpts_t;
    ')
polaris_curl_domtrans(polaris_xcopy_script_t)
coreneth_tcp_connect_ssh_port(polaris_curl_t)
coreneth_tcp_connect_http_port(polaris_curl_t)
coreneth_tcp_connect_ssh_port(polaris_xcopy_script_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_xcopy_script_t)

# read polaris vrf net namespace file
fs_read_nsfs_files(polaris_xcopy_script_t)

# curl needs access to bootflash
polaris_bootflash_manage(polaris_curl_t)
polaris_bootflash_manage(polaris_xcopy_script_t)

# also need to be able to ls /tmp/ufs/ on ngwc
optional_policy('polaris_ncd_tmp_read(polaris_xcopy_script_t)
')

# Execute
corecmd_exec_bin(polaris_xcopy_script_t)

#uses kernel utilities like pidof, stat
domain_read_all_domains_state(polaris_xcopy_script_t)
kernellistproc(polaris_xcopy_script_t)

# read /proc/cmdline
kernel_read_system_state(polaris_xcopy_script_t)
fsgetattrtmpfs(polaris_xcopy_script_t)
fsgetattrxattrfs(polaris_xcopy_script_t)

# xcopy started from the smand and needs fifo
polaris_smand_use_fifo(polaris_xcopy_script_t)

# ping to check reachability
netutils_domtrans_ping(polaris_xcopy_script_t)
#
# calls mcp_chvrf.sh for ping and curl
polaris_chvrf_domtrans(polaris_xcopy_script_t)

# xcopy uses ps to find the curl process state
# "ps" needs read access to /sys/devices/system/cpu/online
# "ps" needs read access to /proc/uptime
dev_read_sysfs(polaris_xcopy_script_t)

# Started by bexecute so it has its stdin set to telnet pty file
telnet_use_ptys(polaris_xcopy_script_t)

# stdout is set to fifo set by rotte to capture output into btrace
# btrace also need these policies :)
# btrace_init also refer to /tmp/sw/boot/..
polaris_use_btrace_fifo(polaris_xcopy_script_t)
polaris_cpld_read(polaris_xcopy_script_t)
polaris_boot_tmp_read(polaris_xcopy_script_t)

# Allow /tmp/xcopy/
type polaris_xcopy_tmp_t;
files_tmp_file(polaris_xcopy_tmp_t)
files_tmp_filetrans(polaris_xcopy_script_t, polaris_xcopy_tmp_t, { dir file })
polaris_xcopy_tmp_manage(polaris_xcopy_script_t)

# Curl writes the progress...
polaris_xcopy_tmp_manage(polaris_curl_t)

# PS command access ttyS1
term_getattr_unallocated_ttys(polaris_xcopy_script_t)

# sshpass/scp
ssh_getattr_user_home_dir(polaris_xcopy_script_t)

# sshpass uses the ptmx
term_use_ptmx(polaris_xcopy_script_t)
term_getattr_pty_fs(polaris_xcopy_script_t)

# scp uses ssh
#allow polaris_xcopy_script_t ssh_exec_t:file { execute execute_no_trans map open read };
ssh_exec(polaris_xcopy_script_t)

allow polaris_xcopy_script_t self:capability {sys_resource fsetid};
allow polaris_xcopy_script_t self:process setfscreate;
allow polaris_xcopy_script_t ssh_home_t:dir { create search };
allow polaris_xcopy_script_t devpts_t:chr_file {getattr open read setattr write };

---

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#
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#

### <summary>Polaris dmi_ncsshd_fwd Policy Rules.</summary>

```

########################################
## <summary>
##     Connect to and send messages to dmi ncshhd_bp
## tmp/.ncsshd_bp.sock unix datagram sockets.
## </summary>
## <param name="domain">
##     <summary>
##     Domain allowed access.
##     </summary>
## </param>
#
interface(`polaris_dmi_ncsshd_fwd_dgram_send',
    gen_require(`
        type polaris_dmi_ncsshd_log_t;
        type polaris_dmi_ncsshd_fwd_t;
    `)
    allow $1 self:unix_stream_socket {create_socket_perms};
    allow $1 polaris_dmi_ncsshd_fwd_t:unix_stream_socket {connectto};
    write_sock_files_pattern($1, polaris_dmi_ncsshd_log_t,polaris_dmi_ncsshd_log_t)
)'

########################################
## <summary>
##      Write into fifo file created by dmi_ncsshd_fwd, typical case when
##      hman starts script under popen.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolecap/>
#
interface(`polaris_dmi_ncsshd_fwd_use_fifo',
```
gen_require(
    type polaris_dmi_ncsshd_fwd_t;
)

write_fifo_files_pattern($1, polaris_dmi_ncsshd_fwd_t, polaris_dmi_ncsshd_fwd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmincsshdfwd.if
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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl All rights reserved
dnl
define(`polaris_database_aux',`dnl
 /tmp/rp/tdldb/[0-9]/$2 -- gen_context(system_u:object_r:$1,s0)
 /tmp/fp/tdldb/[0-9]/$2 -- gen_context(system_u:object_r:$1,s0)
 /tmp/cc/tdldb/[0-9]/$2 -- gen_context(system_u:object_r:$1,s0)
 /tmp/rp/tdldb/[0-9]/$2.lock -- gen_context(system_u:object_r:$1,s0)
 /tmp/fp/tdldb/[0-9]/$2.lock -- gen_context(system_u:object_r:$1,s0)
 /tmp/cc/tdldb/[0-9]/$2.lock -- gen_context(system_u:object_r:$1,s0)
')

define(`polaris_database',`dnl
 polaris_database_aux(database_label($1), $1)
')

define(`polaris_database_process',`dnl
 polaris_database_aux(database_label($1), $1)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_database_db_fc.m4
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#
# June 2017, Victor Kamensky
#
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#
### <summary>Polaris ioxman Policy Rules.</summary>

# Manage ioxman temporary files and directories in /tmp.
## Like /tmp/ios_xml.dat.
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
#
interface('polaris_iox_manage_tmp_files',
    gen_require(
        type polaris_iox_tmp_t;
    )
)

manage_files_pattern($1, polaris_iox_tmp_t, polaris_iox_tmp_t)
files_tmp_filetrans($1, polaris_iox_tmp_t, file, "iox_xml.dat")
files_tmp_filetrans($1, polaris_iox_tmp_t, file, "iox_override.conf")
# /tmp/trace/resource.log can be created by ioxman/vman/caf
# through sourcing in the family of the pvsm_*.sh scripts
files_tmp_filetrans($1, polaris_iox_tmp_t, file, "resource.log")
')


### Read ioxman temporary files and directories in /tmp.
### Like /tmp/ios_xml.dat and /tmp/iox_override.conf
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
interface('polaris_iox_read_tmp_files',
    gen_require(
        type polaris_iox_tmp_t;
    )
)

read_files_pattern($1, polaris_iox_tmp_t, polaris_iox_tmp_t)
')


### Make the specified domain able to work with iosd2iox files
### <param name="type">
### <summary>
### Domain allowed access.
### </summary>
interface('polaris_iox2iosd_tmp_manage',
    gen_require(
        type polaris_iox2iosd_tmp_t;
    ')
)
manage_dirs_pattern($1, polaris_iox2iosd_tmp_t, polaris_iox2iosd_tmp_t)
manage_files_pattern($1, polaris_iox2iosd_tmp_t, polaris_iox2iosd_tmp_t)
')

interface('polaris_ioxman_exec_read',
    gen_require(
        type polaris_ioxman_exec_t;
        type bin_t;
    ')
)
read_files_pattern($1, bin_t, polaris_ioxman_exec_t)
')

interface('polaris_ioxman_show_version',
    gen_require(
        type polaris_ioxman_exec_t;
    ')
)polaris_show_version($1, polaris_ioxman_exec_t)
')
## <summary>
## Allow the specified domain to get show_version information
## from dockerd and other container_runtime_t executables
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_container_runtime_show_version',
    gen_require(`
        type container_runtime_exec_t;
    ')
    polaris_show_version($1, container_runtime_exec_t)
')

## <summary>
## Execute a domain transition to run cat9k_ssd_auth_cmds.sh
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </param>
#
interface(`polaris_ssd_auth_domtrans',
    gen_require(`
        type polaris_ssd_auth_t, polaris_ssd_auth_exec_t;
    ')
    domtrans_pattern($1, polaris_ssd_auth_exec_t, polaris_ssd_auth_t)
')

## <summary>
## Read ssd files in /tmp/ssd_blk_device
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_read_ssd_tmp_files',

gen_require(
    type polaris_ssd_auth_tmp_t;
)

read_files_pattern($1, polaris_ssd_auth_tmp_t, polaris_ssd_auth_tmp_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisioxman.if
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#
# Nov 2020, Swati Kumaro
#
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#

/dev/blzi_fpga -c gen_context(system_u:object_r:polaris_blzi_device_t,s0)
/dev/blzi_ts_1pps -c gen_context(system_u:object_r:polaris_blzi_device_t,s0)
/dev/blzi_gps_1pps -c gen_context(system_u:object_r:polaris_blzi_device_t,s0)
/dev/blzi_lol_1pps -c gen_context(system_u:object_r:polaris_blzi_device_t,s0)
/dev/blzi_ts_interest_0 -c gen_context(system_u:object_r:polaris_blzi_device_t,s0)
/dev/blzi_ts_interest_1 -c gen_context(system_u:object_r:polaris_blzi_device_t,s0)
/dev/blzi_ts_interest_2 -c gen_context(system_u:object_r:polaris_blzi_device_t,s0)
/dev/blzi_ts_interest_3 -c gen_context(system_u:object_r:polaris_blzi_device_t,s0)
/dev/blzi_ts_interest_4 -c gen_context(system_u:object_r:polaris_blzi_device_t,s0)
/dev/blzi_ts_interest_5 -c gen_context(system_u:object_r:polaris_blzi_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisptpdrp.fc
No license file was found, but licenses were detected in source scan.

#
# January 2021, Gabriel Lee, Shawn Liu
#
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#

policy_module(polarisezmanage, 1.0);

type polaris_ezmanage_file_t;
files_type(polaris_ezmanage_file_t)
polaris_pfile_type(polaris_ezmanage_file_t)
polaris_process_domain_template(ezmanage)
# Allow ezManage script to be executed by systemd
gen_require('  
    type unconfined_service_t;
')

polaris_ezmanage_domtrans(unconfined_service_t)

# Allow ezManage file and directory access
polaris_manage_ezmanage_files(polaris_ezmanage_t)

# Allow ezManage socket access
allow polaris_ezmanage_t self:unix_dgram_socket { connected_socket_perms sendto }

# Allow read of /etc/passwd
auth_use_nsswitch(polaris_ezmanage_t)

# ezManage python script needs access to USB ttys for modem AT channel
term_use_usb_ttys(polaris_ezmanage_t)

# ezManage python script needs /usr/bin/python3 execution and may also call other generic system bin utilities
corecmd_exec_bin(polaris_ezmanage_t)

# ezManage needs to access /bootflash/ciscosdwan.cfg and a variably named tar file in /bootflash/modem_firmware
polaris_bootflash_filetrans(polaris_ezmanage_t, polaris_ezmanage_file_t, file, "ciscosdwan.cfg")
polaris_bootflash_filetrans(polaris_ezmanage_t, polaris_ezmanage_file_t, file, "modem_firmware.tar.gz")

# ezManage socket file is created in /var/run

type polaris_ezmanage_var_run_t;
files_pid_file(polaris_ezmanage_var_run_t)
files_pid_filetrans(polaris_ezmanage_t, polaris_ezmanage_var_run_t, sock_file, "cwan_ezmanage_py_server")

# Allow ezManage to access its socket file in /var/run
polaris_manage_ezmanage_var_run_files(polaris_ezmanage_t)

# Allow ezManage to access ngiolite socket file in /var/run
gen_require('  
    type polaris_cwan_srv_var_run_t;
')

rw_sock_files_pattern(polaris_ezmanage_t, polaris_cwan_srv_var_run_t, polaris_cwan_srv_var_run_t)

# Allow ezManage to access ngiolite dgram_socket
gen_require('  
    type polaris_ngiolite_t;
')
allow polaris_ezmanage_t polaris_ngiolite_t:unix_dgram_socket sendto;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisezmanage.te
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#  
# March 2017, Victor Kamensky  
#  
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#  
## <summary>Polaris dbm Policy Rules.</summary>  
### <summary>  
##      Setup /bootflash/.dbpersist directory and content.  
## </summary>  
## <param name="domain">  
##      Domain allowed access.  
## </param>  
#  
interface(`polaris_tdldbpersist_setup',
   gen_require(`
      type polaris_disk_bootflash_t;
      type polaris_disk_dbm_t;
   `)
   filetrans_pattern($1, polaris_disk_bootflash_t, polaris_disk_dbm_t, dir, ".dbpersist")
   # allow creation of /bootflash/.dbpersist directory
   manage_dirs_pattern($1, polaris_disk_bootflash_t, polaris_disk_dbm_t)
   # dbm can manage files inside of its own polaris_disk_dbm_t directories
   manage_files_pattern($1, polaris_disk_dbm_t, polaris_disk_dbm_t)
`)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdbm.if

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#  
# May 2017, Victor Kamensky  
#  
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#  
# polarismdtpubd file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismdtpubd.fc
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#  
# February 2020, Victor Kamensky  
#  
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#  

policy_module(polaristtm, 1.0);

gen_require(
    type polaris_ttm_t;
)
polaris_chasfs_read(polaris_ttm_t)
polaris_cpld_read(polaris_ttm_t)

logging_send_syslog_msg(polaris_ttm_t)

# vconfd_load_shared_schemas
polaris_confd_shared_schema_read(polaris_ttm_t)

# /var/run/ttmd socket and pid
type polaris_ttm_var_run_t;
files_pid_file(polaris_ttm_var_run_t)
manage_files_pattern(polaris_ttm_t, polaris_ttm_var_run_t, polaris_ttm_var_run_t)
manage_sock_files_pattern(polaris_ttm_t, polaris_ttm_var_run_t, polaris_ttm_var_run_t)
files_pid_filetrans(polaris_ttm_t, polaris_ttm_var_run_t, { file sock_file })

# allow /usr/binos/bin/ttmd to acces polaris_tdlresolve_t and
#          polaris_global_service_t
polaris_tdlresolve_manage(polaris_ttm_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristtm.te
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#  
# February 2020, Victor Kamensky  
#  
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# All rights reserved  
#  
	policy_module(polarissdavcproxy, 1.0);

 gen_require( ' 
	 type polaris_sdavc_proxy_t; 
')
"

# btrace_application_start
polaris_chasfs_read(polaris_sdavc_proxy_t)
polaris_tdlresolve_read(polaris_sdavc_proxy_t)
polaris_cpld_read(polaris_sdavc_proxy_t)

# Allow SDAVC exports using UDP socket.
allow polaris_sdavc_proxy_t self:udp_socket create_socket_perms;

# Change namespace to allow network communication with vManage
(process_namespace_network_change_internal - opens /var/run/netns/*)
polaris_cedge_set_ns(polaris_sdavc_proxy_t)

# Reset the namespace back to default (process_namespace_network_default opens /proc/1/ns/net)
polaris_cedge_reset_ns(polaris_sdavc_proxy_t)

type polaris_sdavc_proxy_files_t;
  files_type(polaris_sdavc_proxy_files_t)
polaris_pfile_type( polaris_sdavc_proxy_files_t)

# Create /bootflash/sdavc directory, Write, Read & Removed files (For SDAVC imports)
polaris_bootflash_filetrans(polaris_sdavc_proxy_t, polaris_sdavc_proxy_files_t, dir, "sdavc")
polaris_bootflash_filetrans(polaris_iosd_t, polaris_sdavc_proxy_files_t, dir, "sdavc")
polaris_sdavc_proxy_manage(polaris_sdavc_proxy_t)

# IOSd process also should have access to /bootflash/sdavc directory
gen_require(
  type polaris_iosd_t;
')
polaris_sdavc_proxy_manage(polaris_iosd_t)

# Allow SDAVC imports (HTTP GET, PUT) we use /usr/bin/curl executable.
# Exe: curl -f -s --connect-time 10 -o /bootflash/sdavc/.... -w%{http_code} http://<user>:<pw>@<vManage system ip>:
# Run CURL in its domain so it wont have all sdavcproxy permissions.

gen_require(
  type polaris_curl_t;
')
polaris_curl_domtrans(polaris_sdavc_proxy_t)
corennet_tcp_connect_generic_port(polaris_curl_t)

# cURL process also should have access to /bootflash/sdavc directory
polaris_sdavc_proxy_manage(polaris_curl_t)

Found in path(s):
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# Sep 2020, Sridhar C
#
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#

/usr/binos/conf/xcopy_script.sh -- gen_context(system_u:object_r:polaris_xcopy_script_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissdavcproxy.te
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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl All rights reserved
dnl
divert(-1)

include('polaris_process.m4')
dnl Stub out plaris process
define('polaris_process','')

dnl Stub out mqipc
define('polaris_mqipc_service_server','')
define('polaris_mqipc_service_client','')
define('polaris_mqipc_service_server_elastic_client','')


dnl Stub out lipc
define('polaris_lipc_service_server','')
define('polaris_lipc_service_client','')

include('polaris_ipc_ripc.m4')

include('polaris_ipc_base_ripc_te.m4')

dnl Stub out non existent one
define('polaris_websocket_service_server','')
define('polaris_cipc_service_server','')

include('polaris_max_scope.m4')

divert(0)dnl
#
policy_module(autopolarisplatformipcbase, 1.0);

gen_require(``
    attribute port_type;
    attribute defined_port_type;
``)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_base_te.m4
No license file was found, but licenses were detected in source scan.

policy_module(polarisdroputil, 1.0);

polaris_process_domain_template(droputil)

corecmd_exec_bin(polaris_droputil_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_droputil_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_droputil_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_droputil_t)

# work with /tmp files

files_tmp_file(polaris_droputil_tmp_t)
manage_dirs_pattern(polaris_droputil_t, tmp_t, polaris_droputil_tmp_t)
manage_files_pattern(polaris_droputil_t, polaris_droputil_tmp_t, polaris_droputil_tmp_t)
manage_fifo_files_pattern(polaris_droputil_t, polaris_droputil_tmp_t, polaris_droputil_tmp_t)
manage_link_files_pattern(polaris_droputil_t, polaris_droputil_tmp_t, polaris_droputil_tmp_t, polaris_droputil_tmp_t)
files_tmp_filetrans(polaris_droputil_t, polaris_droputil_tmp_t, { file dir })

# on some platform /tmp/rp/dropbox is created by binos service
# that runs under initrc_t
gen_require('  
    type initrc_t;
  ')
files_tmp_filetrans(initrc_t, polaris_droputil_tmp_t, dir, "dropbox")

allow polaris_droputil_t self:capability { sys_resource dac_override }; allow polaris_droputil_t self:process setpgid;

polaris_btrace_data_manage(polaris_droputil_t)
polaris_cpld_read(polaris_droputil_t)
polaris_chasfs_manage(polaris_droputil_t)
polaris_boot_tmp_read(polaris_droputil_t)
polaris_read_debug_conf(polaris_droputil_t)
polaris_disk_crashinfo_getattr(polaris_droputil_t)
polaris_rmonbifo_tmp_read(polaris_droputil_t)

# runs systemctl start reflector.service
systemd_exec_systemctl(polaris_droputil_t)

# PLEASE LOOK AT ME need to have separate label for reflector.service
# allow only to start if, do it once copy of reflector.service is fixed
systemd_config_generic_services(polaris_droputil_t)

# droputil.sh delets /tmp/rp/droputil/so-del-stage/rp/0
fs_getattr_tmpfs(polaris_droputil_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdroputil.te
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#
# March 2017, Victor Kamensky
#
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#

policy_module(polarisofa, 1.0);

gen_require('  
    type polaris_ofa_t;
  ')

polaris_btrace_data_manage(polaris_ofa_t)
polaris_crlt_data_manage(polaris_ofa_t)
polaris_chasfs_manage(polaris_ofa_t)
polaris_tdlresolve_read(polaris_ofa_t)
polaris_tdlldb_list_dirs(polaris_ofa_t)
polaris_cpld_read(polaris_ofa_t)
polaris_flashlib_read(polaris_ofa_t)

allow polaris_ofa_t self:capability sys_admin;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisofa.te
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#
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#
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#

# /bootflash labels
/bootflash(/.*)?             gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/bootflash/ssh(/.*)?         gen_context(system_u:object_r:ssh_home_t,s0)
/bootflash/ssh/ssh_host.*_key\pub  gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/ssh/ssh_host.*_key   gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/tracelogs(/.*)?   gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/bootflash/tan(/.*)?         gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/bootflash/core(/.*)?        gen_context(system_u:object_r:polaris_core_file_t,s0)
/bootflash/debug.conf        gen_context(system_u:object_r:polaris_debug_conf_t,s0)
/bootflash/packages.conf     gen_context(system_u:object_r:polaris_packages_conf_t,s0)

# /objstore
/objstore(/.*)?             gen_context(system_u:object_r:polaris_disk_objstore_t,s0)
/dev/shm/sem\objstore_sem   gen_context(system_u:object_r:polaris_objstore_sem_t,s0)

# hanet driver used by vpcgw platform of VXE family
ifdef(`vpcgw_platform`,
/dev/hanet -c gen_context(system_u:object_r:polaris_hanet_device_t,s0)
')

# /csl_p_0
/csl_p_0(/.*)?             gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)

# /csl_p_1.context
/csl_p_1(/.*)?             gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)

# /csl_s_0.context
/csl_s_0(/.*)?             gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)

# /csl_s_1.context
/csl_s_1(/.*)?             gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)
# /varied
/varied/(/.*)? gen_context(system_u:object_r:polaris_disk_varied_t,s0)
/varied/install_info gen_context(system_u:object_r:polaris_vxeinstall_info_t,s0)
/varied/obfl.* gen_context(system_u:object_r:polaris_obfl_data_t,s0)
/varied/grub_cisco_version gen_context(system_u:object_r:polaris_grubver_t,s0)
/varied/grub(/.*)? gen_context(system_u:object_r:boot_t,s0)
/varied/grub2(/.*)? gen_context(system_u:object_r:polaris_grub_bios_t,s0)
/varied/vcpu_template.txt gen_context(system_u:object_r:polaris_iosd_vcpu_t,s0)

/sbin/grub* gen_context(system_u:object_r:bootloader_exec_t,s0)

# /grubenv
/bootefi/(/.*)? gen_context(system_u:object_r:polaris_grub_efi_t,s0)

# from /lib/tmpfiles.d/binos-vxe.conf
/lic0 -l gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/lic1 -l gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)

# umbrella_ini.sh executable label
/usr/binos/conf/umbrella_init.sh -- gen_context(system_u:object_r:polaris_umbrella_init_exec_t,s0)

# On ultra_us /cpld_util.sh creates /tmp/chassis. Put this script into the initexec_t domain so
# chasfs transitions properly.
#cpld_util.sh gen_context(system_u:object_r:initrc_exec_t,s0)

# /config labels
/config(/.*)? gen_context(system_u:object_r:polaris_disk_config_t,s0)
/config/ssh(/.*)? gen_context(system_u:object_r:ssh_home_t,s0)
/config/ssh/ssh_host.*_key\..* gen_context(system_u:object_r:sshd_key_t,s0)
/config/ssh/ssh_host.*_key gen_context(system_u:object_r:sshd_key_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisvxe.fc
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#
# March 2017, Victor Kamensky
#
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#
#
policy_module(polarisboot, 1.0);

###########################################################################
# /tmp/sw/boot policy

Open Source Used In Crosswork Platform Infrastructure cw-infra-opensource-4.3.0 16196
type polaris_boot_tmp_t;
files_tmp_file(polaris_boot_tmp_t)
gen_require("
    attribute domain;
"
)files_tmp_filetrans(domain, polaris_boot_tmp_t, dir, "boot")# /tmp/sw/isos
files_tmp_filetrans(domain, polaris_boot_tmp_t, dir, "isos")

# dmesg command is executed in its own domain and result is store
# into /tmp/sw/boot/dmesg file
gen_require("
    type dmesg_t;
"
)polaris_boot_tmp_write(dmesg_t)

# /tmp/reload_reason copied from /bootflash/prst_sync/reload_info
files_tmp_filetrans(domain, polaris_boot_tmp_t, file, "reload_reason")

# /tmp/bootup_timestamp created by /etc/init.d/binos
gen_require("
    type initrc_t;
    type init_t;
"
)files_tmp_filetrans({ initrc_t init_t }, polaris_boot_tmp_t, file, "bootup_timestamp")

type polaris_boot_file_t;
files_type(polaris_boot_file_t)
polaris_pfile_type(polaris_boot_file_t)
gen_require("
    type polaris_disk_bootflash_t;
"
)filetrans_pattern(domain, polaris_disk_bootflash_t, polaris_boot_file_t, file, "reload_info")
filetrans_pattern(domain, polaris_disk_bootflash_t, polaris_boot_file_t, file, "stack_reload_info")

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisboot.te
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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscfgmgr.fc
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscxp.fc
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmiportsfetch.fc
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisftm.fc
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdbgd.fc
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfpm.fc
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisvdaemon.fc
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisftm.fc
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisinstallmgr.fc

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#
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#

## <summary>Polaris Common Policy Rules.</summary>

# Polaris common

### <summary>
Create a domain for long running Polaris processes in confined mode.
</summary>

### <param name="domain">
Domain allowed access.
</param>

### <param name="entry_point">
Type of the program to be used as an entry point to this domain.
</param>

# interface('polaris_process_domain_confined',
    gen_require(
        type unconfined_service_t;
    )
    init_daemon_domain($1, $2)

# Polaris process now started by pman, which still runs
# under unconfined label
type_transition unconfined_service_t $2:process $1;
allow unconfined_service_t $1:process transition;
allow $1 unconfined_service_t:process sigchld;

polaris_pman_entry($1, $2)

gen_require(
    attribute polaris_domain;
    attribute polaris_exec_domain;
    attribute polaris_extended_domain;
)
typeattribute $1 polaris_domain, polaris_extended_domain;
typeattribute $2 polaris_exec_domain;

# allow all process to check whether kernel ksm is enabled
polaris_ksm_run_check($1)
)

#######################################
## <summary>
##      Create a domain for long running Polaris processes. Note
##      depending on policy build setting it could be confined or
##      not confined
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
##<param name="entry_point">
##<summary>
##Type of the program to be used as an entry point to this domain.
##</summary>
## </param>
#
interface(`polaris_process_domain`,

# the default is to confine all domains
polaris_process_domain_confined($1, $2)

#
# if the domain is in the permissive map, then set it to be confined
# permissive. if the domain is in the confined map, then there really
# isn't much else to do but leave it confined. if the domain isn't in
# the permissive or confined maps then determine if the domain should
# be unconfined.
#
ifelse(permissive_domain($1), $1, `polaris_permissive_domain_setup($1)',
    confined_domain($1), $1, `',
    `polaris_domain_maybe_unconfined($1)')
)

########################################
## <summary>
## Create a domain for utility Polaris processes in
## confined mode.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>

# interface(`polaris_utility_domain_confined',`
domain_type($1)
domain_entry_file($1, $2)
    role system_r types $1;

gen_require(
    attribute polaris_domain;
    attribute polaris_exec_domain;
    attribute polaris_extended_domain;
)
typeattribute $1 polaris_domain, polaris_extended_domain;
typeattribute $2 polaris_exec_domain;

    # allow all process to check whether kernel ksm is enabled
    polaris_ksm_run_check($1)
)

########################################
## <summary>
## Create a domain for utility Polaris processes. Note
## depending on policy build setting it could be confined or
## not confined
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <summary>
## Type of the program to be used as an entry point to this domain.
## </summary>
## </param>

# interface('polaris_utility_domain',

    # the default is to confine all domains
    polaris_utility_domain_confined($1, $2)

    #
    # if the domain is in the permissive map, then set it to be confined
    # permissive. if the domain is in the confined map, then there really
    # isn't much else to do but leave it confined. if the domain isn't in
    # the permissive or confined maps then determine if the domain should
    # be unconfined.
    #
    ifelse(permissive_domain($1), $1, 'polaris_permissive_domain_setup($1)',
            confined_domain($1), $1, '',
            'polaris_domain_maybe_unconfined($1)')
')

### <summary>
### Creates types and rules for a basic
### polaris process domain.
### </summary>
### <param name="stem">
### Stem for the domain. Name is constructed as polaris_stem_t
### </param>

# template('polaris_process_domain_template',
    type polaris_$1_t;
    type polaris_$1_exec_t;

    polaris_process_domain(polaris_$1_t, polaris_$1_exec_t)
ifdef(polaris_permissive,
    permissive polaris_$1_t;

polaris_btrace_data_client_template($1)
polaris_maroon_data_client_template($1)
polaris_crft_data_client_template($1)
polaris_process_proc_kpageflags_template($1)
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polaris_process_uswap_access(polaris_$1_t, $1, "$1")
'

########################################
## <summary>
## Creates types and rules for a basic
## polaris process domain.
## </summary>
## <param name="stem">
## Stem for the domain. Name is constructed as polaris_stem_t
## </param>
#
# template('polaris_utility_domain_template',`
  type polaris_$1_t;
  type polaris_$1_exec_t;

  polaris_utility_domain(polaris_$1_t, polaris_$1_exec_t)
  ifdef(polaris_permissive,`
    permissive polaris_$1_t;
  ')

  polaris_btrace_data_client_template($1)
  polaris_maroon_data_client_template($1)
  polaris_crft_data_client_template($1)
  polaris_process_proc_kpageflags_template($1)
  ')

########################################
## <summary>
## Allow the specified domain to execute polaris domain
## process in the caller domain.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface('polaris_exec',`
  gen_require(
    attribute polaris_exec_domain;
  ')

  can_exec($1, polaris_exec_domain)
  ')

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## <summary>
## Allow the specified domain to read polaris domain executable file. I.e to get information from executables like binary trace info, trace key etc
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_read_exec_domain',`
  gen_require(`
    attribute polaris_exec_domain;
    type bin_t;
  `)
  
  read_files_pattern($1, bin_t, polaris_exec_domain)
`)

## <summary>
## Allow the specified domain to receive signals from any polaris process.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_receive_signal_from_domain',`
  gen_require(`
    attribute polaris_domain;
  `)
  
  allow polaris_domain $1:process signal_perms;
`)

## <summary>
## Systemd-tmpfiles utility creates an object in the tmp directories, with a private type using a type transition. Note rules to create files and directories which are performed by systemd-tmpfiles reside in /lib/tmpfiles.d/
## </summary>
## directory. And polaris specific rules are in bins.conf file.
## Note systemd-tmpfiles utility would use label from file_contexts
to restore proper label. I.e the same effect could be achieved by
placing proper .fc expression.
## </summary>
## <param name="private type">
## The type of the object to be created.
## </summary>
## </param>
## <param name="object">
## The object class of the object being created.
## </summary>
## </param>
## <param name="name">
## The name of the object being created.
## </summary>
## </param>
#
interface('polaris_systemd_tmpfiles_tmp_filetrans',
    gen_require('
        type systemd_tmpfiles_t;
    ')
    files_tmp_filetrans(systemd_tmpfiles_t, $1, $2, $3)
')

###########################################################
## socketat through get_netns_fd function call access
## /proc/pid/ns/net file
## Implementation notes:
##
## wants to read /proc/pid/ns/net but gets denial because our 3.10 kernel
does not support nsfs yet, so /proc/pid/ns/net is marked as proc_t instead
## of be nsfs_t. For now allow read access to proc_t through
## kernel_system_state_reader attribute. Try to drop it in latter kernels
## type=AVC msg=audit(1479574148.450:70): avc: denied { open } for pid=27619 comm="smd"
path="net:/4026531957" dev="proc" ino=4026531957 scontext=system_u:system_r:polaris_smd_t:s0
tcontext=system_u:object_r:proc_t:s0 tclass=file
## in 4.4 /proc/pid/ns/net inode is under nsfs_t, polaris_smd_t needs to
## open, getattr, and read from it
## </summary>
## <param name="domain">
## Domain allowed access.
interface(`polaris_socketat_nsfs_read',`
   kernel_read_system_state($1)
   fs_read_nsfs_files($1)
   gen_require(`
      type ifconfig_var_run_t;
   `)
   list_dirs_pattern($1, ifconfig_var_run_t, ifconfig_var_run_t)
   `)

#######################################
## <summary>
##      All namespace related operation to switch name space
##      is covered under this macro.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_namespace_set_netns_with_etc',`
   files_mounton_isid($1)
   files_mounton_rootfs($1)
   dev_mount_sysfs_fs($1)
   dev_unmount_sysfs_fs($1)
   sysnet_read_config($1)
   sysnet_write_config($1)
   sysnet_manage_config_dirs($1)
   files_rw_etc_files($1)
   allow $1 net_conf_t:file mounton;
   allow $1 etc_t:file mounton;
   allow $1 self:capability sys_chroot;
   `)

#######################################
## <summary>
##      process can execute libeutil build_config_directory function
## </summary>
## Implementation notes:
## build_config_directory function from mgmt/libeutil/src/eiutil.c
## calls glibc nftw function, which effectively walks whole file tree
## and execute given call back. While function is executed it needs
## access to all files and directories attributes also it wants to
## search all directories. But we will not grant search access to
## security_file_type, instead we will dontaudit those. Anyway no
# relevant config file should be under security_file_type directory.

## <summary>
## <param name="domain">
##  Domain allowed access.
##  
## </summary>

```c
interface('polaris_libeutil_build_config_directory',
    files_getattr_all_files($1)
    files_getattr_all_dirs($1)
    files_read_all_symlinks($1)
    
    files_list_non_security($1)
    files_dontaudit_list_security_dirs($1)
)
```

## <summary>
## Allow the specified domain to read write from i2c device.
## 
## </summary>

```c
interface('polaris_i2c_use',
    gen_require(
        type device_t;
        type polaris_i2c_device_t;
    )
    
    rw_chr_files_pattern($1, device_t, polaris_i2c_device_t)
)
```

## <summary>
## Work (read, write, ioctl) with /dev/remap_mem0
## 
## </summary>

```c
interface('polaris_remap_mem_dev_use',
    gen_require(
)
```
type device_t;

type polaris_remap_mem_device_t;

write_chr_files_pattern($1, device_t, polaris_remap_mem_device_t)
read_chr_files_pattern($1, device_t, polaris_remap_mem_device_t)
allow $1 polaris_remap_mem_device_t:chr_file map;

####################################
## <summary>
##      Allow the specified domain to read firmware files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_firmware_read',
#    gen_require(
#      type polaris_firmware_t;
#    ')

read_files_pattern($1, polaris_firmware_t, polaris_firmware_t)
#/firmware/* are link files, allow to follow symbolic link
allow $1 polaris_firmware_t:lnk_file read;
allow $1 polaris_firmware_t:dir read;

####################################
## <summary>
##      Allow the specified domain to manage firmware files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_firmware_manage',
#    gen_require(
#      type polaris_firmware_t;
#    ')

manage_files_pattern($1, polaris_firmware_t, polaris_firmware_t)
manage_link_files_pattern($1, polaris_firmware_t, polaris_firmware_t)
manage_dirs_pattern($1, polaris_firmware_t, polaris_firmware_t)
## <summary>
## Allow the specified domain to getattr of firmware files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_firmware_getattr',
    gen_require(
        type polaris_firmware_t;
    ')
)
getattr_files_pattern($1, polaris_firmware_t, polaris_firmware_t)
')

## <summary>
## Allow the specified domain to map of firmware files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_firmware_map',
    gen_require(
        type polaris_firmware_t;
    ')
)
read_files_pattern($1, polaris_firmware_t, polaris_firmware_t)
allow $1 polaris_firmware_t:file map;
')

## <summary>
## Allow the specified domain to write relocations into text segment, deals
## with icc broken relocations.
##
## LOOK AT ME:
## Basically it deals with denials like this:
## type=AVC msg=audit(1475815369.598:3): avc: denied { execmod } for pid=4929 comm="cman_fp"
## path="/tmp/sw/mount/csr1000v-mono-universalk9.2016-10-06_20.15_kamensky.SSA.pkg/usr/cpp/lib64/libcpp_client_ha_oor.so" dev="loop0" ino=7683

scontext=system_u:system_runconfined_service_t:s0 tcontext=system_u:object_r:lib_t:s0 tclass=file
## It happens because icc generates code with relocations in text segment and
## run-time linker is dealing with it by doing mprotect(WRITE), relocatings,
## mprotect(NO WRITE). Remove once icc compiled is fixed
##
## </summary>
## <param name="domain">
##   <summary>
##      Domain allowed access.
##   </summary>
## </param>
#
interface('polaris_icc_broken_relocations',
   gen_require(
      type lib_t;
   ')

   allow $1 lib_t:file execmod;
')


######################################
## <summary>
##      Allow the specified domain to work with /dev/mem
##
## LOOK AT ME!!! LOOK AT ME!!! Missing driver: application works
## with /dev/mem directy
## </summary>
## <param name="domain">
##   <summary>
##      Domain allowed access.
##   </summary>
## </param>
#
interface('polaris_dev_mem_use',
   dev_read_raw_memory($1)
   dev_write_raw_memory($1)
   allow $1 self:capability sys_rawio;
   gen_require(
      type memory_device_t;
   ')
   allow $1 memory_device_t:chr_file map;
')

######################################
## <summary>
##      Append to /tmp/etc file. First usage to update xinetd.conf
## files.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_etc_append,'
  gen_require(''
      type polaris_etc_t;
  ')
      append_files_pattern($1, polaris_etc_t, polaris_etc_t)
')

#######################################
## <summary>
##      Search /tmp/etc directory
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_etc_search,'
  gen_require(''
      type polaris_etc_t;
  ')
      search_dirs_pattern($1, polaris_etc_t, polaris_etc_t)
')

########################################
## <summary>
##	List the contents of /etc directories.
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed access.
##
## </param>
#
interface('polaris_etc_list,'
  gen_require(''
      type polaris_etc_t;
  ')
  allow $1 polaris_etc_t:dir list_dir_perms;
')
## <summary>
## Allow domain to attach to TUN devices created by ifconfig_t subject.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('ifconfig_attach_tun_iface',
  gen_require(''
    type ifconfig_t;
  ')

allow $1 ifconfig_t:tun_socket relabelfrom;
allow $1 self:tun_socket relabelto;
')

## <summary>
## Perms used by pidof
## binos/infra/systemd/scripts/errmsg.sh, might needs /dev/ttyS0
## access.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolebase/>
#
interface('pidof_use',
  # FIXME or fix labeling
  # /sys/devices/system/cpu/online should be labeled cpu_online_t
  # but for some reason this did not happen, grant perms for both
  dev_read_sysfs($1)
  dev_read_cpu_online($1)
  # /proc scan
  domain_read_all_domains_state($1)
  kernel_list_proc($1)
')

## <summary>
## Script can execute errmsg function from
## binos/infra/systemd/scripts/errmsg.sh, might needs /dev/ttyS0
## access.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface(`polaris_script_errmsg_use`,`
    # send to syslog (journal), iosd outputs to console if up
    logging_send_syslog_msg($1)
    # check if iosd is up and find its pid and if ttyS0 is opened
    pidof_use($1)
    # if FDs dont have ttyS0 it sends to console itself
    term_use_unallocated_ttys($1)
  `)

#################################################################
## <summary>
##      Allow the specified domain to read ebf (explicit
## bindind) files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_ebf_map`,`
    gen_require(
        type polaris_ebf_t;
    `)

    read_files_pattern($1, polaris_ebf_t, polaris_ebf_t)
    allow $1 polaris_ebf_t:file map;
  `)

#################################################################
## <summary>
##      Allow the specified domain to execute show_version command
## for given executable label
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <param name="subject_exec">

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## <summary>
## Domain of executable that version can be checked
## </summary>
## </param>
#
interface('polaris_show_version',
    read_files_pattern($1, $2, $2)
    allow $1 $2:file map;
')

########################################################
## <summary>
## Configure the polaris domain as permissive
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface('polaris_permissive_domain_setup',
    gen_require(
        type $1;
    ')
    permissive $1;
')

########################################################
## <summary>
## Creates types and rules for process access to uswap feature.
##      Ability to create file/folder under /bootflash/.USWAP/"FRU", and
##      map file.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <param name="stem">
##      <summary>
##      Stem for the object label. Name is contructed as
##      polaris_"stem"_uswap_files_t. It should be the short
##      form of the process name.
## </summary>
## </param>
## <rolebase/>
#
interface('polaris_type_rule_setup',
    gen_require(
        type $1;
    ')
    uswapetype $1;
')
template(`polaris_process_uswap_access',`
  gen_require(`
    type polaris_uswap_files_t;
  `)
type polaris_$2_uswap_files_t;
  
  files_type(polaris_$2_uswap_files_t)
  polaris_pfile_type(polaris_$2_uswap_files_t)

  filetrans_pattern($1, polaris_uswap_files_t, polaris_$2_uswap_files_t, {file dir})
  manage_dirs_pattern($1, polaris_$2_uswap_files_t, polaris_$2_uswap_files_t)
  manage_files_pattern($1, polaris_$2_uswap_files_t, polaris_$2_uswap_files_t)
  manage_lnk_files_pattern($1, polaris_$2_uswap_files_t, polaris_$2_uswap_files_t)
  allow $1 polaris_$2_uswap_files_t:file map;

  # allow access to pvp to clean-up the process related uswap file/folder
  gen_require(`
    type polaris_pvp_t;
  `)
  allow polaris_pvp_t polaris_$2_uswap_files_t:dir { read remove_name rmdir write }
  allow polaris_pvp_t polaris_$2_uswap_files_t:file unlink;
`)

########################################
## <summary>
##  Allow process access to to access page related files such as "/proc/kpageflags"
## </summary>
## <param name="stem">
##  <summary>
##    Stem for the domain. Name is constructed as polaris_stem_t
##  </summary>
## </param>
#
# template(`polaris_process_proc_kpageflags_template',`
  gen_require(`
    type proc_t;
  `)
  allow polaris_$1_t proc_t:file { open read };
### <summary>
### transition context of fman(rp/fp) created iptbl tmp files related to acl mgmt.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
#
interface('polaris_fman_acl_iptbl_tmp_file',`
    gen_require('`
    type polaris_iptbl_tmp_t;
    `')
files_tmp_filetrans($1, polaris_iptbl_tmp_t, file, "iptbl.v4")
files_tmp_filetrans($1, polaris_iptbl_tmp_t, file, "iptbl.v6")
manage_files_pattern($1, polaris_iptbl_tmp_t, polaris_iptbl_tmp_t)
`)

### <summary>
### Manage files/folders in /tmp/rsync_log_dir.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
#
interface('polaris_manage_rsync_tmplog_dir',`
    gen_require('`
    type polaris_rsync_tmp_t;
    `')
manage_files_pattern($1, polaris_rsync_tmp_t, polaris_rsync_tmp_t)
manage_dirs_pattern($1, polaris_rsync_tmp_t, polaris_rsync_tmp_t)
`)

### <summary>
### Manage cerr shared memory /dev/shm/cerrno_dll.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
## <summary>
## Manage shared memory for vrf - /dev/shm/vrf_shm.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_vrf_shm_manage',
    gen_require('    type tmpfs_t;
    type polaris_vrf_shm_t;
')
fs_getattr_tmpfs($1)
manage_files_pattern($1, tmpfs_t, polaris_vrf_shm_t)
allow $1 polaris_vrf_shm_t:file map;
filetrans_pattern($1, tmpfs_t, polaris_vrf_shm_t, file, "vrf_shm")
')

## <summary>
## On-demand creation of vrf-based netns using "ip netns".
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_vrf_netns_manage',
polaris_vrf_shm_manage($1)
kernel_rw_net_sysctls($1)
polaris_lfts_dev_use($1)

sysnet_exec_ifconfig($1)
sysnet_manage_ifconfig_run($1)
gen_require(
  type ifconfig_var_run_t;
  )
allow $1 ifconfig_var_run_t:file { create mounton open read }
allow $1 ifconfig_var_run_t:dir mounton;

gen_require(
  type polaris_ip_linux_port_var_t;
  )
read_files_pattern($1, var_t, polaris_ip_linux_port_var_t)
getattr_files_pattern($1, var_t, polaris_ip_linux_port_var_t)
)

#**************************************************************************
## <summary>
## Allow read/write of network state directory files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(polaris_kernel_rwlock_network_state_files);
gen_require(
  type proc_net_t;
  )

rw_files_pattern($1, proc_net_t, proc_net_t)
)
#
#**************************************************************************
## <summary>
## Allow the specified domain to send signals to
## Binos shell
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#

interface('polaris_send_signal_to_shell',
    gen_require(
        type polaris_shell_t;
    ')
)

allow $1 polaris_shell_t:process signal_perms;
')

#########################################################################
## <summary>
## Execute curl in the curl domain.
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </param>
#
interface('polaris_curl_domtrans',
    gen_require(
        type polaris_curl_t, polaris_curl_exec_t;
    ')
)

corecmd_search_bin($1)
domtrans_pattern($1, polaris_curl_exec_t, polaris_curl_t)
')

#########################################################################
## <summary>
## Manage files and directories in /tmp directory with rsync_tmp_t
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('rsync_tmp_manage',
    gen_require(
        type rsync_tmp_t;
    ')
)

manage_dirs_pattern($1, rsync_tmp_t, rsync_tmp_t)
manage_files_pattern($1, rsync_tmp_t, rsync_tmp_t)
manage_lnk_files_pattern($1, rsync_tmp_t, rsync_tmp_t)
manage_fifo_files_pattern($1, rsync_tmp_t, rsync_tmp_t)
')

#########################################################################
## <summary>
## Allow the specified domain to read /tmp/ldwm_envelope file
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
interface('polaris_ldwm_envelope_read',
    gen_require('type polaris_ldwm_envelope_tmp_t;
')
read_files_pattern($1, polaris_ldwm_envelope_tmp_t, polaris_ldwm_envelope_tmp_t)
')

# This is copied from polarisngwc.if since other platforms may also read/write /sys/devices files. In addition to ngwc, tsn requires it.
# Write into /sys/devices/virtual/misc/gpio/gpio_out_assert sysfs files.
# or /sys/devices/platform/cpn-110-master/cpn-110-master sysfs
## <summary>
## Domain allowed access.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
interface('polaris_ggpio_dev_read_write',
    gen_require('type polaris_sysfs_ggpio_t;
')
read_files_pattern($1, polaris_sysfs_ggpio_t, polaris_sysfs_ggpio_t)
write_files_pattern($1, polaris_sysfs_ggpio_t, polaris_sysfs_ggpio_t)
')

## Manage files under /bootflash/certs , cert files for AP
## <param name="domain">
## Domain allowed access.
## </summary>
## <param>
# interface('polaris_wlc_ap_cert_manage',
    gen_require('
type polaris_ap_cert_file_t;

manage_files_pattern($1, polaris_ap_cert_file_t, polaris_ap_cert_file_t)
manage_dirs_pattern($1, polaris_ap_cert_file_t, polaris_ap_cert_file_t)

#
## <summary>
##     Manage SERDES key directory and files
##     SERDES library stores info in /tmp/serdes_asic_key_dir/*
## </summary>
## <param name="domain">
##     <summary>
##     Domain allowed access.
##     </summary>
## </param>
#
interface('polaris_serdes_asic_key_tmp_manage',`
gen_require(
    type polaris_serdes_asic_key_tmp_t;
    )

files_tmp_filetrans($1, polaris_serdes_asic_key_tmp_t, {dir file}, "serdes_asic_key_dir")
manage_dirs_pattern($1, {tmp_t polaris_serdes_asic_key_tmp_t}, polaris_serdes_asic_key_tmp_t)
manage_files_pattern($1, polaris_serdes_asic_key_tmp_t, polaris_serdes_asic_key_tmp_t)
`)

#
## <summary>
##     Manage polaris_tech_support_tmp_t in /tmp.
## </summary>
## <param name="domain">
##     <summary>
##     Domain allowed access.
##     </summary>
## </param>
interface('polaris_tech_support_tmp_read',`
gen_require(
    type polaris_tech_support_tmp_t;
    )

read_files_pattern($1, polaris_tech_support_tmp_t, polaris_tech_support_tmp_t)
`)

*****************************************************************************
### <summary>
### Getattr of any file under /proc/*/fd/*. Typically run by lsof.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
interface(`polaris_proc_fd_all_getattr`,

domain_read_all_domains_state($1)
files_getattr_all_files($1)
files_getattr_all_dirs($1)
files_getattr_all(sockets($1)
files_getattr_all_pipes($1)
files_getattr_all_chr_files($1)
files_getattr_all_symlinks($1)
files_read_all_dirs_except($1)
dev_getattr_all_chr_files($1)
dev_getattr_all_blk_files($1)
dev_getattr_mtrr_dev($1)

# misc socket and fifo files got created under label of its process domain
# and since domain labels are not in file_type attribute, need special
# permission
gen_require(
    attribute domain;
)'
allow $1 domain:{socket socket_class_set fifo_file} getattr;
# access sysctl_rpc_t
kernel_read_rpc_sysctls($1)
')

#######################################
### <summary>
### Manage files and directories sysfs. This should only be used
### if the interface needs sysfs_t create access. Otherwise please use
### dev_rw_sysfs
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
### </param>
### <rolebase/>
#
interface(`polaris_sysfs_manage`,

gen_require('sysfs_t_t);
)
manage_files_pattern($1, sysfs_t, sysfs_t)
')

#######################################
## <summary>
##  Check access to the init/systemd executable.
## </summary>
## <param name="domain">
##  Domain allowed access.
## </param>
#
interface('polaris_init_access_check',
    gen_require('init_exec_t_t);
    init_access_check($1)
    allow $1 init_exec_t:file {open read};
    allow $1 init_exec_t:lnk_file read_lnk_file_perms;
')

#######################################
## <summary>
##  Manage polaris_manage_rommon_info in /tmp.
## </summary>
## <param name="domain">
##  Domain allowed access.
## </param>
#
interface('polaris_manage_rommon_info',
    gen_require('polaris_rommon_info_tmp_t_t);
    manage_files_pattern($1, polaris_rommon_info_tmp_t, polaris_rommon_info_tmp_t)
')

#######################################
## <summary>
##  Allow the specified domain to manage tamlib debug file /bootflash/tamlib_dbg_log
## </summary>
## <param name="domain">
##  Domain allowed access.
## }
## <summary>
##      Allow access to /dev/ddr
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
#
interface(`polaris_ddr_dev_use`,
    gen_require(`
        type device_t;
        type polaris_ddr_device_t;
    `)
    write_chr_files_pattern($1, device_t, polaris_ddr_device_t)
    read_chr_files_pattern($1, device_t, polaris_ddr_device_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscommon.if
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
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#

## <summary>Polaris tams_rp Policy Rules.</summary>

#
## Domain allowed access.

```c
interface(`polaris_tams_rp_socket_connect',
    gen_require(
        type polaris_tams_rp_t;
    )
    allow $1 polaris_tams_rp_t:unix_stream_socket connectto;
)
```

- **Found in path(s):**
  - * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristamsrp.if

No license file was found, but licenses were detected in source scan.

---

# August 2017, Shawn Lu

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# polariswncd file contexts place holder

- **Found in path(s):**
  - * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswncd.fc

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---

# March 2017, Victor Kamensky

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# /harddisk /harddisk -> /misc/scratch

- **Found in path(s):**
  - * /mnt/images/(.*)? gen_context(system_u:object_r:polaris_wlc_ap_images_t,s0)
  - /harddisk gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)
  - /misc/scratch gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
  - /usb0 gen_context(system_u:object_r:removable_t,s0)
  - /usb1 gen_context(system_u:object_r:removable_t,s0)
  - /misc/usb0 gen_context(system_u:object_r:removable_t,s0)
  - /misc/usb1 gen_context(system_u:object_r:removable_t,s0)
No license file was found, but licenses were detected in source scan.

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#
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#
/tmp/tam_cfg_done(/.*)?  gen_context(system_u:object_r:polaris_tam_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgtamcfg.fc
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#
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#
## <summary>Polaris omp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisomp.if
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#
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#
## <summary>Polaris TDLDB Policy Rules.</summary>

# Polaris tdldb (infra/tdllib)

## <summary>
##      Make specified domain as one of tdldb types.
## </summary>
## <param name="domain">
##      <summary>
## The domain serving as polaris_tdldb type

```csharp
interface('polaris_tdldb_type',
    gen_require(
        attribute polaris_tdldb;
    )
typeattribute $1 polaris_tdldb;

files_type($1)
')
```

---

## List directories in /tmp/[rp|fp|cc]/tdldb directories.

```csharp
interface('polaris_tdldb_list_dirs',
    gen_require(
        type polaris_tdldb_t;
    )
    list_dirs_pattern($1, polaris_tdldb_t, polaris_tdldb_t)
')
```

---

## Use tdldb database files in /tmp/[rp|fp|cc]/tdldb

```csharp
interface('polaris_tdldb_use',
    gen_require(
        type polaris_tdldb_t;
    )
    object($1, polaris_tdldb_t)
')
```
#
interface('polaris_tdldb_use',``
  gen_require(`
  type polaris_tdldb_t;
    type tmp_t;
  `)
  manage_dirs_pattern($1, polaris_tdldb_t, polaris_tdldb_t)
  manage_files_pattern($1, polaris_tdldb_t, $2)
  allow $1 $2:file map;
  allow $1 polaris_tdldb_t:file lock;
  type_transition $1 polaris_tdldb_t : file $2 "$3";
  type_transition $1 polaris_tdldb_t : file $2 "$3.lock";

  # manage /var/tmp/tdldb_ene_fifo.0xYYYYY files - it seems there is
  # no way to assign separate label to them
  manage_fifo_files_pattern($1, tmp_t, tmp_t)

  # tdllib_database_handle_open_internal through libuuid calls
  # uuid_generate_time_generic, which needs access to udp socket
  # once it reaches get_node_id function
  allow $1 self:udp_socket { create ioctl }

`)


*)

filetrans_pattern($1, polaris_tdldb_t, polaris_tdldb_persist_t, dir, "persistent-config")
# allow creation of /tmp/rp/dl/db/persistent-config
manage_dirs_pattern($1, polaris_tdldb_t, polaris_tdldb_persist_t)
# Manage files inside of its own polaris_tdldb_persist_t directories
manage_files_pattern($1, polaris_tdldb_persist_t, polaris_tdldb_persist_t)

*)

###############################################
## <summary>
## Manage tdldb directories
## </summary>
## <param name="domain">
## The domain serving as polaris_tdldb type
## </param>
#
# interface('polaris_tdldb_manage_dirs',
  gen_require(
    type polaris_tdldb_t;
  
  )
manage_dirs_pattern($1, polaris_tdldb_t, polaris_tdldb_t)

###############################################
## Use polaris_dir_db_tdldb_t database.
##
## <summary>
## Domain allowed access.
## </summary>
## <param>
## <infoflow type="none"/>
#
interface('polaris_dir_db_tdldb_dir_use',
  gen_require(
    type polaris_dir_db_tdldb_t;
  
  )
  polaris_tdldb_use($1, polaris_dir_db_tdldb_t, DB_DIR)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristdldb.if

No license file was found, but licenses were detected in source scan.
policy_module(polariswncd, 1.0);

gen_require(`
  type polaris_wncd_t;
`)

  polaris_btrace_data_manage(polaris_wncd_t)
polaris_crft_data_manage(polaris_wncd_t)
polaris_chasfs_manage(polaris_wncd_t)
polaris_tdlresolve_read(polaris_wncd_t)
polaris_tdlldb_list_dirs(polaris_wncd_t)
polaris_cpld_read(polaris_wncd_t)
polaris_lua_read(polaris_wncd_t)
polaris_flashlib_read(polaris_wncd_t)

polaris_ripe_sman_ui_serv_connect(polaris_wncd_t)

polaris_db_tdlldb_dir_use(polaris_wncd_t)

# wncd need setrlimit to change limit of resource
allow polaris_wncd_t self:process setrlimit;
allow polaris_wncd_t self:capability sys_resource;

# allow tcp connection from http port
allow polaris_wncd_t self:capability net_bind_service;
corenent_tcp_bind_http_port(polaris_wncd_t)

# allow udp for dhcpd
corenent_udp_bind_dhcpd_port(polaris_wncd_t)
corenent_udp_bind_generic_node(polaris_wncd_t)
allow polaris_wncd_t self:udp_socket { create_socket_perms recv_msg send_msg }

# allow AF_PACKET
allow polaris_wncd_t self:capability net_raw;
allow polaris_wncd_t self:packet_socket { create_socket_perms recv_msg send_msg }

# required in function ewlc_capwap_dgram_srvr_state_update()
allow polaris_wncd_t self:rawip_socket { create_socket_perms setopt ioctl }

corenent_raw_bind_generic_node(polaris_wncd_t)
allow polaris_wncd_t port_t:rawip_socket name_bind;

#allow to read /etc/passwd
auth_use_nsswitch(polaris_wncd_t)

#stuff related to vrf support of the socket
polaris_lfts_dev_use(polaris_wncd_t)
polaris_socketat_nsfs_read(polaris_wncd_t)

# each instance of wncd has a devshell support
corenet_tcp_bind_polaris_wncd_devshell_port(polaris_wncd_t)

# extra instances of wncd do set up cyan database for given elastic number
polaris_dyncfg_setup(polaris_wncd_t)

allow polaris_wncd_t self:capability dac_override;

# wncd does ionotify for /bootflash/apple_device_map.xml file in
# wsa_notif_register_filepath function
polaris_bootflash_read(polaris_wncd_t)
polaris_persistent_watch(polaris_wncd_t)

# manage pem certificates on /bootflash
polaris_persistent_manage(polaris_wncd_t)

# for /dev/shm/cerrno_dll
polaris_cerr_shm_manage(polaris_wncd_t)

*******************************************************************************
# For ewlc, wncd and wncmgrd needs access to files under /mnt/images/...these
# are related to AccessPoint images
*******************************************************************************

type polaris_wlc_ap_images_t;
files_type(polaris_wlc_ap_images_t)

# wncd calls ewlc_get_ap_sw_version() to open/read
# /tmp/sw/rp/0/0/rp_wlc/mount/mnt/images/ap.pri/version.info
# call-chain: main -> ewlc_app_context_init -> wncd_evlib_app_init_cb ->
# ewlc_capwapac_lib_init -> capwapac_init_default_config -> ewlc_get_ap_sw_version
polaris_wlc_ap_images_read(polaris_wncd_t)

polaris_odm_clnt2svr_mqipc_create(polaris_wncd_t)

# wncd works with AF_NETLINK NLMSG_APP_SIP ewlc_sip_netlink_sock_init
allow polaris_wncd_t self:netlink_socket create_socket_perms;

logging_send_syslog_msg(polaris_wncd_t)

# binds to mdns port from mdns_ipv4_socket_init function
corenet_udp_bind_mdns_port(polaris_wncd_t)

# bind CAPWAP control and data
corenet_udp_bind_polaris_capwap_ctr_port(polaris_wncd_t)
corenets_udp_bind_polaris_capwap_data_port(polaris_wncd_t)

#allow read/write/mmap access to awips file
gen_require('type polaris_awips_signature_file_t;
')
allow polaris_wncd_t polaris_awips_signature_file_t:file { map read open getattr unlink};

# allow read / write / unlink access to /bootflash/certs
polaris_wlc_ap_cert_manage(polaris_wncd_t)

# wnyc ewlc-lisp interaction module, connect to lisp map-server on port 4342
corenets_tcp_connect_lisp_cons_control_port(polaris_wncd_t)

# binds to mdns bcp port from mdns bcp function
corenets_udp_bind_mdns_bcp_port(polaris_wncd_t)

#DB persistence
polaris_tlldbpersist_setup(polaris_wncd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswncd.te
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#

### <summary>Polaris ngwc_fed_debug Policy Rules.</summary>

# # Connect to and send messages to /tmp/idope_svr and
# /tmp/shfwd_svr unix datagram sockets.
## # <summary>
## # <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_fed_debug_sock_write',
    gen_require(
        type polaris_fed_debug_sock_t;
        type polaris_ngwc_fed_debug_mgr_t;
        type tmp_t;
    ')
    allow $1 self:unix_stream_socket {create_socket_perms};
    allow $1 polaris_ngwc_fed_debug_mgr_t:unix_stream_socket {connectto};
    write_sock_files_pattern($1, tmp_t, polaris_fed_debug_sock_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwcfeddebug.if
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#
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#
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#

policy_module(polarispsd, 1.0);

gen_require('    type polaris_psd_t;
')

polaris_btrace_data_manage(polaris_psd_t)
polaris_crft_data_manage(polaris_psd_t)
polaris_chasfs_manage(polaris_psd_t)
polaris_tdlresolve_read(polaris_psd_t)
polaris_tdlldb_list_dirs(polaris_psd_t)
polaris_cpld_read(polaris_psd_t)
polaris_flashlib_read(polaris_psd_t)
polaris_ripc_sman_ui_serv_connect(polaris_psd_t)
polaris_db_tdlldb_dir_use(polaris_psd_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_psd_t)
# allow to read /proc/meminfo
kernel_read_system_state(polaris_psd_t)

# psd wants to run /usr/binos/bin/cfgwr command
corecmd_exec_bin(polaris_psd_t)
corecmd_exec_shell(polaris_psd_t)

# provide objstore access
polaris_disk_objstore_read(polaris_psd_t)

# work with /tmp files (/tmp/sh-thd-*)
type polaris_psd_tmp_t;
files_tmp_file(polaris_psd_tmp_t)
files_tmp_filetrans(polaris_psd_t, polaris_psd_tmp_t, file)
manage_files_pattern(polaris_psd_t, polaris_psd_tmp_t, polaris_psd_tmp_t)
polaris_obfl_data_read(polaris_psd_t)

allow polaris_psd_t self:capability { fsetid };
allow polaris_psd_t self:capability { dac_override chown };
allow polaris_psd_t self:netlink_route_socket rw_netlink_socket_perms;

logging_send_syslog_msg(polaris_psd_t)

# psd need detect which terminal to use as console, need read permission to ttyS*
# psd need read/write grub configure file /boot/grub/menu.*: read /boot/grub/menu.bak
# , generate /boot/grub/menu.list
# read access to bootflash for bin file loading
ifdef(`vxe_family',
term_use_unallocated_ttys(polaris_psd_t)
polaris_legacy_grub_manage(polaris_psd_t)
polaris_bootflash_read(polaris_psd_t)
polaris_disk_varied_read(polaris_psd_t)
')
ifdef(`wlc_family',
term_use_unallocated_ttys(polaris_psd_t)
bootloader_rw_config(polaris_psd_t)
polaris_disk_varied_read(polaris_psd_t)
')
ifdef(`vwlc_platform',
polaris_legacy_grub_manage(polaris_psd_t)
polaris_bootflash_read(polaris_psd_t)
')
polaris_disk_csl_manage(polaris_psd_t)
fs_read_nsfs_files(polaris_psd_t)

polaris_dyncfg_tmp_read(polaris_psd_t)

polaris_read_packages_conf(polaris_psd_t)

# handling /tmp/restconf
type polaris_restconf_t;
files_tmp_file(polaris_restconf_t)

files_tmp_filetrans(polaris_psd_t, polaris_restconf_t, dir, "restconf")
polaris_restconf_manage(polaris_psd_t)

# handling /tmp/.ncsshd_authorized_keys
type polaris_ncsshd_keys_t;
files_tmp_file(polaris_ncsshd_keys_t);

files_tmp_filetrans(polaris_psd_t, polaris_ncsshd_keys_t, dir, ".ncsshd_authorized_keys")
polaris_ncsshd_keys_manage(polaris_psd_t)

polaris_tmp_tdldb_persist_setup(polaris_psd_t)

polaris_tdldbpersist_setup(polaris_psd_t)

# write mem updates the grub config files
optional_policy('polaris_grubcfg_manage(polaris_psd_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispsd.te
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#
# February 2020, Victor Kamensky
#
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#
## <summary>Polaris fpm Policy Rules.</summary>

###############################
## <summary>
## Write fpm /var/run socket file
## </summary>
## <param name="domain">
## <summary>
```c
interface(`polaris_fpm_var_sock_write',
    gen_require(
        type polaris_fpm_t;
        type polaris_fpm_var_run_t;
        type var_run_t;
    )
    write_sock_files_pattern($1, var_run_t, polaris_fpm_var_run_t)
    allow $1 polaris_fpm_t:unix_stream_socket { connectto };
)

interface(`polaris_fpm2fmrp_mqipc_use',
    gen_require(
        type polaris_fpm2fmrp_mqipc_t;
    )
    polaris_mqipc_use($1, polaris_fpm2fmrp_mqipc_t)
)
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfpm.if

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#
# Oct 2020, Xin Xiang
#
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#

```c
## <summary>Polaris Doppler Policy Rules.</summary>
```

```
## Work (read, write, ioctl) with /dev/dmamap
```

## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_dmammap_dev_use',  
   gen_require(
      type device_t;  
      type polaris_dmammap_device_t;  
   )
write_chr_files_pattern($1, device_t, polaris_dmammap_device_t)  
read_chr_files_pattern($1, device_t, polaris_dmammap_device_t)  
allow $1 polaris_dmammap_device_t:chr_file map;
')


# # # Work (read, write, ioctl) with /dev/dmamap  
# # #</summary>
## <param name="domain">
## #      <summary>
## #      Domain allowed access.
## #      </summary>
## # </param>
#
interface('polaris_dplr_dev_use',  
   gen_require(
      type device_t;  
      type polaris_dplr_device_t;  
   )
write_chr_files_pattern($1, device_t, polaris_dplr_device_t)  
read_chr_files_pattern($1, device_t, polaris_dplr_device_t)  
allow $1 polaris_dplr_device_t:chr_file map;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdoppler.if

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#

/usr/binos/conf/pvp.sh -- gen_context(system_u:object_r:polaris_pvp_exec_t:s0)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispvp.fc
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#
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#

policy_module(polariswlc, 1.0);

# hanet driver used by vwlc, is there better place for it?
type polaris_hanet_device_t;
dev_node(polaris_hanet_device_t)

gen_require('
   type polaris_wlc_ap_images_t;
   type mnt_t;
   attribute polaris_extended_domain;
')

# transition when /mnt/images is created
filetrans_pattern(polaris_extended_domain, mnt_t, polaris_wlc_ap_images_t, dir, "images")

# epaN and epactrIN devices
type polaris_epra_device_t;
dev_node(polaris_epra_device_t)
# luna_fpgs device
type polaris_luna_mbfpga_device_t;
dev_node(polaris_luna_mbfpga_device_t)

# astro device
type polaris_astro_device_t;
dev_node(polaris_astro_device_t)

# cpp_il device
type polaris_cpp_il_device_t;
dev_node(polaris_cpp_il_device_t)

# oob_evfc device
type polaris_oob_evfc_device_t;
dev_node(polaris_oob_evfc_device_t)

# on vWLC all processes read grub_cisco_version in polaris_disk_varied_t
gen_require('attribute polaris_domain;
')
polaris_disk_varied_search(polaris_domain)

# /dev/sfp-ktr device
type polaris_sfp_katar_device_t;
dev_node(polaris_sfp_katar_device_t)

# handle /tmp/vxe_disk_XXX_YYY files
ifdef('vwlc_platform',
    gen_require('type unconfined_service_t;
')
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v1")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v2")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v3")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v4")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_gpt_v1")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_gpt_v2")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_gpt_v3")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_gpt_v4")
polaris_boot_tmp_manage(unconfined_service_t)
')
type polaris_grubver_t;
polaris_pfile_type(polaris_grubver_t)

type polaris_grub_bios_t;
polaris_pfile_type(polaris_grub_bios_t)

# on vWLC, all processes read grubenv from EFI disk partition.
gen_require("
    attribute polaris_domain;
")
polaris_vwlc_grub_efi_search(polaris_domain)


type polaris_vwlcinstall_info_t;
polaris_pfile_type(polaris_vwlcinstall_info_t)

gen_require("
    type unconfined_service_t;
    type polaris_disk_varied_t;
    ")

# unconfined service create /boot/.install_info if does not exist yet
filetrans_pattern(unconfined_service_t, polaris_disk_varied_t, polaris_vwlcinstall_info_t, file, ".install_info")

Found in path(s):
 * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswlc.te
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#
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#
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#

/tmp/sw/boot/rmonbifo(/.*)? gen_context(system_u:object_r:polaris_rmonbifo_tmp_t,s0)

Found in path(s):
 * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrmonbifo.fc
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#

# polarisbtlogger file contexts place holder

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 * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbtlogger.fc
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#
# March 2017, Victor Kamensky
policy_module(polarisnifmgr, 1.0);

gen_require(
    type polaris_nif_mgr_t;
    )

polaris ripc_sman_ui_serv_connect(polaris_nif_mgr_t)

polaris_btrace_data_manage(polaris_nif_mgr_t)
polaris_crtf_data_manage(polaris_nif_mgr_t)
polaris_chasfs_manage(polaris_nif_mgr_t)
polaris_tdlresolve_read(polaris_nif_mgr_t)
polaris_tdlldb_list_dirs(polaris_nif_mgr_t)
polaris_cpld_read(polaris_nif_mgr_t)
polaris_lua_read(polaris_nif_mgr_t)
polaris_flashlib_read(polaris_nif_mgr_t)

#If romvar is not set, Set Rommon env varaible needs write permission
polaris_flashlib_write(polaris_nif_mgr_t)

logging_send_syslog_msg(polaris_nif_mgr_t)

# set out of band interface mac set_oobndif_mac
allow polaris_nif_mgr_t self:tcp_socket ioctl;

# communication between the nif manager and fed use directories under /tmp/sv
polaris sv_tmp_use(polaris_nif_mgr_t)

# /dev/shm/sdm access
optional_policy(
    polaris_sdm_shm_manage(polaris_nif_mgr_t)
    )

# open /dev/ttyS0 console in sco_sys_init_sw_params
term_use_unallocated_ttys(polaris_nif_mgr_t)

# allow create and write access to the /proc/*_sesa file

gen_require(
    type polaris_proc_sesa_t;
    )
polaris_proc_sesa_create_write(polaris_nif_mgr_t)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnifmgr.te

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#
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#

policy_module(polarisdmioptdatamgrd, 1.0);

gen_require('  
    type polaris_dmi_opdatamgrd_t;
  ')

# allow to getgetattr of /proc file system
domain_read_all_domains_state(polaris_dmi_opdatamgrd_t)

# work with /var/log/dmi/ files
type polaris_dmi_var_log_t;
logging_log_file(polaris_dmi_var_log_t)
manage_files_pattern(polaris_dmi_opdatamgrd_t, polaris_dmi_var_log_t, polaris_dmi_var_log_t)
manage_dirs_pattern(polaris_dmi_opdatamgrd_t, polaris_dmi_var_log_t, polaris_dmi_var_log_t)
logging_log_filetrans(polaris_dmi_opdatamgrd_t, polaris_dmi_var_log_t, dir, "dmi")
polaris_chasfs_manage(polaris_dmi_opdatamgrd_t)
polaris_btrace_data_manage(polaris_dmi_opdatamgrd_t)
polaris_cpld_read(polaris_dmi_opdatamgrd_t)
polaris_boot_tmp_read(polaris_dmi_opdatamgrd_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_dmi_opdatamgrd_t)

# this (opdatamgrd.sh) process is shell script need permission to execute shell
# and variety of small util commands under bin_t
corecmd_exec_shell(polaris_dmi_opdatamgrd_t)
corecmd_exec_bin(polaris_dmi_opdatamgrd_t)

# allow read of /etc/passwd
# passwd_file_t:file { getattr open read }
auth_use_nsswitch(polaris_dmi_opdatamgrd_t)

# opdatamgrd.sh calls ps command
# ps needs access to /sys/devices/system/cpu/online
dev_read_sysfs(0,polaris_dmi_opdatamgrd_t)
# ps needs access to proc_t
kernel_read_system_state(polaris_dmi_opdatamgrd_t)

allow polaris_dmi_opdatamgrd_t self:capability { sys_resource dac_override };

# handling of /tmp/stream-parsers

type polaris_dmi_parser_t;
files_tmp_file(polaris_dmi_parser_t)
files_tmp_filetrans(polaris_dmi_opdatamgrd_t, polaris_dmi_parser_t, dir, "stream-parsers")
manage_dirs_pattern(polaris_dmi_opdatamgrd_t, tmp_t, polaris_dmi_parser_t)
manage_files_pattern(polaris_dmi_opdatamgrd_t, polaris_dmi_parser_t, polaris_dmi_parser_t)

mount_domtrans(polaris_dmi_opdatamgrd_t)

# confd_cli runs under our label
allow polaris_dmi_opdatamgrd_t self:tcp_socket create_socket_perms;

# runs ps that wants to have access to containers files
optional_policy(''
polaris_disk_vman_dir_list(polaris_dmi_opdatamgrd_t)
'')
polaris_sandbox_file_dir_list(polaris_dmi_opdatamgrd_t)
polaris_sandbox_file_getattr(polaris_dmi_opdatamgrd_t)

# runs find to search all 'parse.*' files
# find . -perm /111 -name parse.* -exec basename {} ;
# LOOK AT ME it seems that it does search on customer visible
# directories, can and whether customer supposed to be
# able give parse.* files to dmi opdatamgrd, could it
# be exploited?
files_getattr_all_files(polaris_dmi_opdatamgrd_t)
files_getattr_all_dirs(polaris_dmi_opdatamgrd_t)

# access to /dev/pts/0
ssh_use_ptys(polaris_dmi_opdatamgrd_t)

# directly work with to /dev/ttyS1
term_use_unallocated_ttys(polaris_dmi_opdatamgrd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmiopdatamgrd.te
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#
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#
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## <summary>Polaris ngwc_fed Policy Rules.</summary>

### Polaris Fed Socket Access Policy

```
interface(`polaris_fed_sock_write',`
    gen_require(`
        type polaris_fed_sock_t;
        type polaris_ngwc_fed_t;
        type tmp_t;
    )

    allow $1 self:unix_stream_socket {create_socket_perms};
    allow $1 polaris_ngwc_fed_t:unix_stream_socket {connectto};
    write_sock_files_pattern($1, tmp_t, polaris_fed_sock_t)
')
```

### Polaris Fed Temporary File Access Policy

```
interface(`polaris_fed_tmp_files_read',`
    gen_require(`
        type polaris_fed_tmp_t;
    )

    allow $1 self:unix_stream_socket {create_socket_perms};
    allow $1 polaris_ngwc_fed_t:unix_stream_socket {connectto};
    write_sock_files_pattern($1, tmp_t, polaris_fed_sock_t)
')
```
read_files_pattern($1, polaris_fed_tmp_t, polaris_fed_tmp_t)
')

#########################################################################
## <summary>
##   Allow to read and write /tmp/epc_ws/fed_to_wif_pipe file.
## </summary>
## <param name="domain">
##   <summary>
##     epc_ws_liaison and ngwc-fed pipe interaction.
##   </summary>
## </param>
#
interface('polaris_fed_shm_file_read',
    gen_require('    
      type polaris_ngwc_fed_t;
     '))

allow $1 polaris_ngwc_fed_t:shm { associate read unix_read unix_write write };')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwcfed.if
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#
#
# polarismobilityd file contexts place holder

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#
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#
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#
#
policy_module(polarisdmivtyserverutild, 1.0);

gen_require('
type polaris_dmi_vtyserverutild_t;
'

polaris_btrace_data_manage(polaris_dmi_vtyserverutild_t)
polaris_chasfs_manage(polaris_dmi_vtyserverutild_t)
polaris_tlsresolve_read(polaris_dmi_vtyserverutild_t)
polaris_tdlldb_list_dirs(polaris_dmi_vtyserverutild_t)
polaris_cpld_read(polaris_dmi_vtyserverutild_t)
polaris_flashlib_read(polaris_dmi_vtyserverutild_t)

allow polaris_dmi_vtyserverutild_t self:socket { connect create read write }; type polaris_dmi_vtyserverutild_tmp_t;
files_tmp_file(polaris_dmi_vtyserverutild_tmp_t)
files_tmp_filetrans(polaris_dmi_vtyserverutild_t, polaris_dmi_vtyserverutild_tmp_t, fifo_file, ",.DMI_FIFO")
manage_fifo_files_pattern(polaris_dmi_vtyserverutild_t,
polaris_dmi_vtyserverutild_tmp_t,polaris_dmi_vtyserverutild_tmp_t)
logging_send_syslog_msg(polaris_dmi_vtyserverutild_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmivtyserverutild.te
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dnl
define(`mqipc_stem', `translit(patsubst($1, `-mqipc$', `'), `-', `_')')
define(`mqipc_label', `format(`polaris_%s_mqipc_t', mqipc_stem($1)))

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_mqipc.m4
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#
# November 2020, Christine Hwang
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#

## <summary>Polaris Cabo GNSS Policy Rules.</summary>
## Work (read, write, ioctl) with /dev/ttyS1

### <summary>
### <param name="domain">
### Domain allowed access.
### </summary>
### </param>

```c
interface('polaris_cabo_gnss_dev_use',
    gen_require(''
        type device_t;
        type polaris_cabo_gnss_device_t;
    ''
    write_chr_files_pattern($1, device_t, polaris_cabo_gnss_device_t)
    read_chr_files_pattern($1, device_t, polaris_cabo_gnss_device_t)
    allow $1 polaris_cabo_gnss_device_t:chr_file map;
)
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.10/selinux-tar/selinux/polariscabognss.if

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```
policy_module(polaristservice, 1.0);

polaris_process_domain_template(tservice_telnet)

polaris_process_domain_template(tservice_ssh)

gen_require(''
    type inetd_exec_t, inetd_t;
'
) domtrans_pattern(polaris_tservice_telnet_t, inetd_exec_t, inetd_t)

polaris_chasfs_manage(polaris_tservice_telnet_t)

polaris_btrace_data_manage(polaris_tservice_telnet_t)

polaris_cpld_read(polaris_tservice_telnet_t)

polaris_boot_tmp_read(polaris_tservice_telnet_t)

polaris_rmonbifo_tmp_read(polaris_tservice_telnet_t)

corecmd_exec_shell(polaris_tservice_telnet_t)
corecmd_exec_bin(polaris_tservice_telnet_t)
```
# allow read of /etc/passwd
auth_use_nsswitch(polaris_tservice_telnet_t)

dmidecode_domtrans(polaris_tservice_telnet_t)

allow polaris_tservice_telnet_t self:capability sys_resource;
kernel_read_system_state(polaris_tservice_telnet_t)

gen_require(
    type initrc_exec_t, initrc_t;
')
domtrans_pattern(polaris_tservice_telnet_t, initrc_exec_t, initrc_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_tservice_telnet_t)

# /bin/sh /usr/binos/conf/mcp_chvrf.sh eobc /usr/shin/xinetd -f
# /tmp/chassis/local/rp/chafts/rp/0/0/etc/telnet/xinetd_telnetd.conf
polaris_chvrf_domtrans(polaris_tservice_telnet_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristservice.te
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#

## <summary>Polaris WLC Platform Policy Rules.</summary>


### <summary>Work (read, write, ioctl) with /dev/hanet</summary>

### <param name="domain">

### Domain allowed access.

### </param>

#

interface(`polaris_hanet_dev_use',`
gen_require(`
    type device_t;
type polaris_hanet_device_t;
write_chr_files_pattern($1, device_t, polaris_hanet_device_t)
read_chr_files_pattern($1, device_t, polaris_hanet_device_t)

######################################
## <summary>
##      Work (read, write, ioctl) with /dev/epa[0-9]* and
## /dev/epactrl[0-9]*
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_epa_dev_use',
  gen_require(''
    type device_t;
    type polaris_epa_device_t;
  ')
  write_chr_files_pattern($1, device_t, polaris_epa_device_t)
  read_chr_files_pattern($1, device_t, polaris_epa_device_t)
  allow $1 polaris_epa_device_t:chr_file map;
')

######################################
## <summary>
##      Work (read, write, ioctl) with /dev/luna_mbfpga device
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_luna_mbfpga_dev_use',
  gen_require(''
    type device_t;
    type polaris_luna_mbfpga_device_t;
  ')
  write_chr_files_pattern($1, device_t, polaris_luna_mbfpga_device_t)
  read_chr_files_pattern($1, device_t, polaris_luna_mbfpga_device_t)
')

######################################
## <summary>
##      Work (read, write, ioctl) with /dev/astro device
## <summary>
## Domain allowed access.
## </summary>

```
interface('polaris_astro_dev_use',
    gen_require(' type device_t;
type polaris_astro_device_t;
')
    write_chr_files_pattern($1, device_t, polaris_astro_device_t)
    read_chr_files_pattern($1, device_t, polaris_astro_device_t)
)
```

```
interface('polaris_cpp_il_dev_use',
    gen_require(' type device_t;
type polaris_cpp_il_device_t;
')
    write_chr_files_pattern($1, device_t, polaris_cpp_il_device_t)
    read_chr_files_pattern($1, device_t, polaris_cpp_il_device_t)
)
```

```
interface('polaris_oob_evfc_dev_use',
    gen_require(' type device_t;
```

```
type polaris_oob_evfc_device_t;

write_chr_files_pattern($1, device_t, polaris_oob_evfc_device_t)
read_chr_files_pattern($1, device_t, polaris_oob_evfc_device_t)

######################################
## <summary>
##      Work (read, write, ioctl) with /dev/sfp-ktr device
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_sfp_katar_dev_use',`
gen_require(`
    type device_t;
    type polaris_sfp_katar_device_t;
``)
write_chr_files_pattern($1, device_t, polaris_sfp_katar_device_t)
read_chr_files_pattern($1, device_t, polaris_sfp_katar_device_t)
``

######################################
## <summary>
## Read vWLC install info files
## </summary>
## <param name="domain">
##      <summary>
##          Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_vwlclinstall_info_read',`
gen_require(`
    type polaris_vwlclinstall_info_t;
``)
read_files_pattern($1, polaris_vwlclinstall_info_t, polaris_vwlclinstall_info_t)
list_dirs_pattern($1, polaris_vwlclinstall_info_t, polaris_vwlclinstall_info_t)
``

######################################
## <summary>
## Read /dev/vda1 device the efi partition
## </summary>
## <param name="domain">

---

Open Source Used In Crosswork Platform Infrastructure cw-infra-opensource-4.3.0 16250
interface('polaris_vwlc_grub_info_read',
    gen_require(`
    type polaris_grubver_t;
    type polaris_grub_bios_t;
    type polaris_grub_efi_t;
    `)
    read_files_pattern($1, polaris_grubver_t, polaris_grubver_t)
    read_files_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
    read_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
    list_dirs_pattern($1, polaris_grubver_t, polaris_grubver_t)
    list_dirs_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
    list_dirs_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
    `)

interface('polaris_vwlc_grub_efi_search',
    gen_require(`
    type polaris_grub_efi_t;
    `)
    search_dirs_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
    `)

interface('polaris_vwlc_grub_efi_use',
    gen_require(`
type polaris_grub_efi_t;

write_chr_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
read_chr_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswlc.if
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dnl
define(`database_stem', `translit(patsubst($1, `_DB$', `'), `A-Z', `a-z'))
define(`database_label', `format(`polaris_%s_db_tddlb_t', database_stem($1)))

define(`database_use_map', `defn(format(``database_use_map[%s-%s]'', `$1', `$2'))')
define(`database_use_map_set', `define(format(``database_use_map[%s-%s]'', `$1', `$2'), `$3')')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_database_db.m4
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#

policy_module(polarisdmidmiauthd, 1.0);

gen_require(
    type polaris_dmi_dmiauthd_t;
)

polaris_btrace_data_manage(polaris_dmi_dmiauthd_t)
polaris_crft_data_manage(polaris_dmi_dmiauthd_t)
polaris_chasfs_manage(polaris_dmi_dmiauthd_t)
polaris_tdlresolve_read(polaris_dmi_dmiauthd_t)
polaris_tddlb_list_dirs(polaris_dmi_dmiauthd_t)
polaris_cpld_read(polaris_dmi_dmiauthd_t)
polaris_flashlib_read(polaris_dmi_dmiauthd_t)
polaris_ripc_sman_ui_serv_connect(polaris_dmi_dmiauthd_t)
polaris_db_tdlkb_dir_use(polaris_dmi_dmiauthd_t)

# dmiauthd creates and binds to /tmp/.DmiAuth.socket unix socket
type polaris_dmi_dmiauthd_tmp_t;
files_tmp_file(polaris_dmi_dmiauthd_tmp_t)
files_tmp_filetrans(polaris_dmi_dmiauthd_t, polaris_dmi_dmiauthd_tmp_t, { sock_file fifo_file })
manage_sock_files_pattern(polaris_dmi_dmiauthd_t, polaris_dmi_dmiauthd_tmp_t, polaris_dmi_dmiauthd_tmp_t)
manage_fifo_files_pattern(polaris_dmi_dmiauthd_t, polaris_dmi_dmiauthd_tmp_t, polaris_dmi_dmiauthd_tmp_t)

# dmiauthd creates diagnostic files in /tmp/netconf-yang-diag
type polaris_dmi_dmiauthd_tmp_diags_t;
files_tmp_file(polaris_dmi_dmiauthd_tmp_diags_t)
files_tmp_filetrans(polaris_dmi_dmiauthd_t, polaris_dmi_dmiauthd_tmp_diags_t, dir, "netconf-yang-diag")
polaris_dmiauthd_tmp_diags_manage(polaris_dmi_dmiauthd_t)
logging_send_syslog_msg(polaris_dmi_dmiauthd_t)

# read confd log file and push into btrace
polaris_confd_log_read(polaris_dmi_dmiauthd_t)

# from dmilib iosp_connect through libiosp iosp_token_read_from_file
# iosp_token_read_from_file reads /tmp/rp/.iosp_dmiauthd
polaris_dmiauthd_token_read(polaris_dmi_dmiauthd_t)

gener_requere("
    type polaris_confd_tmp_t;
"
)
# This is applicable to wireless platforms running in standby monitoring mode
# wherein dmiauthd create temporary files in /tmp/confd upon switchover and
# trigger ConfD restart.
manage_files_pattern(polaris_dmi_dmiauthd_t, polaris_confd_tmp_t, polaris_confd_tmp_t)
manage_dirs_pattern(polaris_dmi_dmiauthd_t, polaris_confd_tmp_t, polaris_confd_tmp_t)

##################################################################
# "show netconf-yang diagnostics [all | last | message]" invokes
# /usr/binos/conf/dmid_diag_logs.sh
##################################################################
polaris_utility_domain_template(dmid_diag_logs)
polaris_bexecute_domtrans(polaris_dmi_dmiauthd_t)
polaris_bexecute_domain(polaris_dmid_diag_logs_t, polaris_dmid_diag_logs_exec_t)

# signal sent during the show cmd
polaris_send_signal_to_bexecute(polaris_dmi_dmiauthd_t)

# read files in /tmp/netconf-yang-diag
polaris_dmiauthd_tmp_diags_read(polaris_dmid_diag_logs_t)

# need write/ioctl/getattr access for pipes
polaris_dmiauthd_use_fifo(polaris_dmid_diag_logs_t)

polaris_use_btrace_fifo(polaris_dmid_diag_logs_t)
polaris_btrace_data_manage(polaris_dmid_diag_logs_t)
polaris_chasfs_read(polaris_dmid_diag_logs_t)
polaris_cpld_read(polaris_dmid_diag_logs_t)
dev_read_sysfs(polaris_dmid_diag_logs_t)
auth_use_nsswitch(polaris_dmid_diag_logs_t)
polaris_boot_tmp_read(polaris_dmid_diag_logs_t)
fs_getattr_tmpfs(polaris_dmid_diag_logs_t)

# bash tmp files, such as /tmp/sh-thd-1599654988

# bash tmp files, such as /tmp/sh-thd-1599654988

# Bash tmp files, such as /tmp/sh-thd-1599654988

type polaris_dmid_diag_logs_tmp_t;
files_tmp_file(polaris_dmid_diag_logs_tmp_t)
files_tmp_filetrans(polaris_dmid_diag_logs_t, polaris_dmid_diag_logs_tmp_t, file)
manage_files_pattern(polaris_dmid_diag_logs_t, polaris_dmid_diag_logs_tmp_t, polaris_dmid_diag_logs_tmp_t)

# execute /bin/sed
corecmd_exec_bin(polaris_dmid_diag_logs_t)

# Allow diagnostics feature to create log file in bootflash

# Allow diagnostics feature to create log file in bootflash

# execute /bin/tar
corecmd_exec_bin(polaris_dmi_dmiauthd_t)

# tar reads /etc/passwd
auth_use_nsswitch(polaris_dmi_dmiauthd_t)

# create log file in bootflash
polaris_bootflash_manage(polaris_dmi_dmiauthd_t)

# Allow diagnostics feature to create log file in bootflash

allow polaris_dmi_dmiauthd_t self:capability sys_resource;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmidmiauthd.te
No license file was found, but licenses were detected in source scan.

#
# May 2017, Victor Kamensky
#
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#
policy_module(polarisunconfined, 1.0);

## <desc>
## <p>
## IOSd runs in unconfined mode
## </p>
## </desc>

gen_tunable(polaris_unconfined_iosd, true)

## <desc>
## <p>
## All polaris processes except IOSd runs in unconfined mode
## </p>
## </desc>
gen_tunable(polaris_unconfined_all, true)

gen_require(
    type apmd_t;
    type auditd_t;
    type inetd_t;
    type init_t;
    type initrc_t;
    type journalctl_t;
    type rpcbind_t;
    type rccd_t;
    type sshd_t;
    type syslogd_t;
    type telnetd_t;
    type udev_t;
    type virt_t;
    type virtlogd_t;
    type vmtools_t;
    type ifconfig_t;
    type setfiles_t;
    type iptables_t;
    type virsh_t;
    type svirt_t;
    type svirt_lxc_net_t;
    type virtd_lxc_t;
)

  polaris_domain_maybe_unconfined(apmd_t)
  polaris_domain_maybe_unconfined(auditd_t)
  polaris_domain_maybe_unconfined(inetd_t)
  polaris_domain_maybe_unconfined(init_t)
  polaris_domain_maybe_unconfined(initrc_t)
  polaris_domain_maybe_unconfined(journalctl_t)
  polaris_domain_maybe_unconfined(rpcbind_t)
  polaris_domain_maybe_unconfined(rccd_t)
  polaris_domain_maybe_unconfined(sshd_t)
  polaris_domain_maybe_unconfined(syslogd_t)
  polaris_domain_maybe_unconfined(telnetd_t)
  polaris_domain_maybe_unconfined(udev_t)
  polaris_domain_maybe_unconfined(virt_t)
  polaris_domain_maybe_unconfined(virtlogd_t)
  polaris_domain_maybe_unconfined(vmtools_t)
  polaris_domain_maybe_unconfined(ifconfig_t)
  polaris_domain_maybe_unconfined(setfiles_t)
  polaris_domain_maybe_unconfined(iptables_t)
  polaris_domain_maybe_unconfined(virsh_t)
  polaris_domain_maybe_unconfined(svirt_t)
polaris_domain_maybe_unconfined(svirt_lxc_net_t)
polaris_domain_maybe_unconfined(virtd_lxc_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisunconfined.te
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#
# July 2020, Victor Kamensky
#
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#
/tmp/HTX-IOX(/.*)?          gen_context(system_u:object_r:polaris_htx_iox_tmp_t,s0)

# /dev/sppi_memif htx works with
/dev/sppi_memif                          -c gen_context(system_u:object_r:polaris_sppi_memif_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarishtx.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
/usr/bin/os/conf/periodic.sh -- gen_context(system_u:object_r:polaris_periodic_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisperiodic.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

policy_module(polarislua, 1.0);

###########################################################################################################
# Lua policy
###########################################################################################################
type polaris_lua_file_t;
files_type(polaris_lua_file_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislua.te
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#
# November 2020, Christine Hwang
#
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#

policy_module(polariscabognss, 1.0);

gen_require(
  
  type polaris_cabo_gnss_t;

')
polaris_btrace_data_manage(polaris_cabo_gnss_t)
polaris_chasfs_manage(polaris_cabo_gnss_t)
polaris_tdlresolve_read(polaris_cabo_gnss_t)
polaris_cpld_read(polaris_cabo_gnss_t)
polaris_ripc_sman_ui_serv_connect(polaris_cabo_gnss_t)

# Allow sysfs read for platform ID and
# r/w on /sys/class/gpio/export
polaris_sysfs_manage(polaris_cabo_gnss_t)
dev_manage_sysfs_dirs(polaris_cabo_gnss_t)

# Allow Cabo GNSS to access/modify to GPS GPIO
polaris_ggpio_dev_read_write(polaris_cabo_gnss_t)

# Allow Cabo GNSS access to /dev/pps0
dev_rw_realtime_clock(polaris_cabo_gnss_t)

# allow system time capability to check for system timeout
allow polaris_cabo_gnss_t self:capability sys_time;

# Label Cabo GNSS TTY device
type polaris_cabo_gnss_device_t;
dev_node(polaris_cabo_gnss_device_t)

polaris_cabo_gnss_dev_use(polaris_cabo_gnss_t)

Found in path(s):
dnl
April 2018, Victor Kamensky
dnl
Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl
WLC Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 1)
max_bay_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `per_bay', 0)
max_bay_ripc_map_set(`cc', `per_bay', 1)
max_bay_ripc_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `global', 0)
max_bay_ripc_map_set(`cc', `global', 1)
max_bay_ripc_map_set(`fp', `global', 0)

in elastic scope each process has its own value
max_elastic_map_set(`rp', `elastic', BPROC_ODM, 1)
max_elastic_map_set(`cc', `elastic', BPROC_ODM, 1)
max_elastic_map_set(`fp', `elastic', BPROC_ODM, 1)

max_elastic_map_set(`rp', `elastic', BPROC_WNCD, 7)
max_elastic_map_set(`cc', `elastic', BPROC_WNCD, 7)
max_elastic_map_set(`fp', `elastic', BPROC_WNCD, 7)

max_elastic_ripc_map_set(`rp', `elastic', BPROC_ODM, 1)
max_elastic_ripc_map_set(`cc', `elastic', BPROC_ODM, 1)
max_elastic_ripc_map_set(`fp', `elastic', BPROC_ODM, 1)

max_elastic_ripc_map_set(`rp', `elastic', BPROC_WNCD, 7)
max_elastic_ripc_map_set(`cc', `elastic', BPROC_WNCD, 7)
max_elastic_ripc_map_set(`fp', `elastic', BPROC_WNCD, 7)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscabognss.te
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
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## <summary>Polaris rogued Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrogued.if
No license file was found, but licenses were detected in source scan.

# August 2017, Victor Kamensky
#
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#

## <summary>Polaris flashcheck Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisflashcheck.if
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# March 2017, Victor Kamensky
#
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#

policy_module(polarissmd, 1.0);

gen_require(
    type polaris_smd_t;
')

## mqipc manual, one that missing in platform tdl file

polaris_btrace_data_manage(polaris_smd_t)
polaris_crf_data_manage(polaris_smd_t)
polaris_chasfs_manage(polaris_smd_t)
polaris_tdlresolve_read(polaris_smd_t)
polaris_tdlldb_list_dirs(polaris_smd_t)
polaris_cpld_read(polaris_smd_t)
polaris_lua_read(polaris_smd_t)
polaris_flashlib_read(polaris_smd_t)
polaris_ripc_sman_ui_serv_connect(polaris_smd_t)
# working with smd persistent/ disk files
type polaris_smd_disk_t;
polaris_disk_type(polaris_smd_disk_t)

manage_files_pattern(polaris_smd_t, polaris_smd_disk_t, polaris_smd_disk_t)

polaris_db_tdldb_dir_use(polaris_smd_t)

# access to persist tdldb (e.g. .dbpersist)
polaris_tdldbpersist_setup(polaris_smd_t)

# for /dev/shm/cerrno_dell
polaris_cerr_shm_manage(polaris_smd_t)

ifdef(`nyquist_platform',`
gen_require(`
    type polaris_bt_logger_smd_mqipc_t;
')
# smd may start first and create this mqipc channel
polaris_mqipc_create_name(polaris_smd_t, polaris_bt_logger_smd_mqipc_t, bt_logger_smd)
')

polaris_lfts_dev_use(polaris_smd_t)

allow polaris_smd_t self:capability { sys_resource net_bind_service };
polaris_socketat_nsfs_read(polaris_smd_t)

allow polaris_smd_t self:process setrlimit;

corenet_tcp_bind_polaris_smd_devshell_port(polaris_smd_t)
corenet_tcp_bind_generic_node(polaris_smd_t)
allow polaris_smd_t self:tcp_socket {getattr setopt getopt bind create listen accept connect read write name_connect };
allow polaris_smd_t self:capability { net_admin sys_admin };

allow polaris_smd_t self:udp_socket { create_socket_perms recv_msg send_msg };
# smutil_msg_event_cb_handler() uses netlink
allow polaris_smd_t self:netlink_socket { bind create };

# LOOK AT ME: now smd may open arbitrary port on forwarding VRF (16)
# but in SELinux there is no way to differentiate between port spaces
# accross VRFs or namespaces. For now let's grant smd_t access to all ports
# regardless of VRF. In future investigate ways to be more restrictive
corenet_udp_bind_generic_port(polaris_smd_t)
corenet_udp_sendrecv_generic_port(polaris_smd_t)
# LOOK AT ME: grants access to udp_bind on any node, but if we can
# be more specific and bind only to forwarding VRF related interfaces
coreneth_chim_bind_generic_node(polaris_smd_t)

# smd want to listen on http port 80 on VRF_FWD, for webauth code please see
# smd/webauth/src/webauth_io.c
coreneth_tcp_bind_http_port(polaris_smd_t)

allow polaris_smd_t self:capability dac_override;

logging_send_syslog_msg(polaris_smd_t)

allow polaris_smd_t self:capability net_raw;
allow polaris_smd_t self:packet_socket { create_socket_perms recv_msg send_msg };

# for access to disk html files (for webauth)
polaris_persistent_read(polaris_smd_t)

# transition for dc_profile_dir to polaris_smd_disk_t
gen_require(
   type initrc_t;
)
polaris_bootflash_filetrans(initrc_t, polaris_smd_disk_t, dir, "dc_profile_dir")

# SANET is listening on http port(CSCvb41802)
# Hence, it needs to follow the same rule as nginx is using in polarisnginx.te
# FIXME: add interface to allow bind to port 1025-65535
coreneth_tcp_bind_all_ports(polaris_smd_t)

polaris_issu_tmp_files_read(polaris_smd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissmd.te
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
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#

/usr/binos/conf/cedge-tanman.sh -- gen_context(system_u:object_r:polaris_cedge_tanman_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscedgetanman.fc
No license file was found, but licenses were detected in source scan.
# March 2017, Victor Kamensky
#
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#

/usr/bin/os/conf/droputil.sh -- gen_context(system_u:object_r:polaris_droputil_exec_t,s0)
/tmp/rp/dropbox(/.*)? gen_context(system_u:object_r:polaris_droputil_tmp_t,s0)
/tmp/rp/droputil(/.*)? gen_context(system_u:object_r:polaris_droputil_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdroputil.fc
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
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#

policy_module(polarisvman, 1.0);

gen_require(
    type polaris_vman_t;
')
polaris_btrace_data_manage(polaris_vman_t)
polaris_crft_data_manage(polaris_vman_t)
polaris_chasfs_manage(polaris_vman_t)
polaris_tdlresolve_read(polaris_vman_t)
polaris_tdlldb_list_dirs(polaris_vman_t)
polaris_cpld_read(polaris_vman_t)
polaris_flashlib_read(polaris_vman_t)
polaris_ripc_sman_ui_serv_connect(polaris_vman_t)
polaris_db_tdlldb_dir_use(polaris_vman_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_vman_t)
polaris_rmonbifo_tmp_read(polaris_vman_t)
polaris_boot_tmp_read(polaris_vman_t)

logging_send_syslog_msg(polaris_vman_t)
modutils_read_module_deps(polaris_vman_t)
modutils_read_module_config(polaris_vman_t)
modutils_manage_module_config(polaris_vman_t)
modutils_domtrans_insmod(polaris_vman_t)
files_read_kernel_modules(polaris_vman_t)

corecmd_exec_bin(polaris_vman_t)
corecmd_exec_shell(polaris_vman_t)

# ifconfig related, ifconfig is executed in its own context
sysnet_domtrans_ifconfig(polaris_vman_t)

# VMAN calls vman_set_congestion_control_multiplex when the count
# of the bridge users reaches 2 and needs write permissions on
# contdev_multiplex
dev_rw_sysfs(polaris_vman_t)
fs_getattr_xattr_fs(polaris_vman_t)

virt_stream_connect(polaris_vman_t)
virt_read_pid_files(polaris_vman_t)

fs_rw_cgroup_files(polaris_vman_t)
kernl_read_system_state(polaris_vman_t)
# allow vman to read /dev/pts/*
term_use_generic_ptys(polaris_vman_t)
#allow polaris_vman_t polaris_udev_tmp_files_t:file open;
polaris_udev_tmp_read(polaris_vman_t)
#allow vman to run brctl in it's own domain
brctl_domtrans(polaris_vman_t)
#allow vman to run /sbin/fsck in script
fstools_domtrans(polaris_vman_t)
#allow vman to mount rootfs on polaris_disk_vman_t
allow polaris_vman_t polaris_disk_vman_t:dir mounton;
fs_mount_xattr_fs(polaris_vman_t)
#allow vman have capability for modify owner of the file
allow polaris_vman_t self:capability { chown fowner fsetid };
#allow vman to bind to unreserved tcp ports while it searches for
#port available to guest console to listen on
corenet_tcp_bind_unreserved_ports(polaris_vman_t)

# working with vman /var/ files
type polaris_var_vman_t;
files_tmp_file(polaris_var_vman_t)
files_var_filetrans(polaris_vman_t, polaris_var_vman_t, dir, "virtual-instance")
manage_files_pattern(polaris_vman_t, polaris_var_vman_t, polaris_var_vman_t, polaris_var_vman_t)
manage_dirs_pattern(polaris_vman_t, polaris_var_vman_t, polaris_var_vman_t, polaris_var_vman_t)
manage_sock_files_pattern(polaris_vman_t, polaris_var_vman_t, polaris_var_vman_t, polaris_var_vman_t)
# working with vman persisted files
type polaris_disk_vman_t;
polaris_disk_type(polaris_disk_vman_t)

gen_require('  
    type polaris_disk_bootflash_t;
    type polaris_disk_harddisk_t;
')
filetrans_pattern(polaris_vman_t, [ polaris_disk_bootflash_t polaris_disk_harddisk_t ], polaris_disk_vman_t, dir, "virtual-instance")
filetrans_pattern(polaris_vman_t, [ polaris_disk_bootflash_t polaris_disk_harddisk_t ], polaris_disk_vman_t, file, "virtual-instance.conf")
filetrans_pattern(polaris_vman_t, [ polaris_disk_bootflash_t polaris_disk_harddisk_t ], polaris_disk_vman_t, dir, "vman_fdb")

# allow creation of /bootflash/virtual-instance.conf file
manage_files_pattern(polaris_vman_t, [ polaris_disk_bootflash_t polaris_disk_harddisk_t ], polaris_disk_vman_t)

# allow creation of /bootflash/virtual-instance and /bootflash/vman_fdb directories
manage_dirs_pattern(polaris_vman_t, [ polaris_disk_bootflash_t polaris_disk_harddisk_t ], polaris_disk_vman_t)

# vman can manage files inside of its own polaris_disk_vman_t directories
manage_files_pattern(polaris_vman_t, polaris_disk_vman_t, polaris_disk_vman_t)

# after all above transition we need to grant vman right to work with any persistent storage file since it needs to access and write .ova files
polaris_persistent_manage(polaris_vman_t)

# vman uses netlink socket to talk to lxc watchdog driver
# please see binos/vman/src/vman_lxc_wd.c
allow polaris_vman_t self:netlink_generic_socket { create_socket_perms sendto recvfrom};

# vman calls tipc-config which in turns wants to create AF_TIPC socket
allow polaris_vman_t self:socket create_socket_perms;

# vman uses 'ip netns exec 0 ifconfig -a' command which in turns switches
# network namespace and need access to /proc/pid/ns/net file
fs_read_nsfs_files(polaris_vman_t)

# this label is created to exchange log related information between container and host.
type polaris_vman_log_t;
# By making this label belong to polaris persistent storage combined with vman inheriting rights
# to manage polaris_disk via polaris_persistent_manage(), vman gains rights to manage below dirs.
polaris_disk_type(polaris_vman_log_t)
filetrans_pattern(polaris_vman_t, polaris_vman_tmp_t, polaris_vman_log_t, dir, "UtdIpsAlert-IOX")
filetrans_pattern(polaris_vman_t, polaris_vman_tmp_t, polaris_vman_log_t, dir, "UtdUrlf-IOX")
filetrans_pattern(polaris_vman_t, polaris_vman_tmp_t, polaris_vman_log_t, dir, "UtdAmp-IOX")
filetrans_pattern(polaris_vman_t, polaris_vman_tmp_t, polaris_vman_log_t, dir, "UtdTls-IOX")
filetrans_pattern(polaris_vman_t, polaris_vman_tmp_t, polaris_vman_log_t, dir, "UtdLogMappings-IOX")
allow polaris_vman_t polaris_vman_log_t:dir mounton;
# Allow vman to work with /bootflash/virtual-instance/UTD/rootfs
optional_policy(
    gen_require(
        type container_file_t;
    )
    allow polaris_vman_t container_file_t:filesystem { getattr unmount };
)

# Allow vman/ioxman to work with /tmp/HTX-IOX
optional_policy(
    gen_require(
        type polaris_htx_iox_tmp_t;
    )
    allow polaris_vman_t polaris_htx_iox_tmp_t:dir { getattr mounton open read };
)

# Allow vman to mount /tmp/binos-IOX
optional_policy(
    gen_require(
        type polaris_qfp_memif_t;
    )
    allow polaris_vman_t polaris_qfp_memif_t:dir mounton;
)

# vman_init.sh operates on /tmp/vman files
    type polaris_vman_tmp_t;
    files_tmp_file(polaris_vman_tmp_t)
    files_tmp_filetrans(polaris_vman_t, polaris_vman_tmp_t, [ file dir ])
    polaris_systemd_tmpfiles_tmp_filetrans(polaris_vman_tmp_t, dir, "vman")
    manage_files_pattern(polaris_vman_t, polaris_vman_tmp_t,polaris_vman_tmp_t)
    manage_dirs_pattern(polaris_vman_t, polaris_vman_tmp_t, polaris_vman_tmp_t)

# allow vman to work with /tmp/xml
    fs_remount_tmpfs(polaris_vman_t)
    fs_unmount_tmpfs(polaris_vman_t)
    fs_unmount_xattr_fs(polaris_vman_t)
    allow polaris_vman_t polaris_vman_tmp_t:dir mounton;
    optional_policy(
        polaris_cedge_xml_tmp_manage(polaris_vman_t)
    )

# relabel /bootflash/virtual-instance/UTD/tmpstaging to /dev/loopX
    gen_require(
        type iso9660_t;
    )
    allow polaris_vman_t iso9660_t:filesystem { relabelfrom };

# configure /proc/sys/net/ipv4/conf/dpbr_0/arp_announce
kernel_search_network_sysctl(polaris_vman_t)
kernel_rw_net_sysctls(polaris_vman_t)
# configure e.g. /proc/sys/vm/nr_hugepages
kernel_rw_vm_sysctls(polaris_vman_t)

# need to do bind mount of /bootflash/SHARED-IOX
mount_domtrans(polaris_vman_t)

# vman accessing files under /tmp created by initrc like /tmp/gdev/md0/gdev-info
init_read_script_tmp_files(polaris_vman_t)

#DB persistence
polaris_tdldbpersist_setup(polaris_vman_t)
polaris_tmp_tdldb_persist_setup(polaris_vman_t)

gen_require('
    type initrc_t;
')
files_tmp_filetrans(initrc_t, polaris_vman_tmp_t, file, "cgroup.log")
dmidecode_domtrans(polaris_vman_t)

# read /etc/libvirt/libvirt.conf
virt_read_config(polaris_vman_t)

# vman_cgroup_yaml.sh through prep_csr_kumo (binos_functions-pd) checks for
# ovf-env.xml file existence in variety of directories includind
# /cdrom0/ovf-env.xml
fs_read_iso9660_files(polaris_vman_t)

# allow vman to manage loop device: finding free /dev/loopN device
# note vman code iterated over all /dev/loop* devices and try to lock
# them. As part of that iteration it tries /dev/loop_control
# what it should do instead is to use /dev/loop_control to get free
# device
dev_rw_loop_control(polaris_vman_t)

# PLEASE LOOK AT ME
# allow vman to read, write /dev/loopN devices that are
# under fixed_disk_device_t label. It is pretty strong premission
# and at this point it is only done for /dev/loopN devices.
# Can we do better? i.e move /dev/loopN to some other label?
storage_manage_fixed_disk(polaris_vman_t)

# when /bootflash or /harddisk are 100% full
allow polaris_vman_t self:capability sys_resource;
# allow VMAN to move disk.img to the disk
allow polaris_vman_t self:process setfscreate;

# vman mounts directories on behalf of guest containers, it uses
# specified context for guest directories, need permission to
# relabel, mount, etc.
fs_relabelfrom_xattr_fs(polaris_vman_t)
virt_relabel_sandbox_filesystem(polaris_vman_t)
virt_mounton_sandbox_file(polaris_vman_t)
virtmanage_sandbox_files(polaris_vman_t)
gen_require(
    type svirt_sandbox_file_t;
)
allow polaris_vman_t svirt_sandbox_file_t:filesystem mount;

# /tmp/.flashlock operations from tdllib_startup_cfg_ignored, mcp_getmonvar
allow polaris_vman_t self:capability dac_override;

# allow vman to stat /dev/kvm, executed by vman_common_init function
dev_getattr_kvm_dev(polaris_vman_t)

# vman in getfs_info_by_mediatype function inspects files in /tmp/gdev
gen_require(
    type udev_tmp_t;
)
read_files_pattern(polaris_vman_t, udev_tmp_t, udev_tmp_t)

# /usr/binos/conf/vman_exec.sh policy
polaris_utility_domain_template(vman_shell)

polaris_bexecute_domain(polaris_vman_shell_t, polaris_vman_shell_exec_t)
# vman_exec.sh calls mcp_chvrf.sh
polaris_chvrf_domtrans(polaris_vman_shell_t)
# mcp_chvrf.sh calls vman_exec.sh back and then it call bexec.sh
polaris_bexecute_domtrans(polaris_vman_shell_t)
corecmd_exec_bin(polaris_vman_shell_t)

# inherits stdin from telnetd
telnet_use_ptys(polaris_vman_shell_t)
#allow use of ptys for vman tech support
telnet_use_ptys(polaris_vman_tech_t)

optional_policy(
    # reads /opt/cisco/caf/config/system-config.ini
    polaris_caf_files_read(polaris_vman_t)
)
# vman_is_machine_type_initialized clone needs cap_users sys_admin
allow polaris_vman_t self:cap_users sys_admin;

# vman_cgroup_yaml.sh searches for ovf-env.xml on cdrom0
fs_read_removable_files(polaris_vman_t)

# vman starts vman_init.sh that in turns calls virsh
gen_require(
    type virsh_t;
    type virsh_exec_t;
')
domtrans_pattern(polaris_vman_t, virsh_exec_t, virsh_t)

can_execute(polaris_vman_t)
can_send_signal_to_bexecute(polaris_vman_t)

gen_require(
    type polaris_chvrf_t;
')
# inherited as stdin/sdtout from vman
polaris_vman_use_fifo(polaris_chvrf_t)

# vman calls code_sign_verify VmanPackage
can_execute(polaris_vman_t)

can_send_signal_to_bexecute(polaris_vman_t)

# inherited as stdin/sdtout from vman
polaris_vman_use_fifo(polaris_vman_t)

fs_read_cgroup_files(polaris_vman_t)
fs_list_cgroup_dirs(polaris_vman_t)

# cgroup_reports.sh creates misc files under /tmp
type polaris_cgroup_reports_tmp_t;
files_type(polaris_cgroup_reports_tmp_t)
files_tmp_filetrans(polaris_cgroup_reports_t, polaris_cgroup_reports_tmp_t, file)
manage_files_pattern(polaris_cgroup_reports_t, polaris_cgroup_reports_tmp_t, polaris_cgroup_reports_tmp_t)
fs_getattr_tmpfs(polaris_cgroup_reports_t)

# /usr/binos/conf/vman_techsupport.sh
polaris_utility_domain_template(vman_tech)

polaris_bexecute_domain(polaris_vman_tech_t, polaris_vman_tech_exec_t)
polaris_bexecute_domtrans(polaris_vman_tech_t)
# inherited as stdin/stdout from vman
polaris_vman_use_fifo(polaris_vman_tech_t)

# vman_techsupport.sh starts virsh -c qemu:///system list --all
gen_require(
    type virsh_t;
    type virsh_exec_t;
)
domtrans_pattern(polaris_vman_tech_t, virsh_exec_t, virsh_t)

# starts ip link show
sysnet_domtrans_ifconfig(polaris_vman_tech_t)

# starts brctl show
brctl_domtrans(polaris_vman_tech_t)

corecmd_exec_bin(polaris_vman_tech_t)
auth_use_nsswitch(polaris_vman_tech_t)

polaris_proc_rmonbifo_read(polaris_vman_tech_t)
polaris_chasfs_read(polaris_vman_tech_t)
polaris_cpld_read(polaris_vman_tech_t)

# starts ps aux
kernel_read_system_state(polaris_vman_tech_t)
domain_read_all_domains_state(polaris_vman_tech_t)
dev_read_sysfs(polaris_vman_tech_t)
# getattr of stdin/stdout of misc processes
term_getattr_unallocated_ttys(polaris_vman_tech_t)
term_read_console(polaris_vman_tech_t)

# reads /bootflash/virtual-instance/
polaris_disk_vman_read(polaris_vman_tech_t)

# find /etc/libvirt/lxc -name *.xml -print
virt_read_config(polaris_vman_tech_t)
# no interface that lists virt_etc_rw_t dir
gen_require(
    type virt_etc_rw_t;
list_dirs_pattern(polaris_vman_tech_t, virt_etc_rw_t, virt_etc_rw_t)

# find /var/run/libvirt -name *.xml -maxdepth 2 -print
virt_read_pid_files(polaris_vman_tech_t)
# no interface that lists virt_var_run_t dir
gen_require('    type virt_var_run_t;
')
list_dirs_pattern(polaris_vman_tech_t, virt_var_run_t, virt_var_run_t)
# no interface that lists virt_lxc_var_run_t dir
gen_require('    type virt_lxc_var_run_t;
')
list_dirs_pattern(polaris_vman_tech_t, virt_lxc_var_run_t, virt_lxc_var_run_t)
# no interface that lists qemu_var_run_t dir
gen_require('    type qemu_var_run_t;
')
list_dirs_pattern(polaris_vman_tech_t, qemu_var_run_t, qemu_var_run_t)
# allow read of /run/libvirt/qemu
read_files_pattern(polaris_vman_tech_t, qemu_var_run_t, qemu_var_run_t)

# by some strange reason /var/run/libvirt/network is under dnsmasq_var_run_t label
dnsmasq_read_pid_files(polaris_vman_tech_t)
# no interface that lists dnsmasq_var_run_t dir
gen_require('    type dnsmasq_var_run_t;
')
list_dirs_pattern(polaris_vman_tech_t, dnsmasq_var_run_t, dnsmasq_var_run_t)

polaris_vman_var_read(polaris_vman_tech_t)

# cat /proc/net/dev
kernel_read_network_state(polaris_vman_tech_t)

# find /sys/class/net -name intsvc* -type d -print
dev_list_sysfs(polaris_vman_tech_t)

# grep over /varied/ovf-env.xml
polaris_disk_varied_read(polaris_vman_tech_t)

# writes into /tmp/vman_techsupport
polaris_vman_tmp_manage(polaris_vman_tech_t)

# find over /sys/fs/cgroup/memory/machine
fs_list_cgroup_dirs(polaris_vman_tech_t)
# cat /sys/fs/cgroup/memory/machine/memory.limit_in_bytes
fs_read_cgroup_files(polaris_vman_tech_t)

# runs df command
fs_getattr_xattr_fs(polaris_vman_tech_t)
fs_getattr_all_fs(polaris_vman_tech_t)
files_getattr_all_dirs(polaris_vman_tech_t)
# getattr over /run/netns/2
fs_read_nsfs_files(polaris_vman_tech_t)

# check existence of vman btrace file before passing it to btdecode
polaris_vman_bt_getattr(polaris_vman_tech_t)
# check existence of pman btrace file for vman before passing it to btdecode
polaris_pman_bt_getattr(polaris_vman_tech_t)

# vman_techsupport.sh creates misc files under /tmp
type polaris_vman_tech_tmp_t;
files_type(polaris_vman_tech_tmp_t)
files_tmp_filetrans(polaris_vman_tech_t, polaris_vman_tech_tmp_t, file)
manage_files_pattern(polaris_vman_tech_t, polaris_vman_tech_tmp_t, polaris_vman_tech_tmp_t)

#allow vman tech support to read container logs including listing dirs
gen_require(
    type virt_log_t;
')
list_dirs_pattern(polaris_vman_tech_t, virt_log_t, virt_log_t)
virt_read_log(polaris_vman_tech_t)

# allow vman to access /etc/passwd
auth_map_passwd(polaris_vman_shell_t)

#vman does lvm storage management e.g. vman_libvirt_strg_available_by_pool
lvm_domtrans(polaris_vman_t)

#Allow read of pid files e.g. /run/udev/data/b7:34
udev_read_pid_files(polaris_vman_t)

#allow vman to connect to the WAAS container for serial vman_register_socket
polaris_waas_stream_connect(polaris_vman_t)

# allow vman to pgrep
# allow to get getattr of /proc file system
domain_read_all_domains_state(polaris_vman_t)

# allow vman to kill LXC container process that hasn't shutdown
# inspite of a shutdown command
gen_require(
    type virtd_lxc_t;
)
polaris_vman_kill_process(virtd_lxc_t)

# allow vman to rsync using ioxman_syslib.sh
rsync_entry_type(polaris_vman_t)
corenets_connect_rsync_port(polaris_vman_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisvman.te
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#
# March 2017, Victor Kamensky
#
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#

/tmp/.ncsshdAuthorizedKeys(/.*)? gen_context(system_u:object_r:polaris_ncsshd_keys_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispsd.fc
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#

## <summary>Polaris Btrace Policy Rules.</summary>

******************************************************************************
# Obfl policy
******************************************************************************

******************************************************************************
## <summary>
## Read obfl files (under /obfl, /varied/obfl, etc)
## </summary>
## <param name="domain">
##  <summary>
##  Domain allowed access.
##  </summary>
## </param>
## <rolebase/>
#
interface('polaris_obfl_data_read',

gen_require(' 

type polaris_obfl_data_t;

type root_t;
')

read_lnk_files_pattern($1, root_t, polaris_obfl_data_t)
read_files_pattern($1, polaris_obfl_data_t, polaris_obfl_data_t)
list_dirs_pattern($1, polaris_obfl_data_t, polaris_obfl_data_t)
allow $1 polaris_obfl_data_t:file map;
')

#######################################
## <summary>
##      Manage obfl files (under /obfl, /varied/obfl, etc
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#

interface('polaris_obfl_data_manage',

gen_require(' 

type polaris_obfl_data_t;

type root_t;

type var_t;
')

read_lnk_files_pattern($1, root_t, polaris_obfl_data_t)
manage_files_pattern($1, { var_t polaris_obfl_data_t }, polaris_obfl_data_t)
manage_dirs_pattern($1, { var_t polaris_obfl_data_t }, polaris_obfl_data_t)
allow $1 polaris_obfl_data_t:file map;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisobfl.if
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#

## <summary>Polaris Btrace Policy Rules.</summary>

Open Source Used In Crosswork Platform Infrastructure cw-infra-opensource-4.3.0 16274
### RIPC policy

```
## Work with ripc

## Domain allowed access.

interface('polaris_ripc',
    corenet_tcp_bind_generic_node($1)
    allow $1 self:tcp_socket
        getattr
        setopt
        getsockopt
        bind
        create
        listen
        accept
        connect
        read
        write;

    # bipc would like to issue "setsockopt(sock, SOL_SOCKET, SO_VRF,".
    # which requires
    # net_admin and sys_admin capabilities
    allow $1 self:capability
        { net_admin sys_admin }
;

    polaris_socketat_nsfs_read($1)
)
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisripc.if

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---

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```
/tmp/sw/boot(/.*)?         gen_context(system_u:object_r:polaris_boot_tmp_t,s0)
/tmp/sw/isos(/.*)?         gen_context(system_u:object_r:polaris_boot_tmp_t,s0)
/tmp/bootup_timestamp      gen_context(system_u:object_r:polaris_boot_tmp_t,s0)
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisboot.fc

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---

# December 2019, Victor Kamensky

#
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#
# polarisservicemgr file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisservicemgr.fc
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#
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#

## <summary>Polaris polarisboothelper Policy Rules.</summary>

```

interface(`polaris_udev_tmp_read`,
    gen_require(
        type polaris_udev_tmp_files_t;
    
    read_files_pattern($1, polaris_udev_tmp_files_t, polaris_udev_tmp_files_t)
    list_dirs_pattern($1, polaris_udev_tmp_files_t, polaris_udev_tmp_files_t)
    
)
```

## <summary>Manage any regular file/directory from /tmp/udev.
##
## <param name="domain">
##
## Domain allowed access.
##
## </param>
#

interface(`polaris_udev_tmp_manage`,

gen_require(
    type polaris_udev_tmp_files_t;
  )
manage_dirs_pattern($1, polaris_udev_tmp_files_t, polaris_udev_tmp_files_t)
manage_files_pattern($1, polaris_udev_tmp_files_t, polaris_udev_tmp_files_t)
)

########################################################################
### <summary>
### Listdir of any regular directory from /tmp/udev.
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
interface(`polaris_udev_tmp_list_dirs',
  gen_require(
    type polaris_udev_tmp_files_t;
  )
  list_dirs_pattern($1, polaris_udev_tmp_files_t, polaris_udev_tmp_files_t)
  )

########################################################################
### <summary>
### Watch udev_tmp_files directories and files
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
### <rolebase/>
#
interface(`polaris_udev_tmp_watch',
  gen_require(
    type polaris_udev_tmp_files_t;
  )
  allow $1 polaris_udev_tmp_files_t:{dir file} watch;
  )

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisboothelper.if
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#
# March 2017, Victor Kamensky
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#
/usr/cpp/bin/cpp_driver -- gen_context(system_u:object_r:polaris_cpp_driver_exec_t,s0)
/usr/cpp/bin/cpp_driver_ledp -- gen_context(system_u:object_r:polaris_cpp_driver_exec_t,s0)
/usr/cpp/bin/cpp_driver_us_ledp -- gen_context(system_u:object_r:polaris_cpp_driver_exec_t,s0)
/usr/cpp/bin/cpp_driver_vwlc -- gen_context(system_u:object_r:polaris_cpp_driver_exec_t,s0)
/usr/cpp/bin/cpp_driver_vwlc_ledp -- gen_context(system_u:object_r:polaris_cpp_driver_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppdriver.fc
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#
# March 2017, Victor Kamensky
#
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#
/usr/binos/conf/mcp_monitor_process_batchmode.sh --
gen_context(system_u:object_r:polaris_monitor_process_exec_t,s0)
/usr/binos/conf/pkg_summary.sh -- gen_context(system_u:object_r:polaris_pkg_summary_exec_t,s0)
/usr/binos/conf/pkg_to_tree.sh -- gen_context(system_u:object_r:polaris_pkg_to_tree_exec_t,s0)
/tmp/myhostname gen_context(system_u:object_r:polaris_hm_tmp_t,s0)
/tmp/show_provision_temp(/.*)? gen_context(system_u:object_r:polaris_show_provision_tmp_t,s0)
/tmp/fs_lock_bootflash gen_context(system_u:object_r:polaris_cli_fs_cmds_tmp_t,s0)
# used by "sh pla so filesystem bootflash: dc" CLI
/usr/binos/conf/mcp_cli_fs_cmds.sh -- gen_context(system_u:object_r:polaris_cli_fs_cmds_exec_t,s0)
# used by "show platform software yang-management process monitor" CLI
/usr/binos/conf/mcp_monitor_dmi_proc.sh --
gen_context(system_u:object_r:polaris_monitor_dmi_process_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarishm.fc
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#
# August 2017, Shawn Lu
#
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#

## <summary>Polaris odm Policy Rules.</summary>
## <summary>
## Mqipc channel in sub directory and multiple servers on TDL
## channel is not supported by autogen code. ODM odm_clnt2svr_data
## channel is one of those. Allow domain to be one server on it.
## ODM elastic value is 2 now, add more if need in the future.
## </summary>
## <param name="domain">
##   <summary>
##   Domain allowed access.
##   </summary>
## </param>
## <param name="mqipc_label">
##   <summary>
##   Mqipc channel file label.
##   </summary>
## </param>
#
interface('polaris_odm_clnt2svr_mqipc_create',
    gen_require(
        type polaris_odm_client2server_data_mqipc_t;
    ')
    polaris_mqipc_create_name_dir($1, polaris_odm_client2server_data_mqipc_t, odm_clnt2svr_data-b1)
polaris_mqipc_create_name_dir($1, polaris_odm_client2server_data_mqipc_t, odm_clnt2svr_data-b0)
polaris_mqipc_create_name_dir($1, polaris_odm_client2server_data_mqipc_t, odm_clnt2svr_data)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisodm.if
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#
# February 2020, Victor Kamensky
#
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#
### <summary>Polaris install_mgr Policy Rules.</summary>
```c
interface (`polaris_install_mgr_tmp_read',
    gen_require(`
    type polaris_install_mgr_tmp_t;
    ')
        list_dirs_pattern($1, polaris_install_mgr_tmp_t, polaris_install_mgr_tmp_t)
        read_files_pattern($1, polaris_install_mgr_tmp_t, polaris_install_mgr_tmp_t)
        read_lnk_files_pattern($1, polaris_install_mgr_tmp_t, polaris_install_mgr_tmp_t)
    ')

########################################################
## <summary>
##      Read/Write /.installer  files and directories
## <param name="domain">
##      <summary>
##      Domain allowed access.
## <summary>
## </param>
#
# interface(`polaris_install_disk_manage',
    gen_require(`
    type polaris_disk_bootflash_t;
    type polaris_disk_install_t;
    ')
        filetrans_pattern(polaris_install_mgr_t,polaris_disk_bootflash_t, polaris_disk_install_t, dir, ".installer")
        filetrans_pattern(polaris_install_mgr_t,polaris_disk_bootflash_t, polaris_disk_install_t, fifo_file, "inot_fifo")
        manage_dirs_pattern($1, {polaris_disk_bootflash_t polaris_disk_install_t}, polaris_disk_install_t)
        manage_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
        manage_fifo_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
    ')

########################################################
## <summary>
##      Read /bootflash/.installer  files and directories
## <param name="domain">
##      <summary>
##      Domain allowed access.
## <summary>
## </param>
# interface(`polaris_install_disk_read',
    gen_require(`
    type polaris_disk_install_t;
```
read_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
)

#<summary>
# Read copylog files (location varies by platform)
#</summary>
#<param name="domain">
# Domain allowed access.
#</param>
#<rolebase/>
#
interface(`polaris_read_user_file`,
gen_require(`
type polaris_user_file_t;
type device_t;
`)

read_blk_files_pattern($1, device_t, polaris_user_file_t)
read_files_pattern($1, polaris_user_file_t, polaris_user_file_t)
read_lnk_files_pattern($1, polaris_user_file_t, polaris_user_file_t)
)

#<summary>
# getattr for copylog files (location varies by platform)
#</summary>
#<param name="domain">
# Domain allowed access.
#</param>
#<rolebase/>
#
interface(`polaris_user_file_getattr`,
gen_require(`
type polaris_user_file_t;
type device_t;
`)

getattr_files_pattern($1, polaris_user_file_t, polaris_user_file_t)
)
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisinstallmgr.if
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#
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#

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisjvm.fc
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dnl April 2018, Victor Kamensky

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dnl Crankshaft (Overlord, Utah, Goldbeach, Neptune, TSN and Supernova) Platform Max Bay Limits
max_bay_map_set(‘rp’, ‘per_bay’, 0)
max_bay_map_set(‘cc’, ‘per_bay’, 19)
max_bay_map_set(‘fp’, ‘per_bay’, 0)

max_bay_ripc_map_set(‘rp’, ‘per_bay’, 0)
max_bay_ripc_map_set(‘cc’, ‘per_bay’, 19)
max_bay_ripc_map_set(‘fp’, ‘per_bay’, 0)

max_bay_ripc_map_set(‘rp’, ‘global’, 0)
max_bay_ripc_map_set(‘cc’, ‘global’, 19)
max_bay_ripc_map_set(‘fp’, ‘global’, 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/crankshaftmaps.m4
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#

/usr/bin/vconfd_script_reboot.sh -- gen_context(system_u:object_r:polaris_vconfd_reboot_exec_t,s0)
/usr/bin/vconfd_script_if_reset.sh -- gen_context(system_u:object_r:polaris_vconfd_ifreset_exec_t,s0)
/usr/bin/vconfd_script_get_config.sh -- gen_context(system_u:object_r:polaris_vconfd_cfg_exec_t,s0)
Open Source Used In Crosswork Platform Infrastructure
cw-infra-opensource-4.3.0

/usr/bin/vconfd_script_vmanage_list_stats.sh -- gen_context(system_u:object_r:polaris_vconfd_history_exec_t,s0)
/usr/bin/vconfd_script_vmanage_clear_stats.sh -- gen_context(system_u:object_r:polaris_vconfd_history_exec_t,s0)
/usr/bin/vconfd_script_activate.sh -- gen_context(system_u:object_r:polaris_vconfd_software_exec_t,s0)
/usr/bin/mcp_upgrade_wrapper.sh -- gen_context(system_u:object_r:polaris_vconfd_software_exec_t,s0)
/usr/bin/vconfd_script_nms_action.sh -- gen_context(system_u:object_r:polaris_vconfd_nms_exec_t,s0)
/usr/bin/vconfd_script_add_chassis_numbers_to_ztp.sh -- gen_context(system_u:object_r:polaris_vconfd_device_exec_t,s0)
/usr/bin/vconfd_script_remove_chassis_numbers_from_ztp.sh -- gen_context(system_u:object_r:polaris_vconfd_device_exec_t,s0)
/usr/bin/vconfd_script_upload_chassis_number_file.sh -- gen_context(system_u:object_r:polaris_vconfd_device_exec_t,s0)
/usr/bin/vconfd_script_reset_vsmart_serial_list.sh -- gen_context(system_u:object_r:polaris_vconfd_reset_exec_t,s0)
/usr/bin/vconfd_script_cert.sh -- gen_context(system_u:object_r:polaris_vconfd_cert_exec_t,s0)
/usr/bin/vconfd_script_show_cert.sh -- gen_context(system_u:object_r:polaris_vconfd_cert_exec_t,s0)
/usr/bin/vconfd_script_show_root_ca_cert.sh -- gen_context(system_u:object_r:polaris_vconfd_cert_exec_t,s0)
/usr/bin/vconfd_script_upload_root_ca_crt_chain.sh -- gen_context(system_u:object_r:polaris_vconfd_cert_exec_t,s0)
/usr/bin/vconfd_script_uninstall_root_ca_crt_chain.sh -- gen_context(system_u:object_r:polaris_vconfd_cert_exec_t,s0)
/usr/bin/vconfd_script_tlsproxy_install_certs.sh -- gen_context(system_u:object_r:polaris_vconfd_cert_exec_t,s0)
/usr/bin/vconfd_script_tlsproxy_remove_certs.sh -- gen_context(system_u:object_r:polaris_vconfd_cert_exec_t,s0)
/usr/bin/vconfd_script_csr.sh -- gen_context(system_u:object_r:polaris_vconfd_csr_exec_t,s0)
/usr/bin/vconfd_script_show_csr.sh -- gen_context(system_u:object_r:polaris_vconfd_csr_exec_t,s0)
/usr/bin/vconfd_script_sign_csr.sh -- gen_context(system_u:object_r:polaris_vconfd_csr_exec_t,s0)
/usr/bin/vconfd_script_upload_vsmart_serial_numbers.sh -- gen_context(system_u:object_r:polaris_vconfd_serialnum_exec_t,s0)
/usr/bin/vconfd_script_upload_vedge_serial_numbers.sh -- gen_context(system_u:object_r:polaris_vconfd_serialnum_exec_t,s0)
/usr/bin/vconfd_script_fetch_core_info.sh -- gen_context(system_u:object_r:polaris_vconfd_crash_exec_t,s0)

# admin-tech scripts skipped defined in some other place
/usr/bin/list_crashtech_files.sh -- gen_context(system_u:object_r:polaris_vconfd_crash_exec_t,s0)
/usr/bin/vconfd_script_unlock_user.sh -- gen_context(system_u:object_r:polaris_vconfd_aaa_exec_t,s0)
/usr/bin/vconfd_script_set_password.sh -- gen_context(system_u:object_r:polaris_vconfd_aaa_exec_t,s0)
/usr/bin/vconfd_script_container.sh -- gen_context(system_u:object_r:polaris_vconfd_contr_exec_t,s0)
/usr/bin/polaris_iox_precheck.sh -- gen_context(system_u:object_r:polaris_vconfd_iox_exec_t,s0)
/usr/bin/polaris_iox_install.sh -- gen_context(system_u:object_r:polaris_vconfd_iox_exec_t,s0)
/usr/bin/polaris_iox_upgrade.sh -- gen_context(system_u:object_r:polaris_vconfd_iox_exec_t,s0)
policy_module(polaristdlresolve, 1.0);

# TDLresolve policy

gen_require(
    attribute polaris_extended_domain;
')

type polaris_tdlresolve_t;
files_type(polaris_tdlresolve_t)

files_tmp_filetrans(polaris_extended_domain, polaris_tdlresolve_t, dir, "tdlresolve")
# tdl_boottime.sh uses /tmp/tdlresolve_tmp for some temp files
# which are moved into /tmp/tdlresolve latter
files_tmp_filetrans(polaris_extended_domain, polaris_tdlresolve_t, dir, "tdlresolve_tmp")

type polaris_global_service_t;
files_type(polaris_global_service_t);

# rsync policy

gen_require(
    type rsync_t;
type polaris_btrace_base_t;

')
#tdl_cleanup_epochs.sh uses btrace
allow rsync_t polaris_btrace_base_t:file map;
#rsync invokes tdl_cleanup_epochs.sh as part of this set /proc/[pid]/oom_score_adj is done
allow rsync_t self:capability sys_resource;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristdlresolve.te
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#
# March 2017, Victor Kamensky
#
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#

policy_module(polarisqfp, 1.0);

polaris_process_domain_template(qfp)

polaris_cpp_process(polaris_qfp_t)
polaris_cpp_dev_use(polaris_qfp_t)
polaris_btrace_data_manage(polaris_qfp_t)
polaris_crft_data_manage(polaris_qfp_t)
polaris_chasfs_manage(polaris_qfp_t)
polaris_lsmpi_dev_use(polaris_qfp_t)
polaris_persistent_list_dirs(polaris_qfp_t);

# allow for hot add on azure
kernel_read_irq_sysctls(polaris_iodbd_t)
kernl_rw_irq_sysctls(polaris_iodbd_t)

# allow read variety of system information from sysfs, as well as write
# into configuration of some pcie devices
# type=AVC msg=audit(1479597040.739:218): avc: denied { write } for pid=30997 comm="ucode_ctl_rx"
name="config" dev="sysfs" ino=22363 scontext=system_u:system_r:polaris_qfp_t:s0
tcontext=system_u:object_r:sysfs_t:s0 tclass=file
dev_rw_sysfs(polaris_qfp_t)

# allow to send message to /dev/log
logging_send_syslog_msg(polaris_qfp_t)

# allow access to uio devices like /dev/uio0
tdev_rw_userio_dev(polaris_qfp_t)

# Platforms with QAT v1.7 need map permission also
# qae device (/dev/icp_adf_ctl)
type polaris_icp_device_t;
dev_node(polaris_icp_device_t)

allow polaris_qfp_t userio_device_t:chr_file map;

# allow to read /proc/meminfo
kernel_read_system_state(polaris_qfp_t)

# qfp FIA (Feature Invocation Array) resides in /dev/shm/cpp_ucode_dram
# Those are set of instructions assembled by cpp control plane and passed
# to qfp to execute.
polaris_cpp_tmpfs_exec(polaris_qfp_t)

# qfp /var/run pid file
type polaris_qfp_var_run_t;
files_pid_file(polaris_qfp_var_run_t)
manage_files_pattern(polaris_qfp_t, polaris_qfp_var_run_t, polaris_qfp_var_run_t)
manage_dirs_pattern(polaris_qfp_t, polaris_qfp_var_run_t, polaris_qfp_var_run_t)
files_pid_filetrans(polaris_qfp_t, polaris_qfp_var_run_t, { file dir })
# mmap /var/run/dpdk/rte/config
allow polaris_qfp_t polaris_qfp_var_run_t:file map;

# qfp memif directory and file
type polaris_qfp_memif_t;
files_tmp_file(polaris_qfp_memif_t);
# qfp memif interface for binos clients in /tmp/memif
files_tmp_filetrans(polaris_qfp_t, polaris_qfp_memif_t, dir, "memif")
# creates /tmp/binos-IOX/memif
files_tmp_filetrans(polaris_qfp_t, polaris_qfp_memif_t, dir, "binos-IOX")
polaris_qfp_memif_manage(polaris_qfp_t)
# qfp memif interface for container in /bootflash/SHARED-IOX/memif
polaris_disk_type(polaris_qfp_memif_t)
gen_require(
   type polaris_disk_bootflash_t;
)
filetrans_pattern(polaris_qfp_t, polaris_disk_bootflash_t, polaris_qfp_memif_t, dir, "memif")

# work with /bootflash/SHARED-IOX/memif/memif-dp-svr
polaris_utdl_container_dgram_send(polaris_qfp_t)

# work (create/open/read/write) with hugetlbs files
fs.manage_hugetlbs_dirs(polaris_qfp_t)
fs_rw_hugetlbs_files(polaris_qfp_t)
gen_require(
   type hugetlbs_t;
)
allow polaris_qfp_t hugetlbs_t:file create;
# dpdk may unlinks unneeded pages in unmap_unneeded_hugepages function
allow polaris_qfp_t hugetlbfs_t::file unlink;

allow polaris_qfp_t self:capability { sys_rawio sys_nice sys_admin };
allow polaris_qfp_t self:process setsched;

# is_nic_netmap_capable function, which is used by vnic_cfg_port, needs socket to
# work with interface parameters
allow polaris_qfp_t self:udp_socket create_socket_perms;

ifdef(`crankshaft_family',`
polaris_icc_broken_relocations(polaris_qfp_t)
')

# access to /dev/dash_xxx devices on cranshaft platforms
optional_policy(`
    polaris_dash_dev_use(polaris_qfp_t)
')

# netmap device (/dev/netmap)
type polaris_netmap_device_t;
dev_node(polaris_netmap_device_t)
polaris_netmap_dev_use(polaris_qfp_t)

# access to /dev/icp_XXX device on crankshaft platforms
optional_policy(`
    polaris_icp_dev_use(polaris_qfp_t)
')

# netmap device (/dev/svc_eng_puntNN)
type polaris_sep_device_t;
dev_node(polaris_sep_device_t)
polaris_svc_eng_punt_dev_use(polaris_qfp_t)

# transition and access to /var/log/cdal-tsn-info.log
ifdef(`tsn_platform',`
polaris_qfp_log_manage("cdal-tsn-info.log")
')

# transition and access to /var/log/cdal-tsn-info.log
ifdef(`blackheart_platform',`
polaris_qfp_log_manage("cdal-tsn-info.log")
')

# aventus needs access to /sys/devices/platform/cpn-110-master/cpn-110-master
# for boot configuration
ifdef('aventus_platform',
    gen_require('    type syslogd_t;
    ')
polaris_qfp_log_manage("cdal-tsn-info.log")
polaris_ggpio_dev_read_write(polaris_qfp_t)
polaris_ggpio_dev_read_write(syslogd_t)
')

# transition and access to /var/log/cdal-tsn-info.log
ifdef('cabo_platform',
    polaris_qfp_log_manage("cdal-tsn-info.log")
')

# transition and access to /var/log/cdal-tsn-info.log
ifdef('supernova_platform',
    polaris_qfp_log_manage("cdal-tsn-info.log")
')

# LOOK AT ME: qfp process links libcrypto.so.1.0.0 which has DT_TEXTREL
# that should be addressed by CSCv99905, once that is fixed remove below
# under CSCv99905.
gen_require('    type lib_t;
    ')

allow polaris_qfp_t lib_t:file execmod;

# LOOK AT ME: qfp process on TSN LE has executable stack with GNU_STACK marked RWE
# that should be addressed by CSCv966808, once that is fixed remove below
# under CSCv966808.
ifdef('tsn_platform',
    allow polaris_qfp_t self:process execmem;
)

# lsmpi replacement punt/inject over domain sockets
polaris_pi_uds_manage(polaris_qfp_t)
polaris_iosd_dgram_send(polaris_qfp_t)

# dpdk code reads CPU model specific register (MSR)
dev_read_cpuid(polaris_qfp_t)

# dpdk code in rte_mp_channel_init function creates and works
# with /var/run/dpdk/rte/mp_socket socket
manage_sock_files_pattern(polaris_qfp_t, polaris_qfp_var_run_t, polaris_qfp_var_run_t)

# dpdk code in dev_uev_socket_fd_create creates and work with
# netlink_kobject_uevent_socket
# Note: radium with QAT v1.7 requires getattr and setopt
allow polaris_qfp_t self:netlink_kobject_uevent_socket { getattr setopt bind create };

# hal_random32_init calls hw_random32_init and it opens /dev/random
dev_read_rand(polaris_qfp_t)

gen_require(
    type sysfs_t;
)
mmmap_files_pattern(polaris_qfp_t, sysfs_t, sysfs_t)

# LOOK AT ME: remove after CSCvs34007 fixed
# qfp runs hidendir hide /bootflash/SHARED-IOX/memif
corecmd_exec_bin(polaris_qfp_t)
corecmd_exec_shell(polaris_qfp_t)
auth_use_nsswitch(polaris_qfp_t)

# CSR & C8KV use infiniband and tun/tap devices for Azure
type polaris_infiniband_device_t;
dev_node(polaris_infiniband_device_t)
polaris_infiniband_dev_use(polaris_qfp_t)

kernel_request_load_module(polaris_qfp_t)
allow polaris_qfp_t self:netlink_rdma_socket { bind create setopt };
allow polaris_qfp_t self:capability { ipc_lock net_admin net_raw };
allow polaris_qfp_t self:netlink_route_socket rw_netlink_socket_perms;
allow polaris_qfp_t self:tun_socket { create relabelfrom relabelto };
corenet_rw_tun_tap_dev(polaris_qfp_t)

# CSR Azure IO model requies read access
gen_require(
    type proc_net_t;
)
allow polaris_qfp_t proc_net_t:file { read };

# manage MLX NIC socket files in /var/tmp/net_mlx5*
type polaris_qfp_var_tmp_t;
files_tmp_file(polaris_qfp_var_tmp_t);
files_tmp_filetrans(polaris_qfp_var_tmp_t, { sock_file })
manage_sock_files_pattern(polaris_qfp_var_tmp_t, { sock_file })

# rm from coreutils-8.30 wants to know filesystem type
fs_getattr_xattr_fs(polaris_qfp_t)

# allow create of dir /bootflash/SHARED-IOX on first install of VM
create_dirs_pattern(polaris_qfp_t, polaris_disk_bootflash_t, polaris_disk_bootflash_t)

polaris_cpld_read(polaris_qfp_t, polaris_sysfs_cpld_t, polaris_sysfs_cpld_t)

# tsn needs access to /sys/devices/platform/cpn-110-master/cpn-110-master
# for boot configuration
ifdef(`tsn_platform',`
    polaris_ggpio_dev_read_write(polaris_qfp_t)
')

# blackheart needs access to /sys/devices/platform/cpn-110-master/cpn-110-master
# for boot configuration
ifdef(`blackheart_platform',`
    polaris_ggpio_dev_read_write(polaris_qfp_t)
')

# sparrow needs access to /sys/devices/platform/cpn-110-master/cpn-110-master
# Also needs access to cdal-tns-info.log
ifdef(`sparrow_platform',`
    polaris_qfp_log_manage("cdal-tns-info.log")
    polaris_ggpio_dev_read_write(polaris_qfp_t)
')

# ucode also needs access to ttyUSB4
ifdef(`cabo_platform',`
    term_use_usb_ttys(polaris_qfp_t)
')

# qfp starts /usr/binos/bin/net_hotremove-vxe.sh
init_read_script_files(polaris_qfp_t)

# access to /dev/dash_xxx devices on cranshaft platforms
optional_policy(`
    polaris_htx_dgram_send(polaris_qfp_t)
')

# net_hotremove-vxe.sh that works with /tmp/iodb
polaris_iodb_tmp_manage(polaris_qfp_t)
# net_hotremove-vxe.sh sends signal to iodbd.sh
gen_require(`
    type polaris_iodb_t;
')
allow polaris_qfp_t polaris_iodb_t:process signal;
# net_hotremove-vxe.sh reads /proc/sys/vm/nr_hugepages
kernel_read_vm_sysctls(polaris_qfp_t)
# long running helper script iodbd.sh
polaris_process_domain_template(iodbd)

# iodbd.sh started by /etc/init.d/binos that runs under initrc_t
gen_require(
    type initrc_t;
')
polaris_iodbd_domtrans(initrc_t)

polaris_boot_tmp_read(polaris_iodbd_t)
polaris_chasfs_manage(polaris_iodbd_t)
polaris_cpld_read(polaris_iodbd_t)
polaris_rmonbifo_tmp_read(polaris_iodbd_t)

auth_use_nsswitch(polaris_iodbd_t)
corecmd_exec_bin(polaris_iodbd_t)

# hot add interfaces virtio/sriov
dev_manage_sysfs_dirs(polaris_iodbd_t)
polaris_sysfs_manage(polaris_iodbd_t)

# write into sysfs file like /sys/devices/pci0000:00/0000:00:03.2/config
dev_rw_sysfs(polaris_iodbd_t)

# read/write /run/dpdk/rte/config
manage_files_pattern(polaris_iodbd_t, polaris_qfp_var_run_t, polaris_qfp_var_run_t)

# lspci reads /etc/modprobe.d
modutils_read_module_config(polaris_iodbd_t)
# lspci reads /lib/modules/5.4.40/modules.softdep
files_read_kernel_modules(polaris_iodbd_t)
files_map_kernel_modules(polaris_iodbd_t)

# runs dmidecode
dmidecode_domtrans(polaris_iodbd_t)
# dmidecode when run in this context needs access initrc stdin/stdout
gen_require(
    type dmidecode_t;
')
init_rw_stream_sockets(dmidecode_t)

# calls ethtool -i intsvc0
sysnet_domtrans_ifconfig(polaris_iodbd_t)

# reads /etc/rc.d/init.d/binos_functions-pd-iodb
init_read_script_files(polaris_iodbd_t)

# read /proc/sys/vm/hr_hugepages
kernel_read_vm_sysctls(polaris_iodb_t)

# cat /sys/class/net/intsvc0/address
dev_read_sysfs(polaris_iodb_t)

# read /proc/cmdline
kernel_read_system_state(polaris_iodb_t)

polaris_iodb_tmp_manage(polaris_iodb_t)

type polaris_iodb_tmp_t;
files_tmp_file(polaris_iodb_tmp_t)

# /tmp/iodb is created by /etc/init.d/binos that runs under initrc_t
gen_require('  
  type initrc_t;
  ')
files_tmp_filetrans(initrc_t, polaris_iodb_tmp_t, dir, "iodb")
polaris_iodb_tmp_manage(initrc_t)

# udev_t can drop entries into /tmp/iodb to process
gen_require('  
  type udev_t;
  ')
polaris_iodb_tmp_manage(udev_t)

# Radium and Thallium need to check rommon version when initializing static
# interface table (access /proc/rmonbifo).
optional_policy('  
  polaris_proc_rmonbifo_read(polaris_qfp_t)
  ')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisqfp.te
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#  
## <summary>Polaris cpp_ha Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppha.if
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
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#

policy_module(polarisngwctblmgr, 1.0);

gen_require(
    type polaris_ngwc_tbl_mgr_t;
)

polaris_btrace_data_manage(polaris_ngwc_tbl_mgr_t)
polaris_crft_data_manage(polaris_ngwc_tbl_mgr_t)
polaris_chasfs_manage(polaris_ngwc_tbl_mgr_t)
polaris_tdlresolve_read(polaris_ngwc_tbl_mgr_t)
polaris_tlddb_list_dirs(polaris_ngwc_tbl_mgr_t)
polaris_cpld_read(polaris_ngwc_tbl_mgr_t)
polaris_lua_read(polaris_ngwc_tbl_mgr_t)
polaris_flashlib_read(polaris_ngwc_tbl_mgr_t)

polaris_ripc_sman_ui_serv_connect(polaris_ngwc_tbl_mgr_t)

allow polaris_ngwc_tbl_mgr_t self:capability dac_override;

polaris_dyncfg_tmp_read(polaris_ngwc_tbl_mgr_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwctblmgr.te
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#

# polarisfmanrp file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfmanrp.fc
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dnl
define(`polaris_ripc_service_server_aux',`dnl
polaris_ripc_$2_bind($3)
polaris_ripc($3)
')

define(`polaris_ripc_service_server_full',`dnl
polaris_ripc_service_server_aux(ripc_label($1), ripc_stem($1), process_label($2))
')

define(`polaris_ripc_service_server',`dnl
ifelse(ripc_type_map($1), `', `polaris_ripc_service_server_full($1, $2, $3, $4, $5))
ripc_type_map_set(ripc_label($1), process_label($2))
')

define(`polaris_ripc_service_client_aux',`dnl
polaris_ripc($3)
polaris_ripc_$2_connect($3)
')

define(`polaris_ripc_service_client',`dnl
polaris_ripc_service_client_aux(ripc_label($1), ripc_stem($1), process_label($2))
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_ripc_te.m4
No license file was found, but licenses were detected in source scan.

#
# August 2017, Victor Kamensky
#
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#
/usr/binos/conf/audit_log.sh -- gen_context(system_u:object_r:polaris_audit_log_exec_t,s0)
/usr/binos/conf/audit_snapshot.sh -- gen_context(system_u:object_r:polaris_audit_log_exec_t,s0)
/tmp/package_biv_sums -- gen_context(system_u:object_r:polaris_kgv_data_t,s0)
/usr/bin/code_sign_verify -- gen_context(system_u:object_r:polaris_code_verify_exec_t,s0)
/usr/sbin/boot_verify_package -- gen_context(system_u:object_r:polaris_code_verify_exec_t,s0)
/usr/sbin/kgv_update -- gen_context(system_u:object_r:polaris_code_verify_exec_t,s0)
/dev/shm/sem\updatepcr8d_msg_sem   gen_context(system_u:object_r:polaris_code_verify_tmpfs_t,s0)
# /dev/aikido
/dev/aikido -c gen_context(system_u:object_r:polaris_aikido_device_t,s0)

/usr/binos/conf/mcp_upgrade_hwprg.sh     gen_context(system_u:object_r:polaris_hw_upgrade_exec_t,s0)
/usr/binos/conf/mcp_upgrade_hwprg_fpga.sh gen_context(system_u:object_r:polaris_hw_upgrade_exec_t,s0)
/usr/binos/conf/mcp_upgrade_hwprg_cpld.sh gen_context(system_u:object_r:polaris_hw_upgrade_exec_t,s0)
/usr/binos/conf/mcp_upgrade_hwprg_cmds.sh gen_context(system_u:object_r:polaris_hw_upgrade_exec_t,s0)
/usr/binos/conf/mcp_upgrade_hwprg_utils.sh gen_context(system_u:object_r:polaris_hw_upgrade_exec_t,s0)
/usr/binos/bin/tam_fw_upgrade                 gen_context(system_u:object_r:polaris_hw_upgrade_exec_t,s0)
/usr/binos/conf/mcp_upgrade_rommon.sh         gen_context(system_u:object_r:polaris_rom_upgrade_exec_t,s0)
/usr/binos/conf/mcp_upgrade_rommon_cmds.sh    gen_context(system_u:object_r:polaris_rom_upgrade_exec_t,s0)
/usr/binos/conf/mcp_upgrade_rommon_helper.sh  gen_context(system_u:object_r:polaris_rom_upgrade_exec_t,s0)
/usr/binos/conf/mcp_upgrade_rommon_x86.sh     gen_context(system_u:object_r:polaris_rom_upgrade_exec_t,s0)
/dev/scansta                                  -c gen_context(system_u:object_r:polaris_scansta_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristws.fc
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#
# June 2020, Cuiyan Ma
#
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#

policy_module(polarisissucompcheck, 1.0);
polaris_process_domain_template(issu_comp_check)
corecmd_exec_bin(polaris_issu_comp_check_t)
corecmd_exec_shell(polaris_issu_comp_check_t)
polaris_chasfs_manage(polaris_issu_comp_check_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_issu_comp_check_t)

# For reading tracekey from /tmp/tmppub/tracekey_cache/usr/bin/rotee
polaris_btrace_tmppub_read(polaris_issu_comp_check_t)

# For reading /sys/devices/platform/cpld/platform_type
polaris_cpld_read(polaris_issu_comp_check_t)

# For reading /tmp/sw/boot/pkginfo
polaris_boot_tmp_read(polaris_issu_comp_check_t)
# For ls on /tmp/ufs/crashinfo
optional_policy(
    polaris_nsd_tmp_read(polaris_issu_comp_check_t)
)

# work with /tmp files

type polaris_issu_comp_check_tmp_t;
files_tmp_file(polaris_issu_comp_check_tmp_t)
manage_dirs_pattern(polaris_issu_comp_check_t, tmp_t, polaris_issu_comp_check_tmp_t)
manage_files_pattern(polaris_issu_comp_check_t, polaris_issu_comp_check_tmp_t, polaris_issu_comp_check_tmp_t)
files_tmp_filetrans(polaris_issu_comp_check_t, polaris_issu_comp_check_tmp_t, { file dir })

# For using push_using_rsync
polaris_chvrf_domtrans(polaris_issu_comp_check_t)

gen_require(
    type rsync_t;
    )
rsync_entry_domtrans(polaris_issu_comp_check_t, rsync_t)
polaris_manage_rsync_tmplog_dir(polaris_issu_comp_check_t)

# rsync inherits issu_comp_check.sh's stdout/stderr fifo files
allow rsync_t polaris_issu_comp_check_t:fifo_file write;

allow polaris_issu_comp_check_t self:capability sys_resource;

# reads /tmp/remote_sw_verinfo.txt

gen_require(
    type rsync_tmp_t;
    )
read_files_pattern(polaris_issu_comp_check_t, rsync_tmp_t, rsync_tmp_t)

# use of errmsg.sh
polaris_script_errmsg_use(polaris_issu_comp_check_t)

# hwutil modifies /sys/bus/i2c/drivers/pca9548/1-0076/reg_control
# TODO: label sysfs so that reg control gets its own label
dev_rw_sysfs(polaris_issu_comp_check_t)

# allow locking of /tmp/sysctrl_i2c.lck
# TODO: this file probably deserves its own label when created by cm_rp
polaris_cm_rp_tmp_manage(polaris_issu_comp_check_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.10/selinux-tar/selinux/polarisissucompcheck.te

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## <summary>Polaris dmi_opdatamgrd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.10/selinux-tar/selinux/polarisdmiopdatamgrd.if

No license file was found, but licenses were detected in source scan.

```c
policy_module(polarispttcd, 1.0);

gen_require(
   type polaris_pttcd_t;
')

polaris_btrace_data_manage(polaris_pttcd_t)
polaris_crf_data_manage(polaris_pttcd_t)
polaris_chasfs_manager(polaris_pttcd_t)
polaris_tdlresolve_read(polaris_pttcd_t)
polaris_tdlldb_list_dirs(polaris_pttcd_t)
polaris_lua_read(polaris_pttcd_t)
polaris_flashlib_read(polaris_pttcd_t)

auth_use_nsswitch(polaris_pttcd_t)
polaris_cpld_read(polaris_pttcd_t)

allow polaris_pttcd_t self:netlink_route_socket r_netlink_socket_perms;

polaris_disk_bootflash_search(polaris_pttcd_t)
polaris_bootflash_manager(polaris_pttcd_t)
polaris_persistent_getattr(polaris_pttcd_t)

type polaris_pttcd_tmp_t;
files_tmp_file(polaris_pttcd_tmp_t)
polaris_systemd_tmpfiles_tmp_filetrans(polaris_pttcd_tmp_t, dir, "interceptor")
gen_require(
   type polaris_btrace_tmppub_t;
```
allow polaris_pttcd_t self:tcp_socket create_stream_socket_perms;
allow polaris_pttcd_t self:udp_socket create_socket_perms;

corenet_tcp_bind_generic_node(polaris_pttcd_t)
corenet_tcp_bind_polaris_pttcd_port(polaris_pttcd_t)
corenet_tcp_connect_polaris_pttcd_port(polaris_pttcd_t)
corenet_udp_sendrecv_polaris_pttcd_port(polaris_pttcd_t)

sysnet_read_config(polaris_pttcd_t)

allow polaris_pttcd_t self:capability sys_resource;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispttcd.te
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#
# August 2017, Shawn Lu
#
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#

policy_module(polarisrrmogr, 1.0);

gen_require(
    type polaris_rrm_mgr_t;
')

polaris_btrace_data_manage(polaris_rrm_mgr_t)
polaris_chasfs_manage(polaris_rrm_mgr_t)
polaris_tdlresolve_read(polaris_rrm_mgr_t)
polaris_tdlldb_listDirs(polaris_rrm_mgr_t)
polaris_cpld_read(polaris_rrm_mgr_t)
polaris_lua_read(polaris_rrm_mgr_t)
polaris_flashlib_read(polaris_rrm_mgr_t)
polaris_ripc_sman_ui_serv_connect(polaris_rrm_mgr_t)
polaris_db_tdlldb_dir_use(polaris_rrm_mgr_t)

# allow to use setrlimit
allow polaris_rrm_mgr_t self:process setrlimit;
allow polaris_rrm_mgr_t self:capability sys_resource;
allow polaris_rrm_mgr_t self:capability dac_override;

# stuff related to vrf support of the socket
polaris_lfts_dev_use(polaris_rrm_mgr_t)
polaris_socketat_nsfs_read(polaris_rrm_mgr_t)

# allow to open udp socket on port 12134
corenet_udp_bind_polaris_rrm_mgr_port(polaris_rrm_mgr_t)
corenet_udp_bind_generic_node(polaris_rrm_mgr_t)
allow polaris_rrm_mgr_t self:udp_socket { create_socket_perms recv_msg send_msg };
corenet_udp_bind_polaris_rrm_clnt_port(polaris_rrm_mgr_t)
polaris_odm_clnt2svr_mqipc_create(polaris_rrm_mgr_t)

# access "/bootflash/.dbpersist"
polaris_tlldbpersist_setup(polaris_rrm_mgr_t)

# access /tmp/rp/tlldb/persistent-config/ dir and files in this dir
polaris_tmp_tlldb_persist_setup(polaris_rrm_mgr_t)

logging_send_syslog_msg(polaris_rrm_mgr_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrrmmgr.te
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#
# April 2017, Victor Kamensky
#
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#

policy_module(polariscyan, 1.0);

# dyncfg_setup.sh runs under cmand label
polaris_process_domain_template(dyncfg)
polaris_btrace_data_manage(polaris_dyncfg_t)
polaris_cpld_read(polaris_dyncfg_t)
polaris_lua_read(polaris_dyncfg_t)
polaris_cpld_dev_use(polaris_dyncfg_t)
polaris_rmonbifo_tmp_read(polaris_dyncfg_t)
polaris_chasfs_read(polaris_dyncfg_t)
# this script works with /tmp/dyncfg files
type polaris_dyncfg_tmp_t :
files_tmp_file(polaris_dyncfg_tmp_t)

files_tmp_filetrans(polaris_dyncfg_tmp_t, polaris_dyncfg_tmp_t, dir, "cyan")
files_tmp_filetrans(polaris_dyncfg_tmp_t, polaris_dyncfg_tmp_t, file)

manage_files_pattern(polaris_dyncfg_tmp_t, polaris_dyncfg_tmp_t, polaris_dyncfg_tmp_t)
manage_dirs_pattern(polaris_dyncfg_tmp_t, polaris_dyncfg_tmp_t, polaris_dyncfg_tmp_t)
manage_lnk_files_pattern(polaris_dyncfg_tmp_t, polaris_dyncfg_tmp_t, polaris_dyncfg_tmp_t)

corecmd_exec_bin(polaris_dyncfg_tmp_t)
corecmd_exec_shell(polaris_dyncfg_tmp_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_dyncfg_tmp_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_dyncfg_tmp_t)

# dyncfg_setup calls luajit and luajit needs execute JIT generated code
allow polaris_dyncfg_tmp_t self:process execmem;

# allow objstore access
polaris_disk_objstore_read(polaris_dyncfg_tmp_t)

type polaris_dyncfg_log_t :
files_tmp_file(polaris_dyncfg_log_t)

gen_require(
    attribute polaris_domain;
')

filetrans_pattern(polaris_domain, polaris_dyncfg_tmp_t, polaris_dyncfg_log_t, file, "cyan.log")
filetrans_pattern(polaris_domain, polaris_dyncfg_tmp_t, polaris_dyncfg_log_t, file, "cyan_runtime.log")
files_tmp_filetrans(polaris_domain, polaris_dyncfg_log_t, file, "cyan.lock")
manage_files_pattern(polaris_domain, polaris_dyncfg_tmp_t, polaris_dyncfg_log_t)

polaris_dyncfg_tmp_read(polaris_domain)

# on utah need to get model info
optional_policy(
    polaris_dash_dev_use(polaris_dyncfg_tmp_t)
')

# access to /dev/dash_fpga device on fugazi platform
ifdef("fugazi_platform",
    polaris_dash_dev_mcp_use(polaris_dyncfg_tmp_t)
# allow search and read under /tmp/boot directory
polaris_boot_tmp_read(polaris_dyncfg_t)

logging_send_syslog_msg(polaris_dyncfg_t)

# dyncfg needs access to idprom. Idprom is accessed differently depending on
# platform

# on utah idprom is in quack chip: hw_esg_read_midplane_idprom
# on platforms with idprom in quack chip need access to
# quack device as part of hw_esg_read_midplane_idprom call.
ifdef(`crankshaft_family','
  polaris_quack_dev_use(polaris_dyncfg_t)
')
ifdef(`starfleet_platform','
  polaris_quack_dev_use(polaris_dyncfg_t)
')

# on 1ng idprom is i2c device in sysfs like:
# /sys/devices/pci0000:00/0000:00:1f.3/i2c-0/i2c-1/1-0056/eeprom
# on ultra it is still emulated by i2c driver like:
# /sys/devices/i2c-0/i2c-1/1-0056/eeprom
dev_rw_sysfs(polaris_dyncfg_t)

# on nyquist and 1ng idprom value retrieved by flashlib and needs dac_override
allow polaris_dyncfg_t self:capability dac_override;
polaris_flashlib_read(polaris_dyncfg_t)

# LOOK AT ME on quake even rommon var read operation needs write access
# i.e flashutil -c getvar -N MODEL_NUM does open with O_RDWR
ifdef(`quake_platform','
polaris_flashlib_write(polaris_dyncfg_t)
')

# In chassisAttrs.lua method THIS.WIRELESS checks whether wireless package is installed
# by opening (why open, not stat) wncmgrd binary.
optional_policy(
  gen_require(
    type polaris_wncmgrd_exec_t;
  )
  read_files_pattern(polaris_dyncfg_t, bin_t, polaris_wncmgrd_exec_t)
)

# lua/cyan/wlc_chassisAttrs.lua needs to read /bootflash/rommon-vars file on wlc
ifdef(`wlc_family',
')
polaris_bootflash_read(polaris_dyncfg_t)

# lua/cyan/vwlc_chassis_attrs.lua needs to read /boot/vcpu_template file on vwlc
ifdef(`wlc_family',`
    polaris_disk_varied_read(polaris_dyncfg_t)
')

# on macallan passport SUP card idprom is in act2 chip.
# hw_passport_read_midplane_idprom invoked from cyan_init
# reads /dev/act2 device.
ifdef(`ngwc_family',`
    polaris_act2_dev_use(polaris_dyncfg_t)
')

ifdef(`passport_platform',`
   .isDefined(`ngwc_family',`
        polaris_install_tmp_log_write(polaris_dyncfg_t)
    )

    # /dev/ttyS0 access
    polaris_aikido_dev_use(polaris_dyncfg_t)

    gen_require(`
        type rsync_t;
    ')

    rsync_entry_domtrans(polaris_dyncfg_t, rsync_t)
    corenet_tcp_connect_rsync_port(polaris_dyncfg_t)

    ifdef(`sumatra_platform',`
        # LOOK AT ME: After direct usage of /dev/mem is removed (CSCvw80796)
        # /dev/mem
        polaris_dev_mem_use(polaris_dyncfg_t)
    )

    # For Cabo, allow for stronger permissions to access env_var
    ifdef(`cabo_platform',`
        polaris_proc_rmonbifo_read(polaris_dyncfg_t)
    ')
# For Cabo, also allow access to i2c-0
ifdef('cabo_platform',
  polaris_i2c_use(polaris_dyncfg_t)
')

# /dev/i2c-0 access
ifdef('petra_platform',
  polaris_i2c_use(polaris_dyncfg_t)
')

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscyan.te

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#
# August 2017, Victor Kamensky
#
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#

policy_module(polarisflashcheck, 1.0);

gen_require('  
  type polaris_flashcheck_t;
')

# allow read of /etc/passwd
auth_use_nsswitch(polaris_flashcheck_t)
corecmd_exec_bin(polaris_flashcheck_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_flashcheck_t)

# uses pidof
domain_read_all_domains_state(polaris_flashcheck_t)
dev_read_sysfs(polaris_flashcheck_t)

# df on "/" needs fs_t:filesystem getattr
fs_getattr_xattr_fs(polaris_flashcheck_t)
polaris_btrace_data_manage(polaris_flashcheck_t)
polaris_chasfs_manage(polaris_flashcheck_t)
polaris_cpld_read(polaris_flashcheck_t)
polaris_read_debug_conf(polaris_flashcheck_t)
polaris_boot_tmp_read(polaris_flashcheck_t)

logging_send_syslog_msg(polaris_flashcheck_t)

# directly output to /dev/ttyS0
term_use_unallocated_ttys(polaris_flashcheck_t)

polaris_bootflash_read(polaris_flashcheck_t)

allow polaris_flashcheck_t self:capability { sys_resource dac_override };

# pidof needs below
allow polaris_flashcheck_t self:capability sys_ptrace;

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_flashcheck_t)

# access of crashinfo dir for flash_check.sh, it does source of pglobals.sh
# which needs acces to /crashinfo
polaris_disk_crashinfo_getattr(polaris_flashcheck_t)

# this is for NFS access mounted in a dir of ncd context
optional_policy(''
    polaris_ncd_tmp_read(polaris_flashcheck_t)
')

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisflashcheck.te
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#

## <summary>Polaris caf Policy Rules.</summary>
###<summary>Polaris caf Policy Rules.</summary>

# Read /bootflash/iox/ files or harddisk IOX files
###<param name="domain">Domain allowed access.
### </param>
### </summary>
# interface('polaris_iox_files_read',
  gen_require(
    type polaris_iox_files_t;
    type polaris_disk_bootflash_t;
    type polaris_disk_harddisk_t;
    type polaris_iox_shared_files_t;
    type polaris_iox_alt_hdd_files_t;
  )
)

read_files_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t)
list_dirs_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t)
allow $1 polaris_iox_files_t:file map;
')

########################################################################
## <summary>
##      Manage /bootflash/iox/ files or harddisk IOX files
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
## <rolebase/>
#
interface('polaris_iox_files_manage',
  gen_require(
    type polaris_iox_files_t;
    type polaris_disk_bootflash_t;
    type polaris_disk_harddisk_t;
    type polaris_iox_shared_files_t;
    type polaris_iox_alt_hdd_files_t;
  )
)

manage_files_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t)
manage_dirs_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t)
manage_lnk_files_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t)
allow $1 polaris_iox_files_t:file map;
')
## <summary>
##      List /bootflash/iox/ dir or hardisk IOX dir
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
#
interface(`polaris_iox_dir_list',`
  gen_require(`
    type polaris_iox_files_t;
    type polaris_disk_bootflash_t;
    type polaris_disk_harddisk_t;
    type httpd_var_run_t;
    type polaris_caf_var_run_t;
    type polaris_iox_shared_files_t;
    type polaris_iox_alt_hdd_files_t;
  `)

  list_dirs_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t)
  list_dirs_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, httpd_var_run_t)
  list_dirs_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, polaris_caf_var_run_t)
`)

## <summary>
##      Search /bootflash/iox/ dir or hardisk IOX
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
#
interface(`polaris_iox_dir_search',`
  gen_require(`
    type polaris_iox_files_t;
    type polaris_iox_shared_files_t;
  `)

  search_dirs_pattern($1, polaris_iox_files_t, polaris_iox_files_t)
`)

### <summary>
### Read files like /guestshell/guestshell_set_netns.sh
### </summary>
### <param name="domain">
### Domain allowed access.
### </summary>
#
#
interface('polaris_guestshell_files_read',`
  gen_require(`
    type polaris_guestshell_t;
    type polaris_iox_shared_files_t;
  `)

read_files_pattern($1, { polaris_guestshell_t polaris_iox_shared_files_t }, polaris_guestshell_t)
read_lnk_files_pattern($1, { polaris_guestshell_t polaris_iox_shared_files_t }, polaris_guestshell_t)
`)

### <summary>
### Execute files with polaris_guestshell_exec_t type
### </summary>
### <param name="domain">
### Domain allowed access.
### </summary>
#
#
interface('polaris_guestshell_exec_files_exec',`
  gen_require(`
    type polaris_guestshell_exec_t;
  `)

exec_files_pattern($1, polaris_guestshell_exec_t, polaris_guestshell_exec_t)
`)

### <summary>
### Manage /var/run/netns/guestshell files
### </summary>
### <param name="domain">
### Domain allowed access.
### </summary>
interface(`polaris_guestshell_var_run_files_manage',`
    gen_require(`
        type polaris_guestshell_var_run_t;
        type var_run_t;
    `)
    manage_files_pattern($1, { polaris_guestshell_var_run_t var_run_t }, polaris_guestshell_var_run_t)
    manage_dirs_pattern($1, { polaris_guestshell_var_run_t var_run_t }, polaris_guestshell_var_run_t)
`)

# # <summary>
# Read CAF tmp files
# </summary>
# <param name="domain">
# Domain allowed access.
# </param>
#
interface(`polaris_caf_tmp_files_read',`
    gen_require(`
        type polaris_caf_tmp_files_t;
    `)
    read_files_pattern($1, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
    read_lnk_files_pattern($1, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
    list_dirs_pattern($1, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
`)

# # <summary>
# Manage CAF tmp files
# </summary>
# <param name="domain">
# Domain allowed access.
# </param>
#
interface(`polaris_caf_tmp_files_manage',`
    gen_require(`
        type polaris_caf_tmp_files_t;
    `)
    manage_files_pattern($1, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
    manage_dirs_pattern($1, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
 })

######################################
## <summary>
##      Getattr CAF tmp files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_caf_tmp_files_getattr',`
   gen_require(
   type polaris_caf_tmp_files_t;
   ')')

getattrs_files_pattern($1, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)

######################################
## <summary>
##      Read CAF files. Typically at /opt/cisco/caf/
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_caf_files_read',`
   gen_require(
   type polaris_caf_files_t;
   ')')

read_files_pattern($1, polaris_caf_files_t, polaris_caf_files_t)
read_lnk_files_pattern($1, polaris_caf_files_t, polaris_caf_files_t)
list_dirs_pattern($1, polaris_caf_files_t, polaris_caf_files_t)

#######################################
## <summary>
##      Manage .../guestshell/rootfs_mnt/cisco/cisco_cli/
## This files are used to communicate between guestshell container
## iosd, and shell_exec.sh
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
interface('polaris_caf_var_run_files_manage',
optional_policy('  
  gen_require(
    type polaris_caf_var_run_t;
  )

  manage_files_pattern($1, polaris_caf_var_run_t, polaris_caf_var_run_t)
  manage_dirs_pattern($1, polaris_caf_var_run_t, polaris_caf_var_run_t)
  )
)

interface('polaris_guestshell_key_read',

gen_require(
    type etc_t;
    type polaris_guestshell_ssh_key_t;
  )

  read_files_pattern($1, etc_t, polaris_guestshell_ssh_key_t)
  )

interface('polaris_caf_local_core_files_manage',
optional_policy('
gen_require(
    type polaris_caf_core_files_t;
')

manage_files_pattern($1, polaris_caf_core_files_t, polaris_caf_core_files_t)
manage_dirs_pattern($1, polaris_caf_core_files_t, polaris_caf_core_files_t)
manage_lnk_files_pattern($1, polaris_caf_core_files_t, polaris_caf_core_files_t)
')
')

#############################################################
## <summary>
##      Manage /mnt/sd3/iox_alt_hdd.dsk and
##      /mnt/sd3/iox_alt_hdd_mount_dir
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface(`polaris_iox_alt_hdd_manage',`
optional_policy(
    gen_require(
        type polaris_disk_bootflash_t;
        type polaris_disk_harddisk_t;
        type polaris_iox_alt_hdd_files_t;
    ')

manage_files_pattern($1, polaris_iox_alt_hdd_files_t, polaris_iox_alt_hdd_files_t)
manage_dirs_pattern($1, polaris_iox_alt_hdd_files_t, polaris_iox_alt_hdd_files_t)
')
')

#############################################################
## <summary>
##      Getattr alternate harddisk files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_iox_alt_hdd_getattr',`
gen_require(
    type polaris_iox_alt_hdd_files_t;
allow $1 polaris_iox_alt_hdd_files_t:filesystem getattr;
'}

'***********************************************************************
## <summary>
## Manage tty device link files. Typically at /dev/
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_caf tty lnk manage',`
    gen_require(`
        type polaris_caf tty file_t;
    ')

    create_lnk_files_pattern($1, polaris_caf tty file_t, polaris_caf tty file_t)
    read_lnk_files_pattern($1, polaris_caf tty file_t, polaris_caf tty file_t)
    delete_lnk_files_pattern($1, polaris_caf tty file_t, polaris_caf tty file_t)
')

'***********************************************************************
## <summary>
## Manage tty device chr files.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_caf chr file read',`
    gen_require(`
        type devpts_t;
    ')

    setattr chr files_pattern($1, devpts_t, devpts_t)
    read chr files_pattern($1, devpts_t, devpts_t)
')

'***********************************************************************
## <summary>
## Execute caf in the polaris caf domain.
## </summary>


## <param name="domain">
##	<summary>
##	Domain allowed to transition.
##</summary>
## </param>
#
interface('polaris_caf_domtrans',
    gen_require(
        type polaris_caf_t, polaris_caf_exec_t;
    '))

domtrans_pattern($1, polaris_caf_exec_t, polaris_caf_t)
')

######################################
## <summary>
##      Provide process signal perms.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_caf_proc_signal_perms',
    gen_require(
        type polaris_caf_t;
    ')

    allow $1 polaris_caf_t:process sigkill;
')

####################################
## <summary>
##      Write/read /tmp/ioxss_up file
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_ioxss_rp_tmp_manage',
    gen_require(
        type polaris_ioxss_rp_tmp_t;
    ')

    manage_files_pattern($1,{polaris_ioxss_rp_tmp_t }, polaris_ioxss rp_tmp_t)
/**
   *
   * Getattr of iosd_portal_app_lipc socket file
   */

interface(`polaris_iosd_portal_app_lipc_getattr',
    gen_require(
      type polaris_iosd_portal_app_lipc_t;
    )
    getattr_sock_files_pattern($1, polaris_iosd_portal_app_lipc_t, polaris_iosd_portal_app_lipc_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscraf.if
  No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

/usr/cpp/bin/cpp_cp_svr -- gen_context(system_u:object_r:polaris_cpp_cp_exec_t,s0)
/usr/cpp/bin/cpp_cp_svr_ledp -- gen_context(system_u:object_r:polaris_cpp_cp_exec_t,s0)
/usr/cpp/bin/cpp_cp_svr_us_ledp -- gen_context(system_u:object_r:polaris_cpp_cp_exec_t,s0)
/usr/cpp/bin/cpp_cp_svr_vwlc -- gen_context(system_u:object_r:polaris_cpp_cp_exec_t,s0)
/usr/cpp/bin/cpp_cp_svr_vwlc_ledp -- gen_context(system_u:object_r:polaris_cpp_cp_exec_t,s0)
/usr/binos/conf/geo_ipv4_db -- gen_context(system_u:object_r:polaris_geodb_files_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppcp.fc
  No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
# polarisnifmgmgr file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnifmgr.fc
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# November 2017, Victor Kamensky
#
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#

type polaris_gnmib_t;

polaris_btrace_data_manage(polaris_gnmib_t)
polaris_crft_data_manage(polaris_gnmib_t)
polaris_chasfs_manage(polaris_gnmib_t)
polaris_tdlresolve_read(polaris_gnmib_t)
polaris_tdlldb_list_dirs(polaris_gnmib_t)
polaris_cpld_read(polaris_gnmib_t)
polaris_lua_read(polaris_gnmib_t)
polaris_flashlib_read(polaris_gnmib_t)

polaris_db_tdlldb_dir_use(polaris_gnmib_t)

optional_policy(
    # deals with /dev/shm/confd setup (schema and pid)
    polaris_confds_shm_setup(polaris_gnmib_t)
    # and allow read shared schema
    polaris_confds_shared_schema_read(polaris_gnmib_t)
    # from evconfd_dynamic_load
    polaris_confds_shared_schema_watch(polaris_gnmib_t)
    # read /proc/confd_pid/exe file
    polaris_confds_read(polaris_gnmib_t)
    )

allow polaris_gnmib_t self:capability dac_override;

logging_send_syslog_msg(polaris_gnmib_t)

# create ndbutil directory under /var/lock
polaris_confds_ndbutil_create(polaris_gnmib_t)
polaris_ndbutil_lock_template(polaris_gnmib_t, gnmib, ".l.schema_use.gnmib")

# grpc library through sysconf accesses /sys/devices/system/cpu
# to get number of CPUs
dev_read_sysfs(polaris_gnmib_t)

# gnmib uses multiple (configurable) tcp ports for secure and insecure mode
corennet_tcp_bind_generic_port(polaris_gnmib_t)
allow polaris_gnmib_t self:tcp_socket { shutdown };
corennet_tcp_connect_all_ports(polaris_gnmib_t)

# iosp_token_read_from_file reads /tmp/rp/iosp_gnmib
polaris_gnmib_token_read(polaris_gnmib_t)

# gnmib creates /var/tmp/gnmib.pid
type polaris_gnmib_var_t;
files_tmp_file(polaris_gnmib_var_t);
files_tmp_filetrans(polaris_gnmib_t, polaris_gnmib_var_t, file, "gnmib.pid");
manage_files_pattern(polaris_gnmib_t, polaris_gnmib_var_t, polaris_gnmib_var_t)
manage_dirs_pattern(polaris_gnmib_t, polaris_gnmib_var_t, polaris_gnmib_var_t)
manage_lnk_files_pattern(polaris_gnmib_t, polaris_gnmib_var_t, polaris_gnmib_var_t)

# read access to /dev/random
dev_read_rand(polaris_gnmib_t)

kernel_read_net_sysctls(polaris_gnmib_t)

type polaris_gnmib_gnoi_images_t;
files_type(polaris_gnmib_gnoi_images_t);
polaris_bootflash_filetrans(polaris_gnmib_t, polaris_gnmib_gnoi_images_t, file,);)
manage_files_pattern(polaris_gnmib_t, polaris_disk_bootflash_t, polaris_gnmib_gnoi_images_t)

# need to execute install engine scripts
polaris_install_engine_domtrans(polaris_gnmib_t)

# need access to shell to execute install scripts
corecmd_exec_shell(polaris_gnmib_t)
corecmd_exec_bin(polaris_gnmib_t)

# install script needs rmonbifo
polaris_rmonbifo_tmp_read(polaris_gnmib_t)

# not sure why this is needed
auth_map_passwd(polaris_gnmib_t)

# DB persistence
polaris_tlddbpersist_setup(polaris_gnmib_t)
polaris_tmp_tdl.db.persistent_setup(polaris_gnmib_t)

allow polaris_gnmib_t self:capability sys_resource;

# needed to fstat and check space when transferring image for os.proto install rpc
fs_getattr_xattr_fs(polaris_gnmib_t)

# needed by gnmib ui because uipeer heartbeat timer accesses TDL epoch files
polaris_issu_tmp_files_read(polaris_gnmib_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux.tar/selinux/polarisgnmib.te
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#
# October 2019, Patrick O'Halloran
#
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#

/usr/bin/os/conf/mcp_crft_request.sh -- gen_context(system_u:object_r:polaris_crft_request_exec_t,s0)

#NGWC - nyquist, edison, bigbang
/mnt/sd3/user/.CRFT(/.*)?     gen_context(system_u:object_r:polaris_crft_data_t,s0)
/mnt/sd3/user/.CRFT/[0-9]*(/.*)?   gen_context(system_u:object_r:polaris_crft_data_t,s0)
/mnt/sd3/user/.CRFT/archive(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)

#NGWC - macallan, starfleet
/flash1/user/.CRFT(/.*)?     gen_context(system_u:object_r:polaris_crft_data_t,s0)
/flash1/user/.CRFT/[0-9]*(/.*)?   gen_context(system_u:object_r:polaris_crft_data_t,s0)
/flash1/user/.CRFT/archive(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)

#MCP, QWLC
/vol/harddisk/.CRFT(/.*)?     gen_context(system_u:object_r:polaris_crft_data_t,s0)
/vol/harddisk/.CRFT/[0-9]*(/.*)?   gen_context(system_u:object_r:polaris_crft_data_t,s0)
/vol/harddisk/.CRFT/archive(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)

#VXE, WLC, CRANKSHAFT, MCP
/bootflash/.CRFT(/.*)?     gen_context(system_u:object_r:polaris_crft_data_t,s0)
/bootflash/.CRFT/[0-9]*(/.*)?   gen_context(system_u:object_r:polaris_crft_data_t,s0)
/bootflash/.CRFT/archive(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)

#CRANKSHAFT - blackheart, sparrow
/flash1/.CRFT(/.*)?     gen_context(system_u:object_r:polaris_crft_data_t,s0)
/flash1/.CRFT/[0-9]*(/.*)?   gen_context(system_u:object_r:polaris_crft_data_t,s0)
/flash1/.CRFT/archive(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)
PETRA - petra

USER is a reserved selinux keyword - escape it like this

```
flash10/USE[R]/.CRFT(/.*)? gen_context(system_u:object_r:polaris_crft_data_t,s0)
flash10/USE[R]/.CRFT/[0-9]*(/.*)? gen_context(system_u:object_r:polaris_crft_data_t,s0)
flash10/USE[R]/.CRFT/archive(/.*)? gen_context(system_u:object_r:polaris_crft_data_t,s0)
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscrft.fc
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March 2017, Victor Kamensky

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# polariscmm file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmm.fc
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July 2017, Victor Kamensky

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```c

## <summary>Polaris install Policy Rules.</summary>

########################################
##
## Read polaris_sw_data_t, effectively path to read polaris base image packages
##
## <summary>
##
## <param name="domain">
##
## <summary>
##
## Domain allowed access.
##<summary>
##
## <param>
##
## interface('polaris_sw_data_read',
##
## gen_require(
##
## type polaris_sw_data_t;

```
read_files_pattern($1, { tmp_t polaris_sw_data_t }, polaris_sw_data_t)
read_lnk_files_pattern($1, { tmp_t polaris_sw_data_t }, polaris_sw_data_t)
list_dirs_pattern($1, { tmp_t polaris_sw_data_t }, polaris_sw_data_t)
')

#########################################################################
## <summary>
## Map polaris_sw_data_t, effectively path to map polaris
## # base image packages
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_sw_data_map',
  gen_require(
    type polaris_sw_data_t;
  ')
  allow $1 polaris_sw_data_t:file map;
')

#########################################################################
## <summary>
## Manage polaris_sw_data_t, effectively path to set up polaris
## # base image packages house holding
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_sw_data_manage',
  gen_require(
    type polaris_sw_data_t;
    type tmp_t;
  ')
  manage_files_pattern($1, { tmp_t polaris_sw_data_t }, polaris_sw_data_t)
  manage_lnk_files_pattern($1, { tmp_t polaris_sw_data_t }, polaris_sw_data_t)
  manage_dirs_pattern($1, { tmp_t polaris_sw_data_t }, polaris_sw_data_t)
  allow $1 polaris_sw_data_t:dir mounton;
')

#########################################################################
## Read polaris_patch_data_t, effectively path to read polaris
## smu patch or optional packages
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_patch_data_read`,
gen_require(`
type polaris_patch_data_t;
    type tmp_t;
`)
read_files_pattern($1, { tmp_t polaris_patch_data_t }, polaris_patch_data_t)
read_lnk_files_pattern($1, { tmp_t polaris_patch_data_t }, polaris_patch_data_t)
list_dirs_pattern($1, { tmp_t polaris_patch_data_t }, polaris_patch_data_t)
`)

## Manage polaris_patch_data_t, effectively path to set up polaris
## smu patch or optional packages house holding
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_patch_data_manage`,
gen_require(`
type polaris_patch_data_t;
    type tmp_t;
`)
manage_files_pattern($1, { tmp_t polaris_patch_data_t }, polaris_patch_data_t)
manage_lnk_files_pattern($1, { tmp_t polaris_patch_data_t }, polaris_patch_data_t)
manage_dirs_pattern($1, { tmp_t polaris_patch_data_t }, polaris_patch_data_t)
`)

## Watch patch_data directories
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
interface('polaris_patch_data_watch',
    gen_require(''
        type polaris_patch_data_t;
    ')
    allow $1 polaris_patch_data_t:dir watch;
')

### <summary>
## Write into tmp files created by install_show.sh
### </summary>
### <param name="domain">
### <summary>
## Domain allowed to transition.
### </summary>
### </param>
#
interface('polaris_install_show_tmp_write',
    gen_require(''
        type polaris_install_show_tmp_t;
        type tmp_t;
    ')
    write_files_pattern($1, { tmp_t polaris_install_show_tmp_t }, polaris_install_show_tmp_t)
')

### <summary>
## Read tmp files created by install_show.sh
### </summary>
### <param name="domain">
### <summary>
## Domain allowed to transition.
### </summary>
### </param>
#
interface('polaris_install_show_tmp_read',
    gen_require(''
        type polaris_install_show_tmp_t;
        type tmp_t;
    ')
    read_files_pattern($1, { tmp_t polaris_install_show_tmp_t }, polaris_install_show_tmp_t)
')
## <summary>
##      Manage tmp installer files and directories  
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.  
## </summary>
## </param>
#
interface(`polaris_install_show_tmp_manage',`
  gen_require(`
  type polaris_install_show_tmp_t;
  `)
  manage_dirs_pattern($1, polaris_install_show_tmp_t, polaris_install_show_tmp_t)
  manage_files_pattern($1, polaris_install_show_tmp_t, polaris_install_show_tmp_t)
  manage_lnk_files_pattern($1, polaris_install_show_tmp_t, polaris_install_show_tmp_t)
  `)

#######################################
## <summary>
##      Manage /bootflash/.issu_loc_lock files  
## TODO: provfunc.sh and hman have reference to /bootflash/$ISSU_LOCAL_LOCK_FILE.  
##       For now, I am keeping manage_dirs_pattern for polaris_disk_bootflash_t.  
##       Need to re-visit so that callers to this macro do not have write-permission  
##       to all of bootflash. .  
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.  
## </summary>
## </param>
## <rolebase/>
#
interface(`polaris_issu_files_manage',`
  gen_require(`
  type polaris_issu_files_t;
  type polaris_disk_bootflash_t;
  `)
  filetrans_pattern($1, polaris_disk_bootflash_t, polaris_issu_files_t, file, ".issu_loc_lock")
  manage_files_pattern($1, polaris_issu_files_t, polaris_issu_files_t)
  manage_dirs_pattern($1, polaris_disk_bootflash_t, polaris_issu_files_t)
  `)

########################################
## <summary>
##	Manage ISSU tmp files, allowing to record and  
## check upgrade progress

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## <summary>
## Domain allowed access.
## </summary>
##
#
interface('polaris_issu_tmp_files_manage',
  gen_require(''
    type polaris_issu_tmp_files_t;
    type tmp_t;
  ')
  manage_files_pattern($1, { tmp_t polaris_issu_tmp_files_t }, polaris_issu_tmp_files_t)
  manage_lnk_files_pattern($1, { tmp_t polaris_issu_tmp_files_t }, polaris_issu_tmp_files_t)
  manage_dirs_pattern($1, { tmp_t polaris_issu_tmp_files_t }, polaris_issu_tmp_files_t)
')

#######################################
## <summary>
## Write/read any regular file/directory from /bootflash/.install
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_disk_install_manage',
  gen_require(''
    type polaris_disk_install_t;
  ')
  manage_dirs_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
  manage_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
  manage_lnk_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
  allow $1 polaris_disk_install_t:dir watch;
')

#######################################
## <summary>
## Read any regular file/directory from /bootflash/.install
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_disk_install_read',

gen_require(
    type polaris_disk_install_t;
)

search_dirs_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
read_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
read_lnk_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
allow $1 polaris_disk_install_t:dir {watch read};
)

##########################################################
## <summary>
##      Get attributes of any regular file/directory from /bootflash/install
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_disk_install_fs_getattr',
    gen_require(
        type polaris_disk_install_t;
    )
    allow $1 polaris_disk_install_t:filesystem getattr;
    )

##########################################################
## <summary>
##      Manage /tmp/installer files and directories
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_install_tmp_manage',
    gen_require(
        type polaris_install_tmp_t;
    )
    manage_dirs_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
manage_files_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
manage_lnk_files_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
manage_fifo_files_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
    )

##########################################################
## <summary>
## Read /tmp/installer files and directories
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
# interface('polaris_install_tmp_read',
  gen_require('type polaris_install_tmp_t;
')
  list_dirs_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
  read_files_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
  read_lnk_files_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
  allow $1 polaris_install_tmp_t:dir watch;
  allow $1 polaris_install_tmp_t:file map;
')

# Execute install related scripts in its own domain.
# </summary>
# <param name="domain">
# <summary>
# Domain allowed to transition.
# </summary>
# </param>
#
# interface('polaris_install_engine_domtrans',
  gen_require('type polaris_install_engine_t, polaris_install_engine_exec_t;
')
  domtrans_pattern($1, polaris_install_engine_exec_t, polaris_install_engine_t)
')

# Write into tmp log files created by install engine
# </summary>
# <param name="domain">
# <summary>
# Domain allowed to transition.
# </summary>
# </param>
#
# interface('polaris_install_tmp_log_write',

gen_require('type polaris_install_tmp_log_t;
')
write_files_pattern($1, polaris_install_tmp_log_t, polaris_install_tmp_log_t)
')

#######################################
## <summary>
##      Execute install selinux related scripts in its own domain.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
# interface('polaris_install_selinux_domtrans',
#
#      gen_require('type polaris_install_selinux_t, polaris_install_selinux_exec_t;
# )
#
domtrans_pattern($1, polaris_install_selinux_exec_t, polaris_install_selinux_t)
')

#######################################
## <summary>
##      Execute wireless install related scripts in its own domain.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
# interface('polaris_install_wireless_domtrans',
#
#      gen_require('type polaris_install_wireless_t, polaris_install_wireless_exec_t;
# )
#
domtrans_pattern($1, polaris_install_wireless_exec_t, polaris_install_wireless_t)
')

#######################################
## <summary>
##      Execute install show scripts in its own domain.
## </summary>
## <param name="domain">
##      <summary>
## Domain allowed to transition.

```c
interface('polaris_install_show_domtrans',
  gen_require(''
    type polaris_install_show_t, polaris_install_show_exec_t;
  ')
)

domtrans_pattern($1, polaris_install_show_exec_t, polaris_install_show_t)
')
```

### Allow the specified domain to manage KGV data files

I.e. under /tmp/pkg_cs_debug created by function verify_pkg

```c
interface('polaris_pkg_cs_debug_manage',
  gen_require(''
    type polaris_pkg_cs_debug_t;
  ')
)

globall_files($1, polaris_pkg_cs_debug_t, dir, "pkg_cs_debug")
fs_tmpfs_filetrans($1, polaris_pkg_cs_debug_t, dir, "pkg_cs_debug")
manage_dirs_pattern($1, polaris_pkg_cs_debug_t, polaris_pkg_cs_debug_t)
manage_files_pattern($1, polaris_pkg_cs_debug_t, polaris_pkg_cs_debug_t)
')
```

### Manage /file which is generated on "flock -u file /tmp/sysctrl_i2c.lck"

```c
interface('polaris_i2c_lock_file_manage',
  gen_require(''
    type polaris_i2c_lock_file_t;
  ')
)

flock_filetrans($1, polaris_i2c_lock_file_t, dir, "i2c.lock")
')
```
manage_dirs_pattern($1, polaris_i2c_lock_file_t, polaris_i2c_lock_file_t)
manage_files_pattern($1, polaris_i2c_lock_file_t, polaris_i2c_lock_file_t)
')

##########################################################################
## <summary>
## write /tmp/installer files and directories
## </summary>
## <param name="domain">
## <summary>
## Domain allowed to transition.
## </summary>
## </param>
#
# interface('polaris_install_tmp_write',
  gen_require('
    type polaris_install_tmp_t;
  ')
  write_files_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
  allow $1 polaris_install_tmp_t:dir watch;
')

##########################################################################
## <summary>
## Read/Write /.images files and directories
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
# interface('polaris_install_images_manage',
  gen_require('
    type polaris_install_images_t;
  ')
  manage_dirs_pattern($1, polaris_install_images_t, polaris_install_images_t)
  manage_files_pattern($1, polaris_install_images_t, polaris_install_images_t)
')

##########################################################################
## <summary>
## Read ISSU tmp files
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
# 

interface(`polaris_issu_tmp_files_read',

`gen_require(`
  type polaris_issu_tmp_files_t;
  type tmp_t;
`)'

  list_dirs_pattern($1, { tmp_t polaris_issu_tmp_files_t }, polaris_issu_tmp_files_t)
  read_files_pattern($1, { tmp_t polaris_issu_tmp_files_t }, polaris_issu_tmp_files_t)
  read_link_files_pattern($1, { tmp_t polaris_issu_tmp_files_t }, polaris_issu_tmp_files_t)
  allow $1 polaris_issu_tmp_files_t:file map;
`)'

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisinstall.if
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
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#

policy_module(polarisodm, 1.0);

gen_require(`
  type polaris_odm_t;
`)'

polaris_btrace_data_manage(polaris_odm_t)
polaris_crft_data_manage(polaris_odm_t)
polaris_chasfsmanage(polaris_odm_t)
polaris_tdlresolve_read(polaris_odm_t)
polaris_tdlldb_list_dirs(polaris_odm_t)
polaris_cpld_read(polaris_odm_t)
polaris_lua_read(polaris_odm_t)
polaris_flashlib_read(polaris_odm_t)
polaris_ripc_sman_ui_serv_connect(polaris_odm_t)
polaris_db_tdlldb_dir_use(polaris_odm_t)

# allow setrlimit
allow polaris_odm_t self:capability sys_resource;
allow polaris_odm_t self:process setrlimit;
allow polaris_odm_t self:capability dac_override;
# odm_srv2clnt_data uses subdirectory for channels needs explicit rule
# to allow it. ODM elastic value is 2 now, add more if need in the
# future.
gen_require(''
    type polaris_odm_server2client_data_mqipc_t;
');
polaris_mqipc_create_name_dir(polaris_odm_t, polaris_odm_server2client_data_mqipc_t, odm_srv2clnt_data-b1)
polaris_mqipc_create_name_dir(polaris_odm_t, polaris_odm_server2client_data_mqipc_t, odm_srv2clnt_data-b0)
polaris_mqipc_create_name_dir(polaris_odm_t, polaris_odm_server2client_data_mqipc_t, odm_srv2clnt_data)
logging_send_syslog_msg(polaris_odm_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisodm.te
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky
# # Copyright (c) 2016-2019 by Cisco Systems, Inc.
# # All rights reserved
#
## <summary>Polaris polarisreflector Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisreflector.if
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# # June 2017, Victor Kamensky
# # Copyright (c) 2017-2021 by Cisco Systems, Inc.
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#
policy_module(polariscontainer, 1.0);

# polaris_default_container_t type for not labeled container
polaris_container_domain_template(default)

# polaris_utd_container_t type for snort container
polaris_container_domain_template(utd)
polaris_utd_container(polaris_utd_container_t)

# polaris_utdl_container_t type for snort container, that has
# legacy configuration, need more permissions
polaris_container_domain_template(utdl)
polaris_utdl_container(polaris_utdl_container_t)

# manage /tmp/xml/* dirs
polaris_vman_log_files_manage(polaris_utdl_container_t)
optional_policy(
    polaris_cedge_xml_tmp_manage(polaris_utdl_container_t)
)

allow polaris_utdl_container_t ramfs_t:file map;
polaris_iox_container_watch(polaris_utdl_container_t)

# work with memif
optional_policy(
    polaris_qfp_dgram_send(polaris_utdl_container_t)
)

# creates /tmp/HTX-IOX/sw-htx-service
optional_policy(
    polaris_htx_iox_tmp_manage(polaris_utdl_container_t)
)
optional_policy(
    polaris_htx_use_client_socket(polaris_utdl_container_t)
)

# allow container to work with /tmp/binos-IOX
optional_policy(
    polaris_qfp_memif_manage(polaris_utdl_container_t)
)

# snort works with /dev/shm/SPO_DAQ_MMAP_OBJ_
fs_exec_tmpfs_files(polaris_utdl_container_t)

# allow container to work with /tmp/xml/* files
optional_policy(
    polaris_vman_tmp_manage(polaris_utdl_container_t)
)

gen_require(
    type container_file_t;
)
polaris_disk_type(container_file_t)

# legacy utd (snort) container in /etc/init.d/rc.local does unconditional
# mount of ramfs on /tmp/snortlogs
fs_mount_ramfs(polaris_utdl_container_t)
# legacy utd (snort) container in /etc/init.d/rc.local does unconditional
# mount of tmpfs on /dev/shm
fs_mount_tmpfs(polaris_utdl_container_t)
fs_manage_tmpfs_dirs(polaris_utdl_container_t)
fs_manage_tmpfs_files(polaris_utdl_container_t)
fs_manage_tmpfs_symlinks(polaris_utdl_container_t)

# Allow ramfs access to utd container
fs_manage_ramfs_dirs(polaris_utdl_container_t)
fs_manage_ramfs_files(polaris_utdl_container_t)

# Allow link file access from cron to crond
kernel_read_state(polaris_utdl_container_t)

# Allow Snort
allow polaris_utdl_container_t self:packet_socket map;

# polaris_iox_container_t type for generic IOx containers
polaris_container_domain_template(iox)

fs_mount_tmpfs(polaris_iox_container_t)
fs_manage_tmpfs_dirs(polaris_iox_container_t)
fs_manage_tmpfs_files(polaris_iox_container_t)
fs_manage_tmpfs_symlinks(polaris_iox_container_t)
fs_manage_tmpfs_sockets(polaris_iox_container_t)

# fs_manage_tmpfs_fifo_files is missing
gen_require(''
type tmpfs_t;
')
manage_fifo_files_pattern(polaris_iox_container_t, tmpfs_t, tmpfs_t)
fs_mounton_tmpfs(polaris_iox_container_t)

# container systemd file mmaps tmpfs_t, i.e /usr/lib/systemd/systemd-journald
allow polaris_iox_container_t tmpfs_t:file map;

# container reads ip netns identity <pid>
fs_read_nsfs_files(polaris_iox_container_t)

# container systemd does remount of some file systems
gen_require(''
    type svirt_sandbox_file_t;
')
allow polaris_iox_container_t svirt_sandbox_file_t:filesystem { remount };

polaris_caf_var_run_files_manage(polaris_iox_container_t)
# permit access to /local core files between host and container
polaris_caf_local_core_files_manage(polaris_iox_container_t)

allow polaris_iox_container_t self:cap_users { chown dac_overide dac_read_search fsetid setgid setpcap setuid sys_admin sys_boot };

---

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gen_require('  
  type devpts_t;  
  type polaris_iox_container_t;  
  type container_runtime_t;  
  class fifo_file { getattr ioctl read write };  
  class chr_file { getattr ioctl open read setattr write };  
')

#============= polaris_iox_container_t ==============  
allow polaris_iox_container_t container_runtime_t:fifo_file { getattr setattr ioctl open read write };  
allow polaris_iox_container_t devpts_t:chr_file { getattr ioctl open read setattr write };  

# Normally lipc denials are addressed by code that is generated from TDL.  
# I.e if process need to access lipc service it just need to be listed as 'client' of proper TDL service.  
# If in this case iox_container process does not have its own TDL proc_def entry,  
# therefore we use autogenerated polaris_lipc_iosd_portal_app_write macro/interface.  
# Marking this policy optional, so that if platform TDL does not have proper service defined  
# then polaris_lipc_iosd_portal_app_write won't be generated, but container policy still would compile.  
optional_policy(  
  gen_require('  
    type polaris_iosd_t;  
  ')  
  polaris_lipc_iosd_portal_app_write(polaris_iox_container_t, polaris_iosd_t)  
)

docker_exec_lib(polaris_iox_container_t)  
fs_exec_hugetlbfs_files(polaris_iox_container_t)  
kernle_read_ring_buffer(polaris_iox_container_t)  
deve_read_sysfs(polaris_iox_container_t)  
polaris_iox_container_watch(polaris_iox_container_t)

# polaris_sdavc_container_t type for SDAVC container, that has  
# legacy configuration, need more permissions

polaris_container_domain_template(sdavc)  
polaris_utd_container(polaris_sdavc_container_t)

# manage /tmp/xml/{SDAVC*} dirs  
polaris_vman_log_files_manage(polaris_sdavc_container_t)

# legacy SDAVC containder in /etc/init.d/rc.local does unconditional  
# mount of tmpfs on /dev/shm  
fs_mount_tmpfs(polaris_sdavc_container_t)

# container systemd mounton tmpfs_t & tmpfs_st management  
fs_mounton_tmpfs(polaris_sdavc_container_t)  
fs_manage_tmpfsdirs(polaris_sdavc_container_t)
fs_manage_tmpfs_files(polaris_sdavc_container_t)
fs_manage_tmpfs_symlinks(polaris_sdavc_container_t)
fs_manage_tmpfs_sockets(polaris_sdavc_container_t)
manage_fifo_files_pattern(polaris_sdavc_container_t, tmpfs_t, tmpfs_t)
# container systemd file mmaps tmpfs_t, i.e /usr/lib/systemd/systemd-journald
allow polaris_sdavc_container_t tmpfs_t:file map;
# Add watch on tmpfs_t/container_t dir/files
polaris_iox_container_watch(polaris_sdavc_container_t)

# map/mount/write hugtlbfs files
gen_require(''
    type hugetlbfs_t;
')
allow polaris_sdavc_container_t hugetlbfs_t:filesystem mount;
allow polaris_sdavc_container_t hugetlbfs_t:file map;
fs_manage_hugetlbfs_dirs(polaris_sdavc_container_t)

# Allow syslog_mod operation on kernel_t
kernel_clear_ring_buffer(polaris_sdavc_container_t)

# Allow tcpdump
allow polaris_sdavc_container_t self:packet_socket map;
allow polaris_utdl_container_t self:packet_socket map;

# add in the docker files labels to polaris_disk_type
gen_require(''
    type container_var_lib_t;
    type container_share_t;
    type container_log_t;
')
polaris_disk_type(container_var_lib_t)
polaris_disk_type(container_share_t)
polaris_disk_type(container_log_t)

# polaris_waas_container_t type for WAAS KVM
polaris_kvm_domain_template(waas)

# Allow rw block files access to /dev/lvm_raid
storage_dontaudit_write_fixed_disk(polaris_waas_container_t)
storage_dontaudit_read_fixed_disk(polaris_waas_container_t)
# Manage hugetlbfs files/dirs
fs_manage_hugetlbfs_dirs(polaris_waas_container_t)
manage_files_pattern(polaris_waas_container_t, hugetlbfs_t, hugetlbfs_t)
fs_exec_hugetlbfs_files(polaris_waas_container_t)

#allow access of /dev/kvm device
dev_rw_kvm(polaris_waas_container_t)

#allow domain to search/write to virlogd_t
polaris_vman_virtlog_allow(polaris_waas_container_t)

# Allow for guest-share
gen_require(
    type polaris_iox_shared_files_t;
')
manage_files_pattern(polaris_iox_container_t, polaris_iox_shared_files_t, polaris_iox_shared_files_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscontainer.te
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# March 2017, Victor Kamensky
#
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#

## <summary>Polaris polarispvp Policy Rules.</summary>

########################################
## <summary>Execute a domain transition to run pvp.</summary>
## <param name="domain">
## Domain allowed to transition.
## </param>
#
interface('polaris_pvp_domtrans',
    gen_require(
        type polaris_pvp_t, polaris_pvp_exec_t;
    ') 
    domtrans_pattern($1, polaris_pvp_exec_t, polaris_pvp_t)
')

########################################
## <summary>Manage pvp temporary files and directories in /tmp.</summary>
## <param name="domain">
## <summary>
## Domain allowed access.

```c

interface(`polaris_pvp_manage_tmp_files',
    gen_require(
        type polaris_pvp_tmp_t;
    ')

    manage_files_pattern($1, polaris_pvp_tmp_t, polaris_pvp_tmp_t)
    manage_dirs_pattern($1, polaris_pvp_tmp_t, polaris_pvp_tmp_t)
    manage_fifo_files_pattern($1, polaris_pvp_tmp_t, polaris_pvp_tmp_t)
    ')

####################################################

## Getattr dirs pvp temporary files and directories in /tmp.

```
getattr_dirs_pattern($1, tmp_t, polaris_pvp_tmp_t)
')

########################################
## <summary>
##      Read from pvp stdin. Should be granted to scripts spawned
## from pvp with domain transition. pvp stdin (0) points to fifo
## file like /tmp/rp/pvp/work/inot_fifo
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_pvp_stdin_read',
    gen_require(
        type polaris_pvp_tmp_t;
    )
    read_fifo_files_pattern($1, polaris_pvp_tmp_t, polaris_pvp_tmp_t)
')

########################################
## <summary>
##      Read pvp temporary files and directories in /tmp.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_pvp_read_tmp_files',
    gen_require(
        type tmp_t;
        type polaris_pvp_tmp_t;
    )
    rw_files_pattern($1, { tmp_t polaris_pvp_tmp_t }, polaris_pvp_tmp_t)
')

########################################
## <summary>
##      Read pvp SAI files under
## /tmp/[rp|fp|cc/*]/pvp/sai_process.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_pvp_read_sai_files`,
  gen_require(
    type polaris_pvp_sai_t;
  )
  read_files_pattern($1, polaris_pvp_sai_t, polaris_pvp_sai_t)
  list_dirs_pattern($1, polaris_pvp_sai_t, polaris_pvp_sai_t)
  allow $1 polaris_pvp_sai_t:dir watch;
')

######################################
## <summary>
##      Delete pvp SAI dirs and files under /tmp/[rp|fp|cc/*]/pvp/sai_process.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_pvp_delete_sai_files`,
  gen_require(
    type polaris_pvp_sai_t;
  )
  allow $1 polaris_pvp_sai_t:dir { remove_name rmdir write };
  allow $1 polaris_pvp_sai_t:file unlink;
')

#######################################
## <summary>
##      Watch pvp process_state directories
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_process_state_watch`,
  gen_require(
    type polaris_process_state_t;
  )
  allow $1 polaris_process_state_t:dir;
allow $1 polaris_process_state_t:dir watch;
')

policy_module(polarisrmonbifo, 1.0);

# Polaris Rmonbifo Driver policy
#

# note polaris_proc_rmonbifo_t is defined in kernel/kernel.te, since genfscon
# statements could be only in base policy

type polaris_rmonbifo_tmp_t;
files_type(polaris_rmonbifo_tmp_t)

polaris_systemd_tmpfiles_tmp_filetrans(polaris_rmonbifo_tmp_t, dir, "rmonbifo")

/boomflash/sdavc(/.*)? gen_context(system_u:object_r:polaris_sdavc_proxy_files_t,s0)

/indexgen_perms(/.*)? gen_context(system_u:object_r:sdavc_perms_proxy_files_t,s0)

/boomflash/sdavc(/.*)? gen_context(system_u:object_r:sdavc_perms_proxy_files_t,s0)

')

allow $1 polaris_process_state_t:dir watch;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrmonbifo.if
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#
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#

policy_module(polarisrmonbifo, 1.0);

# Polaris Rmonbifo Driver policy
#

# note polaris_proc_rmonbifo_t is defined in kernel/kernel.te, since genfscon
# statements could be only in base policy

type polaris_rmonbifo_tmp_t;
files_type(polaris_rmonbifo_tmp_t)

polaris_systemd_tmpfiles_tmp_filetrans(polaris_rmonbifo_tmp_t, dir, "rmonbifo")

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrmonbifo.te
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#

/boomflash/sdavc(/.*)? gen_context(system_u:object_r:polaris_sdavc_proxy_files_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissdavcproxy.fc
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#

# polarisodm file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisodm.fc
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#

/usr/binos/conf/auto_upgrade_client.sh -- gen_context(system_u:object_r:polaris_autoupgrade_exec_t,s0)
/usr/binos/conf/auto_upgrade_helper.sh -- gen_context(system_u:object_r:polaris_autoupgrade_exec_t,s0)
/usr/binos/conf/auto_upgrade_trigger.sh -- gen_context(system_u:object_r:polaris_autoupgrade_exec_t,s0)
/usr/binos/conf/auto_upgrade_client_helper.sh -- gen_context(system_u:object_r:polaris_autoupgrade_exec_t,s0)
/tmp/etc/installer    gen_context(system_u:object_r:polaris_autoupgrade_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisautoupgrade.fc
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#

# polariswstatsd file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswstatsd.fc
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#
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#
/usr/binos/conf/bexecute.sh -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
/usr/binos/bin/bexecute -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)

# still exists for backward compatibility
/tmp/etc/bexecute -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
/usr/binos/conf/bexec.sh -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
/usr/binos/conf/brelay.sh -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
/usr/binos/bin/brelay -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
/usr/binos/conf/ioucon.sh -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
/usr/binos/conf/runin.sh -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
/usr/binos/conf/runon.sh -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
/usr/binos/conf/in.telnetd.sh -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
/usr/binos/conf/brelay_console.sh -- gen_context(system_u:object_r:polaris_bconsole_exec_t,s0)

# mcp_chvrf.sh used by some systemd units to switch vrf (ip namespace)
# of xinetd that drives brelay service
/usr/binos/conf/mcp_chvrf.sh -- gen_context(system_u:object_r:polaris_chvrf_exec_t,s0)

# used by "request platform software system shell" CLI
/usr/binos/conf/mcp_record_shell.sh -- gen_context(system_u:object_r:polaris_platform_shell_exec_t,s0)
/usr/binos/conf/mcp_shell.sh -- gen_context(system_u:object_r:polaris_shell_exec_t,s0)

# used by "sh pla so process memory r0 name iosd maps" CLI
/usr/binos/conf/mcp_process_maps.sh -- gen_context(system_u:object_r:polaris_process_maps_exec_t,s0)

# used by "req platform software console attach switch standby R0" CLI
/usr/binos/conf/mcp_console_attach.sh -- gen_context(system_u:object_r:polaris_mcp_console_attach_exec_t,s0)
/usr/binos/bin/ioucon -- gen_context(system_u:object_r:polaris_ioucon_exec_t,s0)

# ngio_module_session.sh used by "hw-module session" CLI
/usr/binos/conf/ngio_module_session.sh -- gen_context(system_u:object_r:polaris_ngio_module_session_exec_t,s0)

# used by "upgrade rom-monitor capsule primary switch 1 R0" CLI
/usr/binos/conf/cat9k-primary-capsule-upgrade.sh --
gen_context(system_u:object_r:polaris_capsule_upgrade_exec_t,s0)
/usr/binos/conf/cat9k-capsule-upgrade.sh --
gen_context(system_u:object_r:polaris_capsule_upgrade_exec_t,s0)

/mnt/sd3/user/capsule-upgrade.log -- gen_context(system_u:object_r:polaris_capsule_upgrade_log_t,s0)
/usr/binos/conf/mcp_dmesg_service.sh -- gen_context(system_u:object_r:polaris_mcp_dmesg_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbexecute.fc
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#
Open Source Used In Crosswork Platform Infrastructure cw-infra-opensource-4.3.0 16342

# August 2017, Shawn Lu
#
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#

## <summary>Polaris wncd Policy Rules.</summary>


### <summary>
### Read files under /mnt/images/...these are related to AccessPoint images
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>

```
interface('polaris_wlc_ap_images_read',
   gen_require(
      type polaris_wlc_ap_images_t;
   )

read_files_pattern($1, polaris_wlc_ap_images_t, polaris_wlc_ap_images_t)
read_lnk_files_pattern($1, polaris_wlc_ap_images_t, polaris_wlc_ap_images_t)
list_dirs_pattern($1, polaris_wlc_ap_images_t, polaris_wlc_ap_images_t)
allow $1 polaris_wlc_ap_images_t:file map;
')
```

### <summary>
### Manage files under /mnt/images/...these are related to AccessPoint images
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>

```
interface('polaris_wlc_ap_images_manage',
   gen_require(
      type polaris_wlc_ap_images_t;
      type mnt_t;
   )

manage_files_pattern($1, polaris_wlc_ap_images_t, polaris_wlc_ap_images_t)
manage_lnk_files_pattern($1, polaris_wlc_ap_images_t, polaris_wlc_ap_images_t)
manage_dirs_pattern($1, polaris_wlc_ap_images_t, polaris_wlc_ap_images_t)
```
# transition when /mnt/images is created
filetrans_pattern($1, mnt_t, polaris_wlc_ap_images_t, dir, "images")
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswncd.if
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#
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#

### <summary>Polaris esg_tam_cfg Policy Rules.</summary>

########################################
## <summary>
##      Getattr dirs pvp temporary directories in /tmp.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_tam_getattrs_tmp_dirs',
    gen_require(`
        type tmp_t;
        type polaris_tam_tmp_t;
    `)

    getattr_dirs_pattern($1, tmp_t, polaris_tam_tmp_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisesgtamcfg.if
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#
# March 2017, Victor Kamensky
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#

### <summary>Polaris MQIPC Policy Rules.</summary>
# Polaris mqipc (infra/mqipc)

## <summary>
Make specified domain as one of mqipc types.
</summary>

## <param name="domain">
The domain serving as polaris_mqipc type
</param>

```c
interface('polaris_mqipc_type',
    gen_require('attribute polaris_mqipc;
    ')
    typeattribute $1 polaris_mqipc;
files_type($1)
')
```

## <summary>
Manage mqipc shared memory file in /dev/shm directory
</summary>

## <param name="domain">
Domain allowed access.
</param>

## <param name="mqipc_label">
Mqipc file label.
</param>

## <param name="object">
Mqipc channel file name stem. It is used to derive set of file names used by MQIPC.
</param>

```c
interface('polaris_mqipc_create_name',
gen_require('type tmpfs_t;
type tmp_t;
')
```
manage_files_pattern($1, tmpfs_t, $2)
allow $1 $2:file map;
type_transition $1 tmpfs_t : file $2 "mq.-$3";
manage_fifo_files_pattern($1, tmp_t, $2)
type_transition $1 tmp_t : fifo_file $2 "mq_ene_fifo.-$3";
type_transition $1 tmp_t : fifo_file $2 "mq_fnf_fifo.-$3";
fs_getattr_tmpfs($1)

')

*****************************************************************************
## <summary>
## Manage mqipc shared memory file in /dev/shm/dir directory
## where dir is also derived from object parameter used as stem. It
## should be used only in cases where mqipc server operates with
## chanell under subdirectory. TDL autogeneration does not pick up
## this so interface call should be added explicitely.
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
## <param name="mqipc_label">
## <summary>
## Database file label.
## </summary>
## </param>
## <param name="object">
## <summary>
## Mqipc file name stem. It is used to derive set of file names
## used by MQIPC.
## </summary>
## </param>
#
interface('polaris_mqipc_create_name_dir',
gen_require(

type tmpfs_t;
    type tmp_t;
)

manage_files_pattern($1, [ tmpfs_t $2 ], $2)
allow $1 $2:file map;
manage_dirs_pattern($1, tmpfs_t, $2)
type_transition $1 tmpfs_t : [ file dir ] $2 "mq.-$3";
manage_fifo_files_pattern($1, [ tmp_t $2 ], $2)
type_transition $1 tmp_t : fifo_file $2 "mq_ene_fifo.-$3";
type_transition $1 tmp_t : fifo_file $2 "mq_fnf_fifo.-$3";
fs_getattr_tmpfs($1)
manage mqipc shared memory file in /dev/shm directory

## <summary>
##      Manage mqipc shared memory file in /dev/shm directory
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
## </summary>
## </param>
## <param name="mqipc_label">
##      <summary>
##      Mqipc channel file label.
## </summary>
## </param>

interface('polaris_mqipc_use';
gen_require('"

type tmpfs_t;
')

read_files_pattern($1, { tmpfs_t $2 }, $2)
write_files_pattern($1, { tmpfs_t $2 }, $2)
read_fifo_files_pattern($1, { tmp_t $2 }, $2)
write_fifo_files_pattern($1, { tmp_t $2 }, $2)
fs_getattr_tmpfs($1)
allow $1 $2:file map;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismqipc.if
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#

## <summary>Polaris issu_stack Policy Rules.</summary>

## <summary>
##      Manage tmp files created by issu_stack.
## </summary>
## <param name="domain">
##      <summary>
## Domain allowed access.

## </summary>
## </param>
## <rolecap/>
#

interface('polaris_issu_stack_tmp_manage',
    gen_require(
        type polaris_issu_stack_tmp_t;
    ')

manage_files_pattern($1, polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t)
manage_link_files_pattern($1, polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisissustack.if

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#

## <summary>Polaris Tmp Boot Policy Rules.</summary>

# /tmp/sw/boot policy

###############################
## <summary>
## Read /tmp/sw/boot files. Does not cover rmonbifo file under
## /tmp/sw/boot/rmonbifo. For those use polaris_rmonbifo_tmp_read interface
## </summary>
## <param name="domain">
##  Domain allowed access.
## </param>
#
interface('polaris_boot_tmp_read',
    gen_require(
        type polaris_boot_tmp_t;
    ')
    read_files_pattern($1, polaris_boot_tmp_t, polaris_boot_tmp_t)
')
### <summary>
### Write /tmp/sw/boot files.
### </summary>
### <param name="domain">
### Domain allowed access.
### </summary>
#
#
interface(`polaris_boot_tmp_write',`
  gen_require(`
  type polaris_boot_tmp_t;

  write_files_pattern($1, polaris_boot_tmp_t, polaris_boot_tmp_t)
)
"
"
### <summary>
### Map any polaris_boot_tmp_t file, needed during install.
### </summary>
### <param name="domain">
### Domain allowed access.
### </summary>
#
#
interface(`polaris_boot_tmp_map',`
  gen_require(`
    type polaris_boot_tmp_t;

    allow $1 polaris_boot_tmp_t:file map;

)"
type polaris_boot_tmp_t;
')
    manage_files_pattern($1, polaris_boot_tmp_t, polaris_boot_tmp_t)
')

########################################
## <summary>
## Create an polaris_boot_tmp_t object in tmpfs_t, tmp_t directories.
##
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <param name="object">
## The object class of the object being created.
## </param>
## <param name="name" optional="true">
## The name of the object being created.
## </param>
#
interface(`polaris_boot_tmp_filetrans',`
gen_require(`
type polaris_boot_tmp_t;
')
    fs_tmpfs_filetrans($1, polaris_boot_tmp_t, $2, $3)
    files_tmp_filetrans($1, polaris_boot_tmp_t, $2, $3)
')

########################################
## <summary>
## Manage partition disk device that contains rommon image.
##</summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_rommon_device_manage',`
gen_require(`
type device_t;
type polaris_rommon_device_t;

manage_blk_files_pattern($1, device_t, polaris_rommon_device_t)
manage_chr_files_pattern($1, device_t, polaris_rommon_device_t)

/*
 * @param name="domain"
 * @summary
 * Domain allowed access.
 */

interface(`polaris_rommon_device_read',``
    gen_require(`
        type device_t;
type polaris_rommon_device_t;
    `)
    read_blk_files_pattern($1, device_t, polaris_rommon_device_t)
    read_chr_files_pattern($1, device_t, polaris_rommon_device_t)
)

/*
 * @param name="domain"
 * @summary
 * Domain allowed access.
 */

interface(`polaris_boot_file_manage',``
    gen_require(`
        type polaris_boot_file_t;
    `)
    manage_files_pattern($1, polaris_boot_file_t, polaris_boot_file_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisboot.if
No license file was found, but licenses were detected in source scan.
policy_module(polariscedgetanman, 1.0);

# why /usr/binos/conf/cedge-tanman.sh is not described in TDL?
polaris_process_domain_template(cedge_tanman)

polaris_boot_tmp_read(polaris_cedge_tanman_t)
polaris_chasfs_read(polaris_cedge_tanman_t)
polaris_cpld_read(polaris_cedge_tanman_t)
polaris_read_debug_conf(polaris_cedge_tanman_t)
polaris_use_btrace_fifo(polaris_cedge_tanman_t)

corecmd_exec_bin(polaris_cedge_tanman_t)
corecmd_exec_shell(polaris_cedge_tanman_t)
auth_use_nsswitch(polaris_cedge_tanman_t)

# /tmp/tan handling
type polaris_cedge_tanman_tmp_t;
files_tmp_file(polaris_cedge_tanman_tmp_t)
gen_require(')
      type tmp_t;
')
manage_dirs_pattern(polaris_cedge_tanman_t, tmp_t, polaris_cedge_tanman_tmp_t)
manage_fifo_files_pattern(polaris_cedge_tanman_t, polaris_cedge_tanman_tmp_t, polaris_cedge_tanman_tmp_t)
files_tmp_filetrans(polaris_cedge_tanman_t, polaris_cedge_tanman_tmp_t, dir, "tan")

# calls du -sk /tmp/xml/System
fs_getattr_tmpfs(polaris_cedge_tanman_t)

# work with /tmp/xml
polaris_cedge_xml_tmp_manage(polaris_cedge_tanman_t)

# work with /tmp/tmp
polaris_cedge_tmp/manage(polaris_cedge_tanman_t)

polaris_btrace_tmppub_read(polaris_cedge_tanman_t)

allow polaris_cedge_tanman_t self:capability sys_resource;

# calls nice
allow polaris_cedge_tanman_t self:process setsched;

# runs inotifywait -mrq --format %f: -e moved_to /bootflash/tracelogs
# and removes files in /bootflash/tracelogs
polaris_btrace_persistent_data_manage(polaris_cedge_tanman_t)

# runs ps -eaf
# ps needs access to proc_t
kernel_read_system_state(polaris_cedge_tanman_t)
# ps needs access to state of all domains
domain_read_all_domains_state(polaris_cedge_tanman_t)
# "ps" needs read access to /sys/devices/system/cpu/online
# "ps" needs read access to /proc/uptime
dev_read_sysfs(polaris_cedge_tanman_t)

# watch over /bootflash/tracelogs
polaris_btrace_data_watch(polaris_cedge_tanman_t)

# watches over /tmp for /tmp/bootted appearence
gen_require(''
    type tmp_t;''
')
allow polaris_cedge_tanman_t tmp_t:dir watch;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscedgetanman.te
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#
# Aug 2020, Sridhar
#
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#

### <summary>Polaris tlscd process Policy Rules.</summary>

### <summary>
### Allow the specified domain to manage UDS socket
### files. I.e /tmp/tlscd/
### </summary>
### <param name="domain">
### Domain allowed access.
### </summary>
### </param>
#
interface('polaris_tlscd_uds_manage',
    gen_require(
        type polaris_tlscd_uds_t;
    ')}
manage_sock_files_pattern($1, polaris_tls_cds, polaris_tls_cds)
}

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaris_tls_cds
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dnl

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dnl
dnl Same as Nyquist
dnl
dnl Nyquist Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 0)
max_bay_map_set(`fp', `per_bay', 0)

max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 0)
max_bay_map_set(`fp', `per_bay', 0)

max_elastic_map_set(`rp', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`cc', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`fp', `elastic', BPROC_ODM, 0)

max_elastic_map_set(`rp', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(`cc', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(`fp', `elastic', BPROC_WNCD, 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/msmaps.m4
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#
# September 2017, Victor Kamensky
#
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#

### <summary>Polaris polarisunconfined Policy Rules.</summary>

#
# Make the specified type usable
# to be conditionally unconfined.
### </summary>
### <param name="domain">
##      <summary>
##      Type to be used for conditionally unconfined.
##      </summary>
## </param>
#
interface('polaris_domain_storage_unconfined_type',
    gen_require(
        attribute polaris_storage_unconfined_type;
    )
    typeattribute $1 polaris_storage_unconfined_type;
')

#################################################
##      <summary>
##      Mark domain unconfined, if polaris_unconfined build
##      macro is defined. Or if polaris_unconfined_conditional
##      macro is defined make domain unconfined only if
##      polaris_unconfined_all SELinux boolean is set on.
##      </summary>
##      <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
##      </param>
#
interface('polaris_domain_maybe_unconfined',
    ifdef('polaris_unconfined',
        unconfined_domain($1)
    )
    ifdef('polaris_unconfined_conditional',
        polaris_domain_storage_unconfined_type($1)

        tunable_policy('polaris_unconfined_all',
            polaris_unconfined_domain($1)
        )
    )
)

#implicitly confined domain being made permissive
permissive $1;
')

#################################################
##      <summary>
##      Mark iosd domain unconfined, if polaris_iosd_unconfined
##      build macro is defined. Or if polaris_iosd_unconfined_conditional
##      macro is defined make domain unconfined only if

## polaris_unconfined_iosd SELinux boolean is set on.
## <summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface(`polaris_iosd_maybe_unconfined',`
ifdef(`polaris_iosd_unconfined',`
unconfined_domain($1)
')

ifdef(`polaris_iosd_unconfined_conditional',`
polaris_domain_storage_unconfined_type($1)

tunable_policy(`polaris_unconfined_iosd',`
polaris_unconfined_domain($1)
')
')
')

########################################
## Unconfined access to kernel module resources.
## Like kernel_unconfined but without typeattribute use.
## <summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface(`polaris_kernel_unconfined',`
gen_require(`
attribute proc_type;
    attribute sysctl_type;
    type kernel_t;
    type unlabeled_t;
    type proc_kcore_t;
    type proc_kmsg_t;
')

allow S1 { proc_type - proc_kcore_t - proc_kmsg_t } :{ file } ~entrypoint;
allow S1 { proc_type - proc_kcore_t - proc_kmsg_t }:{ dir lnk_file } *;

allow S1 sysctl_type:{ file } ~entrypoint;
allow $1 sysctl_type:{ dir lnk_file } *;

allow $1 kernel_t:system *;

allow $1 unlabeled_t:{ dir lnk_file sock_file fifo_file chr_file blk_file } *;
allow $1 unlabeled_t:file ~entrypoint;
allow $1 unlabeled_t:filesystem *
allow $1 unlabeled_t:association *
allow $1 unlabeled_t:packet *
allow $1 unlabeled_t:process ~{ ptrace transition dyntransition execmem execstack execcheap }

# LOOK AT ME
# kernel_load_module($1)
')

################################################################
## <summary>
## Unconfined access to network objects.
## Like corenet_unconfined but without typeattribute use.
## </summary>
## <param name="domain">
## The domain allowed access.
## </param>
#
interface('polaris_corenet_unconfined',
gen_require('attribute node_type;
attribute netif_type;
attribute packet_type;
attribute port_type;
')

allow $1 node_type:node *;
allow $1 netif_type:netif *;
allow $1 packet_type:packet *;
allow $1 port_type:dccp_socket { send_msg recv_msg name_connect };
allow $1 port_type:tcp_socket { send_msg recv_msg name_connect };
allow $1 port_type:udp_socket { send_msg recv_msg };

# Bind to any network address.
allow $1 port_type:{ dccp_socket tcp_socket udp_socket rawip_socket } name_bind;
allow $1 node_type:{ dccp_socket tcp_socket udp_socket rawip_socket } node_bind;

')

########################################################################
## <summary>
## Unconfined access to devices.
## Like dev_unconfined but without typeattribute use.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface("polaris_dev_unconfined",'

gen_require("
attribute device_node;
    type memory_device_t;
    type mtrr_device_t;
)
')

 allow $1 self:capability sys_rawio;
 allow $1 [ device_node - memory_device_t ] :{ blk_file lnk_file } *;
 allow $1 [ device_node - memory_device_t ] :{ file chr_file } ~{ execmod entrypoint };
 allow $1 mtrr_device_t:file ~{ execmod entrypoint };
 dev_getattr_all($1)
')

###########################################################################
## <summary>
## Unconfined access to domains.
## Like domain_unconfined but without typeattribute use.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface("polaris_domain_unconfined",'

gen_require("'
attribute domain;
')

# Use/sendto/connectto sockets created by any domain.
 allow $1 domain: { socket_class_set socket key_socket } *;

 allow $1 domain: system all_system_perms;
 # Use descriptors and pipes created by any domain.
 allow $1 domain: fd use;
allow $1 domain:fifo_file rw_file_perms;

allow $1 $1:dbus send_msg;

# Act upon any other process.
allow $1 domain:process ~{ ptrace transition dyntransition execmem execstack execheap setcurrent };
allow $1 domain:process ptrace;

# Create/access any System V IPC objects.
allow $1 domain:{ sem msgq shm } *;
allow $1 domain:msg { send receive };

# For /proc/pid
allow $1 domain:dir list_dir_perms;
allow $1 domain:file rw_file_perms;
allow $1 domain:lnk_file { read_link_file_perms ioctl lock };

# act on all domains keys
allow $1 domain:key *;

# pass constraints
# typeattribute $1 can_change_object_identity;
# typeattribute $1 set_curr_context;
# typeattribute $1 process_uncond_exempt;

# mcs_process_set_categories($1)

# userdom_filetrans_home_content($1)
')

########################################
## <summary>
##	Unconfined access to files.
## Like files_unconfined but without typeattribute use.
## </summary>
## <param name="domain">
##<summary>
##Domain allowed access.
##</summary>
## </param>
#
interface(‘polaris_files_unconfined’,
    gen_require(‘
        attribute file_type;
        type shadow_t;
    ’)
# Create/access any file in a labeled filesystem:
allow $1 { file_type - shadow_t }:{ file chr_file } ~{ execmod entrypoint relabelto };
allow $1 file_type:{ dir lnk_file sock_file fifo_file blk_file } *;
allow $1 file_type:service *;

# Mount/unmount any filesystem with the context= option.
allow $1 file_type:filesystem all_filesystem_perms;
)

#############################################################
## <summary>
##	Unconfined access to filesystems
## Like fs_unconfined but without typeattribute use.
## </summary>
## <param name="domain">
##<summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_fs_unconfined',
  gen_require(
    attribute filesystem_type;
  )

allow $1 filesystem_type:filesystem all_filesystem_perms;

# Create/access other files. fs_type is to pick up various
# pseudo filesystem types that are applied to both the filesystem
# and its files.
allow $1 filesystem_type:{ file } ~entrypoint;
allow $1 filesystem_type:{ dir lnk_file sock_file fifo_file chr_file blk_file } *;
)

#############################################################
## <summary>
## Unconfined access to the SELinux kernel security server.
## Like selinux_unconfined but without typeattribute use.
## </summary>
## <param name="domain">
##<summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_selinux_unconfined',
  gen_require(}
attribute boolean_type;
type security_t;
type secure_mode_policyload_t;
)

# use SELinuxfs
allow $1 security_t:dir list_dir_perms;
allow $1 security_t:file rw_file_perms;
allow $1 boolean_type:file read_file_perms;
allow $1 { boolean_type -secure_mode_policyload_t }:file write_file_perms;

# Access the security API.
allow $1 security_t:security ~( load_policy setenforce setbool setsecparam );

ifdef(`distro_rhel4`,
    # needed for systems without audit support
    auditallow $1 security_t:security setbool;
)

#selinux_set_all_booleans($1)
#selinux_load_policy($1)
#selinux_set_parameters($1)
#selinux_set_enforce_mode($1)
')

########################################################################
## <summary>
## Make the specified domain unconfined.
## </summary>

## <param name="domain">
## Domain to make unconfined.
## </param>
#
# interface(`polaris_unconfined_domain',
  gen_require(
    class dbus all_dbus_perms;
    class nscd all_nscd_perms;
    class passwd all_passwd_perms;
  )
)

# Use any Linux capability.

allow $1 self:capability ~( sys_module );
allow $1 self:capability2 ~( mac_admin mac_override );
allow $1 self:fifo_file { manage_fifo_file_perms relabelfrom relabelto };

# Transition to myself, to make get_ordered_context_list happy.
allow $1 self:process { dyntransition transition };

# Write access is for setting attributes under /proc/self/attr.
allow $1 self:file rw_file_perms;
allow $1 self:dir rw_dir_perms;

# Userland object managers
allow $1 self:nscd all_nscd_perms;
allow $1 self:dbus all_dbus_perms;
allow $1 self:passwd all_passwd_perms;
allow $1 self:association all_association_perms;
allow $1 self:socket_class_set create_socket_perms;

polaris_kernel_unconfined($1)
polaris_corenet_unconfined($1)
polaris_dev_unconfined($1)
polaris_domain_unconfined($1)
polaris_files_unconfined($1)
polaris_fs_unconfined($1)
polaris_selinux_unconfined($1)

systemd_config_all_services($1)

    # in unconfined_domain_noaudit its under not deny_execmem
    allow $1 self:process execmem;

#domain_mmap_low($1)
#
#ubac_process_exempt($1)
#
#optional_policy(
#    # Communicate via dbusd.
#    dbus_system_bus_unconfined($1)
#    #)
#
#optional_policy(
##ipsec_setcontext_default_spd($1)
##ipsec_match_default_spd($1)
##)
#
#optional_policy(


### <summary>
Make the specified domain able to work with cpp /tmp/cpp_ifdev_rep and /tmp/cpp_ifdev_req pipe files.
</summary>
### <param name="type">
Domain allowed access.
</param>

```
interface('polaris_unconfined_service_fifo_file_manage',
  gen_require(''
    type unconfined_service_t;
  '))

manage_fifo_files_pattern($1, unconfined_service_t, unconfined_service_t)
')
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisunconfined.if

No license file was found, but licenses were detected in source scan.

```
# March 2019, Shikhar Dogra
#
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```
policy_module(polarisfmancc, 1.0);

    type polaris_fman_cc_t;
    
    polaris_btrace_data_manages(polaris_fman_cc_t)
polaris_crft_data_manages(polaris_fman_cc_t)
polaris_chasfs_manages(polaris_fman_cc_t)
polaris_tdlresolve_read(polaris_fman_cc_t)
polaris_tdlldb_list_dirs(polaris_fman_cc_t)
polaris_cpld_read(polaris_fman_cc_t)
polaris_lua_read(polaris_fman_cc_t)
polaris_flashlib_read(polaris_fman_cc_t)
polaris_cpld_dev_use(polaris_fman_cc_t)

    # allow to send message to /dev/log
logging_send_syslog_msg(polaris_fman_cc_t)

    # ISR Nightwatch module accesses libraries compiled with icc
polaris_icc_broken_relocations(polaris_fman_cc_t)

    # cpp bleeds into switching platforms through fman_fp and fed
# apparently even on nyquist fed creates /tmp/cpp_anon_db
polaris_cpp_process(polaris_fman_cc_t)
polaris_cpp_tmp_files_use(polaris_fman_cc_t)

    type polaris_iosd_fmanrp_mqipc_t;
polaris_mqipc_type(polaris_iosd_fmanrp_mqipc_t)

    polaris_mqipc_create_name(polaris_fman_cc_t, polaris_iosd_fmanrp_mqipc_t, iosd-fmanrp-R0:0)
polaris_mqipc_create_name(polaris_fman_cc_t, polaris_iosd_fmanrp_mqipc_t, iosd-fmanrp-R0:0:cc0)
polaris_mqipc_create_name(polaris_fman_cc_t, polaris_iosd_fmanrp_mqipc_t, iosd-fmanrp-R0:0:cc1)
polaris_mqipc_create_name(polaris_fman_cc_t, polaris_iosd_fmanrp_mqipc_t, iosd-fmanrp-R0:0:cc2)
polaris_mqipc_create_name(polaris_fman_cc_t, polaris_iosd_fmanrp_mqipc_t, iosd-fmanrp-R0:0:cc3)
polaris_mqipc_create_name(polaris_fman_cc_t, polaris_iosd_fmanrp_mqipc_t, iosd-fmanrp-R0:0:cc4)

    Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfmancc.te
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dnl
dnl May 2020, Swati Kumari
dnl
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dnl
dnl rp86 Platform Max Bay Limits
max_bay_map_set('rp', 'per_bay', 0)
max_bay_map_set('cc', 'per_bay', 5)
max_bay_map_set('fp', 'per_bay', 2)

min_bay_ripc_map_set('rp', 'per_bay', 0)
min_bay_ripc_map_set('cc', 'per_bay', 1)
min_bay_ripc_map_set('fp', 'per_bay', 0)

max_bay_ripc_map_set('rp', 'per_bay', 2)
max_bay_ripc_map_set('cc', 'per_bay', 6)
max_bay_ripc_map_set('fp', 'per_bay', 2)

min_bay_ripc_map_set('rp', 'global', 0)
min_bay_ripc_map_set('cc', 'global', 1)
min_bay_ripc_map_set('fp', 'global', 0)

max_bay_ripc_map_set('rp', 'global', 2)
max_bay_ripc_map_set('cc', 'global', 6)
max_bay_ripc_map_set('fp', 'global', 2)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/rpx86maps.m4
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#
# March 2017, Victor Kamensky
#
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#
#
## <summary>Polaris polarispsvp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispsvp.if
No license file was found, but licenses were detected in source scan.

#
# September 2017, Victor Kamensky
#
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#
#
/#tmp/tmppub(\.*)? gen_context(system_u:object_r:polaris_btrace_tmppub_t,s0)

# bttrace utility to rotate logs
/usr/binos/bin/btman_rotate_immediate -- gen_context(system_u:object_r:polaris_btman_exec_t,s0)
# btrace utility to dump meta data
/usr/binos/bin/dump_btrace_meta -- gen_context(system_u:object_r:polaris_btman_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbtman.fc
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
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#

policy_module(polarisnvram, 1.0);

#############################################################################
# NVRAM
#############################################################################

ifdef(`ngwc_family`,

# suppose that in edison case nvram is not in partition
type polaris_nvram_file_t;
files_type(polaris_nvram_file_t)
# allow nvram file reside on persistent storage
polaris_pfile_type(polaris_nvram_file_t)
)

ifdef(`blackheart_platform`,
gen_require(
    type polaris_nvram_file_t;
    type polaris_iosd_t;
    )
files_type(polaris_nvram_file_t)
# allow nvram file reside on persistent storage
polaris_pfile_type(polaris_nvram_file_t)
allow polaris_iosd_t polaris_nvram_file_t:filesystem getattr;
)

ifdef(`sparrow_platform`,
gen_require(
    type polaris_nvram_file_t;
    type polaris_iosd_t;
    )
files_type(polaris_nvram_file_t)
# allow nvram file reside on persistent storage
polaris_pfile_type(polaris_nvram_file_t)
allow polaris_iosd_t polaris_nvram_file_t:filesystem getattr;

ifdef(`aventus_platform',`
gen_require(`
    type polaris_nvram_file_t;
    type polaris_iosd_t;
')
files_type(polaris_nvram_file_t)
# allow nvram file reside on persistent storage
polaris_pfile_type(polaris_nvram_file_t)
allow polaris_iosd_t polaris_nvram_file_t:filesystem getattr;
')

ifdef(`cabo_platform',`
gen_require(`
    type polaris_nvram_file_t;
    type polaris_iosd_t;
')
files_type(polaris_nvram_file_t)
# allow nvram file reside on persistent storage
polaris_pfile_type(polaris_nvram_file_t)
allow polaris_iosd_t polaris_nvram_file_t:filesystem getattr;
')

ifdef(`petra_platform',`
type polaris_nvram_file_t;
files_type(polaris_nvram_file_t)
# suppose that in edison case nvram is not in partition
gen_require(`
    type polaris_iosd_t;
')
# allow nvram file reside on persistent storage
polaris_pfile_type(polaris_nvram_file_t)
allow polaris_iosd_t polaris_nvram_file_t:filesystem getattr;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnvram.te
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#
# February 2020, Victor Kamensky
#
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#
## <summary>Polaris cxp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscxp.if

No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
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#

policy_module(polarischasfs, 1.0);

################################################################################
# Chasfs policy
################################################################################
gen_require('attribute domain; ')

type polaris_chasfs_t;
files_type(polaris_chasfs_t)

files_tmp_filetrans(domain, polaris_chasfs_t, dir, "chassis") files_tmp_filetrans(domain, polaris_chasfs_t, lnk_file, "chasfs")
# LOOK AT ME: on ultra /tmp/cc/chasfs is created as directory, but # on other platforms it is symbolic to /tmp/chassis/local/cc/chasfs # as it happens for rp and fp. Would it be better to fix ultra # script(s)? files_tmp_filetrans(domain, polaris_chasfs_t, dir, "chasfs")

# cpld-symlink.service, creates /tmp/chassis while /tmp is # still tmpfs_t, ie before systemd-tmpfiles runs and had a # chance to set tmp_t label on /tmp
gen_require('type initrc_t; ')
fs_tmpfs_filetrans(initrc_t, polaris_chasfs_t, dir, "chassis")

init_script_tmp_filetrans(domain, polaris_chasfs_t, dir, "chasfs")

################################################################################
# chasync
################################################################################
polaris_process_domain_template(chasync)
corecmd_exec_bin(polaris_chasync_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_chasync_t)

polaris_btrace_data_manage(polaris_chasync_t)
polaris_chasfs_manage(polaris_chasync_t)
polaris_cpld_read(polaris_chasync_t)
polaris_boot_tmp_read(polaris_chasync_t)
polaris_read_debug_conf(polaris_chasync_t)
polaris_rmonbifo_tmp_read(polaris_chasync_t)
polaris_proc_rmonbifo_read(polaris_chasync_t)

polaris_disk_bootflash_read_lnk(polaris_chasync_t)
polaris_disk_harddisk_read_lnk(polaris_chasync_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_chasync_t)

allow polaris_chasync_t self:capability sys_resource;
allow polaris_chasync_t self:process setpgid;

# access of crashinfo dir for the domain
polaris_disk_crashinfo_getattr(polaris_chasync_t)

# allow access of /tmp/rp/chasync for the polaris_chasync_t domain to
# create/write/read dirs/files with domain specific context
type polaris_chasync_tmp_t;
files_type(polaris_chasync_tmp_t)
files_tmp_file(polaris_chasync_tmp_t)
files_tmp_filetrans(polaris_chasync_tmp_t, polaris_chasync_tmp_t, dir, "chasync")
manage_files_pattern(polaris_chasync_t, polaris_chasync_tmp_t, polaris_chasync_tmp_t)
manage_dirs_pattern(polaris_chasync_t, polaris_chasync_tmp_t, polaris_chasync_tmp_t)
manage_fifo_files_pattern(polaris_chasync_t, polaris_chasync_tmp_t, polaris_chasync_tmp_t)

# allow creation/access of temporary files created by chasync.sh like
# /tmp/sh-thd-1499428203 etc
files_tmp_filetrans(polaris_chasync_t, polaris_chasync_tmp_t, file)
manage_files_pattern(polaris_chasync_t, polaris_chasync_tmp_t, polaris_chasync_tmp_t)

fs_getattr_tmpfs(polaris_chasync_t)

# access of flash util for the domain
polaris_flashlib_read(polaris_chasync_t)

# read /proc/cmdline
kernel_read_system_state(polaris_chasync_t)
gen_require(
    type rsync_t;
    type init_t;
    type rsync_tmp_t;
')
rsync_entry_domtrans(polaris_chasync_t, rsync_t)
allow rsync_t polaris_chasync_t:process sigchld;
# file descriptor leak when rsync is called
allow rsync_t init_t:unix_stream_socket ioctl;

# upon exec rsync inherits chasync's stdout/stderr fifo files
allow rsync_t polaris_chasync_t:fifo_file {getattr write};
# in chasync_prepost_rsync.sh, CHASYNC_PID_DIR (rsync pid files) is deleted by rsync
fs_getattr_tmpfs(rsync_t)

# allow file:map for rsync_tmp_t
allow rsync_t rsync_tmp_t:file map;
dev_getattr_generic_blk_files(rsync_t)
dev_getattr_loop_control(rsync_t)
# need access to /usr/bin/mount
mount_entry_type(rsync_t)
# need access to dev/sda1
storage_getattr_fixed_disk_dev(rsync_t)
ifdef(`ngwc_family',`
#Read and write RPC sysctls
kernel_rw_rpc_sysctls(rsync_t)
mount_domtrans(rsync_t)
fstools_domtrans(rsync_t)
#Create/read/write on fixed device disk nodes
storage_manage_fixed_disk_dev(rsync_t)
# stat -f -L -c %T /mnt/usb0
polaris_getattr_removable(rsync_t)
storage_filetrans_all_named_dev(rsync_t)
')

#============= polaris_dyncfg ==============
polaris_dyncfg_tmp_read(rsync_t)

#============= polaris_chasync_t ==============
polaris_btrace_persistent_data_search(polaris_chasync_t)
#chasync.sh code executes mv command
allow polaris_chasync_t self:process { setfscreate };
#chasync.sh code executes ping command to check if ping works before trying rsync for the first time
netutils_domtrans_ping(polaris_chasync_t)
#chasync.sh code in wlc saves logs during cleanup to /var/log/chasync
type polaris_chasync_log_t;
logging_log_file(polaris_chasync_log_t)
manage_files_pattern(polaris_chasync_t, polaris_chasync_log_t, polaris_chasync_log_t)
manage_dirs_pattern(polaris_chasync_t, polaris_chasync_log_t, polaris_chasync_log_t)
logging_log_filetrans(polaris_chasync_t, polaris_chasync_log_t, dir, "chasync")

###############################################################################
# chasfs_boottime script
###############################################################################

polaris_process_domain_template(chasfs_boottime)

unconfined_domain(polaris_chasfs_boottime_t)

# chasfs_boottime.sh starts cman_fp or cmand with -C option; allow its
# transition to fman_fp_t type
optional_policy(`
polaris_cm_rp_domtrans(polaris_chasfs_boottime_t)
`)
optional_policy(`
polaris_cm_fp_domtrans(polaris_chasfs_boottime_t)
`)
optional_policy(`
polaris_cm_cc_domtrans(polaris_chasfs_boottime_t)
`)

ifdef(`ngwc_family',`

# Allow iox_polaris.conf read
polaris_caf_files_read(polaris_chasync_t)

# Allow losetup in helper script
fstools_domtrans(polaris_chasync_t)

# Manage alternate hdd files
polaris_iox_alt_hdd_manage(polaris_chasync_t)

#Allow console logging
term_open_unallocated_ttys(polaris_chasync_t)

# Allow logger which is used for syslog message
allow polaris_chasync_t self:unix_dgram_socket { connect create }
logging_send_syslog_msg(polaris_chasync_t)

# logger needs to run pidof
dev_read_sysfs(polaris_chasync_t)
domain_read_all_domains_state(polaris_chasync_t)
type polaris_chasync_files_t;
files_type(polaris_chasync_files_t)
polaris_pfile_type(polaris_chasync_files_t)

optional_policy('  
gen_require('    
    type polaris_disk_harddisk_t;    
    type polaris_disk_bootflash_t;  
  ')
filetrans_pattern(polaris_chasync_t, [polaris_disk_bootflash_t polaris_disk_harddisk_t], polaris_chasync_files_t, dir, "sys_report")
filetrans_pattern(polaris_chasync_t, [polaris_disk_bootflash_t polaris_disk_harddisk_t], polaris_chasync_files_t, dir, "fp_cc_crash")
filetrans_pattern(polaris_chasync_t, polaris_disk_bootflash_t, polaris_chasync_files_t, file, "user_input_custom.xml")

# chasync can manage files inside of its own polaris_disk_chasync_t directories
manage_dirs_pattern(polaris_chasync_t, polaris_chasync_files_t, polaris_chasync_files_t)
manage_files_pattern(polaris_chasync_t, polaris_chasync_files_t, polaris_chasync_files_t)
allow polaris_chasync_t polaris_chasync_files_t:dir watch;
polaris_install_disk_read(polaris_chasync_t)

optional_policy('  
# chasync invoked sys_report does ls /tmp/ufs/crashinfo
polaris_ncd_tmp_read(polaris_chasync_t)
  ')

# chasync moves inv files from /tftp/inv to chasfs directory
allow polaris_chasync_t self:capability { chown fowner fsetid };
gen_require('    
    type brctl_t;    
  ')
# pd_iox.sh invokes brctl which needs access to chasfs
polaris_chasfs_read(brctl_t)

#allow chasync to unmount flash partition
mount_domtrans(polaris_chasync_t)
sysnet_domtrans_ifconfig(polaris_chasync_t)

# chasync.sh needs read access to /bootflash/installer/install_issu_state
polaris_disk_install_read(polaris_chasync_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarischasfs.te
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#

policy_module(polariscpp, 1.0);

#####################################################################
# Polaris cpp (ultra)
#####################################################################

type polaris_cpp_device_t;
dev_node(polaris_cpp_device_t)

# deals with /dev/shm files semaphors, etc
type polaris_cpp_tmpfs_t;
files_tmpfs_file(polaris_cpp_tmpfs_t)
attribute polaris_cpp_domain;
fs_tmpfs_filetrans(polaris_cpp_domain, polaris_cpp_tmpfs_t, file)
manage_files_pattern(polaris_cpp_domain, tmpfs_t, polaris_cpp_tmpfs_t)
allow polaris_cpp_domain polaris_cpp_tmpfs_t:file map;
polaris_cpp_tmpfs_manage(polaris_cpp_domain)
polaris_cerr_shm_manage(polaris_cpp_domain)

# on TSN ucode_dram lives in hugetlbfs
fs_hugetlbfs_filetrans(polaris_cpp_domain, polaris_cpp_tmpfs_t, file)
gen_require(
    type hugetlbfs_t;
')
manage_files_pattern(polaris_cpp_domain, hugetlbfs_t, polaris_cpp_tmpfs_t)

# deals with cpp /tmp files
type polaris_cpp_tmp_t;
files_tmp_file(polaris_cpp_tmp_t)
files_tmp_filetrans(polaris_cpp_domain, polaris_cpp_tmp_t, file, "cpp_anon_db")
files_tmp_filetrans(polaris_cpp_domain, polaris_cpp_tmp_t, file, "qm_rt_dbg")
files_tmp_filetrans(polaris_cpp_domain, polaris_cpp_tmp_t, fifo_file, "cpp_ifdev_rep")
files_tmp_filetrans(polaris_cpp_domain, polaris_cpp_tmp_t, fifo_file, "cpp_ifdev_req")
manage_files_pattern(polaris_cpp_domain, tmp_t, polaris_cpp_tmp_t)
manage_fifo_files_pattern(polaris_cpp_domain, tmp_t, polaris_cpp_tmp_t)
allow polaris_cpp_domain polaris_cpp_tmp_t:file map;

fs_getattr_tmpfs(polaris_cpp_domain)
# overlord/neptune access /sys/bus/pci/devices/0000:01:00.0/resource0
# when initializing the CPP DMAP library
optional_policy(
    polaris_cpp_cavium_dma_map(polaris_cpp_domain)
)

type polaris_i95_device_t;
dev_node(polaris_i95_device_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscpp.te
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#
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#
#
# some platforms have /usr/binos/bin/fman_fp as hardlink to
# /usr/binos/bin/fman_fp_image
/usr/binos/bin/fman_fp -- gen_context(system_u:object_r:polaris_fman_fp_exec_t,s0)
/usr/binos/bin/fman_fp_ledp -- gen_context(system_u:object_r:polaris_fman_fp_exec_t,s0)
/usr/binos/bin/fman_fp_vwlc_ledp -- gen_context(system_u:object_r:polaris_fman_fp_exec_t,s0)
/usr/binos/bin/fman_fp_us_ledp -- gen_context(system_u:object_r:polaris_fman_fp_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfmanfp.fc
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#
# July 2017, Victor Kamensky
#
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#
#
## <summary>Polaris ngiolite Policy Rules.</summary>

###################################################
## <summary>
##      Execute mcp_smartctl_cmds.sh in the polaris_smartctl domain.
## </summary>
## <param name="domain">
##    Domain allowed to transition.
## <summary>
## </param>
#
interface('polaris_smartctl_domtrans',
  gen_require(
    type polaris_smartctl_t, polaris_smartctl_exec_t;
  ')
)

corecmd_search_bin($1)
  domtrans_pattern($1, polaris_smartctl_exec_t, polaris_smartctl_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.10/selinux-tar/selinux/polarisngiolite.if
No license file was found, but licenses were detected in source scan.
#
# February 2018, Manohar Hungund
#
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#
/dev/act2           -c gen_context(system_u:object_r:polaris_act2_device_t,s0)
/tmp/hw_entropy     -- gen_context(system_u:object_r:polaris_hw_entropy_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.10/selinux-tar/selinux/polarisact2.fc
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#
# July 2017, Victor Kamensky
#
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#
policy_module(polariscmcc, 1.0);

gen_require(' 
  type polaris_cm_cc_t;
')

polaris_btrace_data_manage(polaris_cm_cc_t)
polaris_crft_data_manage(polaris_cm_cc_t)
polaris_chasfs_manage(polaris_cm_cc_t)
polaris_tdlresolve_read(polaris_cm_cc_t)
polaris_tdlldb_list_dirs(polaris_cm_cc_t)
polaris_cpld_read(polaris_cm_cc_t)
polaris_lua_read(polaris_cm_cc_t)
polaris_flashlib_read(polaris_cm_cc_t)

polaris_cpld_dev_use(polaris_cm_cc_t)
polaris_proc_rmonbifo_read(polaris_cm_cc_t)

polaris_ripc_sman_ui_serv_connect(polaris_cm_cc_t)

optional_policy(
   '
   # access to /dev/iocp0
   polaris_spa_dev_use(polaris_cm_cc_t)
   ')
optional_policy(
   '
   # access to /dev/htdb[0-9]*
   polaris_hltdp_dev_use(polaris_cm_cc_t)
   ')
# read /proc/cmdline
kernel_read_system_state(polaris_cm_cc_t)
# work with /dev/i2c devices
polaris_i2c_use(polaris_cm_cc_t)

polaris_obfl_data_read(polaris_cm_cc_t)
# cmcc module as part of init calls cmem_obfl_write_voltage_log(),
# which writes to obfl device.
polaris_obfl_data_manage(polaris_cm_cc_t)
# on vxe platform /obfl is symlink to /varied
ifdef(`vxe_family',`
   polaris_disk_varied_list(polaris_cm_cc_t)
   ')

# on l1ng works with /dev/cpld-virtual-cc
polaris_cpp_dev_use(polaris_cm_cc_t)

polaris_i2c_use(polaris_cm_cc_t)
dev_rw_sysfs(polaris_cm_cc_t)

ifdef(`crankshaft_family',`
   # read,getattr, map access to /firmware/ files for Switzer-CC
   polaris_firmware_read(polaris_cm_cc_t)
polaris_firmware_getattr(polaris_cm_cc_t)
polaris_firmware_map(polaris_cm_cc_t)
   ')

# allow objstore access
polaris_disk_objstore_read(polaris_cm_cc_t)

# get interface address cmlib_if_config_addr at cman/lib/cmlib_msgs/src/cmlib_eobc.c
allow polaris_cm_cc_t self:udp_socket { create ioctl }

# on utah need to get model info
optional_policy(
    polaris_dash_dev_use(polaris_cm_cc_t)
)

# access to /dev/dash_fpga device on fugazi platform
ifdef(`fugazi_platform',
    polaris_dash_dev_mcp_use(polaris_cm_cc_t)
)

# access to /dev/nutella_fpga device on nutella platform
optional_policy(`
polaris_nutella_fpga_dev_use(polaris_cm_cc_t)
')

# handle /tmp/pci files on utah
type polaris_pci_tmp_t;
files_tmp_file(polaris_pci_tmp_t)
#endif

# /tmp/pci/bus, /tmp/pci/vendor, /tmp/pic/device created by systemd unit
gen_require(`
    type initrc_t;
    type unconfined_service_t;
    type tmp_t;
')
files_tmp_filetrans({ unconfined_service_t initrc_t }, polaris_pci_tmp_t, dir, "pci")
manage_dirs_pattern(initrc_t, tmp_t, polaris_pci_tmp_t)
manage_files_pattern(initrc_t, polaris_pci_tmp_t, polaris_pci_tmp_t)
manage_files_pattern(polaris_cm_cc_t, polaris_pci_tmp_t, polaris_pci_tmp_t)
logging_send_syslog_msg(polaris_cm_cc_t)

# cmcc module creates the PCI rescan shm mutex.
# /dev/shm/rescan_shm file.
type polaris_cm_cc_tmpfs_t;
files_tmpfs_file(polaris_cm_cc_tmpfs_t)
fs_tmpfs_filetrans(polaris_cm_cc_t, polaris_cm_cc_tmpfs_t, file)
manage_files_pattern(polaris_cm_cc_t, tmpfs_t, polaris_cm_cc_tmpfs_t)
mmap_files_pattern(polaris_cm_cc_t, tmpfs_t, polaris_cm_cc_tmpfs_t)
deve_read_sysfs(polaris_cm_cc_t)
deve_getattr_sysfs_fs(polaris_cm_cc_t)
fs_getattr_tmpfs(polaris_cm_cc_t)

# /tmp/udev-cc should it not be polaris_udev_tmp_t
type polaris_cm_cc_tmp_t;
files_tmp_file(polaris_cm_cc_tmp_t)
files_tmp_filetrans(polaris_cm_cc_t, polaris_cm_cc_tmp_t, dir, "udev-cc")
manage_files_pattern(polaris_cm_cc_t, polaris_cm_cc_tmp_t, polaris_cm_cc_tmp_t)
gen_require(
    type tmp_t;
')
manage_dirs_pattern(polaris_cm_cc_t, { tmp_t polaris_cm_cc_tmp_t }, polaris_cm_cc_tmp_t)

# on tsn need access to /dev/moka_fpga
optional_policy(
    polaris_mokafpga_dev_use(polaris_cm_cc_t)
')

optional_policy(
    # betelgeuse need access to /dev/sirius_fpga
    polaris_sirius_fpga_dev_use(polaris_cm_cc_t)
')

# on macallan need access to /dev/quack
optional_policy(
    polaris_quack_dev_use(polaris_cm_cc_t)
')

polaris_cpld_write(polaris_cm_cc_t)

optional_policy(
    # on starfleet access gettysburg_fpga
    polaris_gettysburg_fpga_dev_use(polaris_cm_cc_t)
')

# /dev/epactrlN on qwlc
optional_policy(
    polaris_epa_dev_use(polaris_cm_cc_t)
')

# /dev/luna_fpga on qwlc
optional_policy(
    polaris_luna_mbfpga_dev_use(polaris_cm_cc_t)
')

# /dev/astro on qwlc
optional_policy(
    polaris_astro_dev_use(polaris_cm_cc_t)
')

# /dev/huron_fpga on Sumatra
optional_policy(
    polaris_huron_dev_use(polaris_cm_cc_t)
')
type polaris_nim_xxd_tmp_t;
files_tmp_file(polaris_nim_xxd_tmp_t)
files_tmp_filetrans(polaris_cm_cc_t, polaris_nim_xxd_tmp_t, file, "nim_xxd_present")
manage_files_pattern(polaris_cm_cc_t, polaris_nim_xxd_tmp_t, polaris_nim_xxd_tmp_t)
ifdef('starfleet_platform',
    # In cman_cc
    # cmcc_starfleet_act2_authentication_udi in cman/cc/src/cmcc_starfleet.c
    # cmcc_starfleet_cpuboard_act2_authentication_udi cman/cc/src/cmcc_starfleet.c
    # tam_lib_device_open infra/act2/tam_act2/tam_lib/src/tam_lib_device.c:
    polaris_act2_dev_use(polaris_cm_cc_t)
)

ifdef('crankshaft_family',
    # modprobe sm_nim_adpt.ko for Switzer-CC
    modutils_domtrans_insmod(polaris_cm_cc_t)
    # /dev/sm_nim_adpt device files for Switzer-CC
    polaris_sm_nim_adpt_dev_use(polaris_cm_cc_t)
)

# Mapping permission for /dev/shm/<name>
ifdef('crankshaft_family',
    gen_require('type systemd_tmpfiles_t;
    )
    mmap_files_pattern(systemd_tmpfiles_t, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
)

# on ngwc cmcc needs to access /dev/chdrvmmap for asic memory mapping
optional_policy('polaris_chdrvmmap_dev_use(polaris_cm_cc_t)
')

ifdef('vxe_family',
    # bind to BMC_AGENT_CLIENT_PORT port from cmcc_tlv_init
    corenet_tcp_bind_polaris_bmc_agent_client_port(polaris_cm_cc_t)
)

# allow /usr/binos/bin/cmcc to access /tmp/hd_sz
gen_require('type udev_tmp_t;
')
read_files_pattern(polaris_cm_cc_t, udev_tmp_t, udev_tmp_t)

# allow /usr/sbin/smartctl to be operated on fsadm_exec_t
fstools_exec(polaris_cm_cc_t)

# using existing interface "polaris_cm_rp_tmp_manage" for polaris_cm_cc_t
# to acces /tmp/cmlib_eeprom_sim_smartctl.out
polaris_cm_rp_tmp_manage(polaris_cm_cc_t)
files_tmp_filetrans(polaris_cm_cc_t, polaris_cm_rp_tmp_t, file, "cmlib_eeprom_sim_smartctl.out")

# allow access to /dev/nvme*
dev_nvme_chr_files_manage(polaris_cm_cc_t)
dev_nvme_blk_files_manage(polaris_cm_cc_t)

# access to /dev/ttyS0
term_use_unallocated_ttys(polaris_cm_cc_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmcc.te
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#
# June 2017, Victor Kamensky
#
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#

## <summary>Polaris tservice Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristservice.if
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#

## <summary>Polaris polarissortfiles Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissortfiles.if
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#
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#
## <summary>Polaris Storage Policy Rules.</summary>

# Persistent storage policy

### <summary>Make the specified type usable as default type for files in a Polaris persistent (bootflash, hardisk, etc) filesystem.</summary>

### <param name="type">Type to be used for files.</param>

```
interface(`polaris_disk_type',
    files_type($1)
    gen_require(
        attribute polaris_disk;
    ')
    typeattribute $1 polaris_disk;
')
```

### <summary>Make the specified type usable for files in a Polaris persistent (bootflash, hardisk, etc) filesystem.</summary>

### <param name="type">Type to be used for files.</param>

```
interface(`polaris_pfile_type',
    files_type($1)
    gen_require(
        attribute polaris_disk;
    ')
    typeattribute $1 polaris_disk;
')
```

### <summary>Read any regular file/directory from persistent storage.</summary>
## <summary>
## Domain allowed access.
## </summary>

# interface('polaris_persistent_read',

    gen_require(
        attribute polaris_disk;
    )

read_files_pattern($1, polaris_disk, polaris_disk)
read_lnk_files_pattern($1, polaris_disk, polaris_disk)
list_dirs_pattern($1, polaris_disk, polaris_disk)

')

#######################################
## Getattr of any regular file/directory from persistent storage.
## </summary>

## <param name="domain">
## Domain allowed access.
## </param>

# interface('polaris_persistent_getattr',

    gen_require(
        attribute polaris_disk;
    )

list_dirs_pattern($1, polaris_disk, polaris_disk)
getattr_files_pattern($1, polaris_disk, polaris_disk)
getattr_lnk_files_pattern($1, polaris_disk, polaris_disk)

')

#######################################
## Listdir of any regular directory from persistent storage.
## </summary>

## <param name="domain">
## Domain allowed access.
## </param>

# interface('polaris_persistent_list_dirs',

    gen_require(
        attribute polaris_disk;
    )
`list_dirs_pattern($1, polaris_disk, polaris_disk)
`

```

### <summary>
Write/read any regular file/directory from persistent storage.
</summary>

### <param name="domain">
Domain allowed access.
</param>

interface(`polaris_persistent_manage',
  gen_require(`
    attribute polaris_disk;
  `)
  manage_files_pattern($1, polaris_disk, polaris_disk)
  manage_dirs_pattern($1, polaris_disk, polaris_disk)
  manage_lnk_files_pattern($1, polaris_disk, polaris_disk)
)`

### <summary>
Map any regular file/directory from persistent storage.
</summary>

### <param name="domain">
Domain allowed access.
</param>

interface(`polaris_persistent_map',
  gen_require(`
    attribute polaris_disk;
  `)
  allow $1 polaris_disk:file map;
)`

# debug.conf

```
## <summary>
## Domain allowed access.
## </summary>

### packages.conf

---

## <summary>
## Read packages.conf from persistent storage.
## </summary>

### packages.conf

---

## <summary>
## Domain allowed access.
## </summary>

### packages.conf

---
## <summary>
## Domain allowed access.
## </summary>

```c
interface('polaris_manage_packages_conf',
    gen_require(
      type polaris_packages_conf_t;
      type polaris_disk_bootflash_t;
      type polaris_disk_harddisk_t;
    )
    manage_files_pattern($1, polaris_disk_bootflash_t, polaris_packages_conf_t)
    manage_files_pattern($1, polaris_disk_harddisk_t, polaris_packages_conf_t)
)
```

#########################################
## Write/read any regular file/directory from /varied
## <summary>
## Domain allowed access.
## </summary>

```c
interface('polaris_disk_varied_manage',
    gen_require(
      type polaris_disk_varied_t;
    )
    manage_files_pattern($1, polaris_disk_varied_t, polaris_disk_varied_t)
)
```

#########################################
## read any regular file/directory from /varied
## <summary>
## Domain allowed access.
## </summary>

```c
interface('polaris_disk_varied_read',
    gen_require(
      type polaris_disk_varied_t;
    )
)
```
read_files_pattern($1, polaris_disk_varied_t, polaris_disk_varied_t)
list_dirs_pattern($1, polaris_disk_varied_t, polaris_disk_varied_t)
)

########################################################
########################################################
## <summary>
## Search /varied directory
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface(`polaris_disk_varied_search`,
  gen_require(`
    type polaris_disk_varied_t;
    `)
  search_dirs_pattern($1, polaris_disk_varied_t, polaris_disk_varied_t)
)

########################################################
########################################################
## <summary>
## List/read /varied directory
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface(`polaris_disk_varied_list`,
  gen_require(`
    type polaris_disk_varied_t;
    `)
  list_dirs_pattern($1, polaris_disk_varied_t, polaris_disk_varied_t)
)

########################################################
########################################################
## Write/read/remove polaris_core_file_t file/directory from persistent storage.
## <param name="domain">
## Domain allowed access.
## <summary>
## Search polaris_core_file_t dir
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface(`polaris_core_file_read`,
  gen_require(`
    type polaris_core_file_t;
  `)
  allow $1 polaris_core_file_t:dir read;
  getattr_files_pattern($1, polaris_core_file_t, polaris_core_file_t)
')

##########################################################
## Read/Open/Search polaris_core_file_t dir
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface(`polaris_core_file_read`,
  gen_require(`
    type polaris_core_file_t;
  `)
  allow $1 polaris_core_file_t:dir read;
  getattr_files_pattern($1, polaris_core_file_t, polaris_core_file_t)
')
### <summary>
## Get attrib of bootflash fifo file.
### </summary>
### <param name="domain">
## Domain allowed access.
### </param>
#
interface(`polaris_disk_bootflash_fifo_file_getattr',
    gen_require(
        type polaris_disk_bootflash_t;
    )
    getattr_fifo_files_pattern($1, polaris_disk_bootflash_t,
        polaris_disk_bootflash_t)
)

### <summary>
## Get attrib of bootflash sock file.
### </summary>
### <param name="domain">
## Domain allowed access.
### </param>
#
interface(`polaris_disk_bootflash_sock_file_getattr',
    gen_require(
        type polaris_disk_bootflash_t;
    )
    getattr_sock_files_pattern($1, polaris_disk_bootflash_t,
        polaris_disk_bootflash_t)
)

### <summary>
## Read links of polaris_disk_bootflash_t
### </summary>
### <param name="domain">
## Domain allowed access.
### </param>
#
interface(`polaris_disk_bootflash_read_Lnk',
    gen_require(

type polaris_disk_bootflash_t;

read_lnk_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)

#######################################
## <summary>
## Search polaris_disk_bootflash_t dir
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface(`polaris_disk_bootflash_search',`
  gen_require(`
    type polaris_disk_bootflash_t;
  `)
  search_dirs_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
')

#######################################
## Write/read any regular file/directory under /csl_p_0/, /csl_p_1,
## /csl_s_0, and /csl_s_1
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface(`polaris_disk_csl_manage',`
  gen_require(`
    type polaris_disk_csl_p_t;
    type polaris_disk_csl_s_t;
  `)
  manage_files_pattern($1, polaris_disk_csl_p_t, polaris_disk_csl_p_t)
  manage_files_pattern($1, polaris_disk_csl_s_t, polaris_disk_csl_s_t)
  read_lnk_files_pattern($1, polaris_disk_csl_p_t, polaris_disk_csl_p_t)
  read_lnk_files_pattern($1, polaris_disk_csl_s_t, polaris_disk_csl_s_t)
')

########################################################################
## Write/read any regular file/directory under /csl_p_0/, /csl_p_1,
## /csl_s_0, and /csl_s_1
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface('polaris_disk_csl_read',
   gen_require(
      type polaris_disk_csl_p_t;
      type polaris_disk_csl_s_t;
   ')
read_files_pattern($1, polaris_disk_csl_p_t, polaris_disk_csl_p_t)
read_files_pattern($1, polaris_disk_csl_s_t, polaris_disk_csl_s_t)
read_lnk_files_pattern($1, polaris_disk_csl_p_t, polaris_disk_csl_p_t)
read_lnk_files_pattern($1, polaris_disk_csl_s_t, polaris_disk_csl_s_t)
'
)

#########################################################################
## <summary>
## Write/read any regular file/directory under /objstore,
## </summary>
## <param name='domain'>
## Domain allowed access.
## </param>
#
# interface('polaris_disk_objstore_manage',
   gen_require(
      type polaris_disk_objstore_t;
   ')
manage_files_pattern($1, polaris_disk_objstore_t, polaris_disk_objstore_t)
read_lnk_files_pattern($1, polaris_disk_objstore_t, polaris_disk_objstore_t)
'
)

interface('polaris_disk_objstore_read',
   gen_require(
      type polaris_disk_objstore_t;
   ')
read_files_pattern($1, polaris_disk_objstore_t, polaris_disk_objstore_t)
list_dirs_pattern($1, polaris_disk_objstore_t, polaris_disk_objstore_t)
'
)

#########################################################################
## <summary>
## Read links of polaris_disk_harddisk_t

---

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## <summary>
## Domain allowed access.
## </summary>

```cpp
interface('polaris_disk_harddisk_read_link',
    gen_require('type polaris_disk_harddisk_t;
    ')
    read_lnk_files_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
'}
```

## <summary>
## Read harddisk files
## </summary>

```cpp
interface('polaris_harddisk_read',
    gen_require('type polaris_disk_harddisk_t;
    ')
    read_files_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
    list_dirs_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
'}
```

## <summary>
## Read bootflash files
## </summary>

```cpp
interface('polaris_bootflash_read',
    gen_require('type polaris_disk_bootflash_t;
    ')
    read_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
)
read_lnk_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
list_dirs_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
')

########################################
## <summary>
##	Create an object in the polaris_disk_bootflash_t directories,
## with a private type using a type transition.
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed access.
##	</summary>
## </param>
## <param name="private type">
##	<summary>
##	The type of the object to be created.
##	</summary>
## </param>
## <param name="object">
##	<summary>
##	The object class of the object being created.
##	</summary>
## </param>
## <param name="name" optional="true">
##	<summary>
##	The name of the object being created.
##	</summary>
## </param>
interface('polaris_bootflash_filetrans',
    gen_require(
        type polaris_disk_bootflash_t;
    )
)

filetrans_pattern($1, polaris_disk_bootflash_t, $2, $3, $4)
)

########################################################################
## <summary>
##      Manage bootflash files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_harddisk_manage',
    gen_require(
        type polaris_disk_harddisk_t;
    )
)

manage_files_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
manage_link_files_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
manage_dirs_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
)

########################################################################
## <summary>
##Create an object in the polaris_disk_harddisk_t directories,
## with a private type using a type transition.
## </summary>
## <param name="domain">
##<summary>
##Domain allowed access.
## </summary>
## </param>
## <param name="private type">
##<summary>
##The type of the object to be created.
## </summary>
## </param>
## <param name="object">
##<summary>
##The object class of the object being created.
## </summary>
```c
interface("polaris_harddisk_filetrans",
    gen_require(
        type polaris_disk_harddisk_t;
    ')
    filetrans_pattern($1, polaris_disk_harddisk_t, $2, $3, $4)
')

### Getattr of polaris_disk_crashinfo_t (typically /crashinfo symbolic link and real disk it points to)
```
interface('polaris_disk_crashinfo_manage',
    gen_require(
        type polaris_disk_crashinfo_t;
    )
) manage_files_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
manage_lnk_files_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
manage_dirs_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)

#######################################
## <summary>
##	Read links of polaris_disk_crashinfo_t
## </summary>
## <param name="domain">
##	Domain allowed access.
## </param>
#
interface('polaris_disk_crashinfo_read_lnk',
    gen_require(
        type polaris_disk_crashinfo_t;
    )
) read_lnk_files_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)

#######################################
## <summary>
##	Write/read polaris_disk_license_t files/directories
## </summary>
## <param name="domain">
##	Domain allowed access.
## </param>
#
interface('polaris_disk_license_manage',
    gen_require(
        type polaris_disk_license_t;
    )
) manage_files_pattern($1, polaris_disk_license_t, polaris_disk_license_t)
manage_lnk_files_pattern($1, polaris_disk_license_t, polaris_disk_license_t)
allow $1 polaris_disk_license_t:file map;

######################################
## <summary>
##	Read polaris_disk_license_t files/directories
## </summary>
## <param name="domain">
##	Domain allowed access.
## </param>
#
interface('polaris_disk_license_read_lnk',
    gen_require(
        type polaris_disk_license_t;
    )
) read_lnk_files_pattern($1, polaris_disk_license_t, polaris_disk_license_t)
# interface('polaris_disk_license_read',
   gen_require(
       type polaris_disk_license_t;
   ')
   read_files_pattern($1, polaris_disk_license_t, polaris_disk_license_t)
   read_lnk_files_pattern($1, polaris_disk_license_t, polaris_disk_license_t)
')

# Get the attributes of an removable filesystem.
# interface('polaris_getattr_removable',
   gen_require(
       type removable_t;
   ')
   allow $1 removable_t:filesystem getattr;
   allow $1 removable_t:dir        getattr;
')

# Create, read, write, and delete all removable files.
# interface('polaris_removable_manage',
   gen_require(
       type removable_t;
   ')
manage_files_pattern($1, removable_t, removable_t)
manage_dirs_pattern($1, removable_t, removable_t)

########################################
## <summary>
##      read all removable files.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_removable_read',`
gen_require(`
   type removable_t;
')
read_files_pattern($1, removable_t, removable_t)
list_dirs_pattern($1, removable_t, removable_t)
read_lnk_files_pattern($1, removable_t, removable_t)
')

########################################
## <summary>
##      Get the attributes of silent roll partition
##      filesystem.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_getattr_filesystem_disk_ucode',`
gen_require(`
   type polaris_disk_ucode_t;
')
allow $1 polaris_disk_ucode_t:filesystem getattr;
')

########################################
## <summary>
##      Get the attributes of an bootflash
##      filesystem.
## </summary>
interface('polaris_getattr_bootflash','
  gen_require(
  type polaris_disk_bootflash_t;
  ')
)
allow $1 polaris_disk_bootflash_t:filesystem getattr;
')

interface('polaris_getattr_harddisk','
  gen_require(
  type polaris_disk_harddisk_t;
  ')
)
allow $1 polaris_disk_harddisk_t:filesystem getattr;
')

interface('polaris_getattr_file_harddisk','
  gen_require(
  type polaris_disk_harddisk_t;
  ')
)
getattr_files_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)

#######################################
## <summary>
##      Watch persistent file or directories
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface('polaris_persistent_watch',
    gen_require(
        attribute polaris_disk;
    )
    allow $1 polaris_disk: {dir file } watch;
)

#######################################
## <summary>
##     Create an object in the polaris_disk_crashinfo_t directories,
## with a private type using a type transition.
## </summary>
## <param name="domain">
##     <summary>
##     Domain allowed access.
##     </summary>
## </param>
## <param name="private type">
##     <summary>
##     The type of the object to be created.
##     </summary>
## </param>
## <param name="object">
##     <summary>
##     The object class of the object being created.
##     </summary>
## </param>
## <param name="name" optional="true">
##     <summary>
##     The name of the object being created.
##     </summary>
## </param>
## 
#
interface(`polaris_crashinfo_filetrans',`
  gen_require(`
    type polaris_disk_crashinfo_t;
  `)
)
  filetrans_pattern($1, polaris_disk_crashinfo_t, $2, $3, $4)
`)

########################################
## <summary>
##      Get the attributes of an polaris_disk_config_t
##      file or directory.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_getattr_disk_config',`
  gen_require(`
    type polaris_disk_config_t;
  `)
  getattr_files_pattern($1, polaris_disk_config_t, polaris_disk_config_t)
  getattr_dirs_pattern($1, polaris_disk_config_t, polaris_disk_config_t)
`)

########################################
## Create an object in the polaris_disk_config_t directories,
## with a private type using a type transition.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <param name="private type">
##      <summary>
##      The type of the object to be created.
##      </summary>
## </param>
## <param name="object">
##      <summary>
##      The object class of the object being created.
##      </summary>
## </param>
## <param name="name" optional="true">
###<summary>
The name of the object being created.
</summary>
### </param>
#
interface(`polaris_disk_config_filetrans`,
  gen_require(`
    type polaris_disk_config_t;
  `)
)
filetrans_pattern($1, polaris_disk_config_t, $2, $3, $4)
`

#######################################
### <summary>
###      Manage bootflash files mmap
### </summary>
### <param name="domain">
###      <summary>
###      Domain allowed access.
###      </summary>
### </param>
#
interface(`polaris_bootflash_files_mmap`,
  gen_require(`
    type polaris_disk_bootflash_t;
  `)
  mmap_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
`

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisstorage.if
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#
# March 2020, Victor Kamensky
#
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#

policy_module(polarisjvm, 1.0);

gen_require(`
  type polaris_jvm_t;
`)

# access /etc/passwd
auth_use_nsswitch(polaris_jvm_t)

# java through posix_sysconf accesses /sys/devices/system/cpu
# to get number of CPUs
dev_read_sysfs(polaris_jvm_t)

# checks whether IPV6 is configured accessing /proc/pid/net/if_inet6
kernel_read_network_state(polaris_jvm_t)

# handling ~/.oracle_jre_usage

type polaris_jvm_home_t;
files_type(polaris_jvm_home_t)
gen_require(
    type user_home_dir_t;
)
filetrans_pattern(polaris_jvm_t, user_home_dir_t, polaris_jvm_home_t, dir, ".oracle_jre_usage")
manage_dirs_pattern(polaris_jvm_t, user_home_dir_t, polaris_jvm_home_t)
manage_files_pattern(polaris_jvm_t, polaris_jvm_home_t, polaris_jvm_home_t)

# handling /tmp/hsperfdata_root

type polaris_jvm_tmp_t;
files_type(polaris_jvm_tmp_t)
gen_require(
    type tmp_t;
)
files_tmp_filetrans(polaris_jvm_t, polaris_jvm_tmp_t, dir, "hsperfdata_root")
manage_dirs_pattern(polaris_jvm_t, tmp_t, polaris_jvm_tmp_t)
manage_files_pattern(polaris_jvm_t, polaris_jvm_tmp_t, polaris_jvm_tmp_t)
mmap_files_pattern(polaris_jvm_t, polaris_jvm_tmp_t, polaris_jvm_tmp_t)

# listen on 9093 websocket tcp port
corenet_tcp_bind_polaris_poljvm_websocket_port(polaris_jvm_t)
corenet_tcp_bind_generic_node(polaris_jvm_t)
allow polaris_jvm_t self:tcp_socket create_stream_socket_perms;

# java uses jit and needs executable anonymous mapping
allow polaris_jvm_t self:process execmem;

# Allow JDK access to read cpu and memory utilization data on start up
gen_require(
    type proc_t;
)
allow polaris_jvm_t proc_t:file { getattrs open read };
fs_read_cgroup_files(polaris_jvm_t)
fs_search_cgroup_dirs(polaris_jvm_t)

Found in path(s):

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#
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#
### <summary>Polaris plogd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisjvm.te
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# March 2017, Victor Kamensky
#
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#
### <summary>Polaris hm Policy Rules.</summary>

###################################################################
### <summary>
### Write into fifo file created by hman, typical case when
### hman starts script under popen.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
### </summary>
### </param>
### <rolecap/>
#
interface(`polaris_hman_use_fifo',
    gen_require(
        type polaris_hm_t;
    )
    write_fifo_files_pattern($1, polaris_hm_t, polaris_hm_t)
')

###################################################################
### <summary>
### Read tmp files created by hman. I.e /tmp/myhostname.
## <summary>
## Domain allowed access.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolecap/>
#
interface('polaris_hm_tmp_read',
   gen_require(
       type polaris_hm_tmp_t;
   ')

read_files_pattern($1, polaris_hm_tmp_t, polaris_hm_tmp_t)
')

#################################################################
## <summary>
## Execute pkg_summary.sh in its own domain
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolecap/>
#
interface('polaris_pkg_summary_domtrans',
   gen_require(' 
       type polaris_pkg_summary_t;
       type polaris_pkg_summary_exec_t;
   ')

corecmd_search_bin($1)
   domtrans_pattern($1, polaris_pkg_summary_exec_t, polaris_pkg_summary_t)
')

#################################################################
## <summary>
## Execute pkg_to_tree.sh in its own domain
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolecap/>
#

interface('polaris_pkg_to_tree_domtrans',
    gen_require(
        type polaris_pkg_to_tree_t;
        type polaris_pkg_to_tree_exec_t;
    ')
)

corecmd_search_bin($1)
domtrans_pattern($1, polaris_pkg_to_tree_exec_t, polaris_pkg_to_tree_t)
')

# <summary>
# Execute hman in the polaris_cli_fs_cmds domain.
# </summary>
# <param name="domain">
# Domain allowed to transition.
# </param>
#
interface('polaris_cli_fs_cmds_domtrans',
    gen_require(
       type polaris_cli_fs_cmds_t, polaris_cli_fs_cmds_exec_t;
    ')
)
corecmd_search_bin($1)
domtrans_pattern($1, polaris_cli_fs_cmds_exec_t, polaris_cli_fs_cmds_t)
')

# <summary>
# Read file /tmp/pkg_summary.txt file
# </summary>
# <param name="domain">
# Domain allowed access.
# </param>
#
interface('polaris_pkg_summary_tmp_read',
    gen_require(
       type polaris_pkg_summary_tmp_t;
    ')
    read_files_pattern($1, polaris_pkg_summary_tmp_exec_t, polaris_pkg_summary_tmp_t)
')

# <summary>
## read the contents of /tmp/show_provision_temp
## </summary>
## <param name="domain">
##  <summary>
##      Domain allowed access.
##  </summary>
## </param>
#
# interface('polaris_show_provision_temp_read',
    gen_require(''
        type polaris_show_provision_tmp_t;
    ')
    read_files_pattern($1, polaris_show_provision_tmp_t, polaris_show_provision_tmp_t)
')

## <summary>
## manage the contents of /tmp/show_provision_temp
## </summary>
## <param name="domain">
##  <summary>
##      Domain allowed access.
##  </summary>
## </param>
#
# interface('polaris_show_provision_temp_manage',
    gen_require(''
        type polaris_show_provision_tmp_t;
    ')
    manage_files_pattern($1, polaris_show_provision_tmp_t, polaris_show_provision_tmp_t)
    manage_lnk_files_pattern($1, polaris_show_provision_tmp_t, polaris_show_provision_tmp_t)
    manage_dirs_pattern($1, polaris_show_provision_tmp_t, polaris_show_provision_tmp_t)
    files_tmp_filetrans($1, polaris_show_provision_tmp_t, { file dir })
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarishm.if

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#
# March 2017, Victor Kamensky
#
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#
# policy_module(polarispsvp, 1.0);
polaris_process_domain_template(psvp)

# transition to pman domain, once pman is invoked by psvp
polaris_pman_domtrans(polaris_psvp_t)
# transition to pvp domain, once pvp is invoked by psvp
polaris_pvp_domtrans(polaris_psvp_t)

corecmd_exec_bin(polaris_psvp_t)
corecmd_exec_shell(polaris_psvp_t)

# can execute process in polaris domain
polaris_exec(polaris_psvp_t)

# LOOK AT ME start-stop-daemon from busy box iterates all
# /proc/<pid> directories and reads /proc/<pid>/cmdline
# /proc/<pid>/exe. Le it need quite a bit of privileges
domain_read_all_domains_state(polaris_psvp_t)

# another issue of running busybox start-stop-daemon under
# psvp_t label
# type=AVC msg=audit(1480527500.482:46): avc: denied { sys_ptrace } for pid=14853 comm="start-stop-daem"
capability=19 scontext=system_u:system_r:polaris_psvp_t:s0 tcontext=system_u:system_r:polaris_psvp_t:s0
tclass=capability
allow polaris_psvp_t self:capability sys_ptrace;

# allow to read /proc/meminfo
domain_read_system_state(polaris_psvp_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_psvp_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_psvp_t)

# work with /tmp files
# type polaris_psvp_tmp_t;
files_tmp_file(polaris_psvp_tmp_t)
manage_dirs_pattern(polaris_psvp_t, tmp_t, polaris_psvp_tmp_t)
manage_files_pattern(polaris_psvp_t, polaris_psvp_tmp_t, polaris_psvp_tmp_t)
manage_fifo_files_pattern(polaris_psvp_t, polaris_psvp_tmp_t, polaris_psvp_tmp_t)
files_tmp_filetrans(polaris_psvp_t, polaris_psvp_tmp_t, { file dir })
filetrans_pattern(domain, tmp_t, polaris_psvp_tmp_t, dir, "psvp")

ifdef(`ngwc_family',`
# also need to be able to ls /tmp/ufs/ on ngwc
optional_policy(`
polaris_ncd_tmp_read(polaris_psvp_t)
allow polaris_psvp_t self:capability sys_resource;

polaris_pvp_getattrs_tmp_dirs(polaris_psvp_t)

dmidecode_domtrans(polaris_psvp_t)

polaris_btrace_data_manage(polaris_psvp_t)
polaris_chasfs_manage(polaris_psvp_t)
polaris_cpld_read(polaris_psvp_t)
polaris_cpld_write(polaris_psvp_t)
polaris_rmonbifo_tmp_read(polaris_psvp_t)
polaris_tdldb_list_dirs(polaris_psvp_t)
polaris_boot_tmp_read(polaris_psvp_t)
polaris_disk_crashinfo_getattr(polaris_psvp_t)
polaris_flashlib_read(polaris_psvp_t)
polaris_read_debug_conf(polaris_psvp_t)

allow polaris_psvp_t self:capability dac.override;

# watch /tmp/sai/psvp
allow polaris_psvp_t polaris_psvp_tmp_t:dir watch;

# creates /tmp/sai/pvp/rp/run_stg2
polaris_pvp_manage_tmp_files(polaris_psvp_t)

# Allow /tmp/ufs/bootflash & /tmp/ufs/harddisk read access
ifdef(`vwlc_platform',
  optional_policy(`
    polaris_ncd_tmp_read(polaris_psvp_t)
  `)
)

# permissions during shutdown
polaris_pvp_manage_tmp_files(polaris_psvp_t);

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#
# October 2019, Patrick O'Halloran
#
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policy_module(polariscrft, 1.0);

# CRFT policy

gen_require(
    attribute domain;
    attribute polaris_extended_domain;
)

# persistent CRFT files stored under crft_data
type polaris_crft_data_t;
files_type(polaris_crft_data_t)

# allow crft data file reside on persistent storage
polaris_pfile_type(polaris_crft_data_t)

attribute polaris_crft_data_domain;

typeattribute polaris_crft_data_t polaris_crft_data_domain;

# Start of mcp_crft_request context elements
polaris_utility_domain_template(crft_request)

# smand calls the mcp_crft_request.sh in bexec context
polaris_bexecute_domtrans(polaris_crft_request_t)
polaris_bexecute_domain(polaris_crft_request_t, polaris_crft_request_exec_t)

# read the cpld information
polaris_cpld_read(polaris_crft_request_t)

# dev/pty access as part of bexec operations
telnet_use_ptys(polaris_crft_request_t)

# filesystem attributes for df /
fs_getattr_xattr_fs(polaris_crft_request_t)

# btrace used in script uses these
polaris_btrace_tmppub_manage(polaris_crft_request_t)
polaris_use_btrace_fifo(polaris_crft_request_t)

# read /proc/rmbonbifo files such as env_var.sh
polaris_rmonbifo_tmp_read(polaris_crft_request_t)

# read /tmp/sw/boot/base_pkg
polaris_boot_tmp_manage(polaris_crft_request_t)
# ufs information captured by the chasfs utils
ifdef(`ngwc_family',`
optional_policy(`
polaris_ncd_tmp_manage(polaris_crft_request_t)
')
')

# scripts read /proc/cmdline
kernel_read_system_state(polaris_crft_request_t)

# ping the vrf
netutils_domtrans_ping(polaris_crft_request_t)
sysnet_domtrans_ifconfig(polaris_crft_request_t)

# rsync operations for members and standby rps
gen_require(`
    type rsync_exec_t;
    type rsync_port_t;
')
allow polaris_crft_request_t rsync_exec_t:file { execute execute_no_trans getattr map open read };
allow polaris_crft_request_t rsync_port_t:tcp_socket name_connect;

# access to /etc/hosts for rp/members information
gen_require(`
    type net_conf_t;
')
files_etc_filetrans(polaris_crft_request_t, net_conf_t, file, "hosts")
auth_use_nsswitch(polaris_crft_request_t)

# execute the bash script
corecmd_exec_bin(polaris_crft_request_t)

# net namespace filesystem
fs_read_nsfs_files(polaris_crft_request_t)
polaris_chasfs_manage(polaris_crft_request_t)

# script also accesses the persistent files from crft
polaris_persistent_manage(polaris_crft_request_t)
polaris_crft_data_manage_all(polaris_crft_request_t)

# ping operations via ip netns
gen_require(`
    type ifconfig_t;
')
netutils_domtrans_ping(ifconfig_t)

# Curl accesses from IoT boxes like petra/sparrow
gen_require(`
type polaris_curl_t;
    type polaris_iosd_t;
  
  )

allow polaris_curl_t  polaris_crft_request_t:process sigchld;

  # handle mktemp creation and cleanup
  files_manage_generic_tmp_dirs(polaris_crft_request_t)
  allow polaris_crft_request_t self:capability sys_resource;

  Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscrft.te
  No license file was found, but licenses were detected in source scan.

  #
  # July 2017, Victor Kamensky
  #
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  #

  policy_module(polaristamdrp, 1.0);

  gen_require("
    type polaris_tamd_rp_t;
  
  )

  polaris_btrace_data_manage(polaris_tamd_rp_t)
  polaris_crft_data_manage(polaris_tamd_rp_t)
  polaris_chasfs_manage(polaris_tamd_rp_t)
  polaris_tdlresolve_read(polaris_tamd_rp_t)
  polaris_tdlldb_list_dirs(polaris_tamd_rp_t)
  polaris_flashlib_read(polaris_tamd_rp_t)
  logging_send_syslog_msg(polaris_tamd_rp_t)

  # allow read of /etc/passwd
  auth_use_nsswitch(polaris_tamd_rp_t)

  polaris_cpld_read(polaris_tamd_rp_t)
  polaris_cpld_write(polaris_tamd_rp_t)
  polaris_quack_dev_use(polaris_tamd_rp_t)

  # tmp file for udi authentication
  type polaris_tamd_rp_tmp_t;
  files_tmp_file(polaris_tamd_rp_tmp_t);
  files_tmp_filenetrans(polaris_tamd rp_tmp_t, polaris_tamd rp_tmp_t, file, "tam_uid_validation")
  manage_files_pattern(polaris_tamd_rp_tmp_t, polaris_tamd_rp_tmp_t, polaris_tamd_rp_tmp_t)
  polaris_cm rp_tmp manage(polaris_tamd rp_tmp_t)
# hybrid tam needs access to /objstore/swtam

gen_require('  
type polaris_disk_objstore_t;  
type root_t;  
')

filetrans_pattern(polaris_tamd_rp_t, root_t, polaris_disk_objstore_t, dir, "objstore")
manage_dir_pattern(polaris_tamd_rp_t, polaris_disk_objstore_t, polaris_disk_objstore_t)
polaris_disk_objstore_manage(polaris_tamd_rp_t)

# need access to dash fpga to read/write TAM
optional_policy('  
polaris_dash_dev_use(polaris_tamd_rp_t)  
')

# access to /dev/dash_fpga device on fugazi platform
ifndef('fugazi_platform',  
polaris_dash_dev_mcp_use(polaris_tamd_rp_t)  
')

allow polaris_tamd_rp_t self:capability net_admin;

# LOOK AT ME tamd_rp needs shell access to do something like this
# sh -c "echo 0x04 > /sys/devices/platform/cpld/reg_rp_reset_control"
# need to rework into simple open,write,close
corecmd_exec_shell(polaris_tamd_rp_t)

# LOOK AT ME access should be restricted after /flash/dummy_check is removed,
# which is tracked under CSCvh68866. Allow access to bootflash till then.
polaris_bootflash_read(polaris_tamd_rp_t)

optional_policy('  
# Allow /dev/dmammap access
polaris_dmammap_dev_use(polaris_tamd_rp_t)  
')

# LOOK AT ME: /dev/mem access restriction
polaris_dev_mem_use(polaris_tamd_rp_t)

optional_policy('  
polaris_ngwc_shm_manage(polaris_tamd_rp_t)  
')

optional_policy('  
polaris_remap_mem_dev_use(polaris_tamd_rp_t)  
')

polaris_cpld_dev_use(polaris_tamd_rp_t)
optional_policy(
    # allow access to /sys/devices/virtual/misc/gpio/gpio_out_assert
    polaris_gpio_dev_read_write(polaris_tamd_rp_t)
)

optional_policy(
    polaris_quake_i2c_manage(polaris_tamd_rp_t)
)

# /dev/aikido access
polaris_aikido_dev_use(polaris_tamd_rp_t)

# tamlib debug file access
polaris_tamlib_dbg_file_manage(polaris_tamd_rp_t)

# tam gpio sysfs access
optional_policy(
    dev_rw_sysfs(polaris_tamd_rp_t)
)

ifdef(`petra_platform',`
    #allow access to /dev/i2c-0 for hash value
    polaris_i2c_use(polaris_tamd_rp_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristamdrp.te
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#
# March 2017, Victor Kamensky
#
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#

/usr/bin/os/conf/sort_files_by_inode.sh -- gen_context(system_u:object_r:polaris_sort_files_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissortfiles.fc
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#
# February 2020, Victor Kamensky
#
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policy_module(polariscedgestart, 1.0);

gen_require(
    type polaris_cedge_start_t;
)

circular_chasfs_manage(polaris_cedge_start_t)
circular_boot_tmp_read(polaris_cedge_start_t)
circular_bootflash_manage(polaris_cedge_start_t)
circular_cpld_read(polaris_cedge_start_t)
circular_flashlib_read(polaris_cedge_start_t)
circular_rmonbifo_tmp_read(polaris_cedge_start_t)
circular_btrace_tmppub_read(polaris_cedge_start_t)

circular_read_packages_conf(polaris_cedge_start_t)
circular_exec_bin(polaris_cedge_start_t)
circular_exec_shell(polaris_cedge_start_t)
auth_use_nsswitch(polaris_cedge_start_t)
circular_dmi_ports_fetch_domtrans(polaris_cedge_start_t)

circular_kernel_read_system_state(polaris_cedge_start_t)
circular_domain_read_all_domains_state(polaris_cedge_start_t)

circular_dev_read_sysfs(polaris_cedge_start_t)

circular_confd_domtrans(polaris_cedge_start_t)

circular_systemctl_start_logrotate.service
systemd_exec_systemctl(polaris_cedge_start_t)

circular_ethc_viptela
polaris_cedge_ethc_manage(polaris_cedge_start_t)

circular_install_assist.sh
polaris_install_engine_domtrans(polaris_cedge_start_t)

# write /bootflash/installer/images/pkg_boot_17.3.01/version
polaris_disk_install_manage(polaris_cedge_start_t)
gen_require("
    type polaris_disk_install_t;
")
# du -s /bootflash/.installer/images/pkg_boot_17.3.01/confd0/cdb
allow polaris_cedge_start_t polaris_disk_install_t:filesystem getattr;

# chown -R binos /bootflash/sdwan
fs_getattr_xattr_fs(polaris_cedge_start_t)
allow polaris_cedge_start_t self:capability { chown fowner net_admin };

# PLEASE LOOK AT ME cedge_start.sh modifies set of directories that
# are supposed to be read only, like usr_t, etc_t, root_t
files_rw_usr_dirs(polaris_cedge_start_t)
gen_require("'
    type usr_t;
')
manage_lnk_files_pattern(polaris_cedge_start_t, usr_t, usr_t)
libs_manage_lib_dirs(polaris_cedge_start_t)
gen_require("'
    type lib_t;
')
manage_lnk_files_pattern(polaris_cedge_start_t, lib_t, lib_t)
files_manage_etc_symlinks(polaris_cedge_start_t)
files_manage_var_symlinks(polaris_cedge_start_t)
# creates /home directory in root
gen_require("'
    type root_t;
')
manage_dirs_pattern(polaris_cedge_start_t, root_t, root_t)
manage_lnk_files_pattern(polaris_cedge_start_t, root_t, root_t)
# creates /var/log/sdwan
gen_require("'
    type var_log_t;
')
manage_dirs_pattern(polaris_cedge_start_t, var_log_t, var_log_t)
manage_lnk_files_pattern(polaris_cedge_start_t, var_log_t, var_log_t)
corecmd_manage_bin_files(polaris_cedge_start_t)

# PLEASE LOOK AT ME copy unit files into /lib/systemd/system
# cp /tmp/sw/rp/0/0/rp_daemons/mount/lib/systemd/system/logrotate.service /lib/systemd/system
gen_require("'
    type systemd_unit_file_t;
')
read_lnk_files_pattern(polaris_cedge_start_t, systemd_unit_file_t, systemd_unit_file_t)

# PLEASE LOOK AT ME need to have separate label for logrotate.service
# allow only to start if, do it once copy of logrotate.service is fixed
systemd_config_generic_services(polaris_cedge_start_t)
init_start(polaris_cedge_start_t)

# creates /var/log/confd
polaris_confd_var_log_manage(polaris_cedge_start_t)

# executes touch /etc/resolv.conf for case when it is missing
# check create_etc_resolv_conf make sure that it becomes net_conf_t
gen_require('''
    type net_conf_t;
')
files_etc_filetrans(polaris_cedge_start_t, net_conf_t, file, "resolv.conf")
sysnet_create_config(polaris_cedge_start_t)
sysnet_write_config(polaris_cedge_start_t)

# creates /var/confd0 when box boots with startup config disabled
polaris_confd_var_filetrans(polaris_cedge_start_t, dir, "confd0")
polaris_confd_var_dir_manage(polaris_cedge_start_t)

########################################################################################
# During controller-mode enablement/bringup,
# viptela scripts are not loaded as part of the base packages.
# viptela-start.sh script takes care of creating these references.
# It creates softlink copies them as below to desired location depending on the packaging (mono vs subpackage).
# "cp /usr/binos/conf/logrotate.service /lib/systemd/system"
# Below policy statement allow copy access needed for viptela-logrotate.sh
# for updating /lib/systemd/system and /usr/binos/conf path
write_files_pattern(polaris_cedge_start_t, systemd_unit_file_t, systemd_unit_file_t)

# While creating softlink as below
# "ln -sf /usr/binos/conf/viptela-logrotate.sh /usr/binos/conf/viptela-logrotate.sh"
# As the ln command tries to create the new link, it removes the already existing link.
# ln deletes the file associated with the path name if this path name is the last link to the file.
# If ln can't get rid of the conflicting path name, it does not attempt to establish the new link.
# If ln successfully removes the conflicting path name, it then establishes the link.
# delete file permissions are hence needed for ln command to perform unlinking previous link
files_delete_etc_files(polaris_cedge_start_t)

########################################################################################
# During cEdge upgrade, viptela-start.sh needs permissions to maintain the
# state of roll back timer in /bootflash/.rollback_timer/*
polaris_rbtimer_bootflash_manage(polaris_cedge_start_t)

#Nutella-XE - Vedge image install
# !/bin/bash /tmp/sw/rp/0/0/rp_security/mount/usr/binos/conf/viptela-start.sh
mount_domtrans(polaris_cedge_start_t)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscedgestart.te

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