oVirt

oVirt Updates

23 October 2013

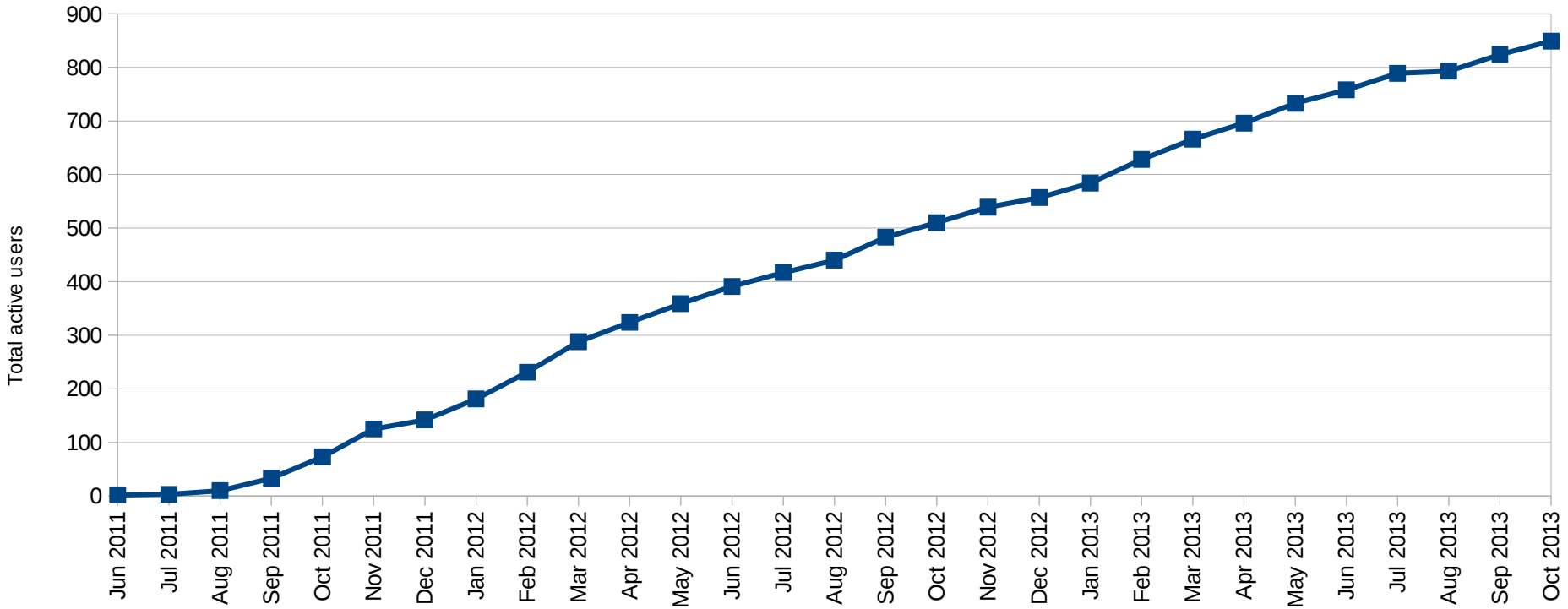
Itamar Heim
iheim@redhat.com

Agenda

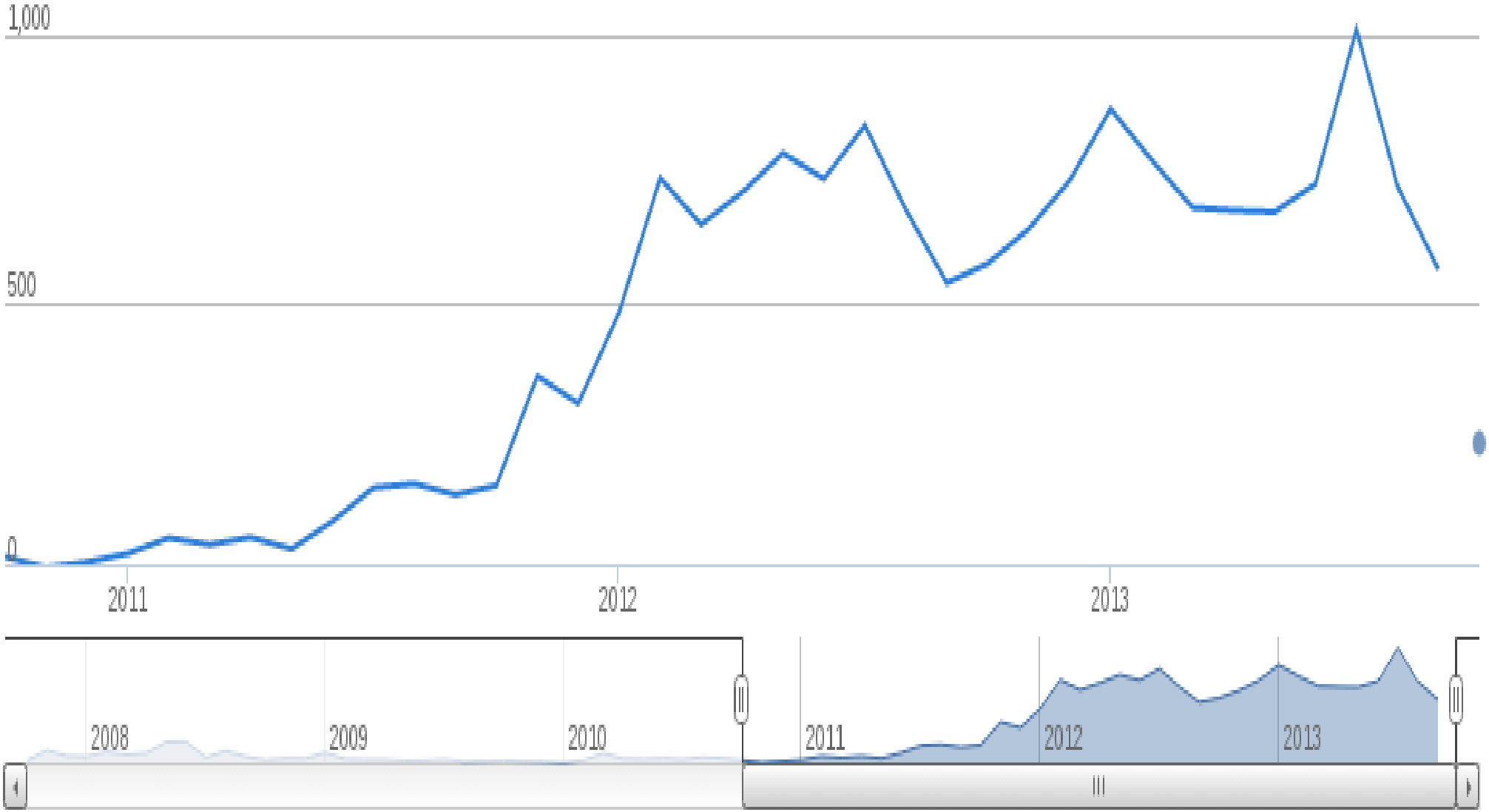
- Community
- Events
- Updates
- Feature Highlights
- Roadmap

Users Mailing List

- ~650 subscribers to users
- ~150 non subscribers send emails to it
- ~200 (20%) from redhat, ~180 from gmail, most other come from unique domains



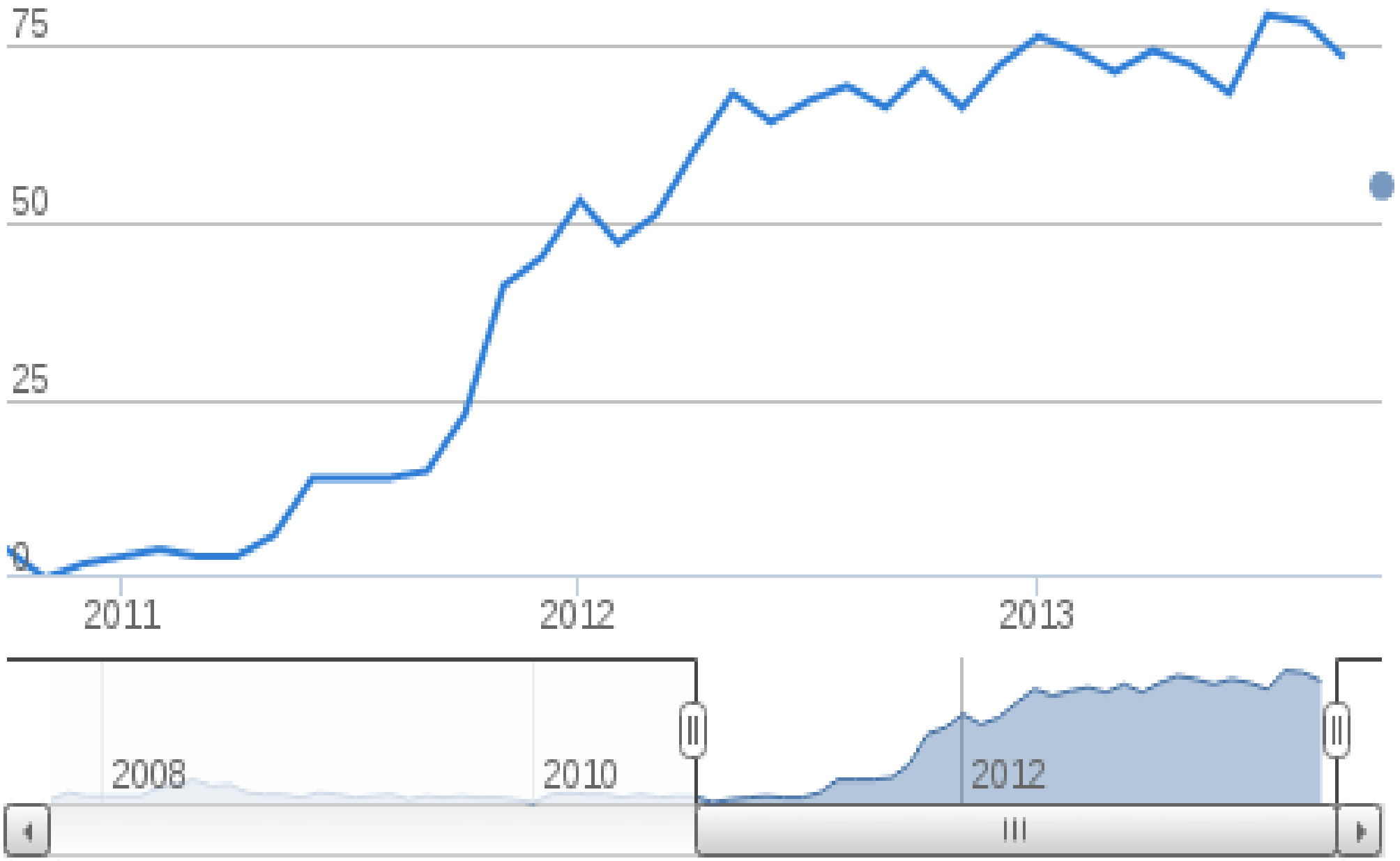
oVirt Commits per Month



https://www.ohloh.net/p/oVirt/commits/summary

Contributors per Month

oVirt



2013 Releases

- 02/2013 - oVirt 3.2 GA
- 04/2013 - oVirt 3.2.1 - .el6 (CentOS/RHEL) support
- 09/2013 - oVirt 3.3
- 10/2013 - oVirt 3.3.1 (in beta)
- 02/2014 – oVirt 3.4 (planned)

Events – Busy Year for oVirt!

oVirt

- 01/2013 – oVirt workshop, NetApp, CA, USA
- 01/2013 – linux.conf.au, Australia (oVirt Intro)
- 02/2013 – Fosdem, Belgium (6 sessions, booth)
- 03/2013 – oVirt workshop, Intel, Shanghai, China
- 03/2013 - FOSS Stockholm (oVirt Intro)
- 04/2013 – OpenStack Summit, CA, USA (oVirt as Compute Resources)
- 05/2013 – CloudOpen Japan (oVirt Intro, SLA)
- 05/2013 - Linuxwochen Vienna, Austria (oVirt Intro)

Events – Busy Year for oVirt!

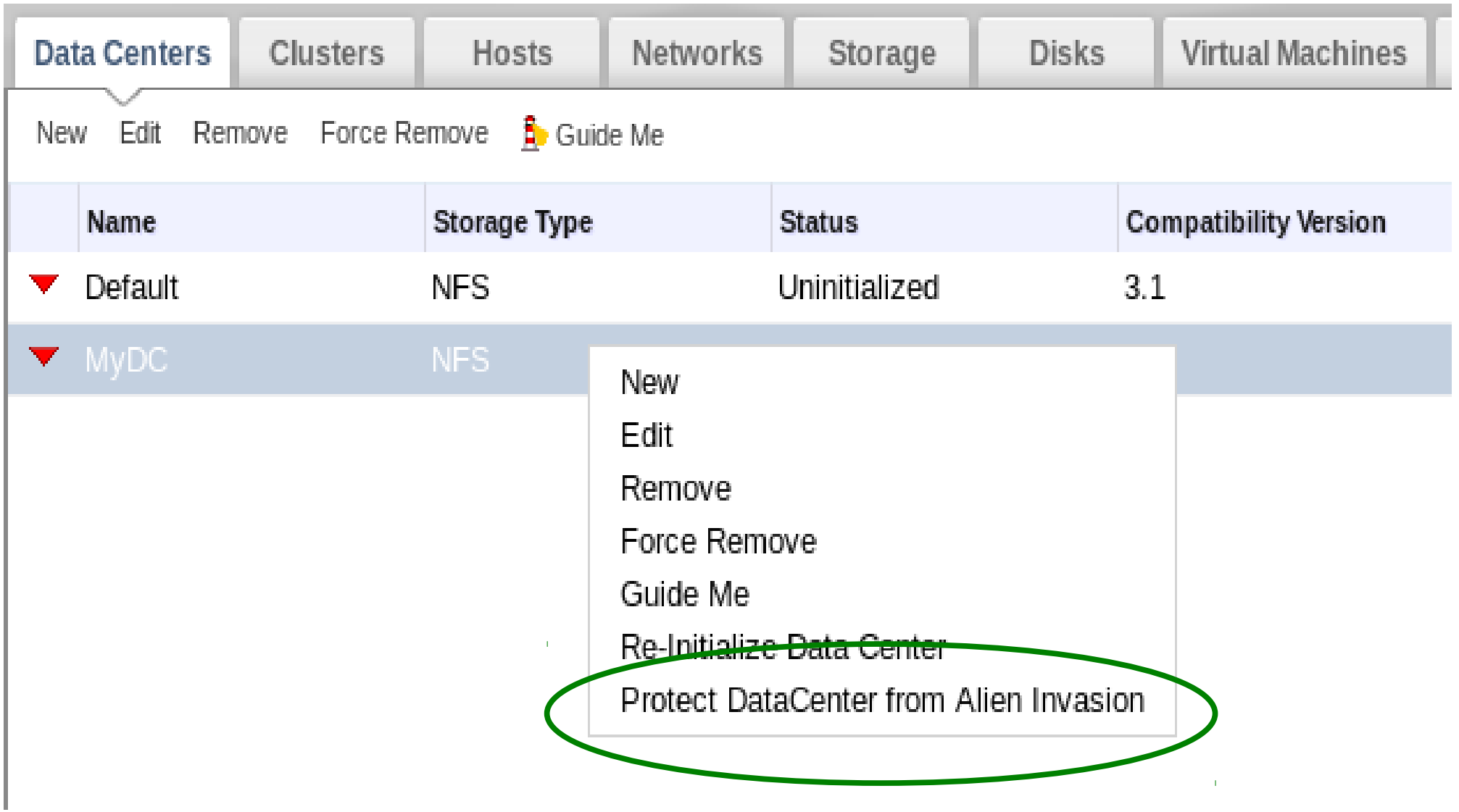
oVirt

- 06/2013 – Red Hat Summit (oVirt booth)
- 07/2013 – FISL14, Brazil (4 sessions, booth)
- 07/2013 - Seemanta Engineering College, Odisha, India (oVirt hands on lab)
- 08/2013 – August Pinguin, Israel (oVirt Intro)
- 09/2013 – CloudOpen NA (oVirt Intro, SLA)
- 09/2013 – k-lug, MN, USA (oVirt Intro)
- **10/2013 – CloudOpen, KVM/oVirt, UK (lots...)**
- 10/2013 – OSDC, Germany (oVirt Intro)

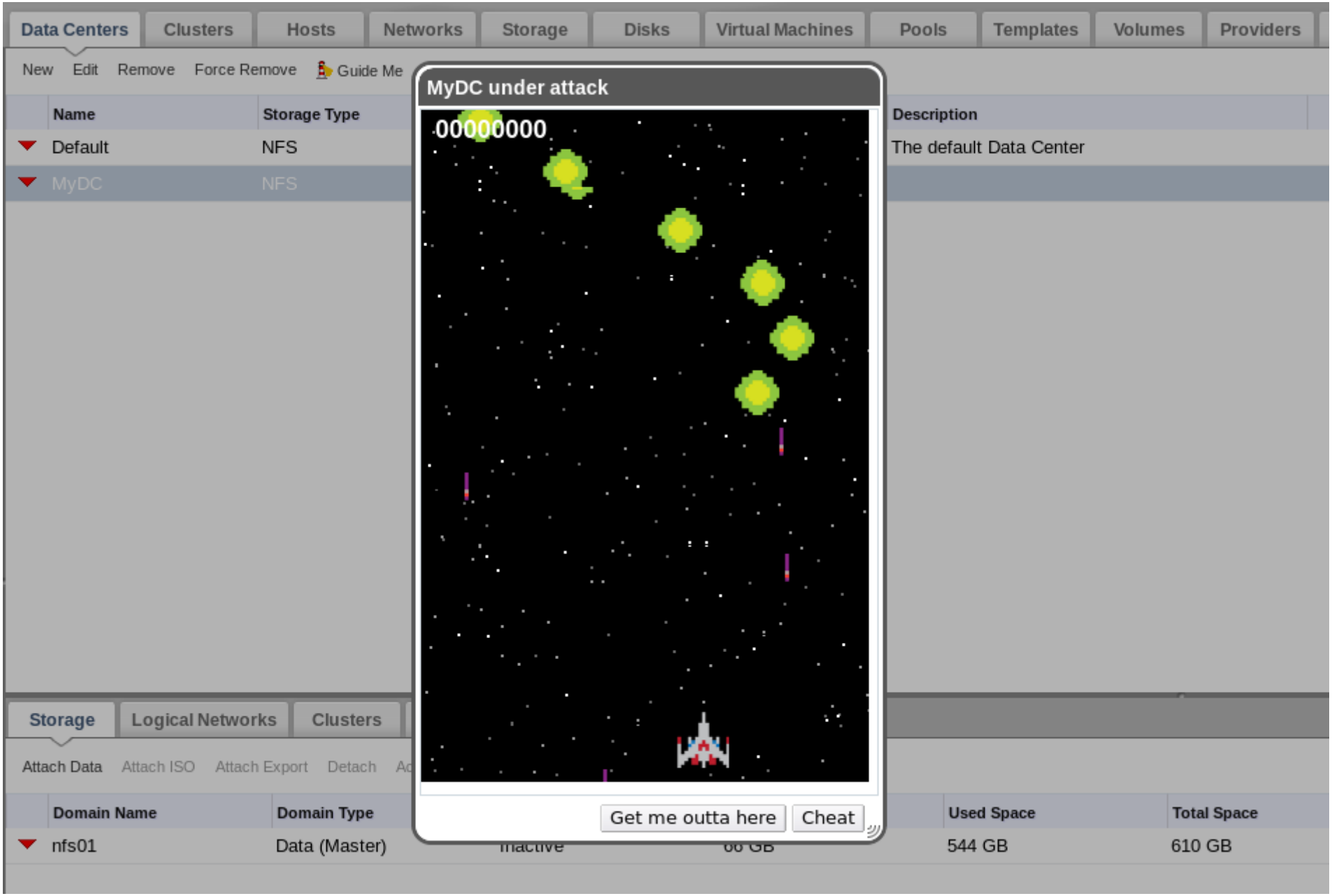
oVirt Monthly Updates (highlights)

- **Vagrant** support for oVirt/RHEV added
- ovirt_metrics - ActiveRecord-based gem for reading the oVirt History database
- **libgovirt** - G Object C library for oVirt REST API
- DEMO: oVirt - GlusterFS Native Integration for KVM Virtualization
- **Ubuntu and SUSE guest OS**s added to oVirt
- using oVirt to build a virtualization platform on an IBM BladeCenter
- How to create and provision an oVirt VM with **Ansible**
- oVirt works with samba

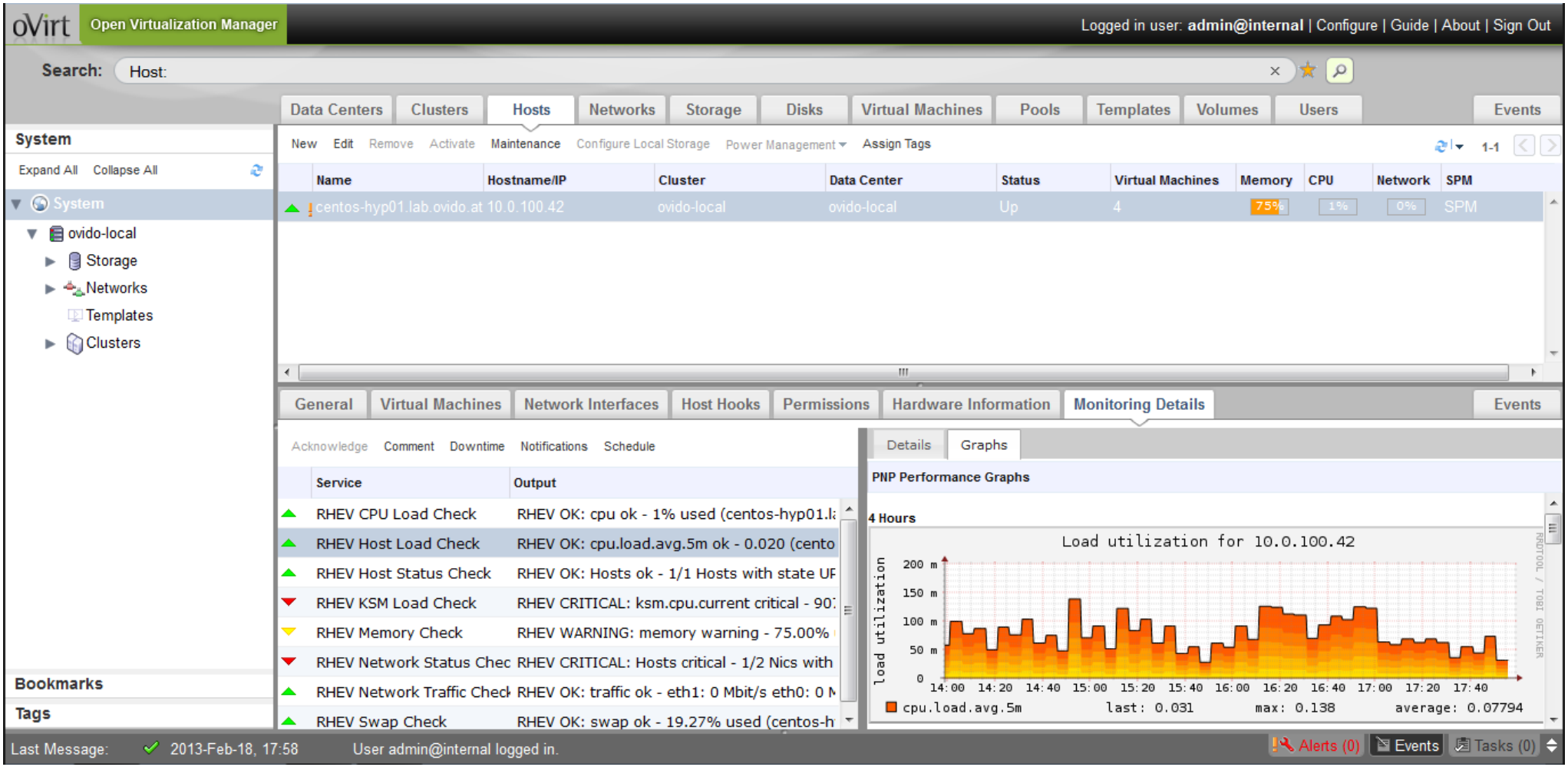
UI Plugins Crash Course: oVirt Space Shooter



UI Plugins Crash Course: oVirt Space Shooter



oVirt Monitoring UI Plugin



oVirt Monthly Updates (highlights)

- Alien Invasion **crash course UI Plugin**
- new **Português users mailing list**
- build your home 10GE gluster/virt lab at bargain prices
- **Mac SPICE** mime launcher
- **Nagios** monitoring plugin released
- **Monitoring UI Plugin** published
- Android x86 running on oVirt
- **ZENOSS monitoring** webinar on oVirt (rhev)

3.3 Deep Dives

oVirt

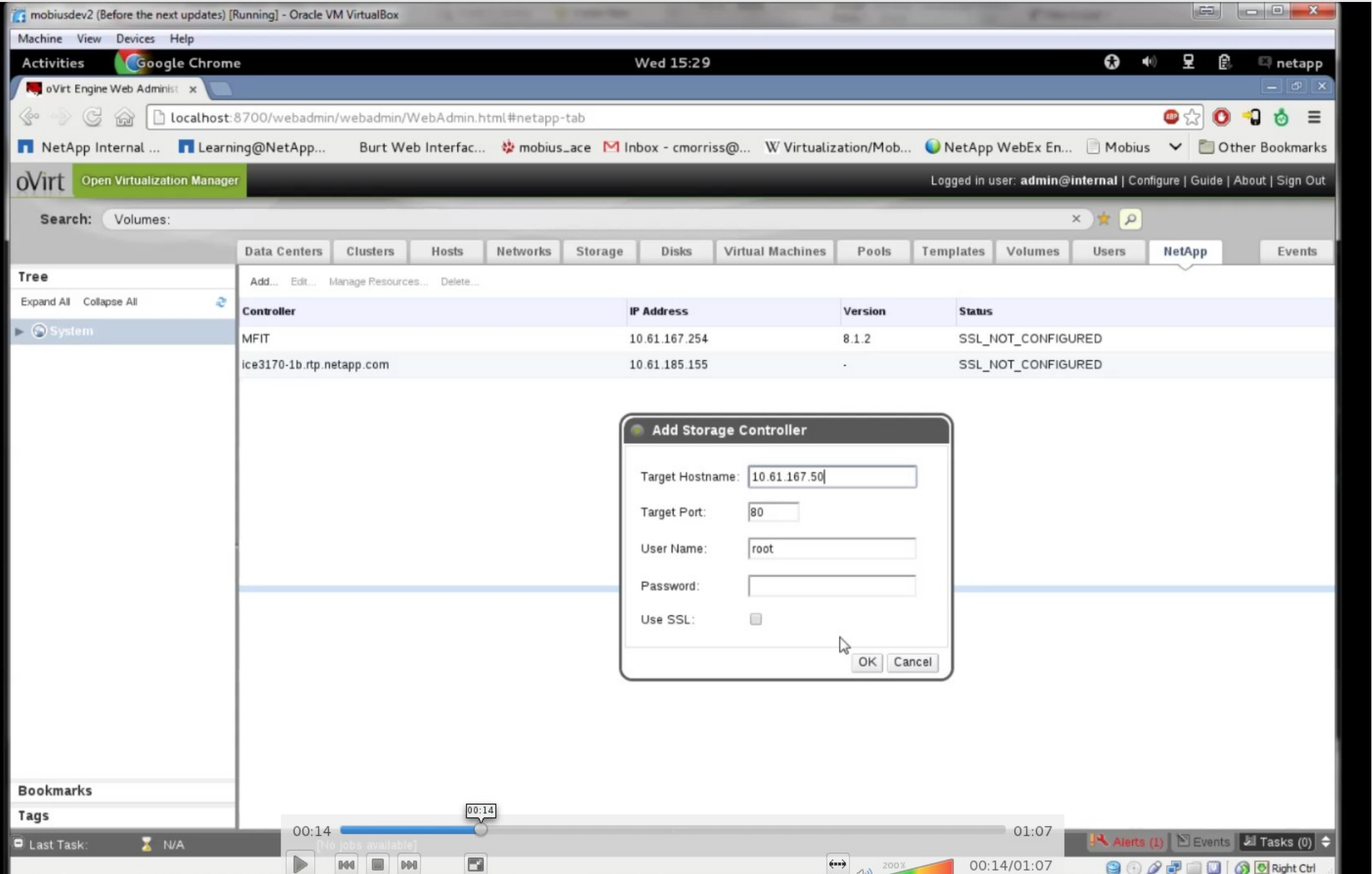
Deep dives

In anticipation of the 3.3 release, a number of deep dive presentations into 3.3 features are being prepared.

- Deep Dive Into Host Power Management File:PM-deep-dive.odp recording
- OpenStack Glance (Image) Integration Deep Dive File:Ovirt-2013-glance-integration-deep-dive.pdf Recording
- OpenStack Neutron (Network) Integration Deep Dive File:Ovirt-neutron-integration-deep-dive-2013.pdf Recording
- Async Task Manager changes for oVirt 3.3 Deep Dive File:Async task mgr 23 july 2013 ovirt final.odp
- Network QoS / vNIC Profiles presentation File:VNIC Profiles.odp
- Scheduling in oVirt 3.3 deep dive File:Scheduler-Deep-Dive-oVirt.pdf
- Hosted engine deep dive File:Hosted Engine Deep Dive.pdf
- Packaging File:Ovirt 3.3 - packaging.pdf

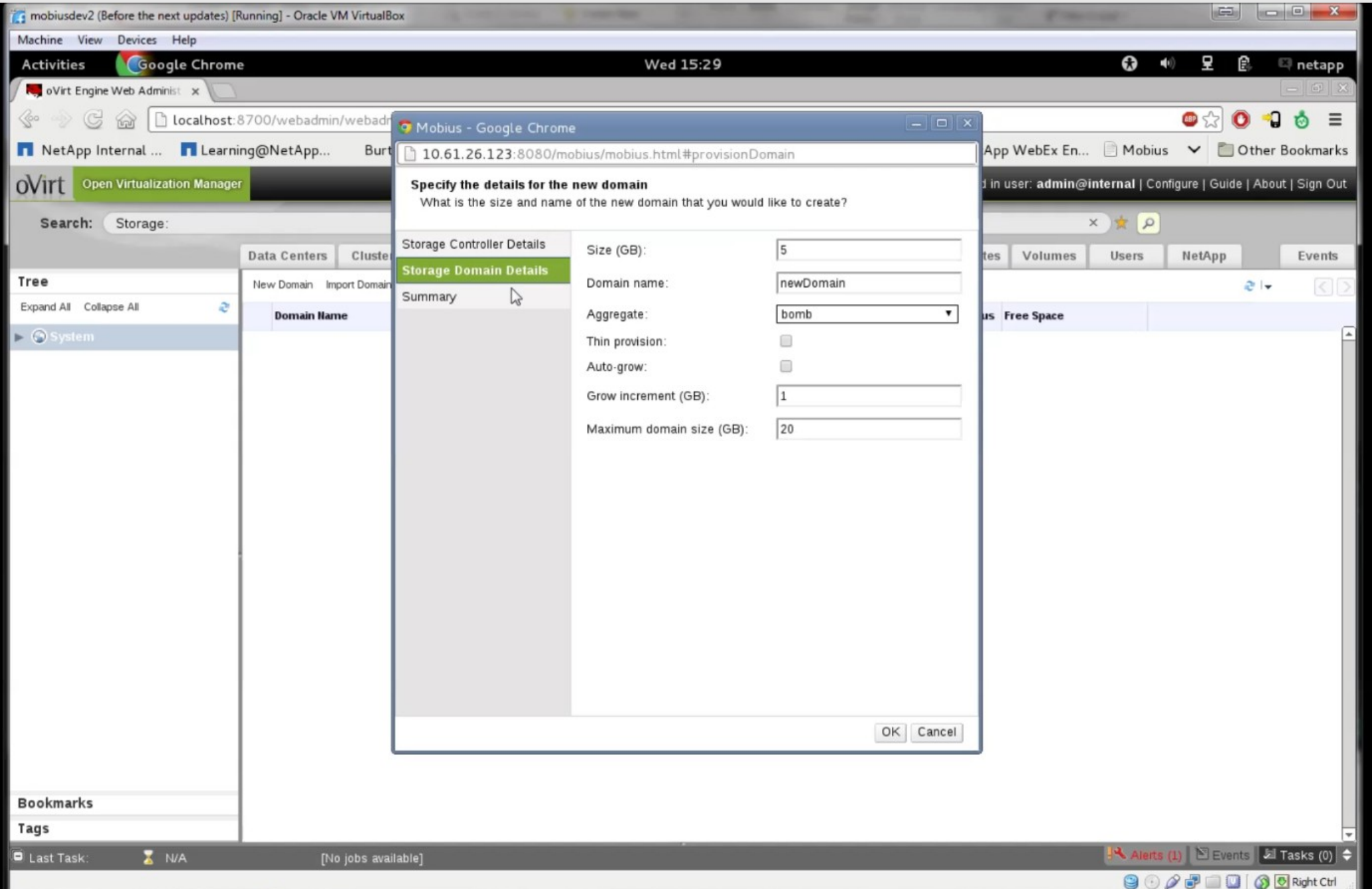
NetApp UI Plugin

oVirt

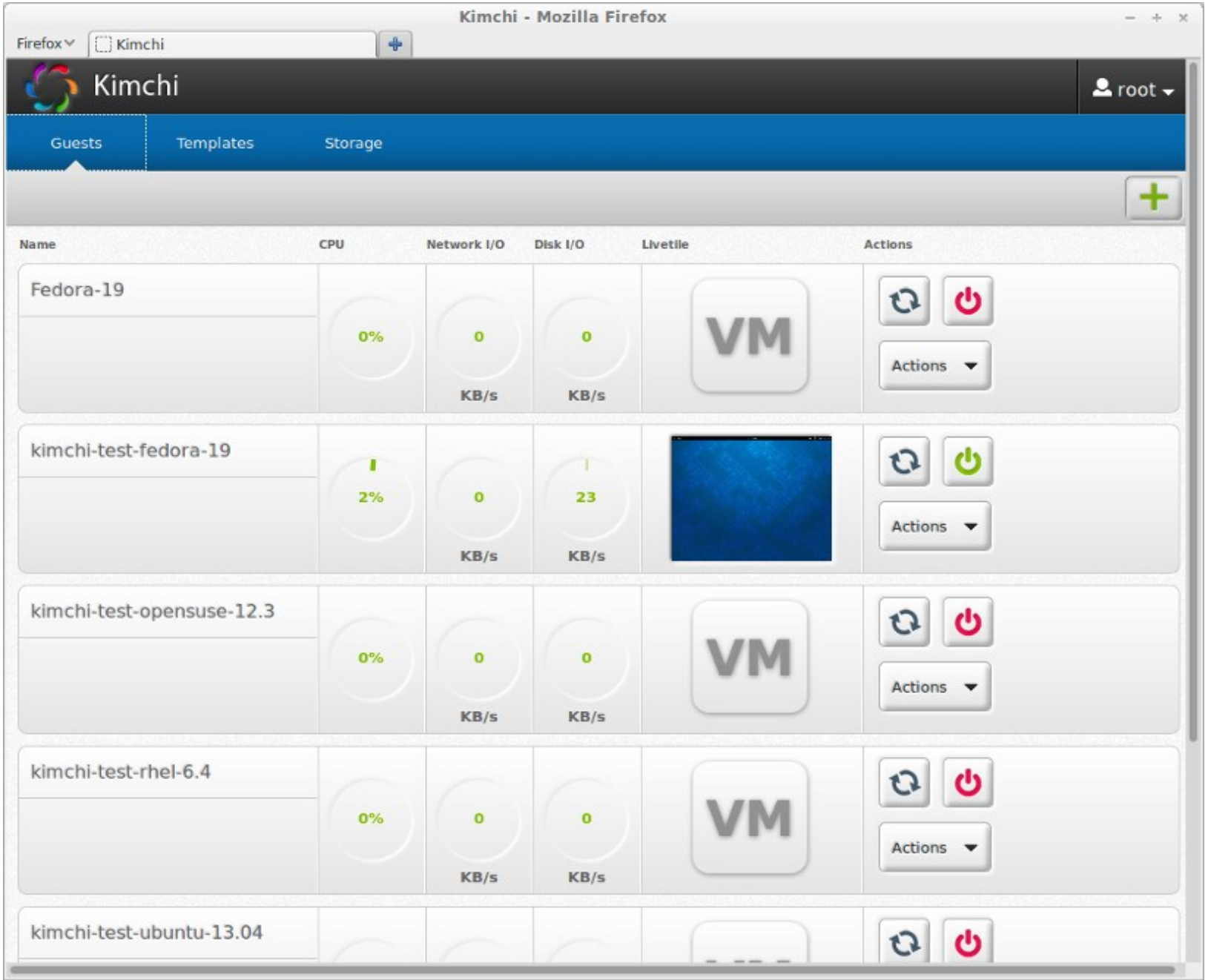


NetApp UI Plugin

oVirt



Kimchi Incubated

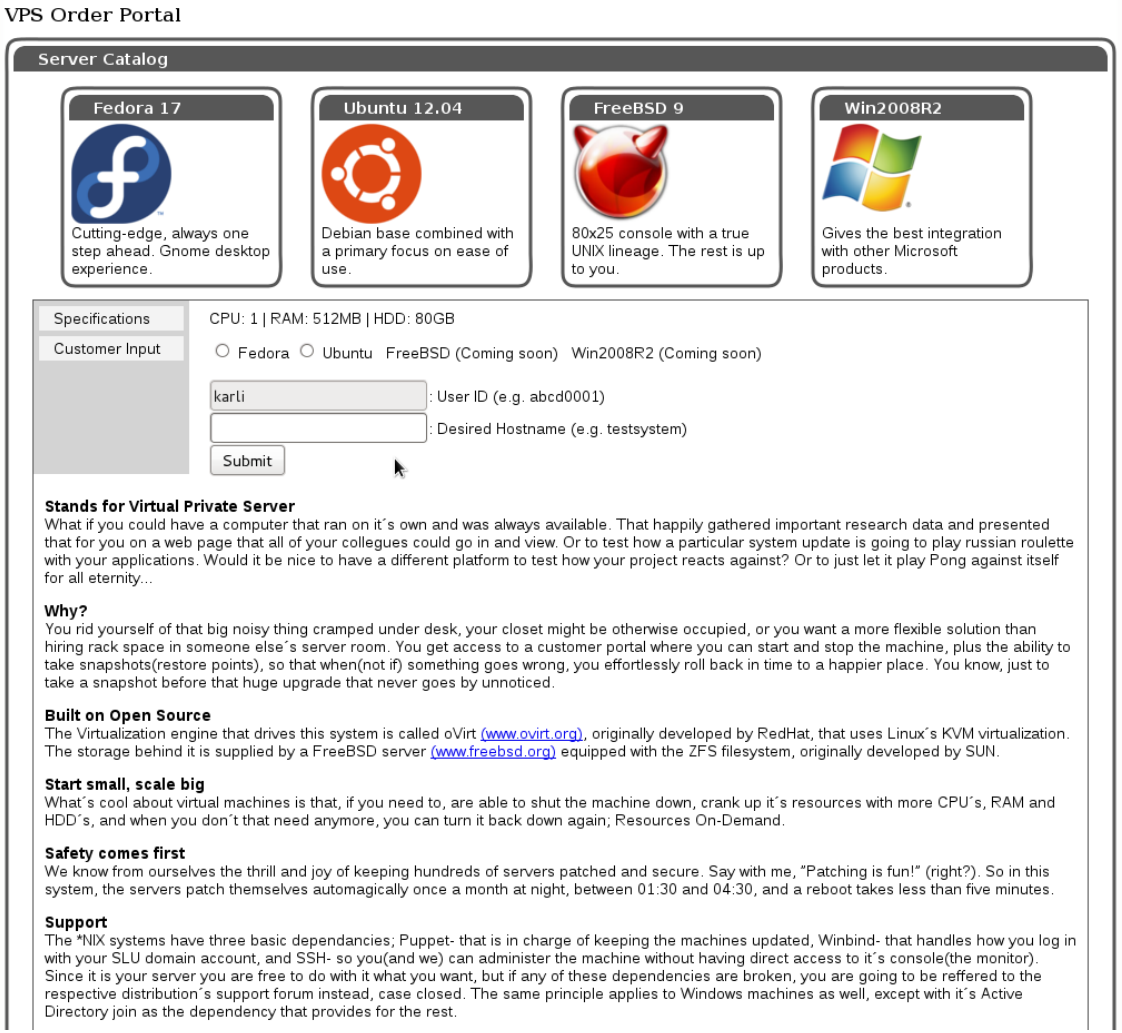


oVirt Monthly Updates (highlights)

- **oVirt 3.3 deep dive** sessions
- An oVirt Clojure SDK library for vm life cycle
- **Ubuntu and Debian guest agent packages**
- Testing oVirt 3.3 with Nested KVM
- **NetApp UI plugin**
- Alter Way Case Study
- **Kimchi** incubated
- oVirt Python SDK review (Português)
- new **spice-xpi windows** support (2.8.90)

oVirt Order Portal (slu.se)

oVirt Open Virtualization Manager



oVirt Monthly Updates (highlights)

- **Power PC** engine patches
- How to use a Glance image with oVirt
- **oVirt order portal**
- VM life cycle Ansible oVirt module
- Pluggable scheduler samples are available
- **puppet and chef** modules to deploy oVirt engine and oVirt node
- High-Availability oVirt-Cluster with iSCSI-Storage
- 3 part series on using the python sdk

3.2 - Feature Highlights

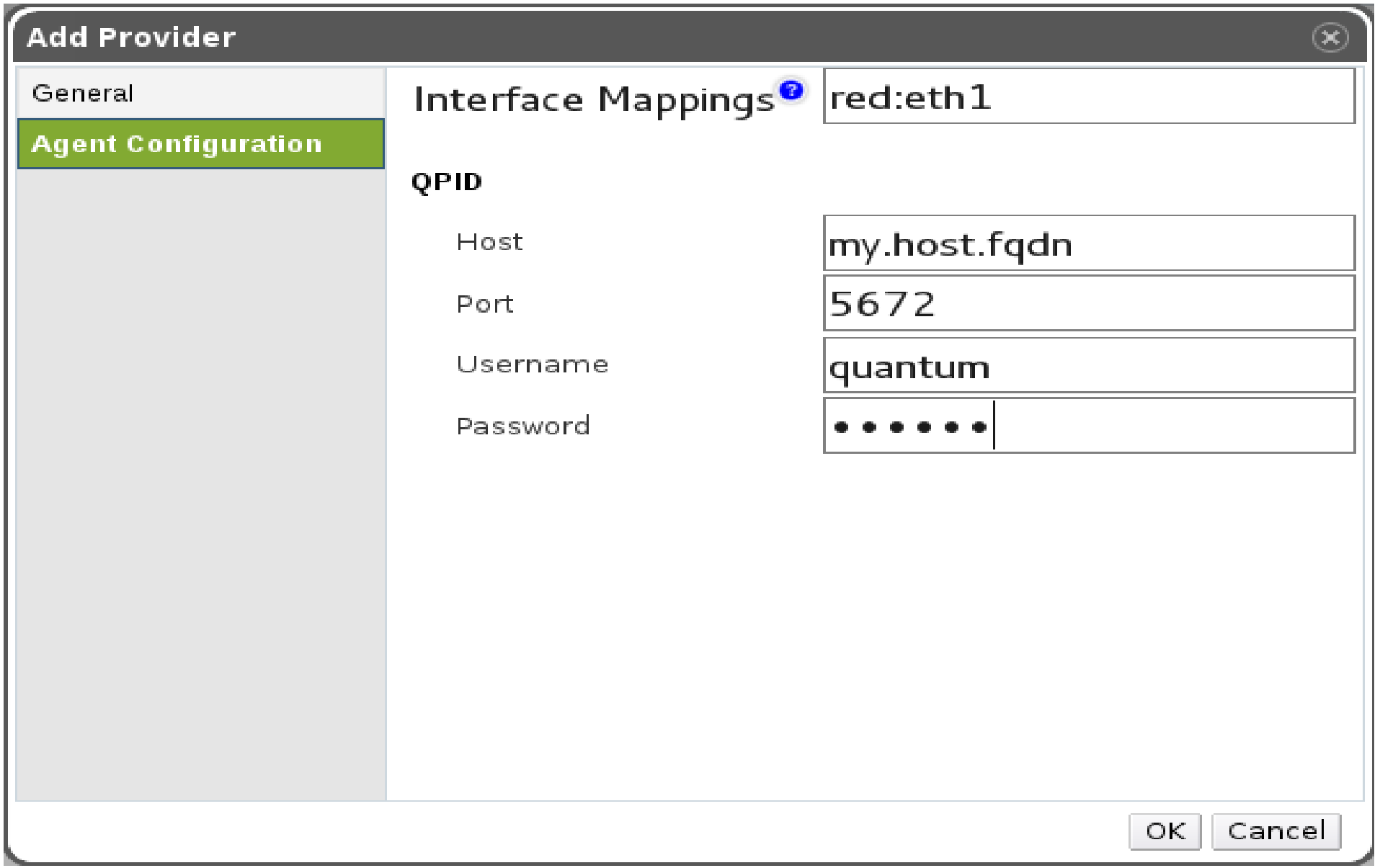
oVirt

- Ease of install / stability
- .el6 support
- Live storage migration
- Live snapshot
- Hotplug disk/nic
- UI plugins
- Multiple fencing devices
- Fencing proxy
- Gluster management improvements

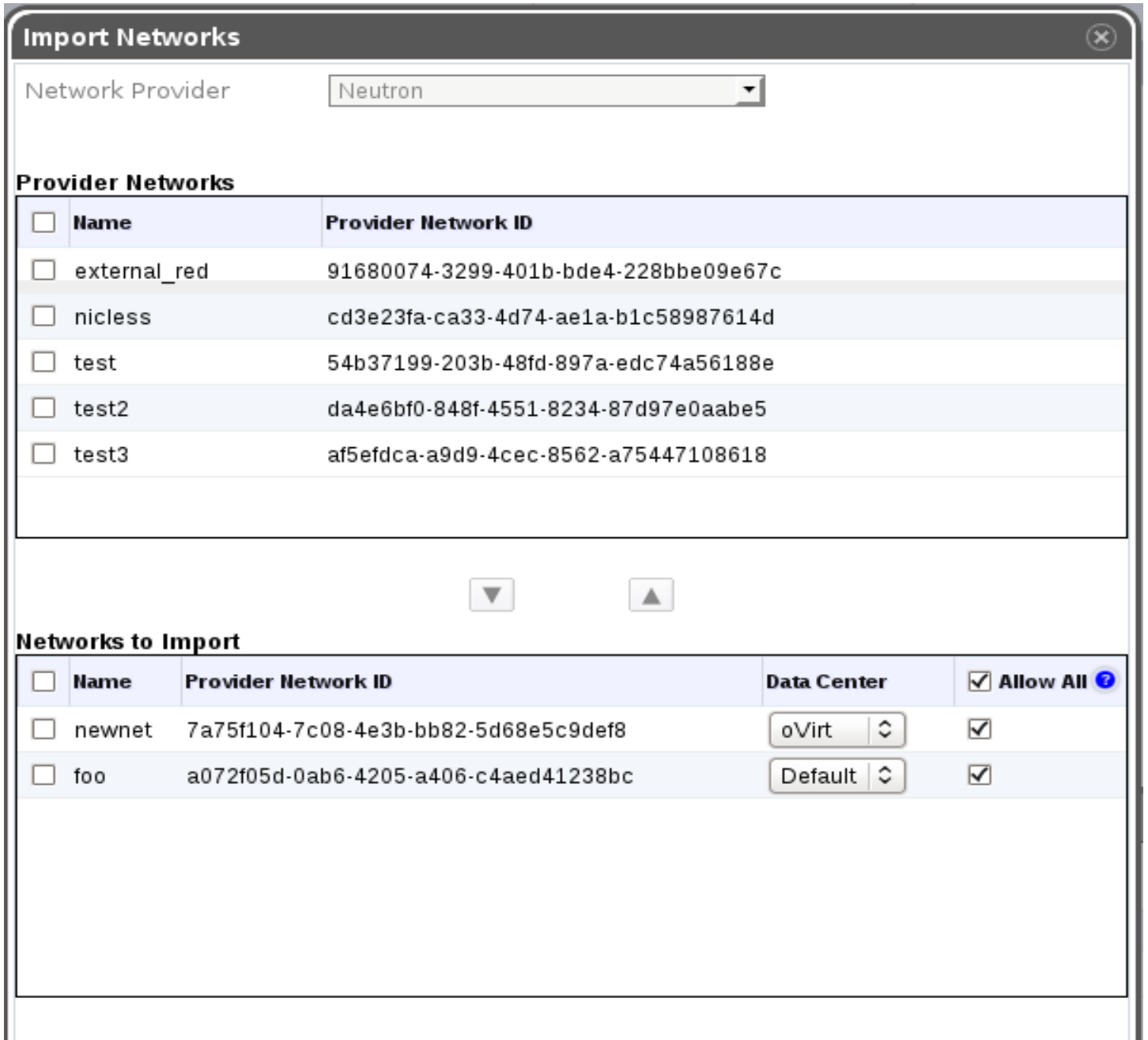
3.3 - Feature Highlights

- Neutron network provider support
- Glance image provider support
- Foreman as a host provider
- Pluggable scheduler (3.3.1)
- Watchdog support
- Network profiles (3.3.1)
- Cloud-init
- OpenLDAP authentication
- MoM/Cpu shares/Ballooning
- Virtual disk resize
- Live snapshot with RAM

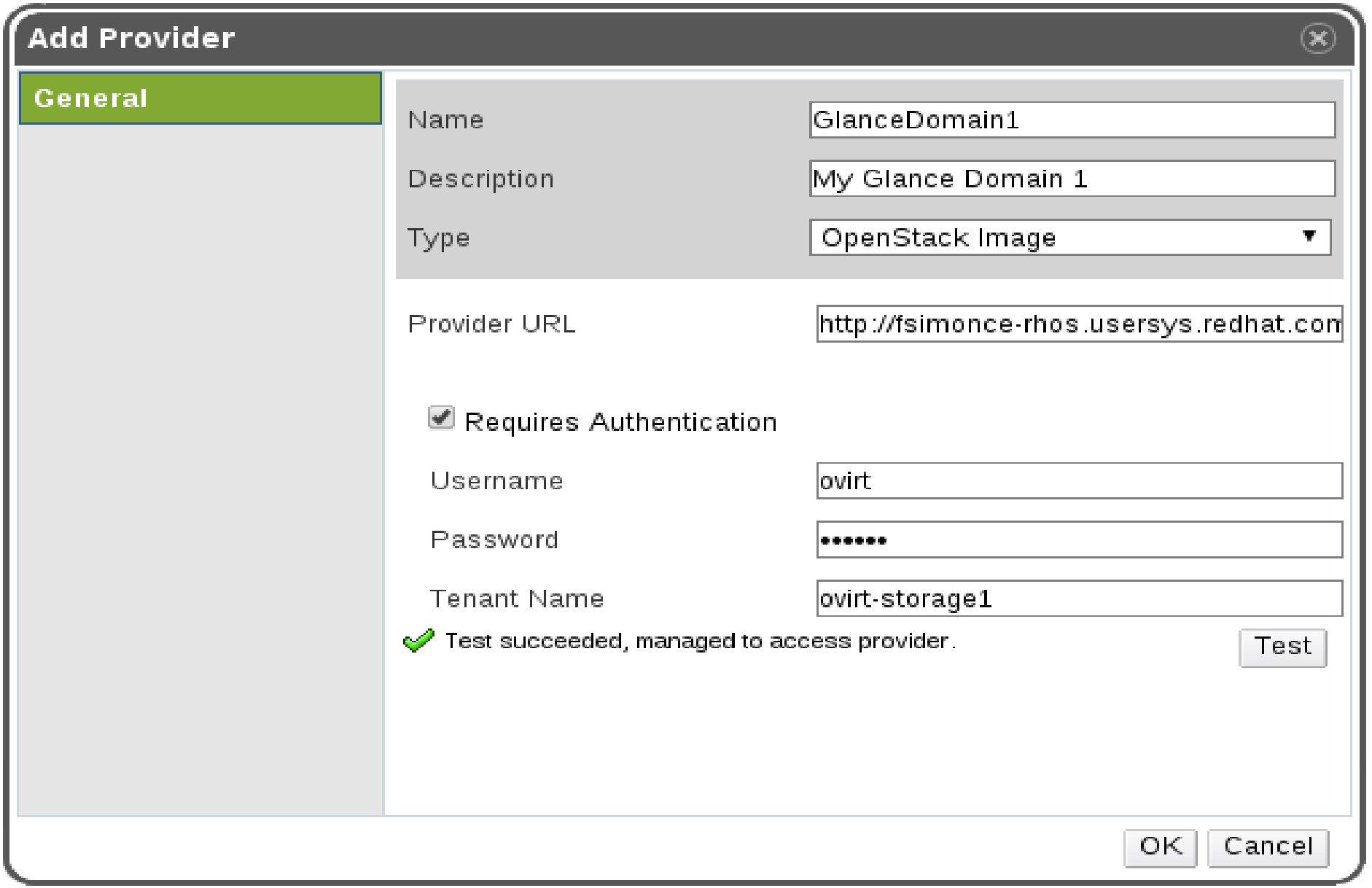
OpenStack Network Neutron Provider



OpenStack Network Neutron Provider



OpenStack Glance Image Provider



OpenStack Glance Image Provider

oVirt

Data Centers | Clusters | Hosts | Networks | **Storage** | Disks | Virtual Machines | Pools | Templates

New Domain | Import Domain | Edit | Remove

Domain Name	Domain Type	Storage Type	Format	Cross Data-Center Status
BlockDomain1	Data	iSCSI	V3	Active
BlockDomain2	Data (Master)	iSCSI	V3	Active
ExportDomain1	Export	NFS	V1	Active
FileDomain1	Data (Master)	NFS	V3	Unknown
GlanceDomain1	Image	OpenStack Glance	V1	Unattached
GlanceDomain2	Image	OpenStack Glance	V1	Unattached
IsoDomain1	ISO	NFS	V1	Active

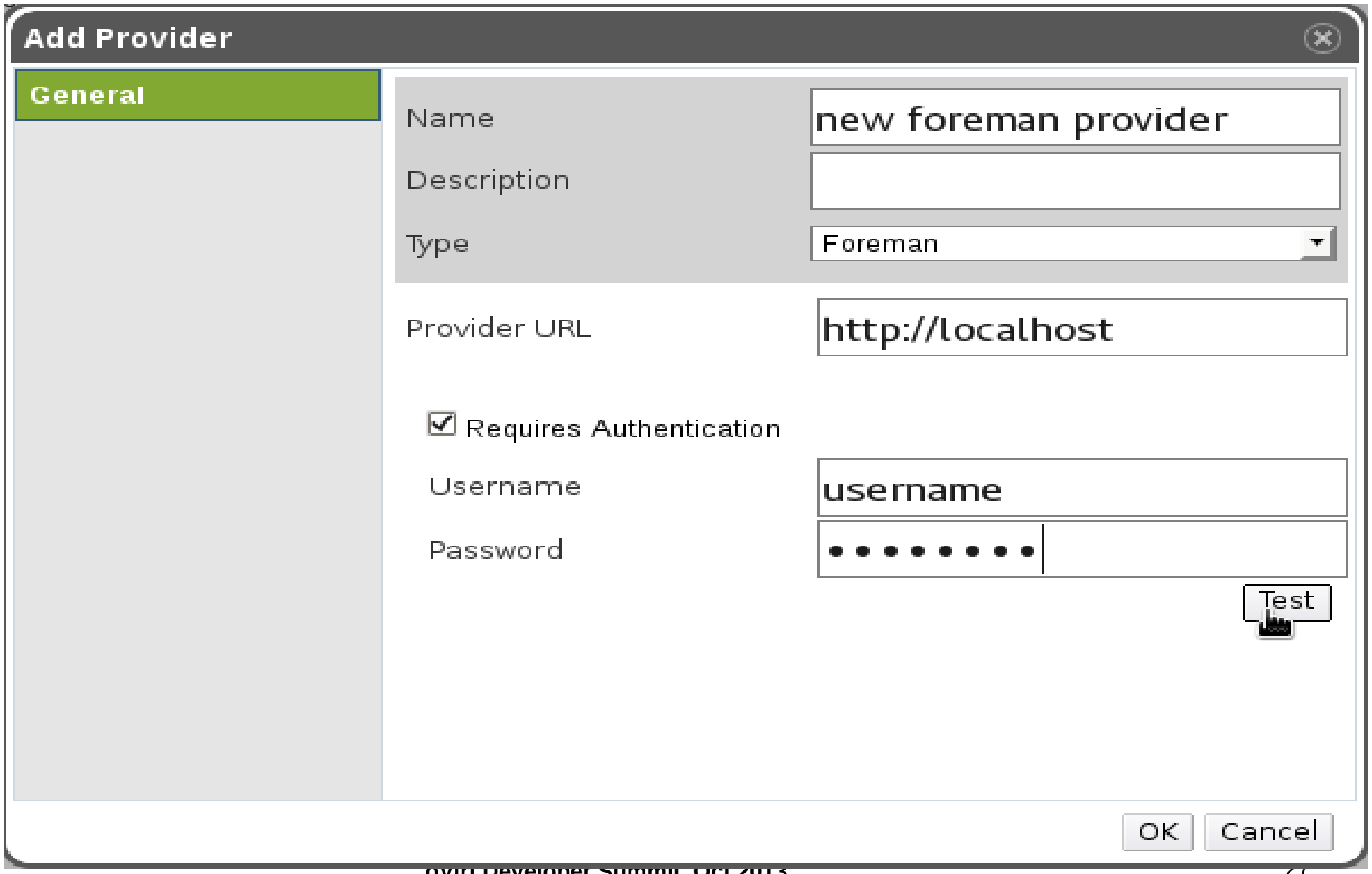
u

Images | Permissions

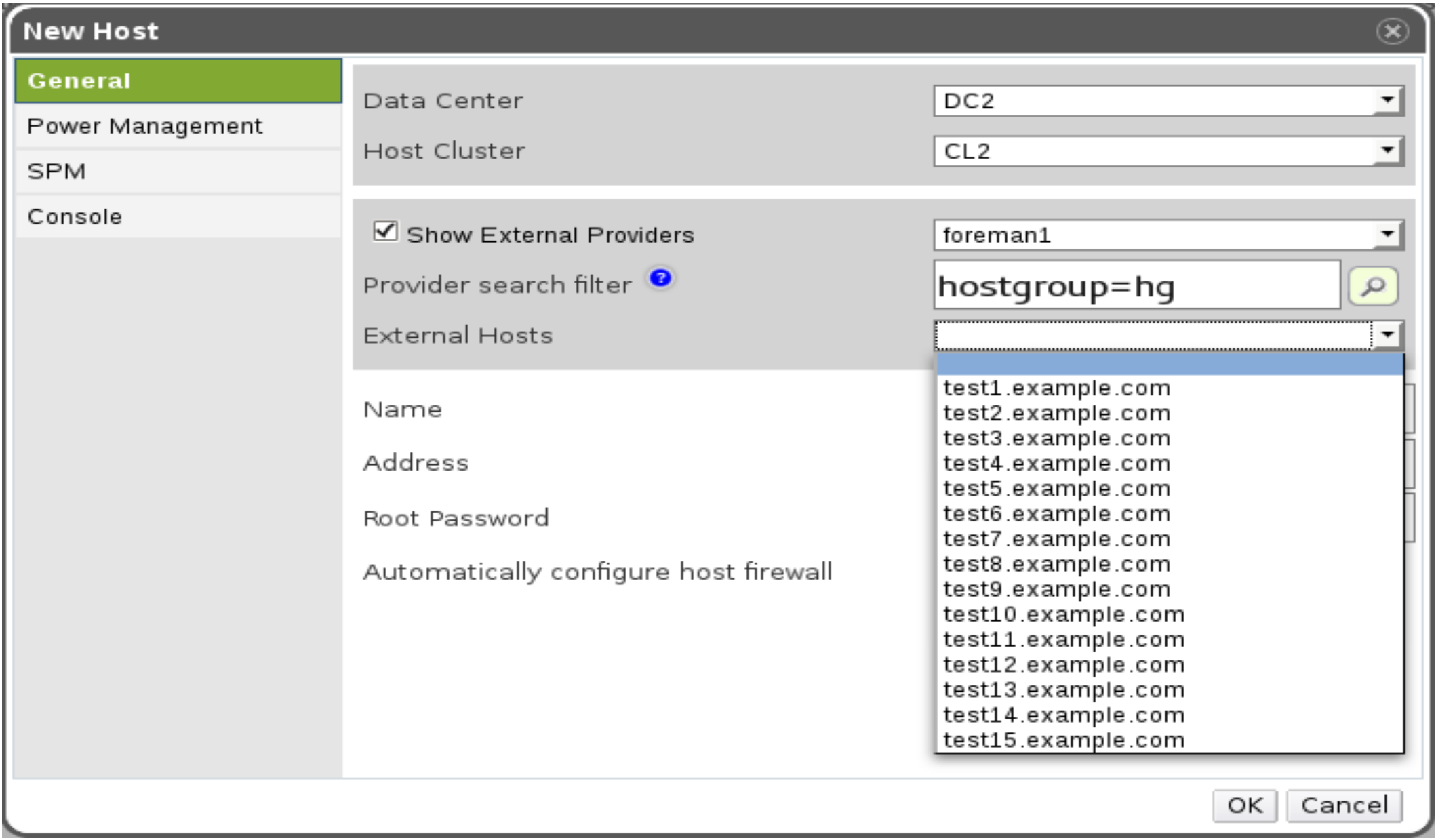
Import

File Name	Type	Actual Size
Blank QCOW2 Image 20Gb (1477cd5)	Disk	< 1 GB
BlockDiskThin1 (7fdbd25)	Disk	< 1 GB

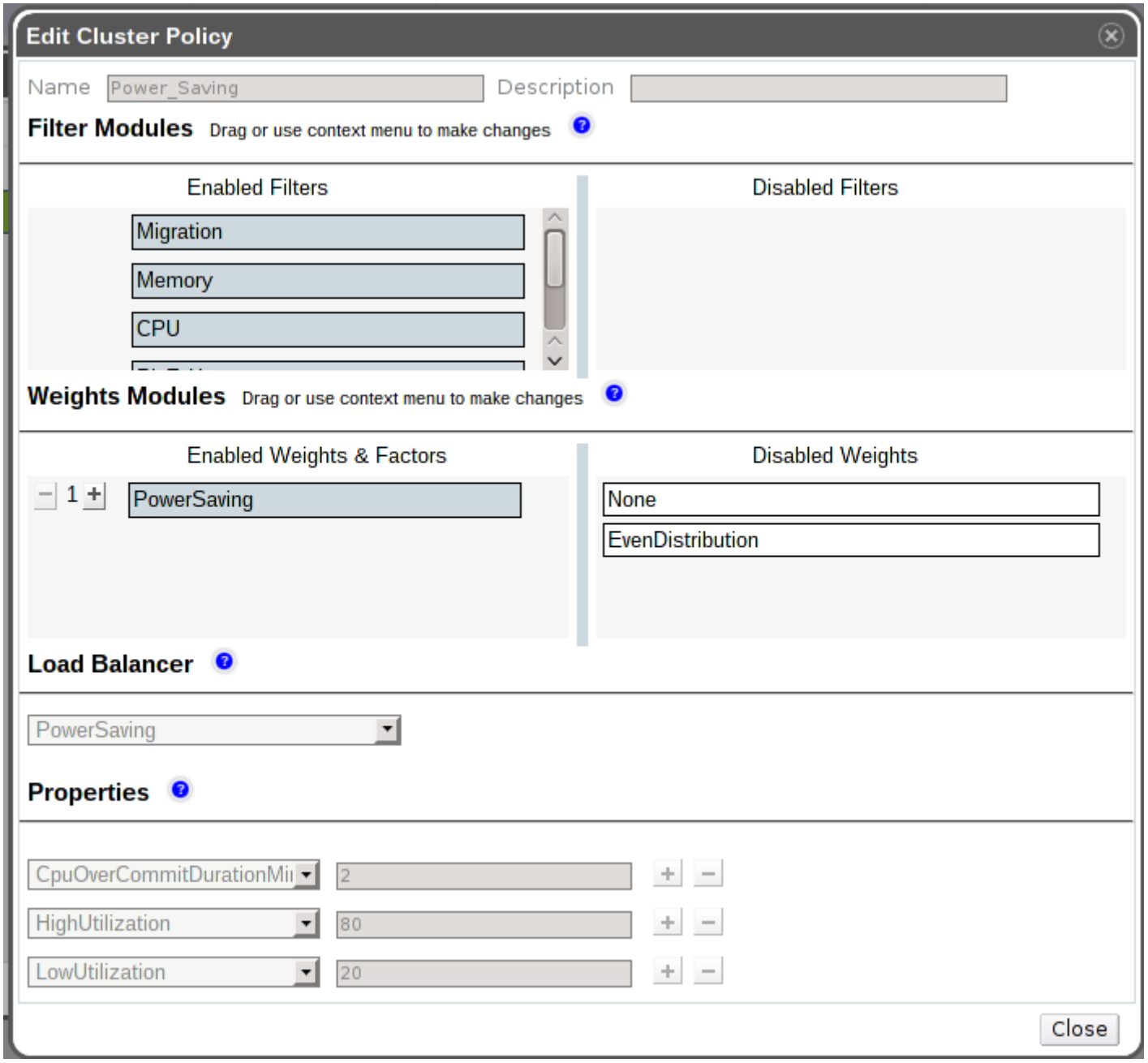
The Foreman Provider



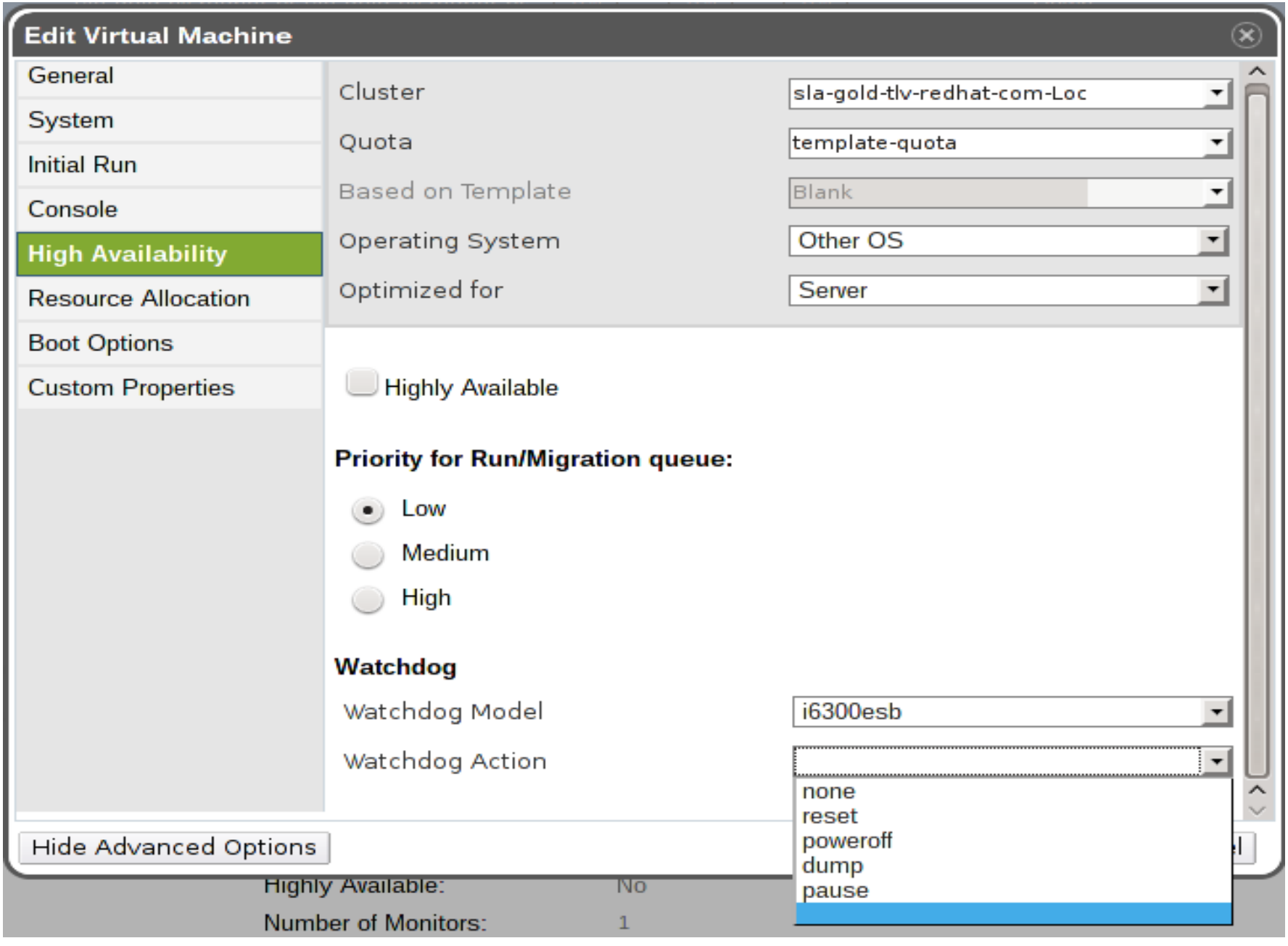
The Foreman Provider



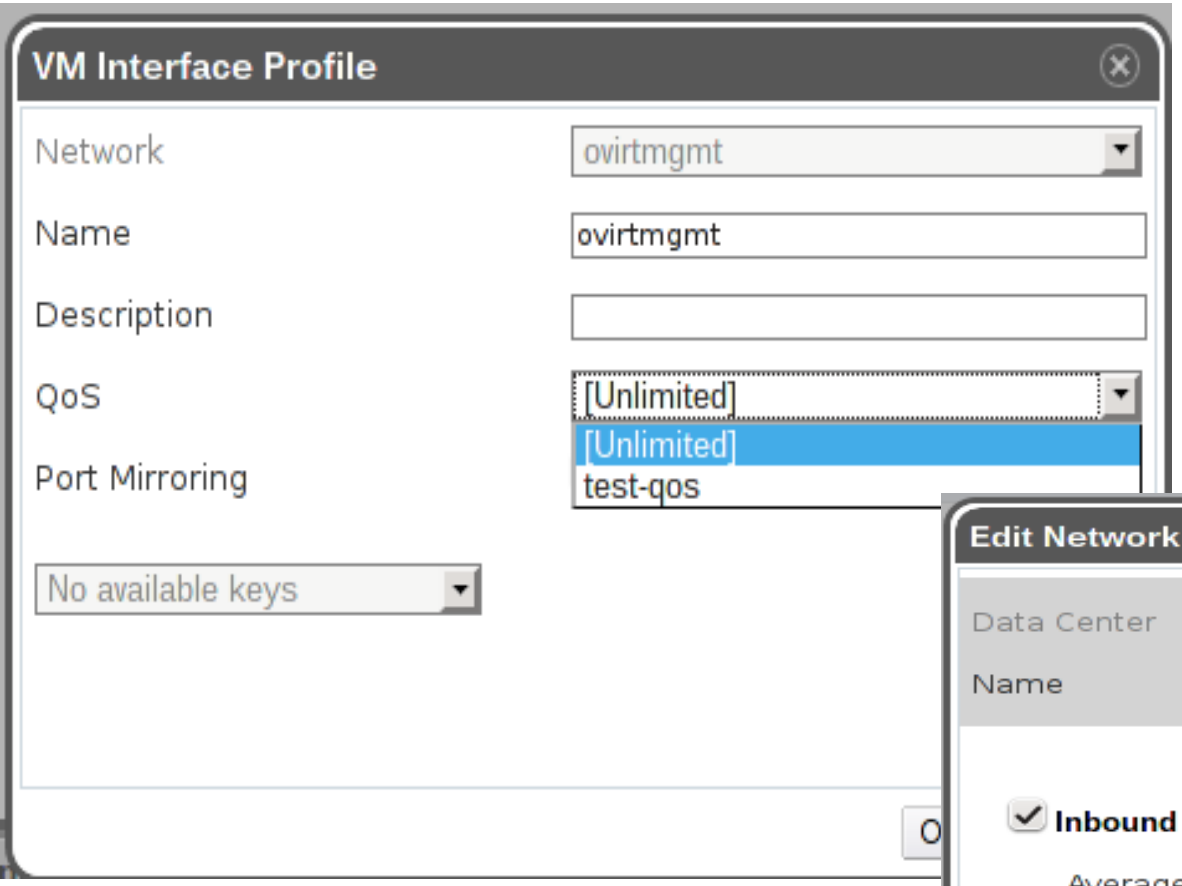
Pluggable Scheduler

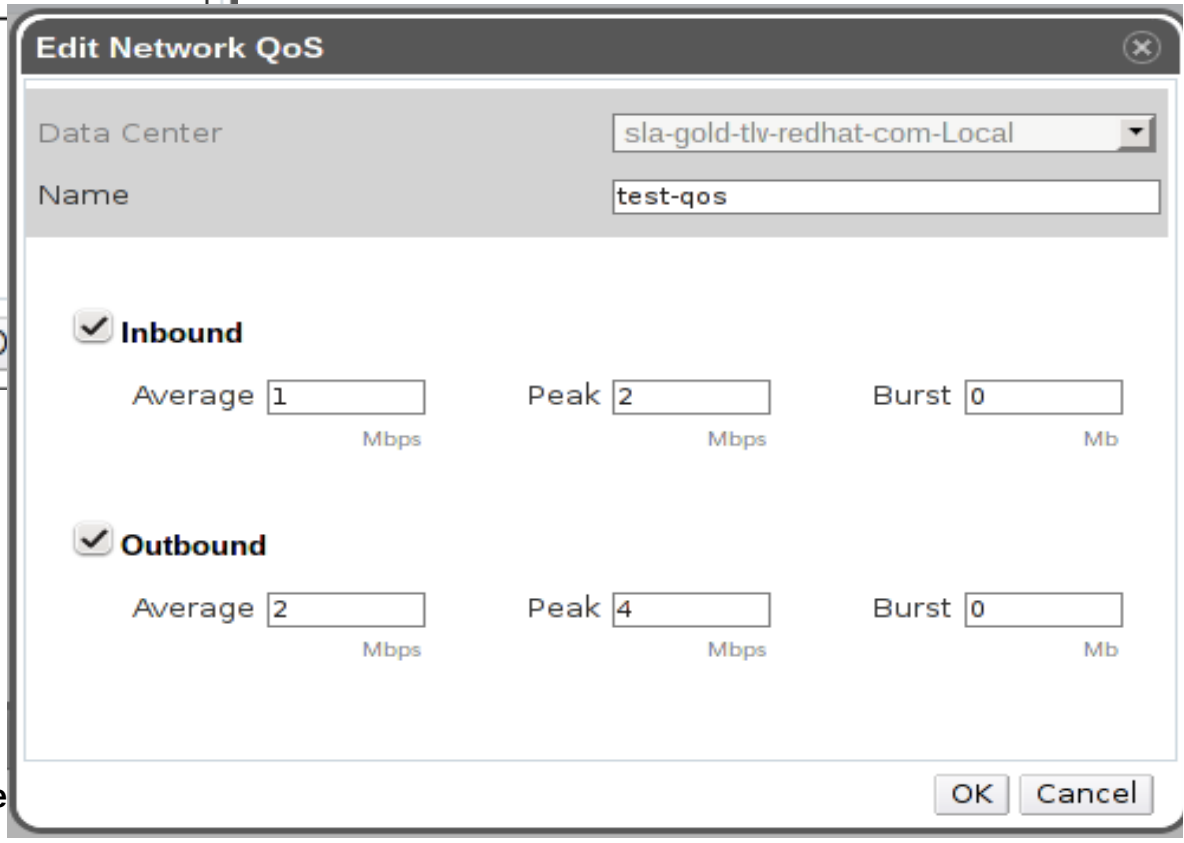


Watchdog


Edit Virtual Machine
General
System
Initial Run
Console
High Availability
Resource Allocation
Boot Options
Custom Properties
Cluster
sla-gold-tlv-redhat-com-Loc
Quota
template-quota
Based on Template
Blank
Operating System
Other OS
Optimized for
Server
Highly Available
Priority for Run/Migration queue:
Low
Medium
High
Watchdog
Watchdog Model
i6300esb
Watchdog Action
none
reset
poweroff
dump
pause
Hide Advanced Options
Highly Available:
No
Number of Monitors:
1

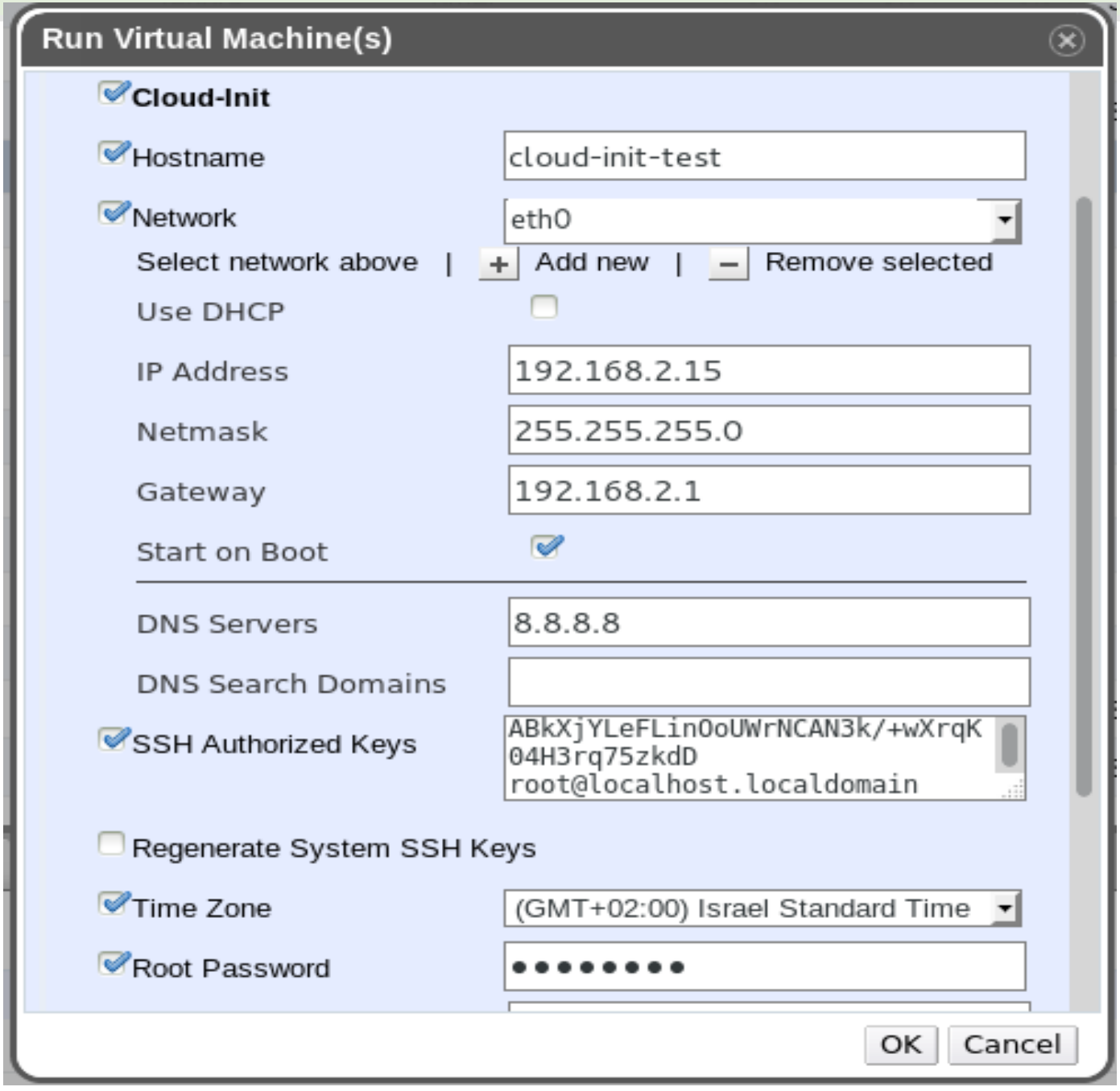
vNic Profiles & QoS





cloud-init

oVirt



3.3 – Feature Highlights (cont)

oVirt

- Intel's attestation service support
- Native gluster domain
- NoVNC/spice.html5
- Java SDK
- Hosted Engine (coming)
- virtio-scsi support
- Edit storage connections (3.3.1)
- Apache frontend
- ssh soft fencing
- Create multiple VMs from template
- OsInfo

Short Term Roadmap

oVirt

- Authentication refactoring (in the works)
- PPC support (in the works)
- JSON Rest API (in the works)
- Logical Network QoS (in the works)
- Feature level negotiation (engine-vdsm)
- Fedora 20 support
- Ubuntu support
- Host profiles
- VM affinity scheduling
- Hot plug cpu

High on the Radar

oVirt

- UI over REST API
- Host update manager
- Template versions
- Private networks
- Resize LUN
- Import data domain
- Multiple storage types in DC
- Live merge snapshot
- Keystone authentication support
- Cinder storage domain

THANK YOU !

http://ovirt.org
users@ovirt.org

#ovirt irc.oftc.net