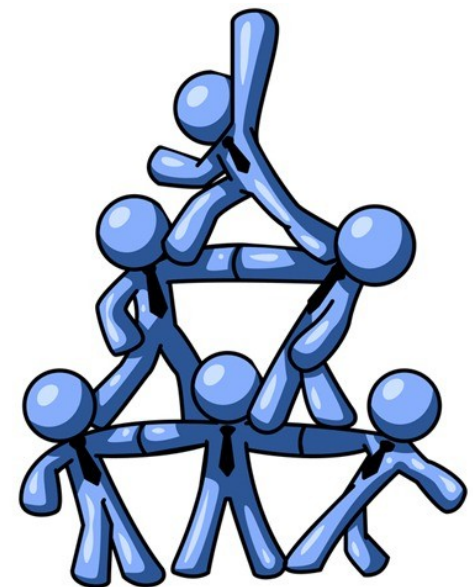
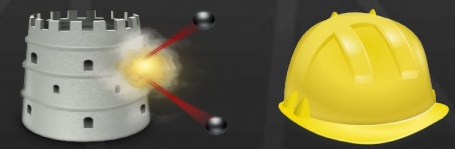


Integrating oVirt, Foreman And Katello To Empower Your Data-Center Utilization

Yaniv Bronhaim
Senior Software Engineer,
Maintainer @ RHEV

Red Hat IL, Raanana
March 2016, FOSSASIA, Singapore





Agenda

- oVirt, Foreman and Katello preview
- New Third-party integration In oVirt 3.6
 - Using Foreman in for Bare-Metal Provisioning (Started in 3.5)
 - Using Katello for displaying Errata (update) content information
- oVirt 3.6 Upgrade Manager by otopi
- oVirt 4.0 plans

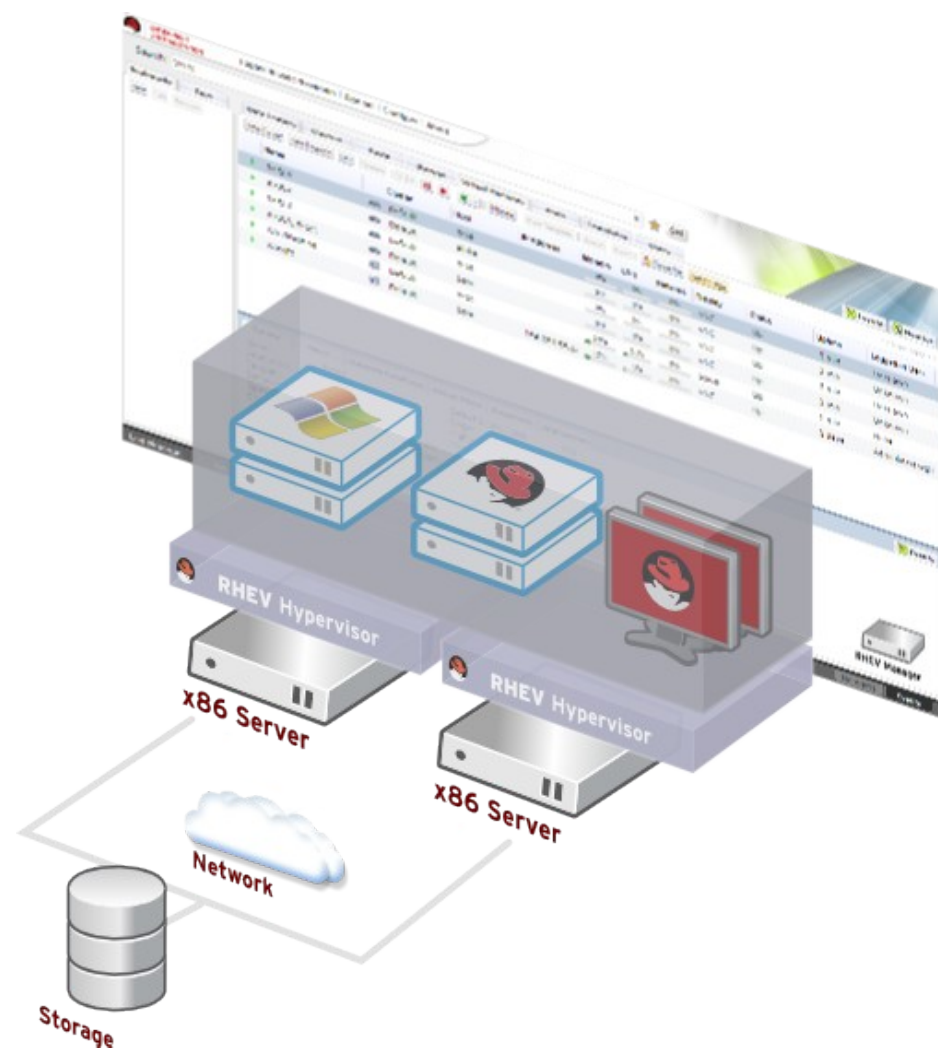
oVirt What is oVirt?

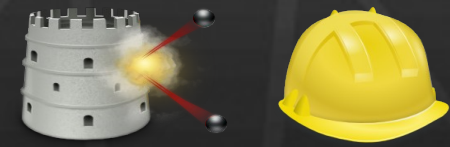
Large scale, centralized management for server and desktop virtualization

Based on leading performance, scalability and security infrastructure technologies

Provide an open source alternative to vCenter/vSphere/Xen

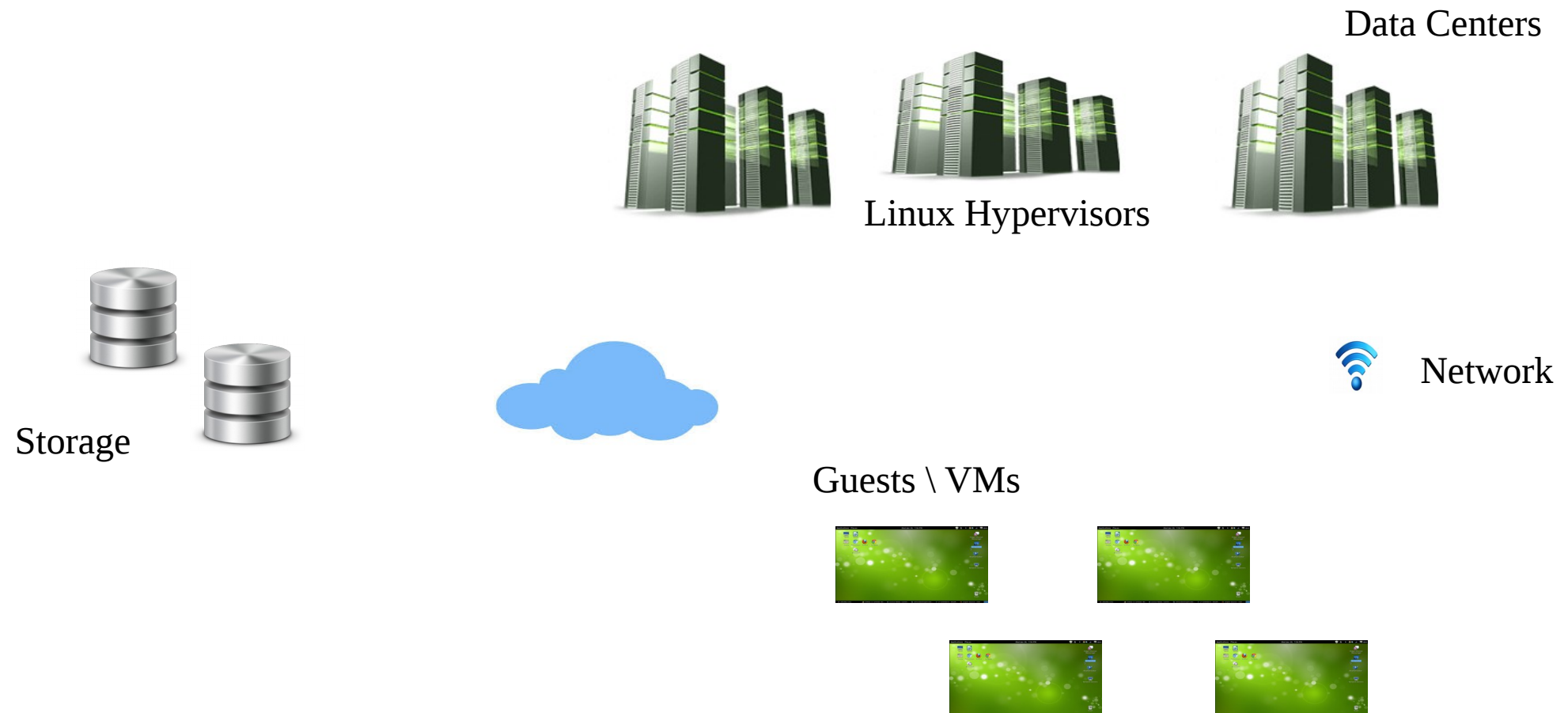
Focus on ease of use/deployment

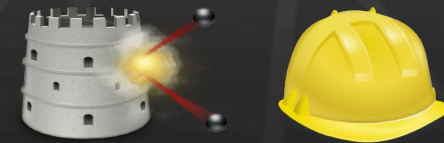




**Performance, Scalability, Security, Privacy,
Intuitive for variant users**

Maintain a large amount of resources





Host: ✕ ☆ Q

System

Expand All Collapse All

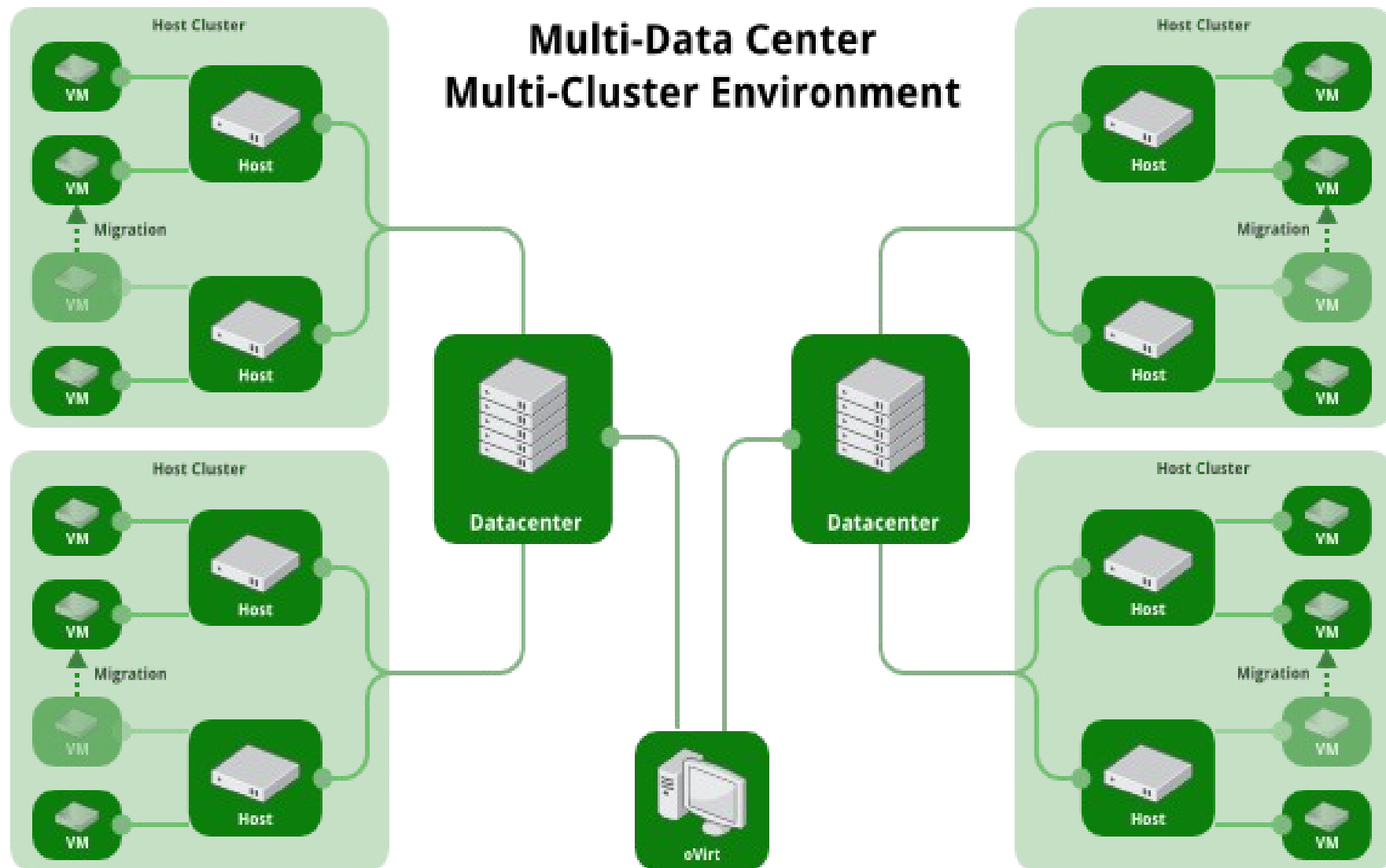
- System
 - Data Centers
 - Openstack
 - Storage
 - Networks
 - Templates
 - Clusters
 - RHEV-QE-Jenkins
 - Storage
 - Networks
 - Templates
 - Clusters
 - RHEV-QE-Production
 - Storage
 - Networks
 - Templates
 - Clusters
 - RHEV-QE-Service
 - Storage
 - Networks
 - Templates
 - Clusters
 - External Providers
 - Glance
- Bookmarks
- Tags

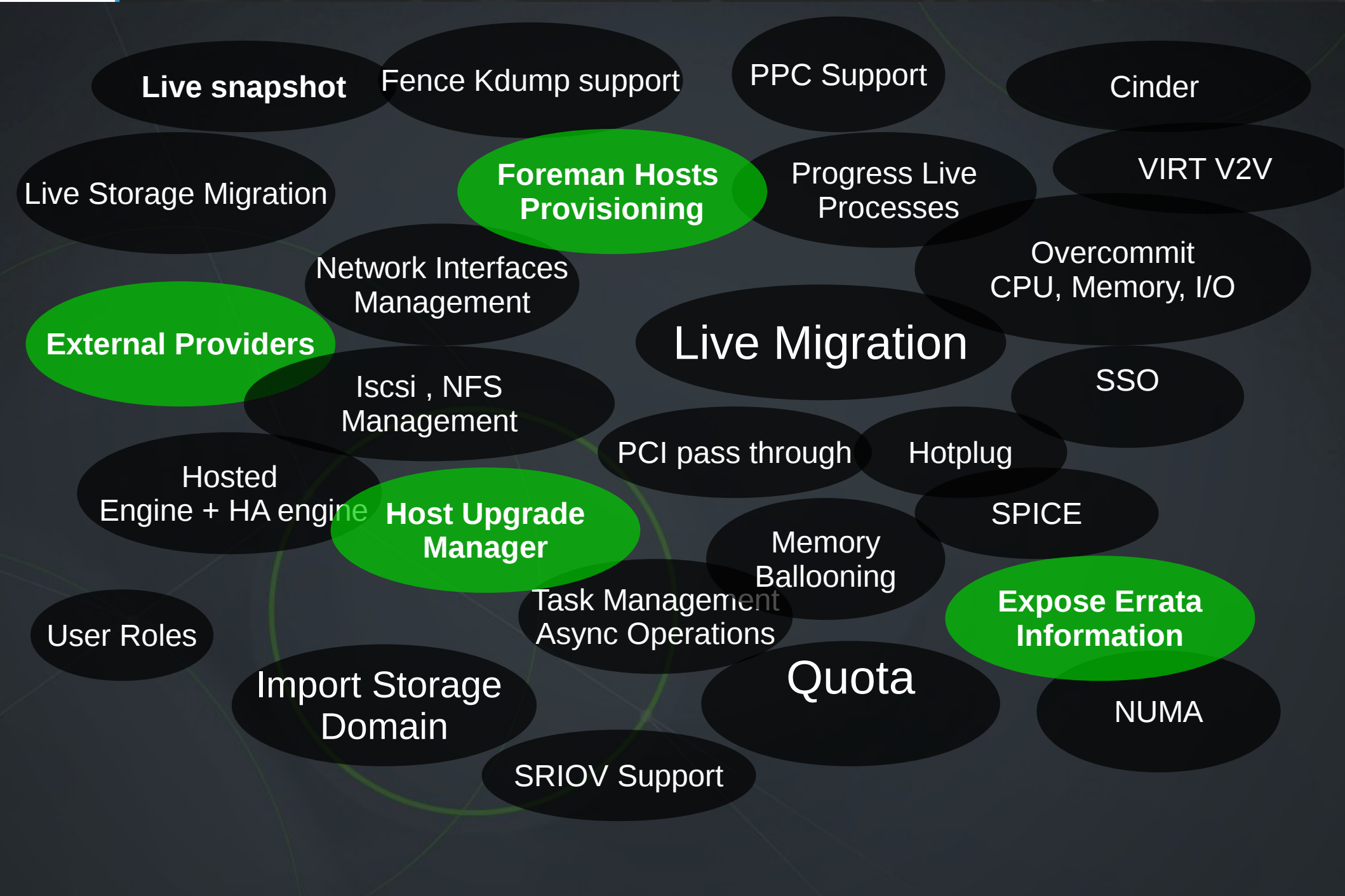
[New](#)
[Edit](#)
[Remove](#)
[Activate](#)
[Maintenance](#)
[Select as SPM](#)
[Configure Local Storage](#)
[Power Management](#)
[Assign Tags](#)
[Refresh Capabilities](#)
[Red Hat Access: Support](#)

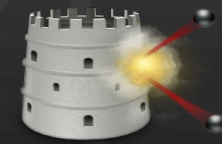
Name	Hostname/IP	Cluster	Data Center	Status	Virtual Machines	Memory	CPU	Network	SPM
cougar02	cougar02.scl.lab.tlv.re...	slaves-AMD	RHEV-QE-Jenkins	Maintenance	0	0%	0%	0%	Normal
cougar03	cougar03.scl.lab.tlv.re...	slaves-AMD	RHEV-QE-Jenkins	Up	9	33%	3%	0%	Normal
cougar04	cougar04.scl.lab.tlv.re...	slaves-AMD	RHEV-QE-Jenkins	Up	2	9%	0%	0%	Normal
cougar05	cougar05.scl.lab.tlv.re...	slaves-AMD	RHEV-QE-Jenkins	Up	2	11%	2%	0%	SPM
master-vds8	master-vds8.qa.lab.tl...	qa-service	RHEV-QE-Service	Up	3	11%	0%	0%	SPM
master-vds9	master-vds9.qa.lab.tl...	qa-service	RHEV-QE-Service	Up	0	3%	0%	0%	Normal
tigris03	tigris03.scl.lab.tlv.red...	RHEV-Production-AMD	RHEV-QE-Production	Up	3	3%	0%	0%	SPM
tigris04	tigris04.scl.lab.tlv.red...	RHEV-Production-AMD	RHEV-QE-Production	Up	31	8%	0%	0%	Normal

FOSSASIA, March 2016

Prepare Virtual Environment



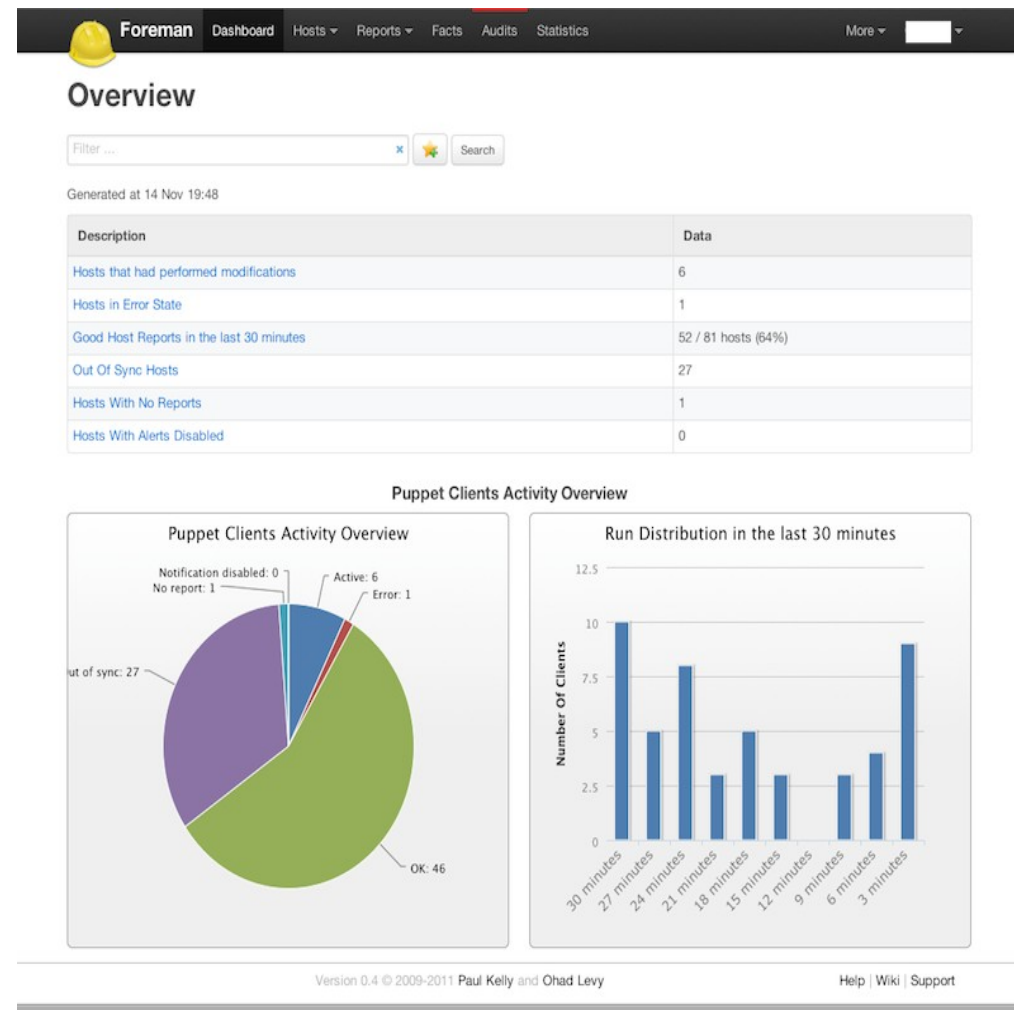


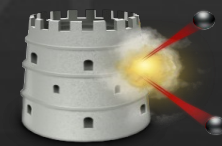


FOREMAN

Complete lifecycle management
tool for physical and virtual servers.

Provision, Configure and Monitor
server.





Three Steps For Managing Physical Hardware



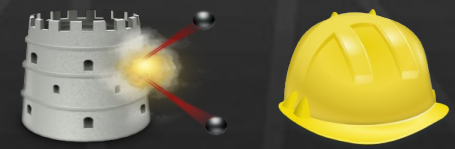
Provision
Initial startup



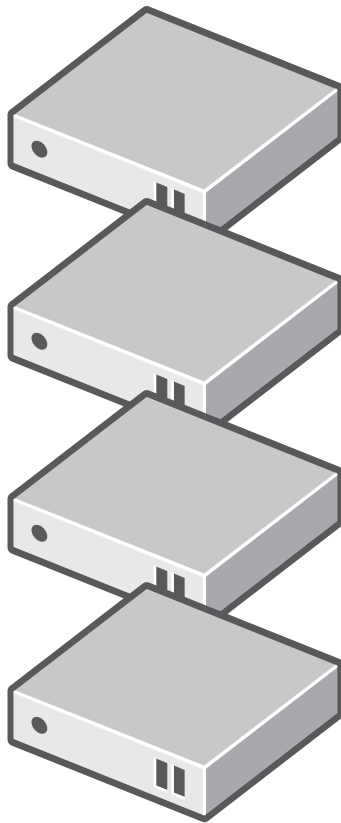
Configure



Monitor



Provision

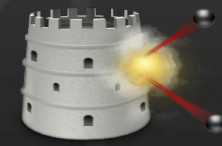


Your Data
Center

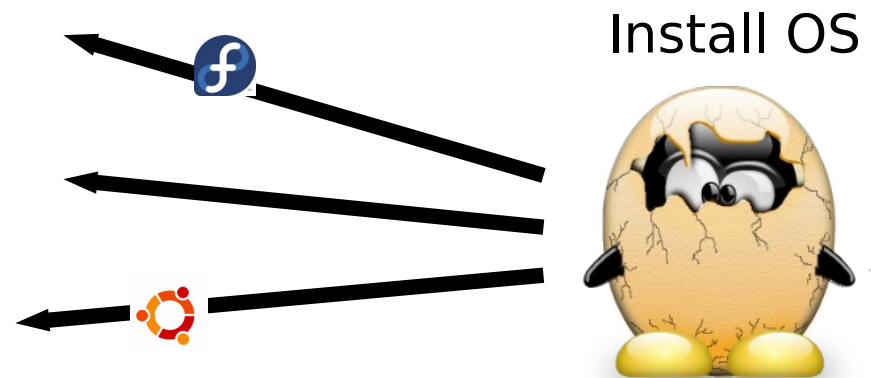
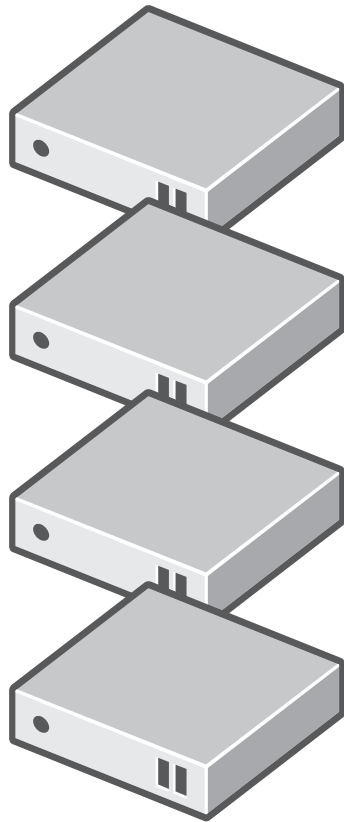


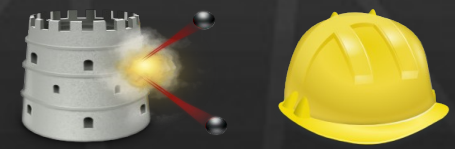
Connect





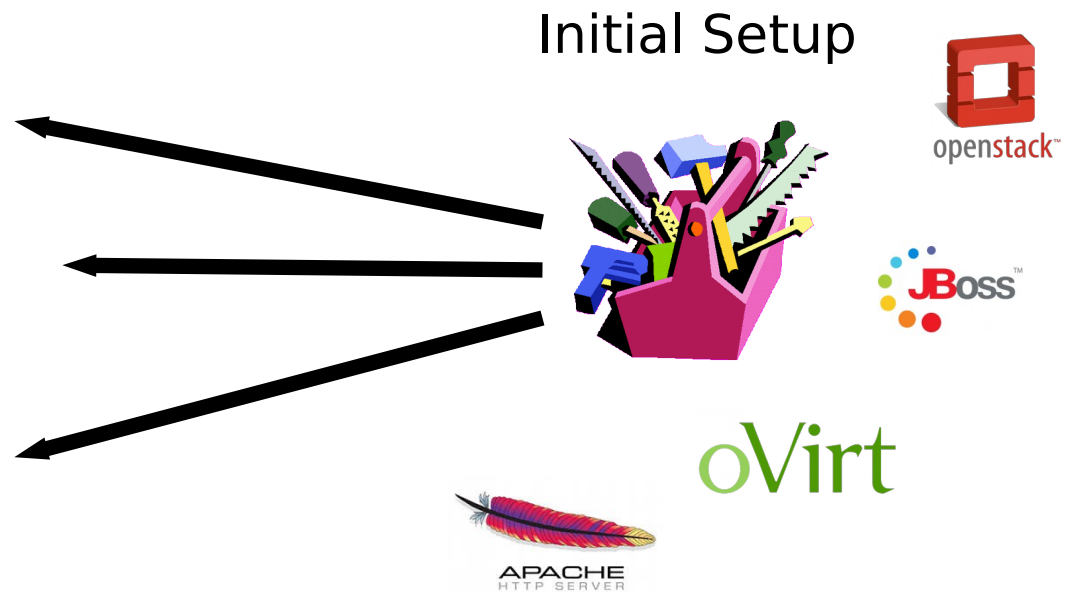
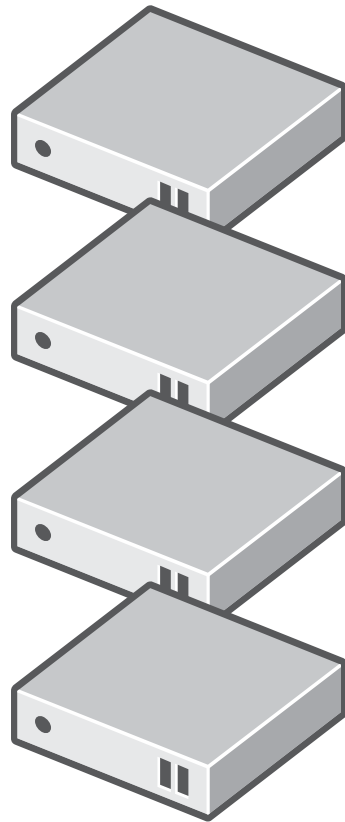
Provision

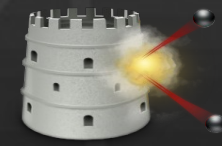




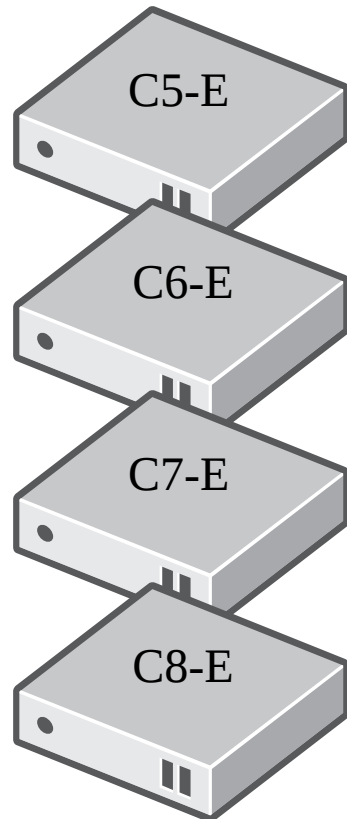
Configure

4





Configure



S1-A = 00:11:22:33:44:23

S2-A = 0A:1B:C2:CC:44:55

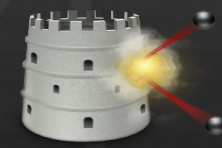
C8-E = A3:AA:C7:92:12:32

C4-E = A3:BB:D7:92:42:32

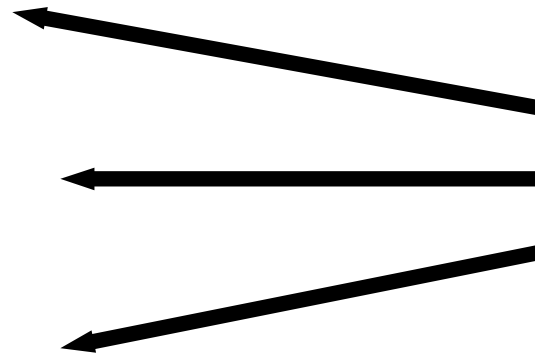
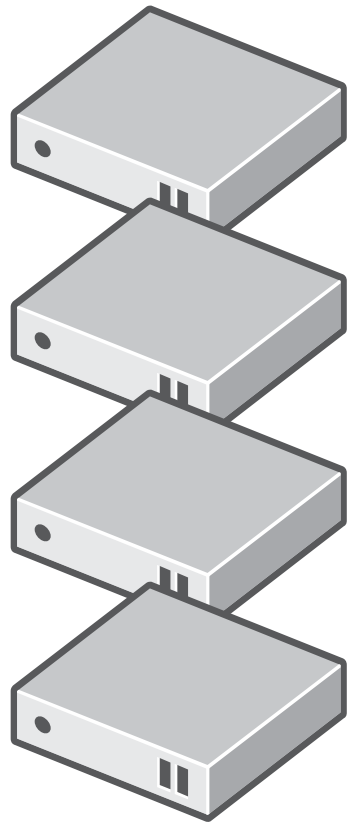
C5-F = A3:EB:F4:92:12:32

D5-E = A3:BC:D7:92:12:22

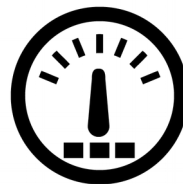
B5-E = A3:BB:D7:92:12:12

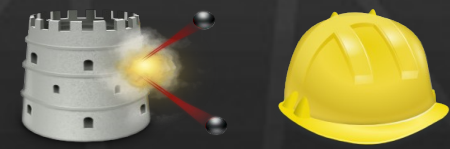


Monitor



5
Monitor And
Update -
Drift
Management





How it's being done by Foreman



Foreman
Provision

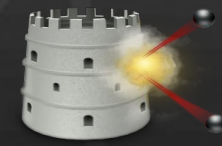


Foreman
Configurator



Foreman
Management





Foreman
Provision



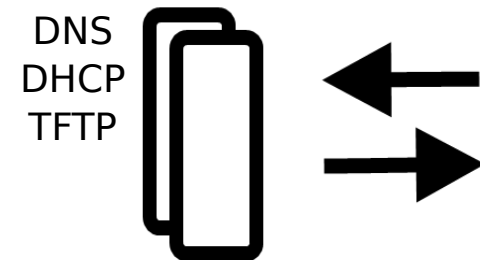
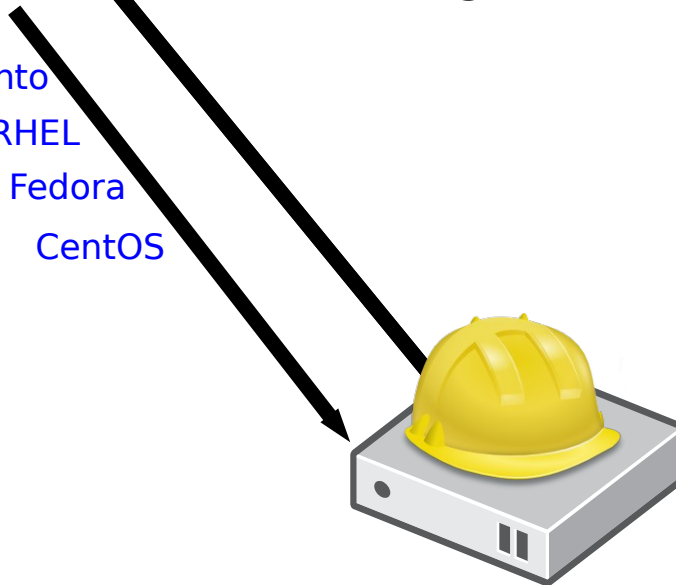
Foreman
Configurator



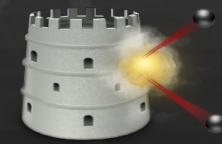
Foreman
Management

PXE
Boot

Ubuntu
RHEL
Fedora
CentOS



Smart Proxy



Foreman
Provision

Passwords
Keys
Users
Services



Foreman
Configurator



Foreman
Management

Provision templates
Host groups
Puppet classes
Parameters

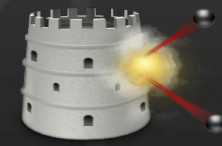


Configuration
Management

Reports



Chef
Puppet



Foreman
Provision



Foreman
Configurator

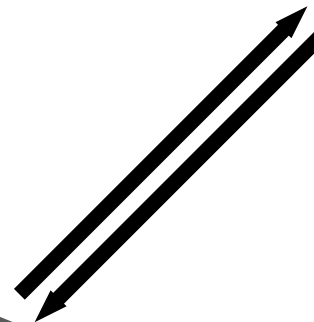


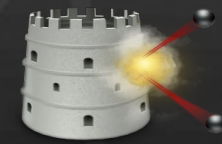
Foreman
Management



Interface
UI, API, Cli

Rest API
Web
Interface





FOREMAN

Yaniv Liberman ▾

Any Context ▾

Monitor ▾

Hosts ▾

Configure ▾

Infrastructure ▾

Administer ▾

Overview

Filter ...

Q Search

Generated at 12 Aug 14:58

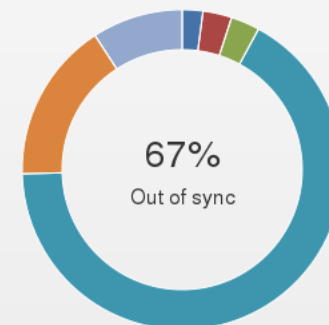
Manage dashboard ▾

Host Configuration Status

Hosts that had performed modifications without error	5
Hosts in error state	7
Good host reports in the last 35 minutes	7
Hosts that had pending changes	0
Out of sync hosts	160
Hosts with no reports	39
Hosts with alerts disabled	22

Total Hosts: 240

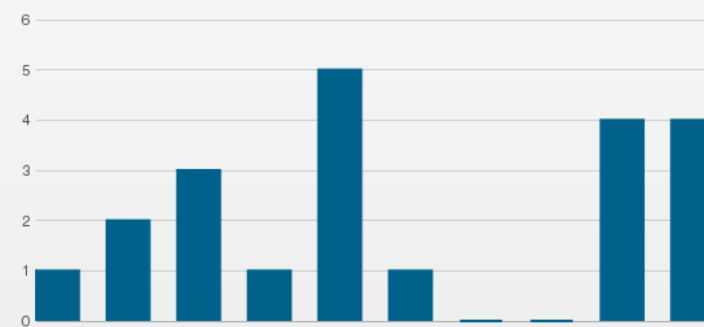
Host Configuration Chart

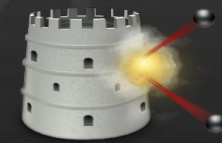


Latest Events

Host	A	R	F	FR	S	P
orange-vdsf...	0	0	2	0	0	0
tigris03.sc...	0	0	0	0	6	0
puma08.scl...	26	1	0	0	0	0
nott-vdsa.q...	0	0	2	0	0	0
orange-vdse...	0	0	2	0	0	0
cougar16.sc...	1	0	2	0	4	0

Run distribution in the last 30 minutes





Hosts



























Filter ...

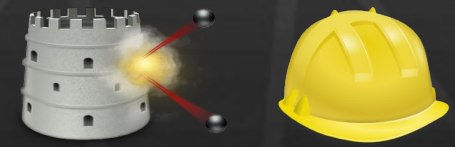


Q Search

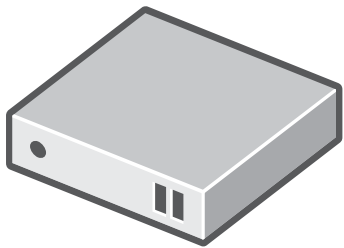


New Host

<input type="checkbox"/>	Name	Operating system	Environment	Model	Host group	Last report	
<input type="checkbox"/>	 alma01.qa.lab.tlv.redhat.com	 RHEL 6.5	qe_common	PowerEdge C...	qe_common/Compute	about 1 year ago	Edit ▾
<input type="checkbox"/>	 alma02.qa.lab.tlv.redhat.com	 RHEL 6.5	qe_common	PowerEdge C...	qe_common/Compute	about 1 year ago	Edit ▾
<input type="checkbox"/>	 alma05.qa.lab.tlv.redhat.com	 RHEL 6.5	qe_common	ProLiant DL...		10 months ago	Edit ▾
<input type="checkbox"/>	 alma06.qa.lab.tlv.redhat.com	 RHEL 6.5	qe_common	ProLiant DL...		10 months ago	Edit ▾
<input type="checkbox"/>	 aqua-vds1.qa.lab.tlv.redhat...	 RHEL 7.1	qe_common	PowerEdge R...	qe_common/OpenStack	2 days ago	Edit ▾
<input type="checkbox"/>	 aqua-vds10.qa.lab.tlv.redha...	 RHEL 6.5	production	PowerEdge R...	qe_common/OpenStack	over 1 year ago	Edit ▾
<input type="checkbox"/>	 aqua-vds2.qa.lab.tlv.redhat...	 RHEL 6.4	qe_common		qe_common/Core		Edit ▾
<input type="checkbox"/>	 aqua-vds3.qa.lab.tlv.redhat...	 RHEL 6.5	qe_common		qe_common/Core		Edit ▾
<input type="checkbox"/>	 aqua-vds4.qa.lab.tlv.redhat...	 RHEL 6.6	qe_common	PowerEdge R...	qe_common/Storage	8 months ago	Edit ▾
<input type="checkbox"/>	 aqua-vds5.qa.lab.tlv.redhat...	 RHEL 6.5	qe_common	PowerEdge R...	qe_common/Storage	8 months ago	Edit ▾
<input type="checkbox"/>	 aqua-vds6.qa.lab.tlv.redhat...	 RHEL 6.5	qe_common		qe_common/Core		Edit ▾
<input type="checkbox"/>	 aqua-vds8.qa.lab.tlv.redhat...	 RHEL 7.1	qe_common	PowerEdge R...	qe_common/OpenStack	2 days ago	Edit ▾
<input type="checkbox"/>	 aqua-vds9.qa.lab.tlv.redhat...	 RHEL 7.1	qe_common	PowerEdge R...	qe_common/OpenStack	2 days ago	Edit ▾



Bare Metal Provisioning

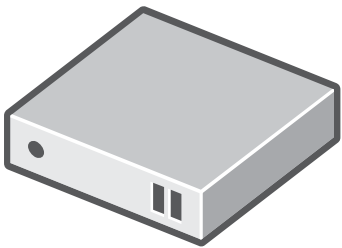
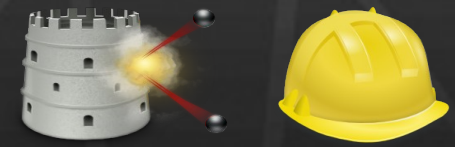


Foreman



Client (web portals)



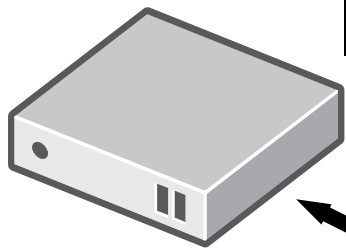
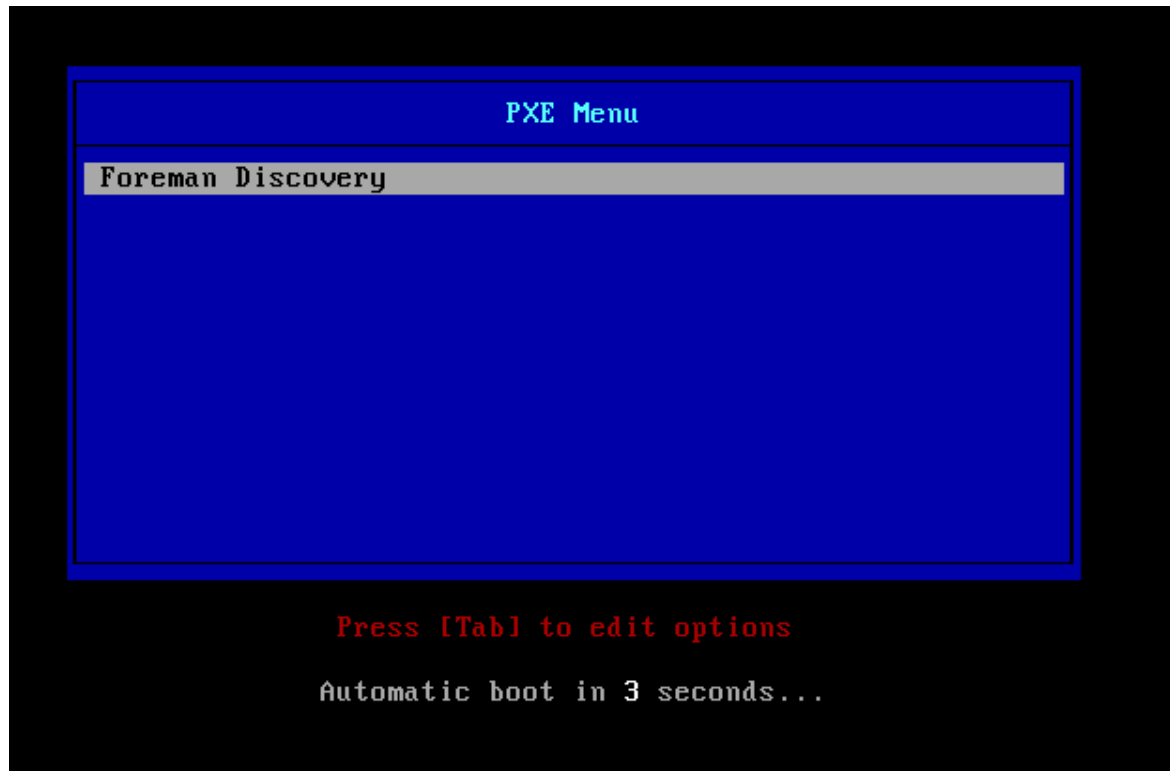
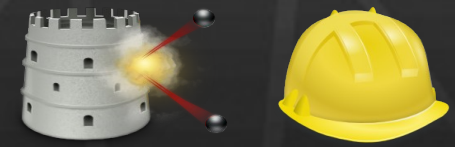


Foreman



Client (web portals)



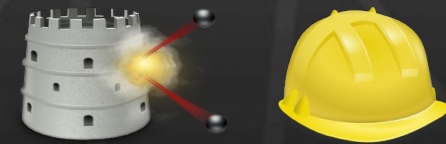


Foreman



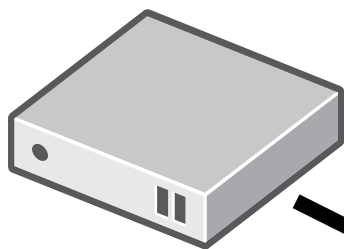
Client (web portals)





```
[ 0] memorytotal: 868.48 MB
[ 0] productname: Bochs
[ 0] Logs from discovery services now follows:
[ 0] Fact cache invalid, reloading to foreman
[ 0] Parsing kernel line: rootflags=loop initrd=boot/discovery-initrd.img root
=live:/foreman.iso rootfstype=auto ro rd.live.image rd.live.check rd.lvm=0 rootf
lags=ro crashkernel=128M elevator=deadline max_loop=256 rd.luks=0 rd.md=0 rd.dm=
0 nomodeset selinux=0 stateless foreman.url=http://192.168.223.2:3000 BOOTIF=01-
52-54-00-f5-c6-e4 BOOT_IMAGE=boot/discovery-vmlinuz

[ 0] Discovered by URL: http://192.168.223.2:3000
[ 0] Registering host with Foreman (http://192.168.223.2:3000)
[ 5] Response from Foreman 201: {"host":{"architecture_id":null,"build":false,
"certname":null,"comment":null,"compute_profile_id":null,"compute_resource_id":n
ull,"created_at":"2014-06-30T09:38:24Z","disk":null,"domain_id":null,"enabled":t
rue,"environment_id":null,"hostgroup_id":null,"id":121,"image_file":null,"image_
id":null,"installed_at":null,"ip":"192.168.223.244","last_compile":null,"last_fr
eshcheck":null,"last_report":"2014-06-30T09:38:24Z","location_id":null,"mac":"52
:54:00:f5:c6:e4","managed":false,"medium_id":null,"model_id":1,"name":"mac525400
f5c6e4","operatingsystem_id":null,"organization_id":null,"otp":null,"owner_id":n
ull,"owner_type":null,"provision_method":null,"ptable_id":null,"puppet_ca_proxy_
id":null,"puppet_proxy_id":null,"puppet_status":0,"realm_id":null,"root_pass":nu
ll,"serial":null,"source_file_id":null,"subnet_id":1,"updated_at":"2014-06-30T09
:38:29Z","use_image":null,"uuid":null}}
```

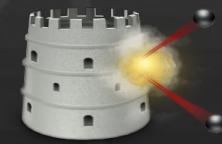


Foreman



Client (web portals)





Bare Metal Provisioning

 FOREMAN

Monitor ▾ Hosts ▾ Configure ▾ Infrastructure ▾

Administer ▾

Discovered hosts

Filter ...

✕

Search



Name

Model

Subnet

Last facts upload



mac5254007c6345

Bochs

example.com (192.168.223.0/24)

5 days ago

Provision



mac525400f42ac1

Bochs

example.com (192.168.223.0/24)

5 days ago

Provision



mac525400f5c6e4

Bochs

example.com (192.168.223.0/24)

2 minutes ago

Provision



Displaying all 3 entries

Bare Metal Provisioning

Discovered host: mac5254007c6345

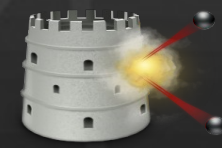
Provision

Refresh facts

Delete

Facts discovered on this host

Fact	Value
architecture	x86_64
discovery_bootif	52:54:00:7c:63:45
discovery_version	0.5.4
domain	localdomain
facterversion	1.6.18
fqdn	localhost.localdomain
hardwareisa	x86_64
hardwaremodel	x86_64
hostname	localhost
id	root
interfaces	eth0,lo
ipaddress	192.168.223.238
ipaddress_eth0	192.168.223.238
ipaddress_lo	127.0.0.1
is_virtual	true
lib	/usr/share/ovirt-node-plugin-foreman
lsbdistcodename	RedHatEnterpriseVirtualizationHypervisor
lsbdistdescription	Red Hat Enterprise Virtualization Hypervisor

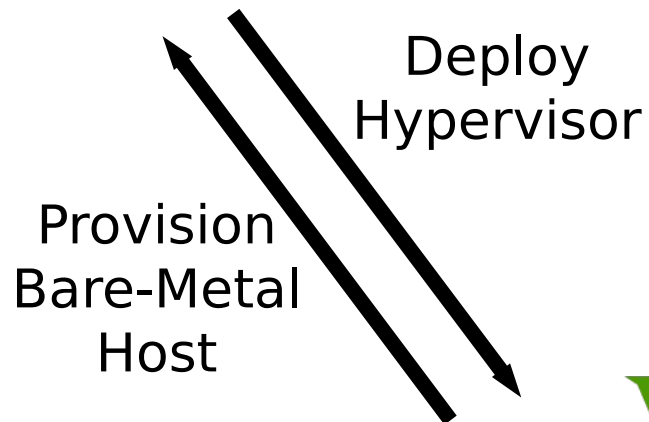


How does Provisioning integrate with oVirt ?

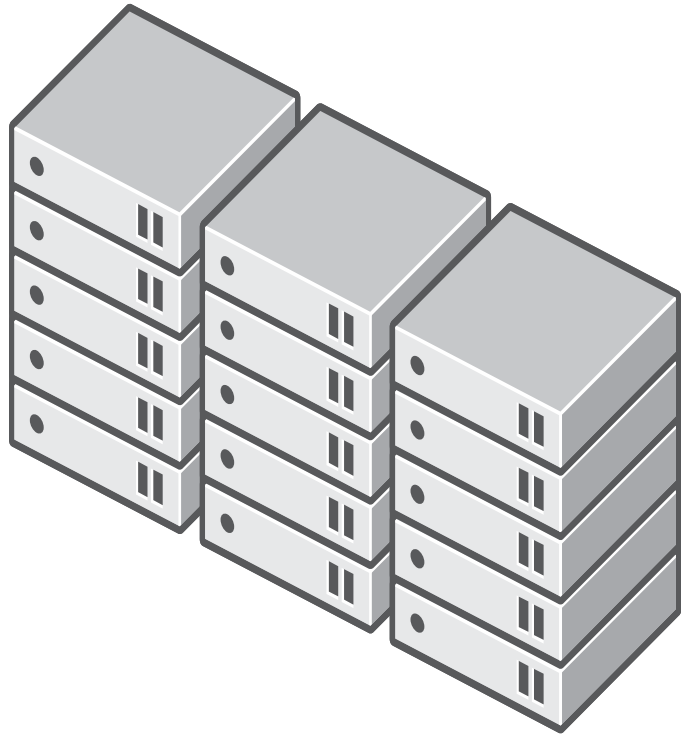
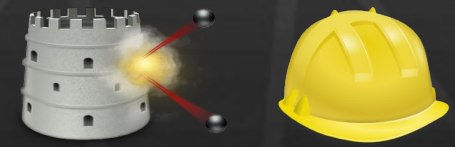
Host
Lifecycle
Management



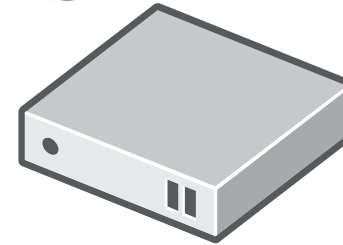
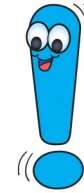
FOREMAN

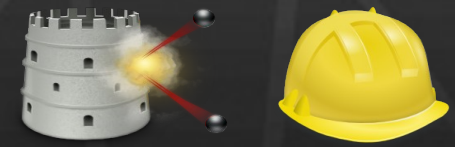


oVirt



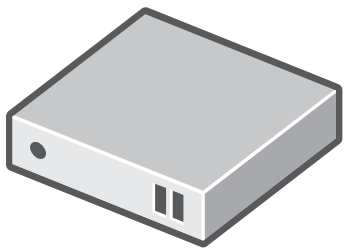
#1 : Provision





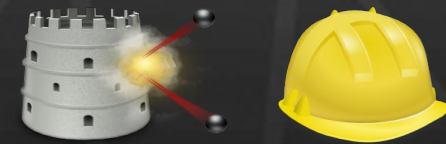
Host Deploy

The Basic Of Utilizing The Hypervisor



Client (Web Portal)





Deploy Host Flow

OPEN VIRTUALIZATION MANAGER

Data Center

New Edit

Collapse All

m

a Centers

default

Storage

Networks

Templates

Clusters

External Providers

virt-image-repository

Host Information

General

Info

SPM Pri

Active V

Logical

Online L

Boot Tin

Hosted

2015-Aug-12, 14:39 ET

New Host

General

Power Management

SPM

Console

Network Provider

Host Cluster: Default
Data Center: Default

☐ Use Foreman/Satellite

Name: MyNewHost

Comment: New arrival to my awesome Data-Center

Address: myhostname.com

SSH Port: 22

Authentication

User Name: root

☒ Password

☐ SSH Public Key

Advanced Parameters

☒ Automatically configure host firewall

☒ Use JSON protocol

mes Users

gn Tags Show Report Refresh

Virtual Machines Me

0

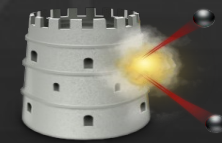
Memory for scheduling new V

Page Sharing:

c Large Pages:

mode:

psnapshot Support:



oVirt OPEN VIRTUALIZATION MANAGER

Host:

System

Expand All Collapse All

System

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

New Edit Remove Activate Maintenance Select as SPM Configure Local Storage Power Management Assign Tags Refresh Capabilities

Name	Hostname/IP	Cluster	Data Center	Status	Virtual Machines
My-New-Server	10.35.0.188	Default	Default	Installing	0

General Virtual Machines Network Interfaces Host Hooks Permissions Hardware Information

OS Version: Kernel Version: KVM Version: LIBVIRT Version: [N/A] VDSM Version: [N/A] SPICE Version: GlusterFS Version: [N/A]

SPM Priority: Medium Active VMs: [N/A] Logical CPU Cores: [N/A] Boot Time: N/A Hosted Engine HA: [N/A] iSCSI Initiator Name: Kdump Status: Unknown

Physical Memory: Swap Size: Shared Memory: Max free Memory for sc Memory Page Sharing: Automatic Large Pages: SELinux mode: Live Guest Support:

Bookmarks

Tags

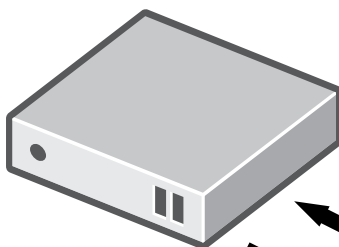
Last Message: 2014-Jul-01, 18:32 Installing Host My-New-Server. Connected to host 10.35.0.188 with SSH key fingerprint: 7b:d2:19:43:27:06:5b:32:a8:23:c6:fc:56:90:01:80.

2014-Jul-01, 18:32 Installing Host My-New-Server. Connected to host 10.35.0.188 with SSH key fingerprint: 7b:d2:19:43:27:06:5b:32:a8:23:c6:fc:56:90:01:80.

2014-Jul-01, 18:32 My-New-Server was added by admin.

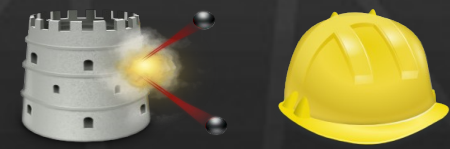
2014-Jul-01, 18:32 to verify Power Management configuration for Host My-New-Server.

New Host



Deploy
(Configure)

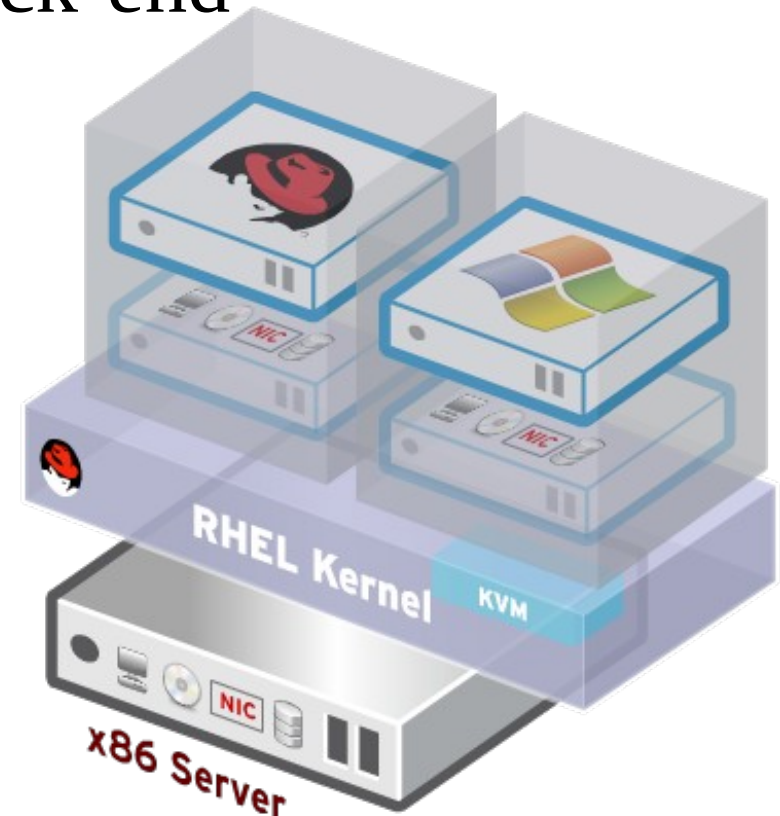


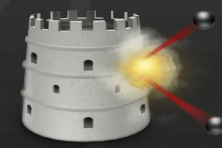


Host Deployment

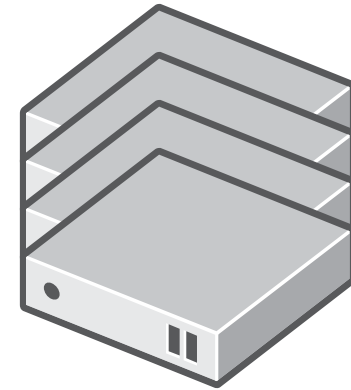
The process of preparing an operating system environment suitable to host virtual machines and to be managed by the ovirt back-end

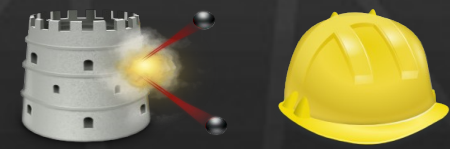
- VDSM packages are installed.
- Clock is 'soft' synchronized.
- Management bridge created.
- Firewall rules applied.
- SSH trust obtained.
- PKI trust obtained.
- VDSM certificate issued.
- Services' boot state set.
- Host tuned for virtualization.





Adding New Host – Discovered Hosts





Adding External Provider

Providers

Edit

Name	Type
foreman-ovirt	Foreman

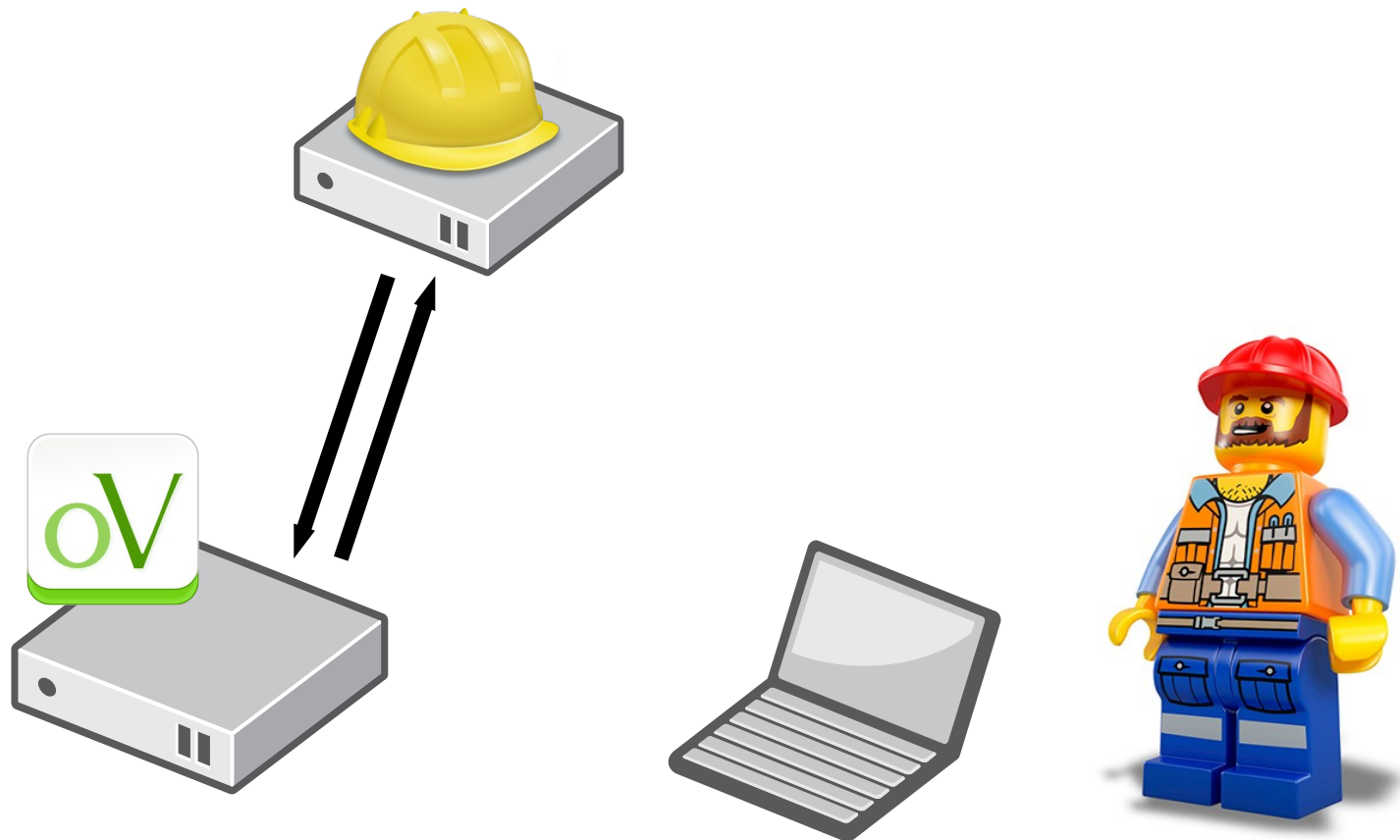
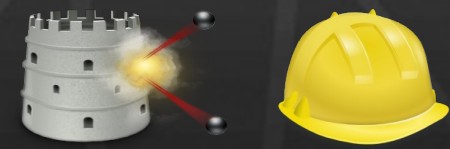
General

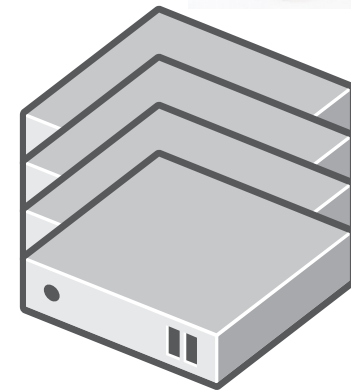
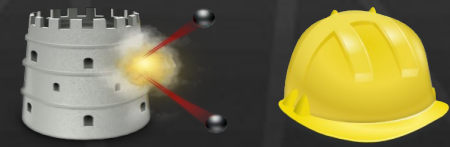
Name: foreman-ovirt
Type: Foreman
Description:
Provider URL: http://127.0.0.1:8081

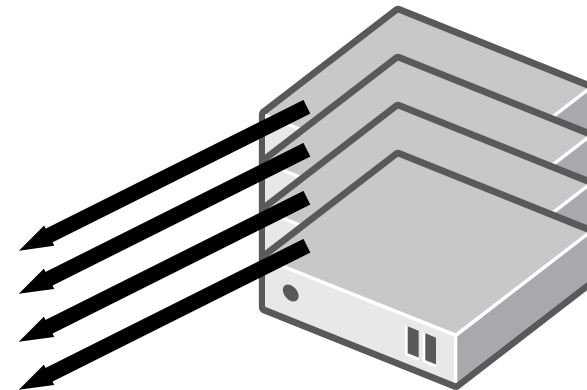
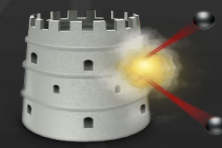
Edit Provider

General

Name: foreman-ovirt
Description:
Type: Foreman
Provider URL: http://foreman-tlv.org:8081
☒ Requires Authentication
Username: foreman-local-user
Password:
Test
OK Cancel

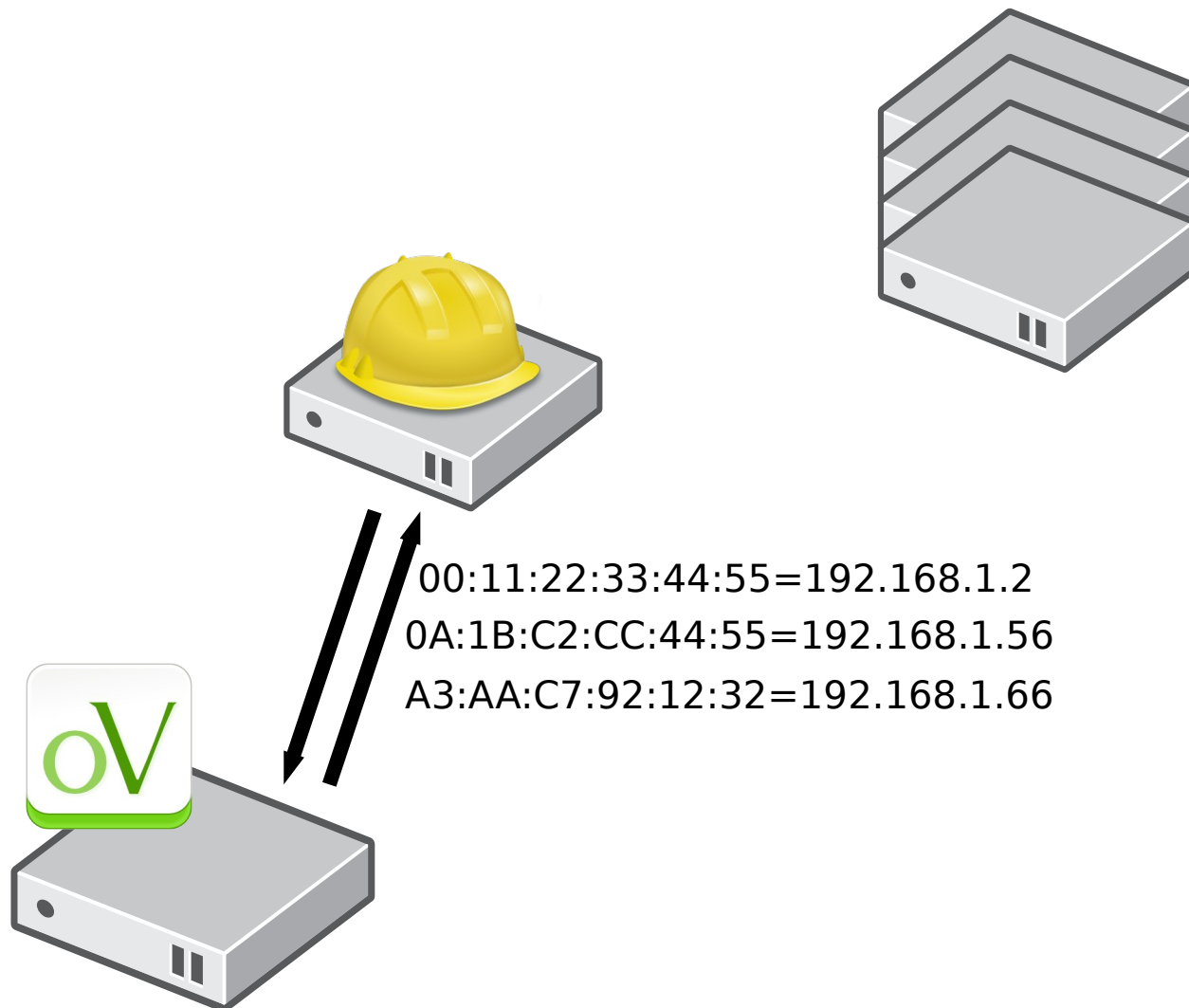
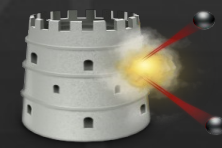


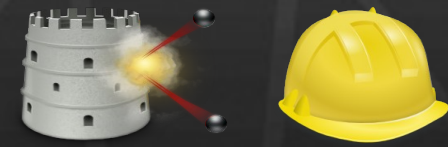




00:11:22:33:44:55
0A:1B:C2:CC:44:55
A3:AA:C7:92:12:32







oVirt Virtualization Manager

admin | Configure | Guide | About | Feedback

Data Centers | Clusters | Hosts

New Edit Remove Activate Maintenance

Name	Hosts
aaa	10.35
f19-host	10.35
f20	192.1
mac001a4a478601	192.1
mac001a4a478602	192.1
mac001a4a47860d	192.1

New Host

General

Power Management

SPM

Console

Network Provider

Data Center: aa

Host Cluster: aa

local-foreman

☒ Use Foreman Hosts Providers

☒ Discovered Hosts

☐ Provisioned Hosts

Discovered Hosts

Host Groups

Compute Resources

Name

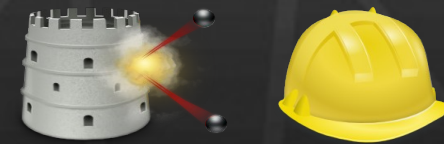
Comment

Address: 192.168.223.238

Set Root Password

Advanced Parameters

MAC	DiscoverTime
mac525400f42ac1	2014-06-25T11:43:26Z Subnet: example.com
mac525400f5c6e4	2014-06-30T09:38:24Z Subnet: example.com



Virtualization Manager

admin | Configure | Guide | About

New Host

General

Data Center: Default
Host Cluster: Default
foreman-dell3

☒ Use Foreman Hosts Providers

☒ Discovered Hosts
☐ Provisioned Hosts

Discovered Hosts: mac001a4ad99801
Host Groups:
Compute Resources:

Name:
Comment:
Address: 192.168.223.58

Set Root Password

Advanced Parameters

OK Cancel

Hosts

Name	Hosts
dell-3	10.35

General | Virtual Machines | Networks

OS Version: Fedora - 20 - 3
Kernel Version: 3.15.4 - 200.fc20.x
KVM Version: 1.6.2 - 6.fc20
LIBVIRT Version: libvirt-1.1.3.5-2.fc20
VDSM Version: vdsmd-4.16.0-103.g
SPICE Version: 0.12.5 - 2.fc20
GlusterFS Version: [N/A]

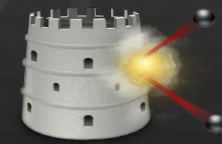
4-Jul-16, 09:04 User admin logged in.
User admin logged in.
User admin logged in.
User admin logged out.
Failed to add Host Non interactive user (Use
User admin got disconnected from VM p1.

OS: RHEL 6.5 | Subnet: example.com |
Domain: example.com | Arch: x86_64

OS: RHEV-H 6.5 | Subnet: example.com |
Domain: example.com | Arch: x86_64

15935 MB total, 2868 MB used, 13067 MB free
15999 MB total, 0 MB used, 15999 MB free
0%
for scheduling new VMs: 13371 MB
ng: Inactive
ges: MADvise
Disabled
Active

Alerts (1) | Events | Tasks



Edit hg-fed

Host groups

Global parameters

PUPPET

Environments

Puppet classes

Config groups

Smart variables

Host Group

P

rk

Operating System

Parameters

Par

Name

hg-fedora

Environment

production

Puppet CA

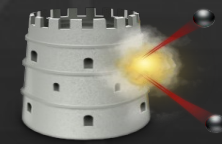
masayag-foreman.usersys.redhat.com

Use this puppet server as a CA server

Puppet Master

masayag-foreman.usersys.redhat.com

Use this puppet server as an initial Puppet Server or to execute puppet runs



UALIZATION MANAGER

oVirt Hosts Management Interface

Navigation: Data Centers | Clusters | **Hosts**

Actions: New | Edit | Remove | Activate | Maintenance

Name	Hosts
dell-3	10.35

Host Details (dell-3):

- OS Version: Fedora - 20 - 3
- Kernel Version: 3.15.4 - 200.fc20.x
- KVM Version: 1.6.2 - 6.fc20
- LIBVIRT Version: libvirt-1.1.3.5-2.fc20
- VDSM Version: vdsd-4.16.0-103.g
- SPICE Version: 0.12.5 - 2.fc20
- GlusterFS Version: [N/A]

Status: 14-Jul-16, 09:04 User admin logged in.

New Host

General

Data Center: Default

Host Cluster: Default

Network Provider: foreman-dell3

☒ Use Foreman Hosts Providers

☒ Discovered Hosts [?](#)

☐ Provisioned Hosts [?](#)

Discovered Hosts: mac001a4ad99801

Host Groups: base

Compute Resources:

Name: ovirt

Comment:

Address: 192.168.223.58

Set Root Password

.....

[Advanced Parameters](#)

URL: http://10.35.1.53:8080/api |
 Provider: oVirt | User: admin@internal

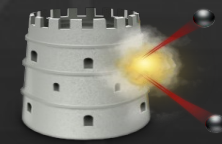
Host Resources Overview:

Hosts	Memory	CPU	Network	SPM
dell-3	18%	2%	7%	SPM

Host Details (dell-3):

- 15935 MB total, 2868 MB used
- 15999 MB total, 0 MB used, 1
- 0%
- or scheduling new VMs: 13371 MB
- ng: Inactive
- ges: MADvise
- Disabled

Alerts (1)



Edit ovirt

- Provisioning setup
- Smart proxies
- Compute resources**
- Compute profiles
- Subnets
- Domains
- Realms

Name

ovirt

Provider

oVirt

Description

URL

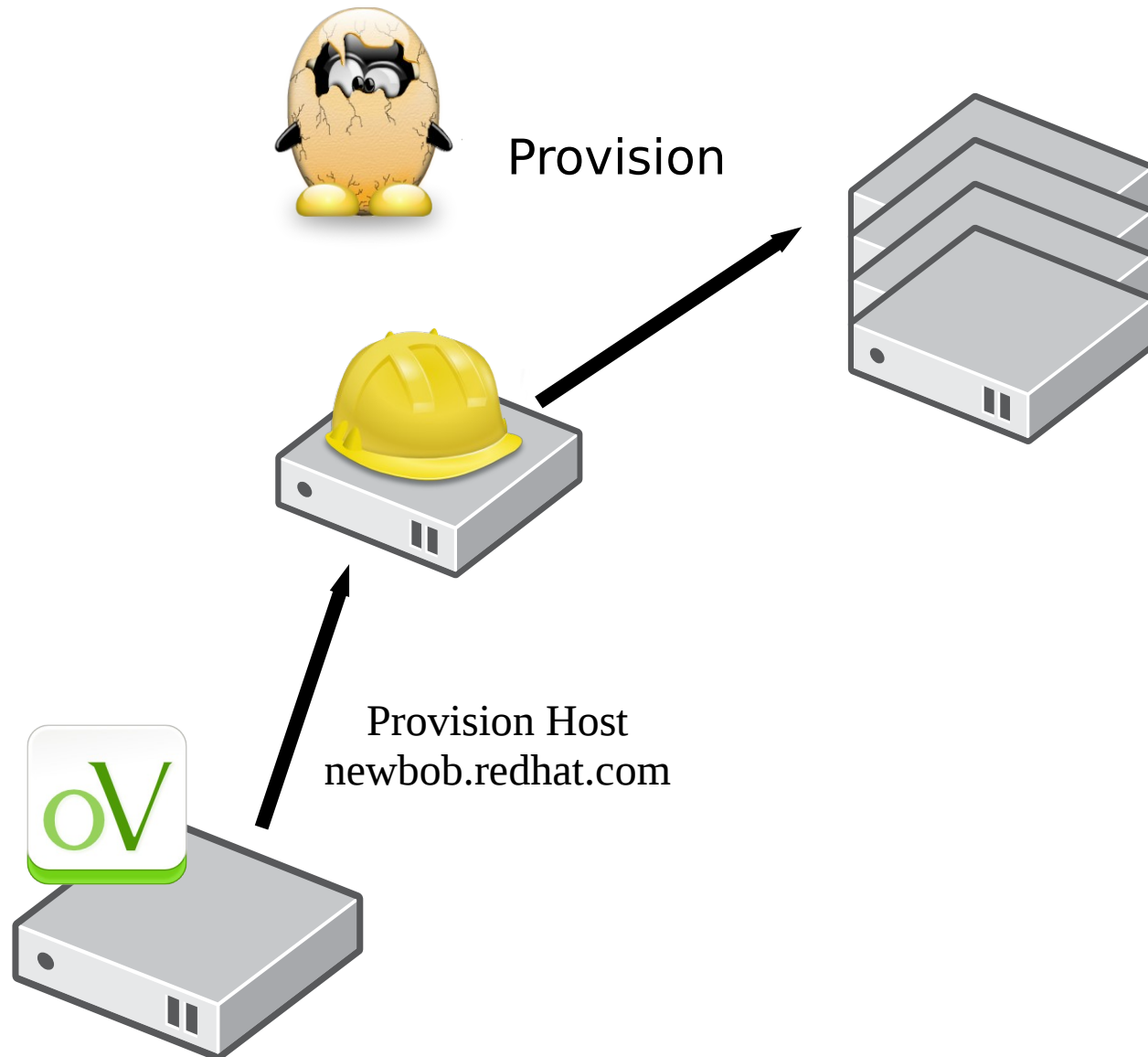
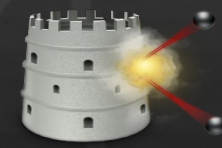
e.g. https://ovirt.example.com:8443/api

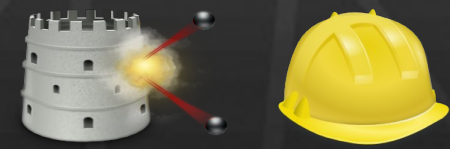
Username

e.g. admin@internal

Password

Datacenter





Host:

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

New Edit Remove Activate Maintenance Select as SPM Configure Local Storage Power Management Assign Tags Refresh Capabilities

System

Expand All Collapse All

System

Data Centers

Default

Storage

Networks

Templates

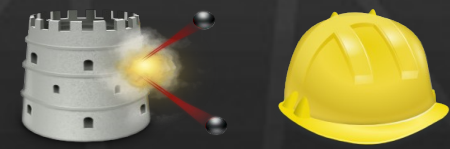
Clusters

External Providers

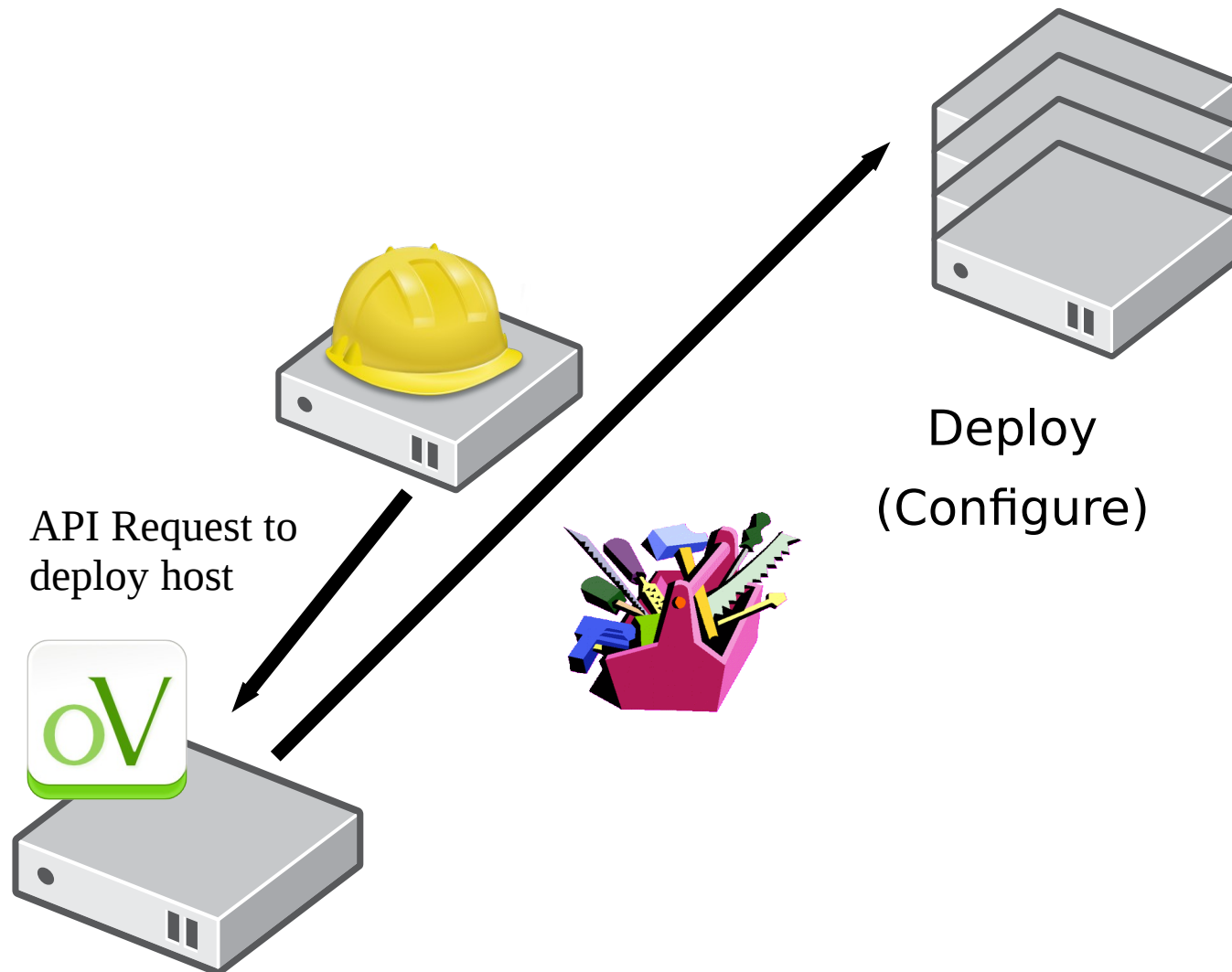
foreman-local

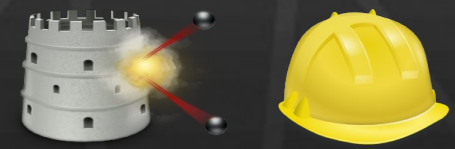
ovirt-image-repository

Name	Hostname/IP	Cluster	Data Center	Status	Virtual Machines	Memory
525400e2d103	192.168.223.62	Default	Default	Installing OS	0	0%
dell-1	10.35.0.188	Default	Default	Installing	0	0%

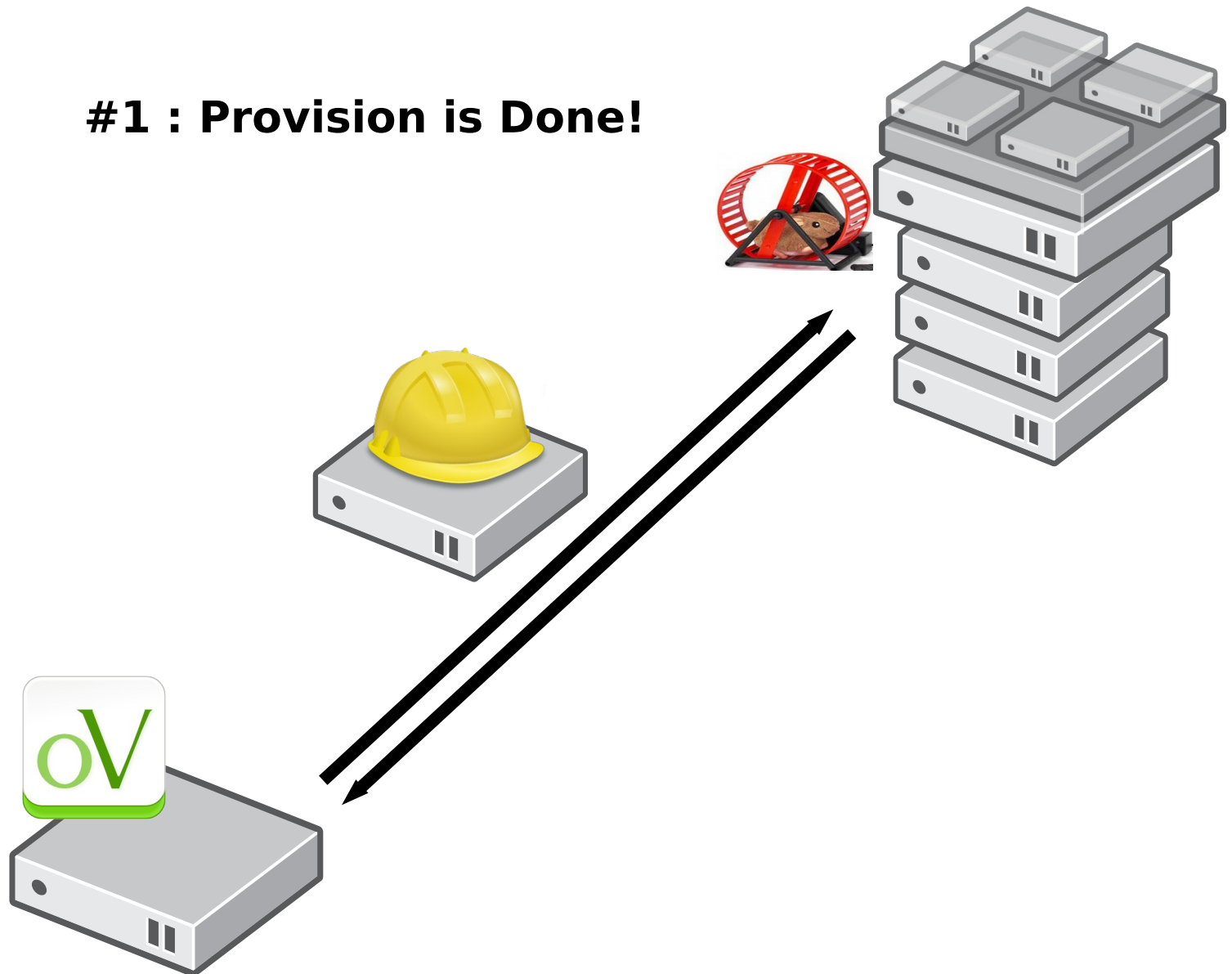


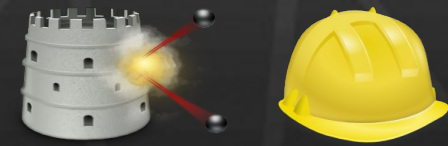
oVirt Provision Plugin





#1 : Provision is Done!





- Create, organize, and manage local yum and puppet repositories
- Sync remote repositories
- Create custom Content Views
- Install package and errata updates

The screenshot displays the Katello web interface for 'ACME_Corporation'. The top navigation bar includes 'Dashboard', 'Content Management', 'Systems', 'Organizations', and 'Administration'. The 'Dashboard' tab is active.

System Subscription Status

Subscription Status	Count
Invalid Subscriptions	0
Insufficient Entitlements	0
Current Subscriptions	96

Total Systems: 96

Available Errata

TYPE	ERRATA	PRODUCT
U	▶ RHSA-2011-01-0 (6 Systems)	Red Hat Enterprise Linux 6.0
+	▶ RHSA-2011-01-1 (9 Systems)	Red Hat Enterprise Linux 6.0
+	▶ RHSA-2011-01-2 (6 Systems)	Red Hat Enterprise Linux 6.0
U	▶ RHSA-2011-01-3 (4 Systems)	Red Hat Enterprise Linux 6.0
+	▶ RHSA-2011-01-4 (9 Systems)	Red Hat Enterprise Linux 6.0
+	▶ RHSA-2011-01-5 (2 Systems)	Red Hat Enterprise Linux 6.0
+	▶ RHSA-2011-01-6 (4 Systems)	Red Hat Enterprise Linux 6.0
+	▶ RHSA-2011-01-7 (9 Systems)	Red Hat Enterprise Linux 6.0
+	▶ RHSA-2011-01-8 (5 Systems)	Red Hat Enterprise Linux 6.0
U	▶ RHSA-2011-01-9 (2 Systems)	Red Hat Enterprise Linux 6.0
+	▶ RHSA-2011-01-10 (6 Systems)	Red Hat Enterprise Linux 6.0
+	▶ RHSA-2011-01-11 (10 Systems)	Red Hat Enterprise Linux 6.0
+	▶ RHSA-2011-01-12 (2 Systems)	Red Hat Enterprise Linux 6.0

Latest Notifications

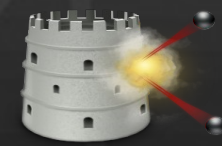
- 2011-12-22 19:10:58: fassdfasdf Removed Successfully [More >>](#)
- 2011-12-22 19:10:30: System 'fassdfasdf' was created. [More >>](#)
- 2011-12-22 19:02:01: Welcome Back, admin [More >>](#)
- 2011-12-22 18:00:01: undefined method 'P' for #<String:0x7f26b0a70a... [More >>](#)

Promotions Overview

No changesets found.

Sync Overview

Red Hat Enterprise Linux 49%



Subscriptions ▾ Repositories ▾ Sync Management ▾ Content Search System Templates Changeset Management ▾



Eligible Content

[+ New Template](#)



PuppetEnterprise noarch	...
EPEL noarch	...
OpenShift Origin noarch	...
Red Hat Enterprise Linux Server x86_64	...
Red Hat CloudForms x86_64	...

System Templates



» PuppetExample » Packages



[+ Add](#)

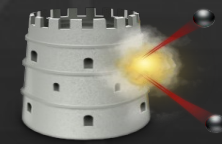
pe-augeas	Remove
pe-augeas-libs	Remove
pe-facter	Remove
pe-mcollective	Remove
pe-mcollective-common	Remove
pe-puppet	Remove
pe-puppet-enterprise-release	Remove
pe-ruby	Remove

Edit Details

Remove

Save

Download



- Product Info
- Updates Type

Dashboard
Content Management
Systems
Organizations
Administration

Content Providers
Sync Management
System Templates
Promotions
Promotion Changeset History

Library
Stage

Stage Content

» Errata » All

RHEA-2011:1711 : 389-ds-base bug fix and enhancement update
RHEA-2011:1711 : 389-ds-base bug fix and enhancement update
RHEA-2011:1711 : 389-ds-base bug fix and enhancement update
RHEA-2011:1711 : 389-ds-base bug fix and enhancement update
RHBA-2012:0049 : 389-ds-base bug fix update
RHBA-2011:0824 : 389-ds-base bug fix update
RHBA-2011:0824 : 389-ds-base bug fix update
RHBA-2011:0824 : 389-ds-base bug fix update
RHBA-2011:0824 : 389-ds-base bug fix update
RHBA-2012:0049 : 389-ds-base bug fix update
RHBA-2011:0824 : 389-ds-base bug fix update
RHBA-2012:0049 : 389-ds-base bug fix update
RHBA-2012:0049 : 389-ds-base bug fix update

Close

RHBA-2012:0049

Packages
Details

Advisory:

Title:

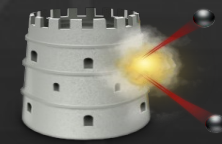
Type:

Issued:

Updated:

Associated Bugs:

TYPE	ID / LINK	TITLE
<p>Description:</p> <p>The 389-ds-base packages provide 389 Directory Server, which is an LDAPv3 compliant server. The base packages include the Lightweight Directory Access Protocol (LDAP) server and command-line utilities for server administration.</p> <p>This update fixes the following bugs:</p> <p>* When the LDAP server was under a heavy load, and the network was congested, client connections could experience problems. If there was a connection problem while the server was sending Simple Paged Result (SPR) search results to the</p>		



How does Content Management integrate with oVirt ?

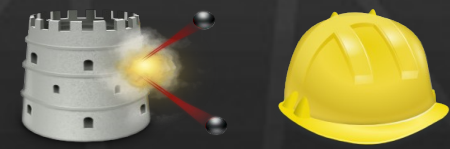
oVirt

Gather
Content
Information

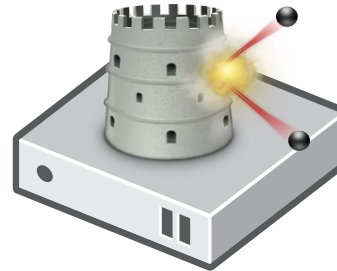
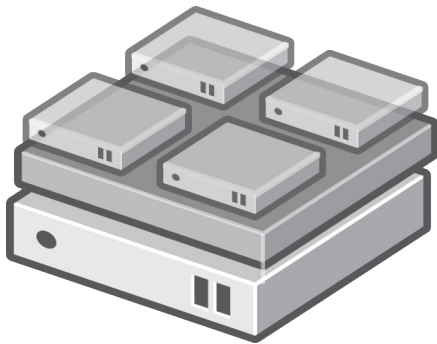
ERRATA Info

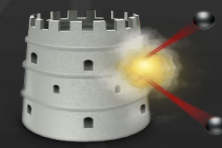
Host Content
Management



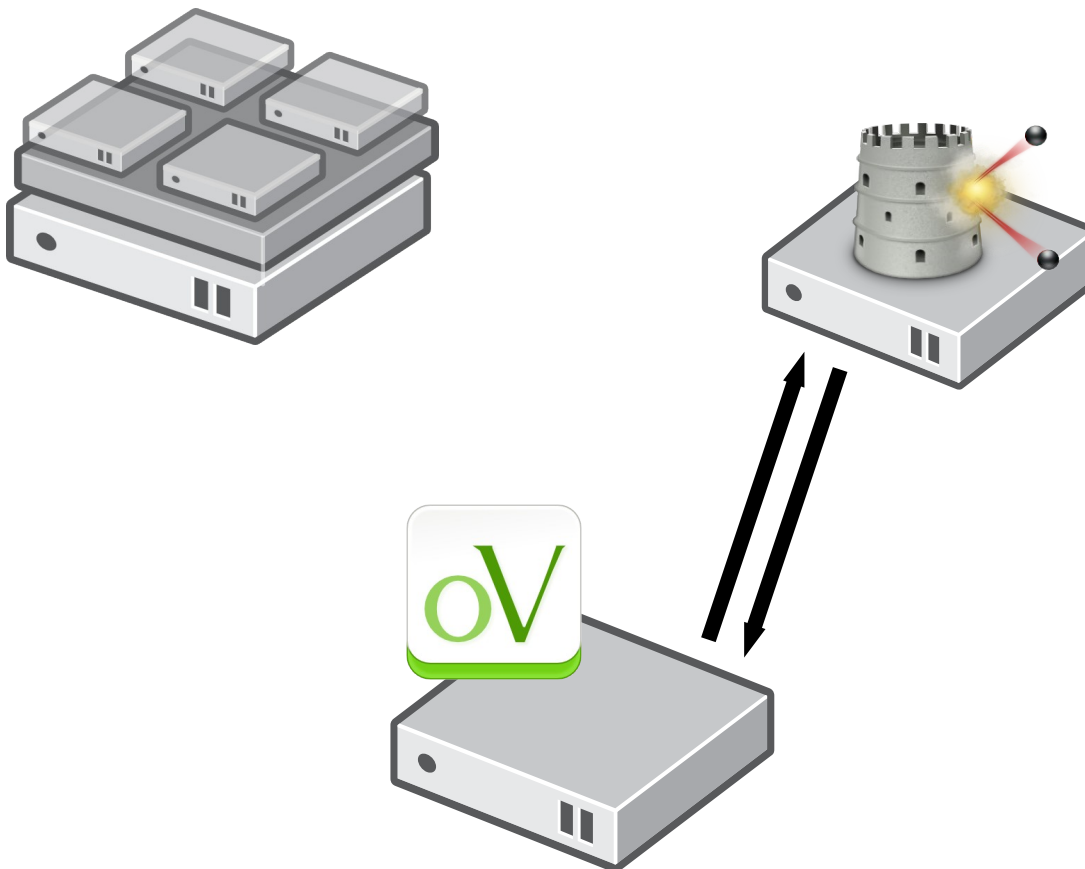


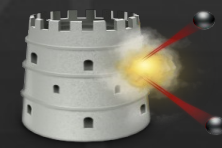
#2 : Host Content Information



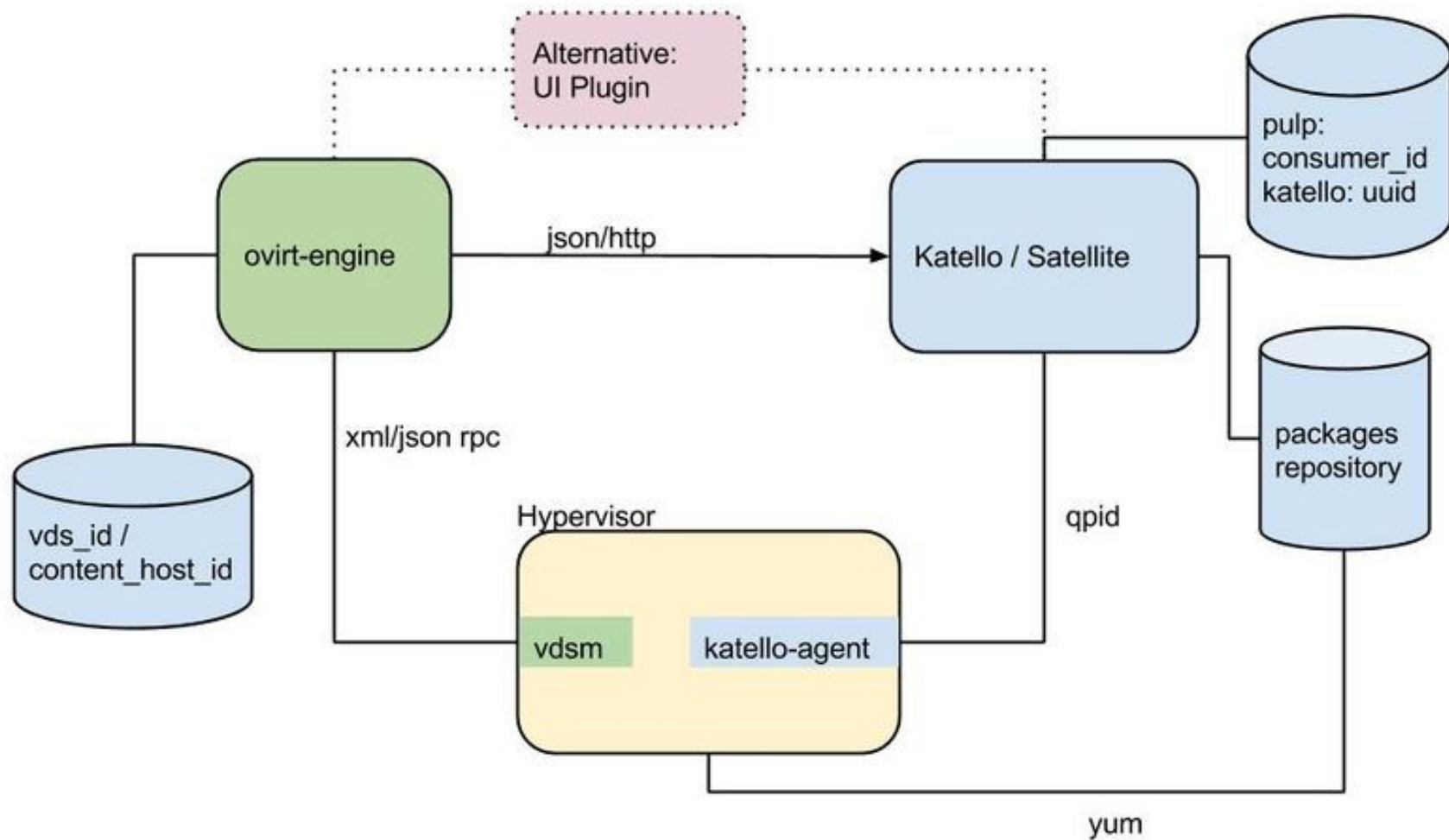


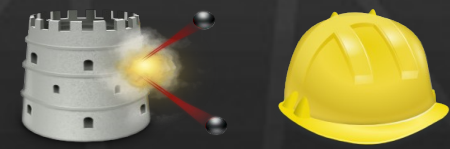
API Request To Gather Information About Host Or Virtual Machine



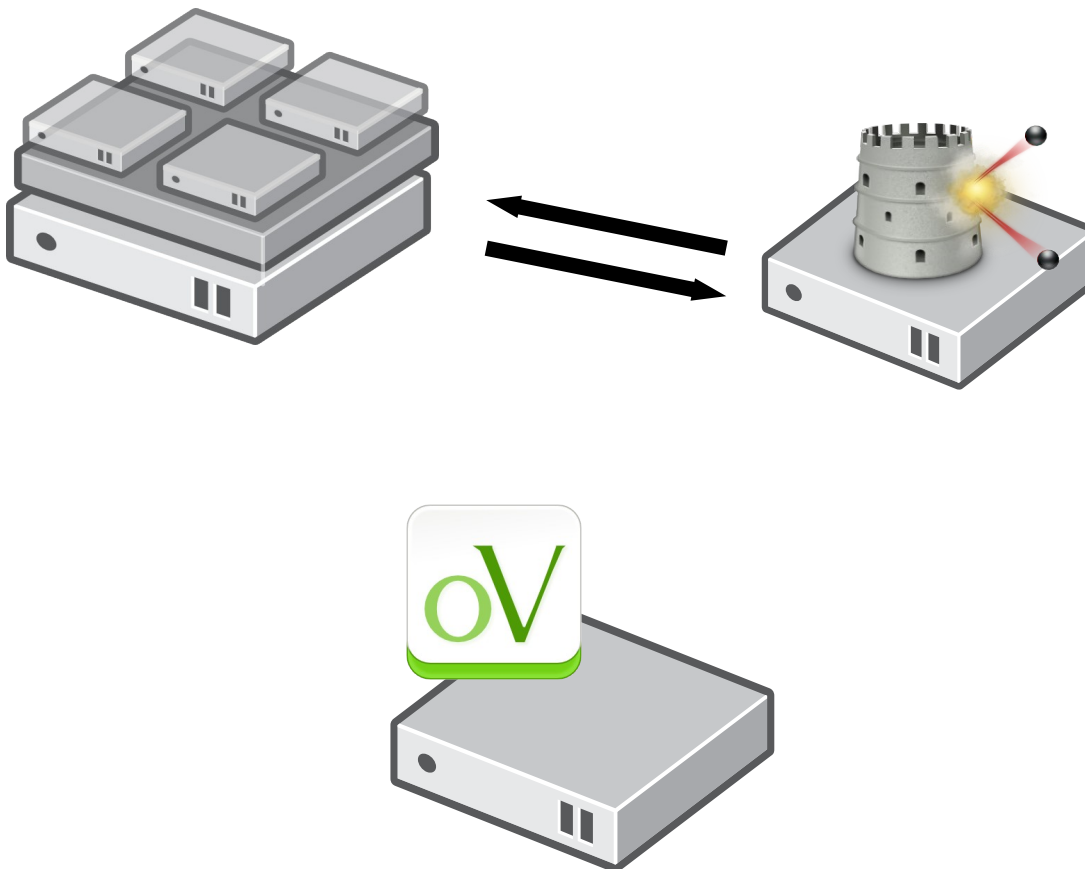


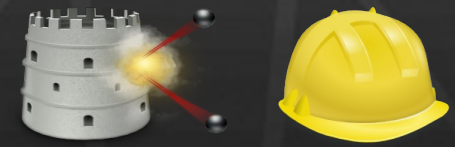
Collecting Content Flow:



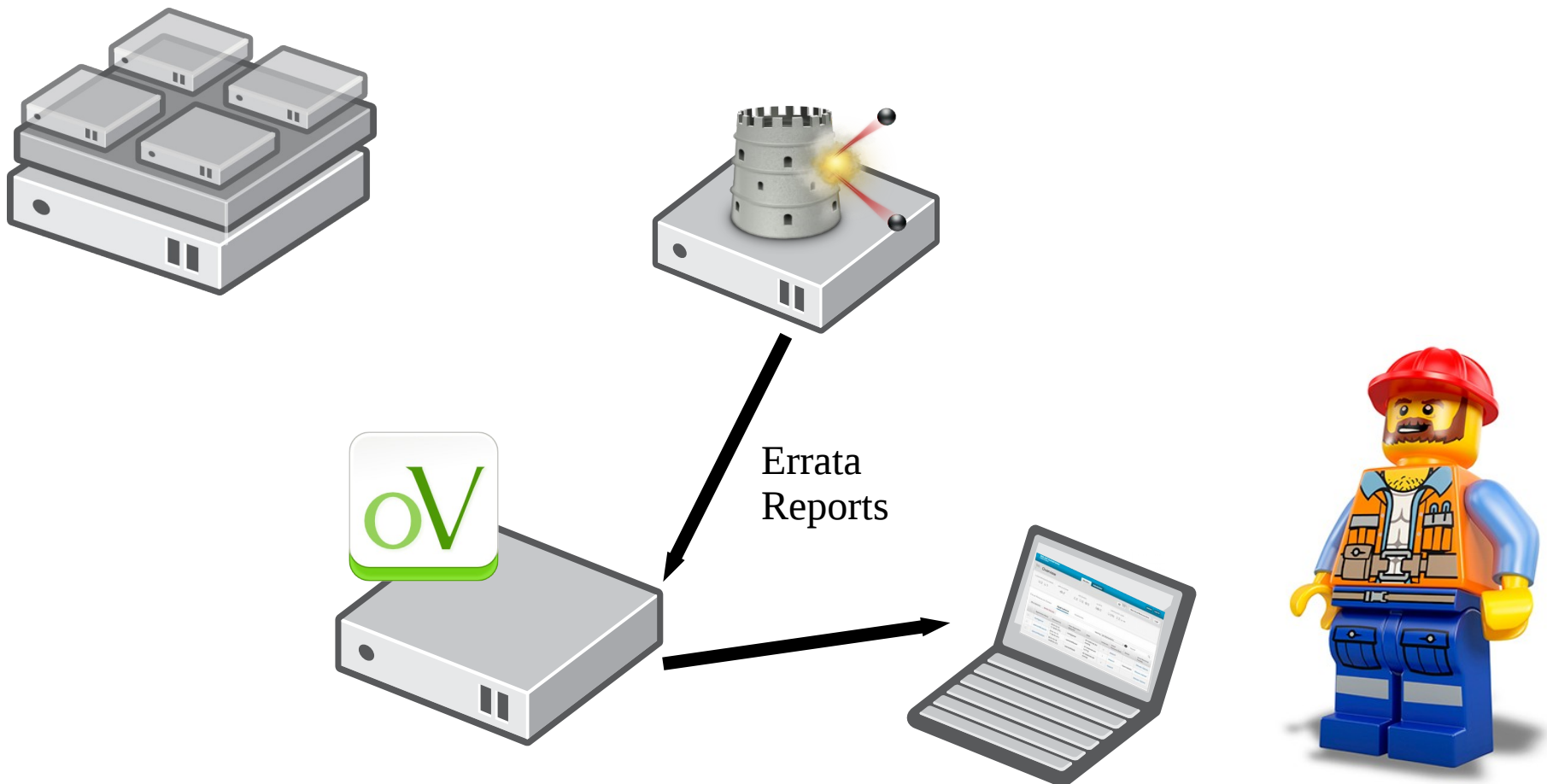


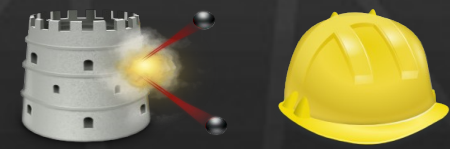
Reads And Reports Content Status By Using Katello Agent





#2 : Host Content Information





Host\VM Content Information

oVirt OPEN VIRTUALIZATION MANAGER ver 3.6 Updates available

Host:

System

Expand All Collapse All

▼ **System**

- ▼ Data Centers
 - ▼ dc35
 - ▶ Storage
 - ▶ Networks
 - ▶ Templates
 - ▶ Clusters
- ▼ Default
 - ▶ Storage
 - ▶ Networks
 - ▶ Templates
 - ▶ Clusters
- External Providers

Hosts

New Edit Remove Activate Maintenance Select as SPM Configure Local Storage Upgrade

Name	Hostname/IP	Cluster	Data Center
derezhost2	derezhost2.usersys	c35	dc35

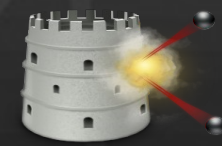
General Virtual Machines Network Interfaces Host Hooks Permissions Hardware In

[Info](#) [Software](#) [Hardware](#) [Errata](#)

Total Security: [35 \(3 Critical, 2 High severity\)](#)

Total Bug Fix: [21](#)

Total Enhancement: [5](#)



oVirt OPEN VIRTUALIZATION MANAGER ver 3.6 Updates available

Errata for Host XYZ

☐ Security ☐ Bugs ☐ Enhancements

Severity ▾	Issued	ID	Title
Moderate	22 Jan 2015	ui3823746s	gnupg2 security update
Moderate	21 Jan 2015	ui3823446s	km1__1 security update
Moderate	20 Jan 2015	ui3555546s	km__3 security update
	18 Jan 2015	ui1112746s	km__4 security update

gnupg2 security update

ID: RHSA-2013:1459

Issued: 2013-10-24T00:00:00Z

Type: Security

Severity: Moderate

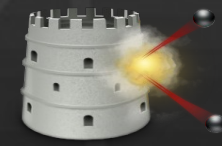
Description: The GNU Privacy Guard (GnuPG or GPG) is a tool for encrypting data and creating digital signatures, compliant with.

Solution: Before applying this update, make sure all previously released errata relevant to...

Summary: An updated gnupg2 package that fixes three security issues is now available for Red Hat Enterprise Linux 5 and 6.se etc etc etc...

Packages: gnupg2-2.0.14-6.el6_4.x86_64, gnupg2-2.0.14-6.el6_5.x86_64

Close



Engine Content

oVirt OPEN VIRTUALIZATION MANAGER

Errata: [x] [☆] [Q]

System

Expand All Collapse All

- System
 - Data Centers
 - Errata**

Errata

Severity	Issued	ID	Title
⚠ Moderate	22 Jan 2015	ui3823746s	gnupg2 security update ← [selected]
🔴 Moderate	21 Jan 2015	ui3823446s	kml__1 security update
⚠ Moderate	20 Jan 2015	ui3555546s	km__3 security update
+	18 Jan 2015	ui1112746s	km__4 security update

General

gnupg2 security update

ID: RHSA-2013:1459

Issued: 2013-10-24T00:00:00Z

Type: Security

Severity: Moderate

Description: The GNU Privacy Guard (GnuPG or GPG) is a tool for encrypting data and creating digital signatures, compliant with.

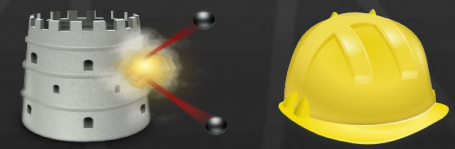
Solution: Before applying this update, make sure all previously released errata relevant to...

Summary: An updated gnupg2 package that fixes three security issues is now available for Red Hat Enterprise Linux 5 and 6.se etc etc etc...

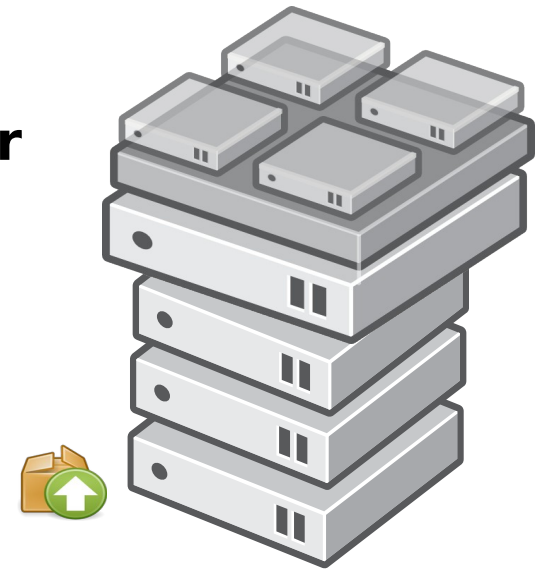
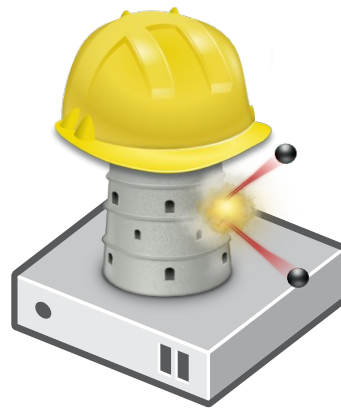
Packages: gnupg2-2.0.14-6.el6_4.x86_64, gnupg2-2.0.14-6.el6_5.x86_64

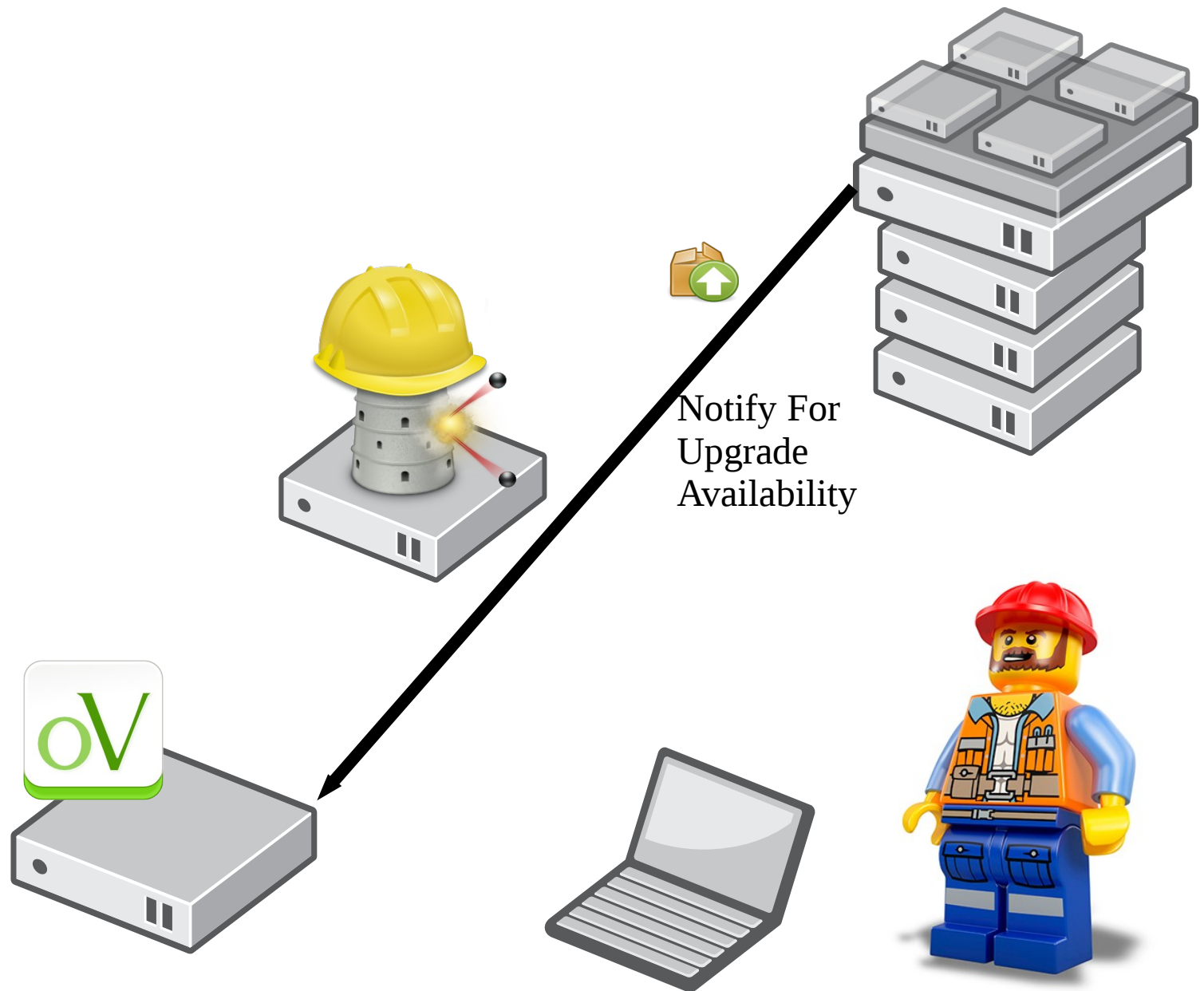
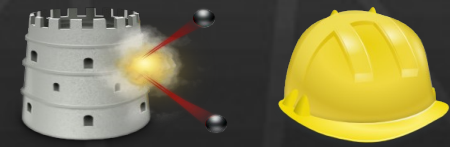
Bookmarks

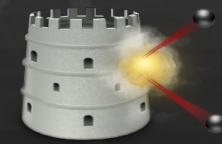
Tags



#3 : Upgrade Manager









Navigation tabs: Data Centers | Clusters | **Hosts** | Networks | Storage | Disks | Virtual Machines | Pools | Templates | Users

Actions: New | Edit | Remove | Activate | Maintenance | Select as SPM | Approve | Reinstall | **Upgrade** | Configure Local Storage | Power Management | Assign Tags | Refresh Capabilities



	Name	Comment	Hostname/IP	Cluster	Data Center	Status	Virtual Machines
	ovirt-node		10.35.7.30	cluster-35	dc-35	Maintenance	0
	venus-vdsb		venus-vdsb.usersys.r...	cluster-35	dc-35	Up	0

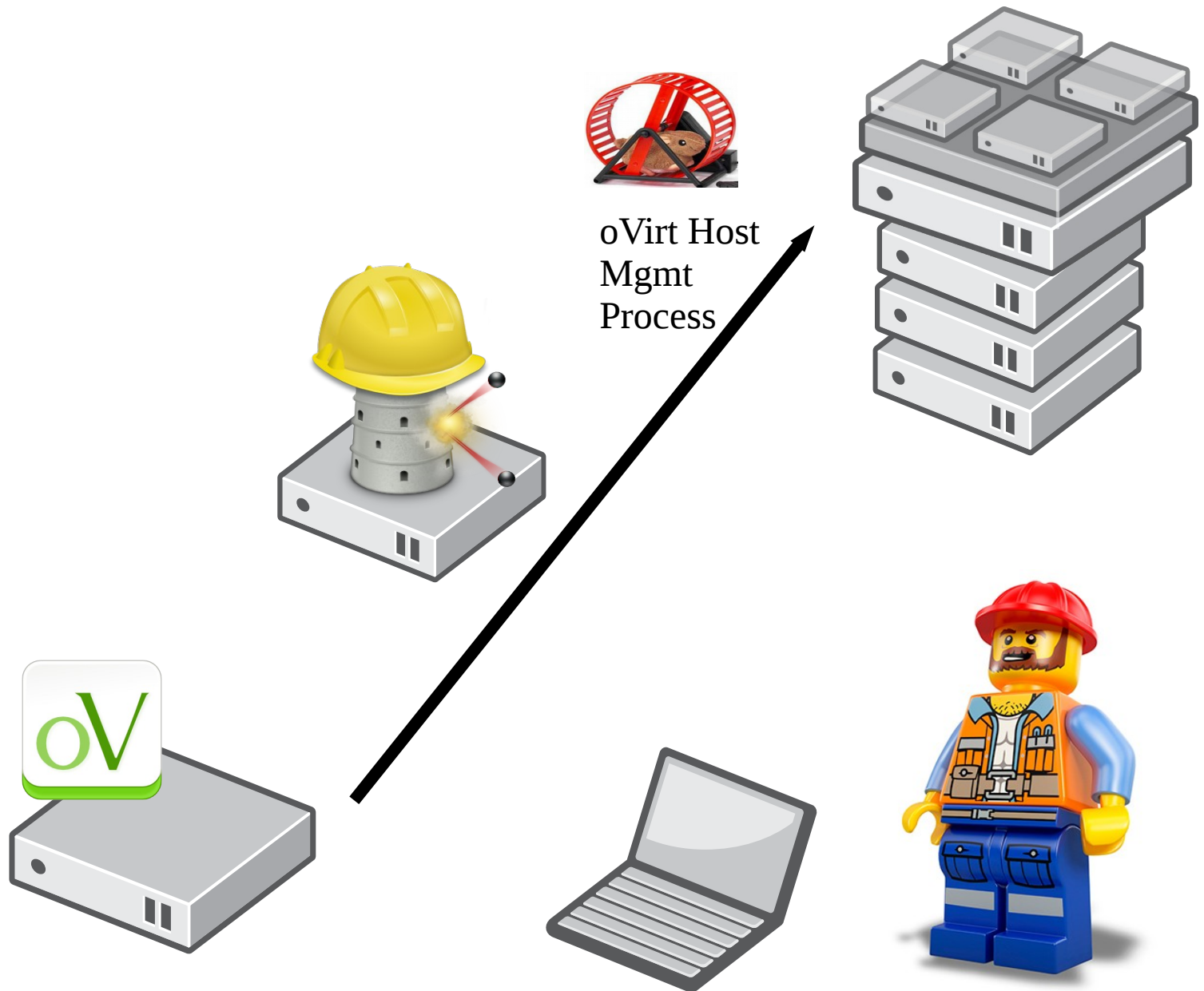
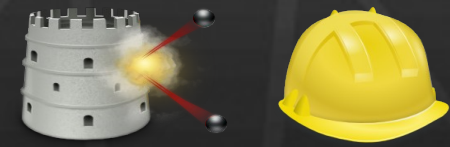
Sub-navigation tabs: General | Virtual Machines | Network Interfaces | Host Hooks | Permissions

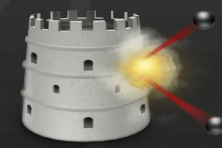
Info | Software | Hardware

SPM Priority:	Medium	iSCSI Initiator Name:	iqn.1994-05.com.redhat:885f	Max free Memory for scheduling:
Active VMs:	0	Kdump Status:	Disabled	Memory Page Sharing:
Logical CPU Cores:	4	Physical Memory:	3689 MB total, 480 MB used,	Automatic Large Pages:
Online Logical CPU Cores:	0,1,2,3	Swap Size:	15999 MB total, 0 MB used,	SELinux mode:
Boot Time:	2015-Apr-26, 18:11	Shared Memory:	0%	Live Snapshot Support:
Hosted Engine HA:	[N/A]			

Action Items

-  A new version is available.
-  Power Management is not configured for this Host. [Enable Power Management](#)

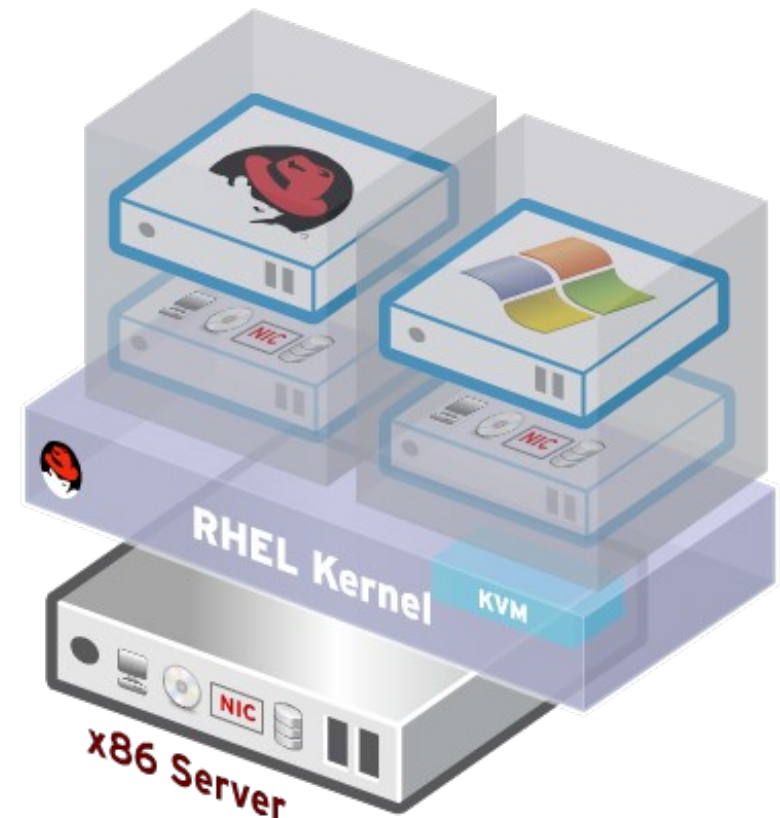


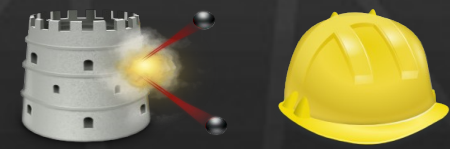


Host Management

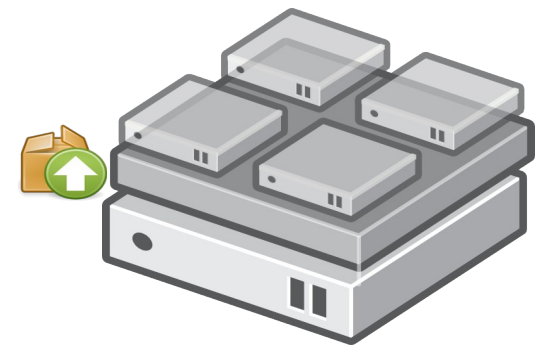
The process of upgrading content environment for suitable cluster (usually VDSM version upgrade)

- Direct SSH trust obtained.
- Allows to retrieve current installed packages information.
- Perform YUM\DNF operations for specific virst packages.





- # Provision New Host
- # Gather Errata Information
- # Direct Yum Upgrade With oVirt-Host-Mgmt Plugin





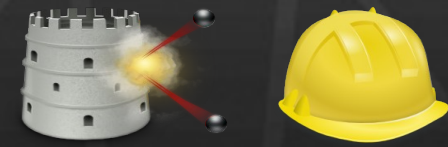
- Homepage
<http://ovirt.org>
- Overall Projects
<http://gerrit.ovirt.org>
- Mails lists
users@ovirt.org
devel@ovirt.org
- #ovirt on OFTC



- Homepage
<http://theforeman.org>
- Overall Projects
[Github.com/theforeman](https://github.com/theforeman)
- #theforeman on freenode



- Homepage
<http://katello.org>
- Overall Projects
[Github.com/Katello](https://github.com/Katello)
- #katello on freenode



Summary

- Katello, Foreman, oVirt
- Discover new hosts and utilizing them
- Manage content and updates

oVirt



The feature pages:

- <http://www.ovirt.org/Features/ForemanIntegration>
- <http://www.ovirt.org/Home/Features/KatelloIntegration>
- <http://www.ovirt.org/Home/Features/UpgradeManager>



Questions?



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THANK YOU !

Yaniv Bronhaim.

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