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1.12 govmomi 1.0.0
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package license

import (
    "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,
    }

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
}

package license

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

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

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

return err
}

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*/

package license

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

    "github.com/vmware/govmomi/gove/cli"
type assigned struct {
*flags.ClientFlag
*flags.OutputFlag

id string
}

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

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

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

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

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

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

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

assigned, err := m.QueryAssigned(ctx, cmd.id)
if err != nil {
    return err
}

return cmd.WriteResult(assignedOutput(assigned))
}

type assignedOutput []types.LicenseAssignmentManagerLicenseAssignment

func (res assignedOutput) Write(w io.Writer) error {
    tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)
    fmt.Fprintf(tw, "Id:\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)
        fmt.Fprintf(tw, "%s\t", v.EditionKey)
        fmt.Fprintf(tw, "%d\t", v.Used)
        fmt.Fprintf(tw, "%d\t", v.Total)
        fmt.Fprintf(tw, "\n")
    }
    return tw.Flush()
}

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package license

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    "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{ })
}

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

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

func (cmd *label) Description() string {
    return `Set license labels.

Examples:
govc license.label.set 00000-00000-00000-00000-00000 team cnx # add/set label
govc license.label.set 00000-00000-00000-00000-00000 team "" # remove label
govc license.ls -json | jq ".[].| select(.Labels[].Key == "team") | .LicenseKey"
}

func (cmd *label) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    
    m := license.NewManager(client)
    
    if f.NArg() != 3 {
        return flag.ErrHelp
    }
    
    req := types.UpdateLicenseLabel{
        This:       m.Reference(),
        LicenseKey: f.Arg(0),
        LabelKey:   f.Arg(1),
        LabelValue: f.Arg(2),
    }
    
    _, err = methods.UpdateLicenseLabel(ctx, m.Client(), &req)
    return err
}

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 */

package 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
    }
}

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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
    // LicenseAssigningManager.updateAssignedLicense for VirtualCenter.
    //
    var addFunc func(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error)
    switch t := client.ServiceContent.About.ApiType; t {
    case "HostAgent":
        addFunc = m.Update
    case "VirtualCenter":
        addFunc = m.Add
    default:
        return fmt.Errorf("unsupported ApiType: %s", t)
    }

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

    return cmd.WriteResult(licenseOutput(result))
}

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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(bl) != 0 {
    t.Errorf("unexpected license")
}

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

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

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

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

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

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

defer m.Remove()

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

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

er := 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)
}
package license

import (
    "context"
    "flag"
    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/govc/license"
)

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

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

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

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

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

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

func (cmd *remove) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    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"
    "strconv"
    "strings"
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/types"
)

type Manager struct {
    object.Common
}

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

    return &m
}

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

    return r
}

func (m Manager) Add(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error) {
    req := types.AddLicense{
        This:       m.Reference(),
    }

    return m.Vim25Client.CallWithContext(ctx, methods.AddLicense, &req)
LicenseKey: key,
Labels: mapToKeyValueSlice(labels),
}

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

return res.Returnval, nil
}

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

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

    return res.Returnval, nil
}

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

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

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

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

    return res.Returnval, nil
}
func (m Manager) List(ctx context.Context) (InfoList, error) {
    var mlm mo.LicenseManager
    err := m.Properties(ctx, m.Reference(), []string{"licenses"}, &mlm)
    if err != nil {
        return nil, err
    }
    return InfoList(mlm.Licenses), nil
}

func (m Manager) AssignmentManager(ctx context.Context) (*AssignmentManager, error) {
    var mlm mo.LicenseManager
    err := m.Properties(ctx, m.Reference(), []string{"licenseAssignmentManager"}, &mlm)
    if err != nil {
        return nil, err
    }
    if mlm.LicenseAssignmentManager == nil {
        return nil, object.ErrNotSupported
    }
    am := AssignmentManager{
        object.NewCommon(m.Client(), *mlm.LicenseAssignmentManager),
    }
    return &am, nil
}

type licenseFeature struct {
    name  string
    level int
}

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

return lf
}

func HasFeature(license types.LicenseManagerLicenseInfo, key string) bool {
    feature := parseLicenseFeature(key)
    for _, p := range license.Properties {
        if p.Key != "feature" {
            continue
        }
        kv, ok := p.Value.(types.KeyValue)
        if !ok {
            continue
        }
        If := parseLicenseFeature(kv.Key)
        if If.name == feature.name && If.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 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".
            }
        }
    }
}
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"})
}
type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{
            
    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }
            if Map.Get(id) == nil {
                return body
            }
        }
    }
    body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
        {
            EntityId: req.EntityId,
            AssignedLicense: EvalLicense,
        },
    }
    return body
}

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

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package license

import (
    "context"
    "flag"

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

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

    name   string
    remove bool
}

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

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

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

    cmd.HostSystemFlag, ctx = flags.NewHostSystemFlag(ctx)
    cmd.HostSystemFlag.Register(ctx, f)

    cmd.ClusterFlag, ctx = flags.NewClusterFlag(ctx)
    cmd.ClusterFlag.Register(ctx, f)

    cmd.HostSystemFlag, ctx = flags.NewHostSystemFlag(ctx)
    cmd.HostSystemFlag.Register(ctx, f)
cmd.ClusterFlag, ctx = flags.NewClusterFlag(ctx)
cmd.ClusterFlag.Register(ctx, f)

f.StringVar(&cmd.name, "name", "", "Display name")
f.BoolVar(&cmd.remove, "remove", false, "Remove assignment")
}

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

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

func (cmd *assign) Description() string {
    return `Assign licenses to HOST or CLUSTER.
Examples:
govc license.assign $VCSA_LICENSE_KEY
govc license.assign -host a_host.example.com $ESX_LICENSE_KEY
govc license.assign -cluster a_cluster $VSAN_LICENSE_KEY`
}

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"  
   "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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#!/usr/bin/env bats
load test_helper bats

description "These tests should only run against a server running an evaluation license.
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 -r ".[].[] | 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


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

@test "license.remove" {
esx_env

verify_evaluation

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

@test "license.ls" {
vcsim_env

verify_evaluation

run govc license.ls -json
assert_success
# Expect the test instance to run in evaluation mode
assert_equal "Evaluation Mode" "$(get_key 00000-00000-00000-00000-00000 <<<$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)"
}

1.13 x-sys 1.0.0
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1.14 go-yaml 2.3.0

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1.16 go-grpc-prometheus 1.2.1-0.20191002090509-6af20e3a5340

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

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# Please keep the list sorted.
#
# Use the following command to generate the list
#
#git shortlog -se | awk '{print $2 " " $3 " " $4}’
#
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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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1.30 klauspost-compress 1.9.5

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1.31 google-uuid 1.1.1

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1.32 groupcache 1.0.0

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1.33 glob 0.2.3

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1.34 tablewriter 0.0.4

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1.35 go-grpc-prometheus 1.2.0

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1.47 gorilla 1.4.2

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1.48 gomemcache 1.0.0

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1.51 x-net 1.0.0

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1.54 goprotobuf 1.4.2

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1.55 go-runewidth 0.0.7

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1.56 go-jose 2.4.1

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1.68 golang-snappy 0.0.1

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1.69 go-md2man 2.0.0-20190314233015-f79a8a8ca69d

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1.70 benbjohnson-clock 1.1.0

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1.71 prometheus 1.8.2-0.20200727090838-
6f296594a852

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    URL  string `json:"url,omitempty"`
}

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