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```
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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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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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1.7 go-restful 2.9.5+incompatible

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1.8 go-colorable 0.1.4

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1.9 gorilla 1.7.2

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1.14 goprotobuf 1.4.2

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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END OF TERMS AND CONDITIONS
Appendix: How to Apply These Terms to Your New Programs

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.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

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.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.25 gophercloud 0.1.0

1.25.1 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)
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](https://github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](https://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:

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

```go

```

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/539)
* [https://github.com/gophercloud/gophercloud/issues/555](https://github.com/gophercloud/gophercloud/issues/555)
* [https://github.com/gophercloud/gophercloud/issues/571](https://github.com/gophercloud/gophercloud/issues/571)
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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).

### 1.26 go-systemd 22.1.0

#### 1.26.1 Available under license:

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Version 2.0, January 2004

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1.27 go-runewidth 0.0.9

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1.28 msgp 1.1.0

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1.30 x-crypto 0.0.0-20190308221718

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1.31 bolt v1.3.1-etcd.8

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1.34 packer 1.7.1

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package api

import (
    "io/ioutil"
    "strings"
    "time"
)

type License struct {
    // The unique identifier of the license
    LicenseID string `json:"license_id"

    // The customer ID associated with the license
    CustomerID string `json:"customer_id"

    // If set, an identifier that should be used to lock the license to a
    // particular site, cluster, etc.
    InstallationID string `json:"installation_id"

    // The time at which the license was issued
    IssueTime time.Time `json:"issue_time"

    // The time at which the license starts being valid
    StartTime time.Time `json:"start_time"

    // The time after which the license expires
    ExpirationTime time.Time `json:"expiration_time"

    // The time at which the license ceases to function and can
    // no longer be used in any capacity
    TerminationTime time.Time `json:"termination_time"

    // The product the license is valid for
    Product string `json:"product"

    // License Specific Flags
    Flags map[string]interface{} `json:"flags"

    // List of features enabled by the license
    Features []string `json:"features"
}

type LicenseReply struct {
    Valid    bool
    License *License
}
func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
        return nil, err
    } else {
        return &reply, nil
    }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return "", err
    }
    defer resp.Body.Close()

    data, err := ioutil.ReadAll(resp.Body)
    if err != nil {
        return "", err
    }

    return string(data), nil
}

// LicenseReset will reset the license to the built-in one if it is still valid.
// If the built-in license is invalid, the current license stays active.
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("DELETE", "/v1/operator/license")
    r.setWriteOptions(opts)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()

    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }

    return &reply, nil
}
func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()

    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }

    return &reply, nil
}

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package github

import (
    "context"
    "fmt"
)

// LicensesService handles communication with the license related methods of the GitHub API.
// GitHub API docs: https://docs.github.com/en/free-pro-team@latest/rest/reference/licenses/type LicensesService service
// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {
    Name *string `json:"name,omitempty"
    Path *string `json:"path,omitempty"

    SHA       *string `json:"sha,omitempty"
    Size      *int    `json:"size,omitempty"
    URL       *string `json:"url,omitempty"
    HTMLURL   *string `json:"html_url,omitempty"
    GitURL    *string `json:"git_url,omitempty"
    DownloadURL *string `json:"download_url,omitempty"
    Type      *string `json:"type,omitempty"
    Content   *string `json:"content,omitempty"
    Encoding  *string `json:"encoding,omitempty"
    License   *License `json:"license,omitempty"
}

func (l RepositoryLicense) String() string {
    return Stringify(l)
}

// License represents an open source license.
type License struct {
    Key   *string `json:"key,omitempty"
    Name  *string `json:"name,omitempty"
    URL   *string `json:"url,omitempty"

    SPDXID         *string `json:"spdx_id,omitempty"
    HTMLURL        *string `json:"html_url,omitempty"
    Featured       *bool  `json:"featured,omitempty"
    Description    *string `json:"description,omitempty"
    Implementation *string `json:"implementation,omitempty"
    Permissions    *[]string `json:"permissions,omitempty"
    Conditions     *[]string `json:"conditions,omitempty"
    Limitations    *[]string `json:"limitations,omitempty"
    Body           *string `json:"body,omitempty"
}

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.

// GitHub API docs: https://docs.github.com/en/free-pro-team@latest/rest/reference/licenses/#list-all-licenses
func (s *LicensesService) List(ctx context.Context) (*[]*License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
return nil, nil, err
}

var licenses []*License
resp, err := s.client.Do(ctx, req, &licenses)
if err != nil {
    return nil, resp, err
}

return licenses, resp, nil

// Get extended metadata for one license.
//
// GitHub API docs: https://docs.github.com/en/free-pro-team@latest/rest/reference/licenses/#get-a-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)

    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }

    license := new(License)
    resp, err := s.client.Do(ctx, req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, nil
}

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package simulator

import (  
    "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 (m *LicenseManager) init(r *Registry) {  
    m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}  
}

if r.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
        }

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

    info.LicenseKey = key
    info.Labels = labels

    return info
}

Microsoft Azure-SDK-for-Go

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

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1.44 gojsonschema 1.1.0

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1.45 squirrel 1.2.0

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1.47 mitchellh-mapstructure 1.1.2

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1.48 go-yaml 2.2.2

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func initBsdClause2() {
    Licenses["freebsd"] = License{
        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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    Licenses["bsd"] = License{
        Name: "NewBSD",
        PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},
        Header: `All rights reserved.
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    Licenses["gpl2"] = License{
        Name: "GNU General Public License 2.0",
        PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
        Header: `This program is free software; you can redistribute it and/or
`
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`.
`
}
}
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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 it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

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        Name: "Apache 2.0",
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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
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1.53 fsnotify 1.4.7

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1.54 sprig 3.1.0

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1.57 spew 1.1.1

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From dso/aix/dso.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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1.60 mitchellh-copystructure 1.0.0

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1.63 net-snmp 5.7.2-49.el7_9.1

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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{})
}


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

  cmd.HostSystemFlag, ctx = flags.NewHostSystemFlag(ctx)  cmd.HostSystemFlag.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
  }

  if err := cmd.ClusterFlag.Process(ctx); err != nil {
    return err
  }

  return nil
}
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`
}

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/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
    "github.com/vmware/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
    // LicenseAssignmentManager.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 nil
}
result = append(result, license)
}

return cmd.WriteResult(licenseOutput(result))
}

#!/usr/bin/env bats
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[] | select(.Key == \"$2\") | .Value"
}

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 00000-00000-00000-00000-00000 00000-00000-00000-00000-00001
    assert_success

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

@test "license.remove" {
esx_env
verify_evaluation

run govc license.remove -json 00000-00000-00000-00000-00000
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" "$(get_key 00000-00000-00000-00000-00000 <<<$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

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

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
LicenseKey: "00000-00000-00000-00000-00000-00000",
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{
    m.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 soap.NewFault(err)
}
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{
        Res: new(types.UpdateLicenseLabelResponse)
    }

    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{
        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,}
    }
}


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"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/types"
}

type label struct {
    *flags.ClientFlag
}

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

cmd := license.NewLabelCommand("license.label.set")
cmd.ClientFlag = flags.NewClientFlag()
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 -r '[] | select(.Labels[].Key == "team") | .LicenseKey'
    
    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 -r '[] | select(.Labels[].Key == "team") | .LicenseKey'
}

cmd := license.NewLabelCommand("license.label.set")
cmd.ClientFlag = flags.NewClientFlag()
cmd.ClientFlag.Register(ctx, f)

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

    // Add or set label
    label := "00000-00000-00000-00000-00000 team cnx"
    err = methods.SetLicenseLabel(client, label)
    if err != nil {
        return err
    }

    // Remove label
    label := "00000-00000-00000-00000-00000 team"
    err = methods.RemoveLicenseLabel(client, label)
    if err != nil {
        return err
    }

    // List labels
    labels, err := methods.ListLicenseLabels(client)
    if err != nil {
        return err
    }

    // Print labels
    for _, label := range labels {
        fmt.Println(label)
    }

    return nil
}

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()
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)
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")
}
```go
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()
    defer s.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")
    }

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

func TestAddRemoveLicense(t *testing.T) {
```
ctx := 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"}, info.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)
}

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"  
)

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
    }

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 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])
    }

    return lf
}
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
type 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
    }
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
    }

    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"
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
    }

    // Further code here...
}
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:\tScope:\tName:\tLicense:\n")
    for _, v := range res {
        fmt.Fprintf(tw, "%s\t", v.EntityId)
        fmt.Fprintf(tw, "%s\t", v.Scope)
        fmt.Fprintf(tw, "%s\t", v.EntityDisplayName)
        fmt.Fprintf(tw, "%s\t", v.AssignedLicense.LicenseKey)
        fmt.Fprintf(tw, "\n")
    }
    return tw.Flush()
}

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package license

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\t", v.LicenseKey)
    }
    return tw.Flush()
}

func (res licenseOutput) WriteAsTable(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\t", v.LicenseKey)
    }
    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)
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)
    if err != nil {
        return nil, err
    }
    return &res.Returnval, nil
}

1.72 libnetfilter-cttimeout 1.0.0-7.el7

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1.74 glob 0.2.3

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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 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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## 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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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
    }
    return m
}
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 *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{
        Res: &types.QueryAssignedLicensesResponse{ },
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {

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

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

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)

*/

For the expat xml parser component:

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<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head>!--
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
This file is generated from xml source: DO NOT EDIT
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var comments_shortname = 'httpd';
var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
(function(w, d) {
  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
    --><!--</script>
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1.83 x-time-rate 0.0.0-20191024005414-555d28b269f0

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

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1.87 zlib 1.2.8

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1.88 gcfg 1.2.0

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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
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  Original author of sensord.
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  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

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1.104 go-yaml 2.2.8

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1.105 iproute 4.11.0 25.el7

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From: Andrea Claudi <aclaudi@redhat.com>
Date: Mon, 29 Apr 2019 20:09:13 +0200
Subject: [PATCH] ip{6, }tunnel: Avoid copying user-supplied interface name around
Bugzilla: https://bugzilla.redhat.com/show_bug.cgi?id=1465646
Upstream Status: iproute2.git commit 26111ab1dba82
Author: Phil Sutter <phil@nw1.cc>
Date: Mon Oct 2 13:46:35 2017 +0200

ip{6, }tunnel: Avoid copying user-supplied interface name around

In both files' parse_args() functions as well as in iptunnel's do_pr1() and do_6rd() functions, a user-supplied 'dev' parameter is uselessly copied into a temporary buffer before passing it to ll_name_to_index() or copying into a struct ifreq. Avoid this by just caching the argv pointer value until the later lookup/strcpy.

Signed-off-by: Phil Sutter <phil@nw1.cc>
---
ip/ip6tunnel.c |  6 +++---
ip/iptunnel.c  | 22 +++++++++-------------
2 files changed, 12 insertions(+), 16 deletions(-)
diff --git a/ip/ip6tunnel.c b/ip/ip6tunnel.c
index b4a7def144226..c12d700e74189 100644
--- a/ip/ip6tunnel.c
+++ b/ip/ip6tunnel.c
@@ -136,7 +136,7 @@ static void print_tunnel(struct ip6_tnl_parm2 *p)
 static int parse_args(int argc, char **argv, int cmd, struct ip6_tnl_parm2 *p)
 {
     int count = 0;
-    char medium[IFNAMSIZ] = {};
+    const char *medium = NULL;
    while (argc > 0) {
        if (strcmp(*argv, "mode") == 0) {
            break;
@@ -180,7 +180,7 @@ static int parse_args(int argc, char **argv, int cmd, struct ip6_tnl_parm2 *p)
         memcpy(&p->laddr, &laddr.data, sizeof(p->laddr));
     } else if (strcmp(*argv, "dev") == 0) { 
         NEXT_ARG();
-        strncpy(medium, *argv, IFNAMSIZ - 1);
+        medium = *argv;
     } else if (strcmp(*argv, "encaplimit") == 0) {
         NEXT_ARG();
         if (strcmp(*argv, "none") == 0) {
@@ -285,7 +285,7 @@ static int parse_args(int argc, char **argv, int cmd, struct ip6_tnl_parm2 *p)
             count++;
         } else if (strcmp(*argv, "none") == 0) {
             count++;
-        if (medium[0]) {
+if (medium) {
  p->link = ll_name_to_index(medium);
if (p->link == 0) {
  fprintf(stderr, "Cannot find device \"%s\"\n", medium);
  }
  }
  }
}

+++

---

@@ -60,7 +60,7 @@ static void set_tunnel_proto(struct ip_tunnel_parm *p, int proto)
static int parse_args(int argc, char **argv, int cmd, struct ip_tunnel_parm *p)
{
  int count = 0;
-  char medium[IFNAMSIZ] = { }; 
+  const char *medium = NULL;
  int isatap = 0;

  memset(p, 0, sizeof(*p));
@@ -139,7 +139,7 @@ static int parse_args(int argc, char **argv, int cmd, struct ip_tunnel_parm *p)
  p->iph.saddr = htonl(INADDR_ANY);
  }
  else if (strcmp(*argv, "dev") == 0) {
    NEXT_ARG();
-    strncpy(medium, *argv, IFNAMSIZ - 1);
+    medium = *argv;
    }
  else if (strcmp(*argv, "ttl") == 0 ||
            strcmp(*argv, "hoplimit") == 0 ||
            strcmp(*argv, "hlim") == 0) {
@@ -216,7 +216,7 @@ static int parse_args(int argc, char **argv, int cmd, struct ip_tunnel_parm *p)
          }
        }
@@ -465,9 +465,8 @@ static int do_prl(int argc, char **argv)
          }
        }

-  if (medium[0]) {
+  if (medium) {
    p->link = ll_name_to_index(medium);
    if (p->link == 0) {
      fprintf(stderr, "Cannot find device \"%s\"\n", medium);
@@ -488,8 +487,7 @@ static int do_prl(int argc, char **argv)
        }
        }
      }
      }

      }
      }

    }
    int count = 0;
    -int devname = 0;
    int cmd = 0;
    -char medium[IFNAMSIZ] = { };
    +const char *medium = NULL;

    while (argc > 0) {
      if (strcmp(*argv, "prl-default") == 0) {
@@ -488,8 +487,7 @@ static int do_prl(int argc, char **argv)
          count++;
          }
          }
          }
        }
        }

        }
        }
      }
      }

      }
} else if (strcmp(*argv, "dev") == 0) {
NEXT_ARG();
-strcpy(medium, *argv, IFNAMSIZ-1);
-devname++;
+medium = *argv;
} else {
fprintf(stderr,
"Invalid PRL parameter \"%s\"", *argv);
@@ -502,7 +500,7 @@ static int do_prl(int argc, char **argv)
} argc--; argv++;
}
-if (devname == 0) {
+if (!medium) {
fprintf(stderr, "Must specify device\n");
exit(-1);
}
@@ -513,9 +511,8 @@ static int do_prl(int argc, char **argv)
static int do_6rd(int argc, char **argv)
{
 struct ip_tunnel_6rd ip6rd = {};
-int devname = 0;
 int cmd = 0;
-char medium[IFNAMSIZ] = {};
+const char *medium = NULL;
 inet_prefix prefix;

 while (argc > 0) {
@@ -537,8 +534,7 @@ static int do_6rd(int argc, char **argv)
cmd = SIOCDEL6RD;
 } else if (strcmp(*argv, "dev") == 0) {
NEXT_ARG();
-strcpy(medium, *argv, IFNAMSIZ-1);
-devname++;
+medium = *argv;
} else {
fprintf(stderr,
"Invalid 6RD parameter \"%s\"", *argv);
@@ -546,7 +542,7 @@ static int do_6rd(int argc, char **argv)
} argc--; argv++;
}
-if (devname == 0) {
+if (!medium) {
fprintf(stderr, "Must specify device\n");
exit(-1);
} --
1.106 google-api-go-client 0.15.0

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package api

import (
    "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\.)\*(//|#) Use of this source code is governed by a BSD-style
(//|#) license that can be found in the LICENSE file.
`
)

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)
    }
}

1.107 rsync 3.1.2-10.el7
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1.114 ghodss-yaml 1.0.0

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1.122 go-autorest 0.1.0

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1.123 perl 5.16.3-297.el7

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1.124 go-capability

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

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.135 pb 1.0.25

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1.139 x-image v0.0.0-20190227222117-0694c2d4d067

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1.140 grpc-gateway 1.9.5

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Gocheck - A rich testing framework for Go

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1.148 hey 0.1.3

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1.151 golang-lru 0.5.1

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1.152 go-runtime 1.15

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Jan Holmberg, <jan@artech.net>:
- Memory framework
- HTTP/SSL checkers

Bradley Baetz, <bradley.baetz@optusnet.com.au>:
- MISC checker redesign
- Scheduler framework extension to support child process handling.
- Daemon framework extension to block SIGCHLD to only receive it when its unblocked in the scheduling select loop.

Jeremy Rumpf, <rumpf.6@osu.edu>:
- Added SMTP checker

Chris Caputo, <ccaputo@alt.net>:
- Added dont_track_primary, nopreempt, preempt_delay, and misc_dynamic.

Kevin Lindsay, <kevinl@netnation.com>:
- Fixed shadowed declaration reported by -Wshadow.
- Redesigned signal handling.

Nick Couchman, <nick.couchman at seakr.com>:
- Patch for u_threshold and l_threshold support.

Willy Tarreau, <w@1wt.eu>:
- Extended VRRP framework to support floating priority.

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

1.166 ozzo-validation 3.5.0

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1.168 masterminds-semver 3.1.0

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1.169 docker 1.4.2-0.20200203170920-46ec8731fbce

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