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redhat

RED HAT NETWORK SATELLITE POWER USER TIPS AND TRICKS

SYSTEM DEPLOYMENT

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Chief Architect, Red Hat
06.28.12

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- http://people.redhat.com/tcameron
- http://excogitat.us

Agenda

- About Red Hat Network Satellite & Fedora Spacewalk
- Assumptions
- Be Patient!
- Installation Tips
- Organizations
- Configuration File Management
  - Macros

Agenda

- System Groups
- Channel Cloning
- Locked Channels
- Internally Developed/Third Party Apps
- Activation Keys
- Kickstart Profiles
- Cobbler Tips and Tricks
- DHCP/PXE/tftp for kickstart

NOTE!

- The deck you are seeing today is **significantly** shortened. I've designed this deck to be a step-by-step reference with screen shots and descriptions of all of the things I'm going to describe today.
- The full deck is at http://people.redhat.com/tcameron

About Red Hat Network Satellite Server

- Red Hat Network Satellite Server is the best systems management platform for Red Hat technologies.
- Mature, capable, flexible, robust systems management platform with millions of servers under management in practically every vertical you can imagine.
- Includes a rich, web-based UI.

About Red Hat Network Satellite Server

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- Includes a rich, web-based UI. Even a Windows admin can use it!

Red Hat and the Red Hat Network Satellite Server

- As Fedora is the upstream, community project for Red Hat Enterprise Linux, Spacewalk is the upstream, community project for Red Hat Network Satellite Server.
  - http://spacewalk.redhat.com

Assumptions

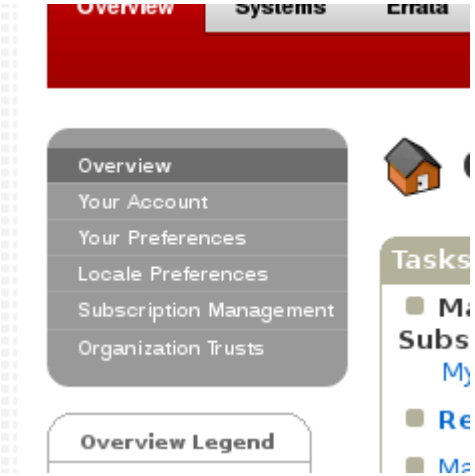
- You are already familiar with RHN Satellite/Fedora Spacewalk
  - This is not an introduction, we will be moving rather quickly!

Assumptions

- When I talk about the navigation bar, I am talking about the tabs at the top of the screen:

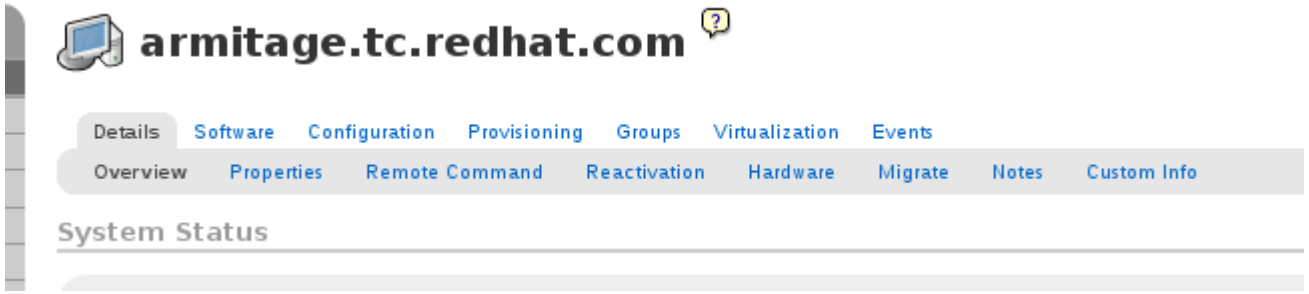
Assumptions

- When I talk about the left navigation bar, I mean the grey box at the left of the screen:



Assumptions

- When I talk about sub-tabs, I mean the tabs in the middle of the page, typically relating to a system, or channel or the like:



Be Patient!

Be Patient!

- I'm going to jump around quite a bit. All the different parts of Satellite I talk about will get wrapped up at the end of the presentation.
- When we get done today, you'll be able to take a system from bare metal to production in *minutes,* even if you have to install third-party or internally developed software, using Red Hat Network Satellite Server.

Installation Tips and Tricks

- Put in a request for your Satellite certificate from GSS before you want to start the installation! Sometimes it takes a while to get it to you, and you don't want to be sitting there waiting like an idiot.

Installation Tips and Tricks

- DNS needs to work both forward and reverse in your environment!

Installation Tips and Tricks

- Kickstart the machine you'll be installing Satellite on.
  - The installation guide says to install only @base but then instructs you to configure sendmail.
  - You don't need Postfix. It doesn't hurt to have it installed, but you don't need it.
  - For this presentation, I used a graphical tool. I needed the tool, xorg-X11-xauth (so I can ssh -X in) and fonts to do that.
  - You'll need pxelinux.0. Install syslinux.
  - I use NFS in my lab.

Installation Tips and Tricks

- I'm lazy. I install all of this at kickstart time.
- The main thing is, don't install anything web related. The Satellite installer will do all of that for you.

Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://172.31.100.1/molly.cfg

172.31.100.1/molly.cfg

Google

Most Visited Red Hat Customer Portal Documentation Red Hat Network Zimbra

```
install
text
reboot
url --url=http://172.31.100.1/rhel
lang en_US.UTF-8
keyboard us
network --onboot yes --device p4p1 --bootproto dhcp --noipv6
rootpw  --iscrypted $6$WO4ERK3ZynZmCtUu$6GvIyJUKoTSzNHzbms0TJHan1eKdwA0z5e4/20OnxnMbH.3caeX.biWMHvjZAfyQwzhpQ.PBF8lNkVGoScOqI1
firewall --disabled
authconfig --enableshadow --passalgo=sha512
selinux --enforcing
timezone --utc America/Chicago
bootloader --location=mbr --driveorder=sda,sdb --append=" crashkernel=auto"

clearpart --all --initlabel

part /boot --fstype=ext4 --size=200 --ondisk=sda
part swap --size=9100 --ondisk=sda
part / --fstype=ext4 --grow --size=200 --ondisk=sda
part /var/satellite --fstype=ext4 --grow --size=200 --ondisk=sdb

%packages
@base
sendmail
sendmail-cf
system-config-firewall
xorg-x11-xauth
@fonts
-postfix
@network-file-system-client
syslinux

%end
```

Installation Tips and Tricks

- On the system which will be the Satellite server, import the Red Hat gpg key before you start the installation.

root@molly:~

File Edit View Search Terminal Help

```
[root@molly ~]# rpm --import /etc/pki/rpm-gpg/RPM-GPG-KEY-redhat-release
```

Installation Tips and Tricks

- Register the machine you will be using as a Satellite server to Red Hat Network before you install Satellite.

root@molly:~

File Edit View Search Terminal Help

```
[root@molly ~]# rhnreg_ks --username tcameron@redhat.com --password 123abc
```

Installation Tips and Tricks

- Install the Satellite certificate on the machine's profile in RHN before you start the installation.

Red Hat Network – Systems – System Overview – Mozilla Firefox

File Edit View History Bookmarks Tools Help

Red Hat Network - Systems ... | access.redhat.com | Installa... | access.redhat.com | 2.4. Ad...

redhat.com https://rhn.redhat.com/rhn/systems/Overview.do

Most Visited Red Hat Customer Portal Documentation Red Hat Network Zimbra

redhat. RHN CLASSIC SUBSCRIPTION MANAGEMENT

tcameron@redhat.com (Account #739897) | Preferences | Help | Log Out

Overview Entitlements Systems Errata Channels Configuration Schedule Users Customer Portal

Systems Search

No systems selected [Manage | Clear]

- System Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart

System Legend

- OK
- Critical
- Warning
- Unknown
- Locked
- Kickstarting
- Pending Actions

System Overview

Systems (View System Groups)

Filter by System: Go

1 - 8 of 8 (0 selected)

	Updates	Errata	Packages	System	Base Channel	Entitlement
		28	96	filer.tc.redhat.com	Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Management, Provisioning
		20	24	hv1.tc.redhat.com	Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Management
		20	24	hv2.tc.redhat.com	Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Management
		20	24	hv3.tc.redhat.com	Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Management
		72	66	molly.tc.redhat.com	Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Management
		1	2	spamcatcher.tc.redhat.com	Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Management
		16	42	t500.jboss.org	Red Hat Enterprise Linux (v. 5 for 64-bit x86_64)	Management
		5	27	tct61.tc.redhat.com	Red Hat Enterprise Linux (v. 5 for 64-bit x86_64)	Management

Update List Select All Unselect All

1 - 8 of 8 (0 selected)

https://rhn.redhat.com/rhn/systems/details/Overview.do?sid=1022712530

Find: wester Previous Next Highlight all Match case

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Red Hat Network - Systems - Systems - Details - Satellite - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Red Hat Network - Systems ... | access.redhat.com | Installa... | access.redhat.com | 2.4. Ad...

redhat.com https://rhn.redhat.com/rhn/systems/details/Satellite.do?sid=1022712530

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Overview Entitlements Systems Errata Channels Configuration Schedule Users Customer Portal

Systems Search

No systems selected [Manage | Clear]

System Overview
Systems
All
Virtual Systems
Out of Date
Unentitled
Ungrouped
Inactive
Recently Registered
Satellite
Proxy
System Groups
System Set Manager
Advanced Search
Activation Keys
Stored Profiles
Custom System Info
Kickstart

molly.tc.redhat.com

delete system

Details Software Virtualization Groups Events

Overview Properties Proxy Satellite Hardware Notes

RHN Satellite

Status: Select your RHN Satellite Certificate file or paste the contents into the text area below.

License Certificate: Browse...

OR


```
<?xml version="1.0" encoding="UTF-8"?>
<rhn-cert version="0.1">
 <rhn-cert-field name="product">RHN-SATELLITE-001</rhn-cert-field>
 <rhn-cert-field name="owner">Red Hat Inc</rhn-cert-field>
 <rhn-cert-field name="issued">2012-02-03 10:37:12</rhn-cert-field>
 <rhn-cert-field name="expires">2021-12-31 00:00:00</rhn-cert-field>
 <rhn-cert-field name="slots">25500</rhn-cert-field>
 <rhn-cert-field name="monitoring-slots">25000</rhn-cert-field>
 <rhn-cert-field name="provisioning-slots">25500</rhn-cert-field>
 <rhn-cert-field name="virtualization_host">10512</rhn-cert-field>
 <rhn-cert-field name="virtualization_host_platform">10005</rhn-cert-field>
 ame="channel-families" quantity="1000" flex="0" family="rhev-x86_64-2"/>
 ame="channel-families" quantity="1000" flex="0" family="rhev-x86_64-b-2"/>
```


https://rhn.redhat.com/rhn/systems/details/Satellite.do?sid=1022712530

Find: wester Previous Next Highlight all Match case

Red Hat Network - Systems - Systems - Details - Satellite - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Connecting... | access.redhat.com | Installa... | access.redhat.com | 2.4. Ad...

redhat.com https://rhn.redhat.com/rhn/systems/details/Satellite.do?sid=1022712530

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Ungrouped
Inactive
Recently Registered
Satellite
Proxy
System Groups
System Set Manager
Advanced Search
Activation Keys
Stored Profiles
Custom System Info
Kickstart

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 <rhn-cert-field name="slots">25500</rhn-cert-field>
 <rhn-cert-field name="monitoring-slots">25000</rhn-cert-field>
 <rhn-cert-field name="provisioning-slots">25500</rhn-cert-field>
 <rhn-cert-field name="virtualization_host">10512</rhn-cert-field>
 <rhn-cert-field name="virtualization_host_platform">10005</rhn-cert-field>
 <rhn-cert-field name="channel-families" quantity="1000" flex="0" family="rhev-x86_64-2"/>
 <rhn-cert-field name="channel-families" quantity="1000" flex="0" family="rhev-x86_64-h-2"/>
 <rhn-cert-field name="channel-families" quantity="10010" flex="0" family="rhel-cloud-unsupported-
images"/>
 <rhn-cert-field name="channel-families" quantity="1005" flex="0" family="rh-ccm-cms-as21"/>
```


Update Certificate

Copyright © 2011 Red Hat, Inc.
Privacy Policy : Terms of Use : Patent promise : Company : Contact
Red Hat Network release 6.0.2

Waiting for rhn.redhat.com...

Find: wester Previous Next Highlight all Match case

Red Hat Network - Systems - Systems - Details - Satellite - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Red Hat Network - Systems ... | access.redhat.com | Installa... | access.redhat.com | 2.4. Ad...

redhat.com https://rhn.redhat.com/rhn/systems/details/Satellite.do?sid=1022712530

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redhat. RHN CLASSIC SUBSCRIPTION MANAGEMENT

tcameron@redhat.com (Account #739897) | Preferences | Help | Log Out

Overview Entitlements Systems Errata Channels Configuration Schedule Users Customer Portal

Systems Search

No systems selected [Manage | Clear]

- System Overview
- Systems
  - All
  - Virtual Systems
  - Out of Date
  - Unentitled
  - Ungrouped
  - Inactive
  - Recently Registered
  - Satellite
  - Proxy
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart

The server **molly.tc.redhat.com** has been activated as an RHN Satellite.

molly.tc.redhat.com

delete system

Details | Software | Virtualization | Groups | Events

Overview | Properties | Satellite | Hardware | Notes

RHN Satellite

Status: This system is a registered RHN Satellite.

License Certificate:


```
<?xml version="1.0" encoding="UTF-8"?>
<rhn-cert version="0.1">
  <rhn-cert-field name="product">RHN-SATELLITE-001</rhn-cert-field>
  <rhn-cert-field name="owner">Red Hat Inc</rhn-cert-field>
  <rhn-cert-field name="issued">2012-02-03 10:37:12</rhn-cert-field>
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  <rhn-cert-field name="slots">25500</rhn-cert-field>
  <rhn-cert-field name="monitoring-slots">25000</rhn-cert-field>
  <rhn-cert-field name="provisioning-slots">25500</rhn-cert-field>
  <rhn-cert-field name="virtualization_host">10512</rhn-cert-field>
  <rhn-cert-field name="virtualization_host_platform">10005</rhn-cert-field>
  <rhn-cert-field name="channel-families" quantity="1000" flex="0" family="rhev-x86_64-2"/>
  <rhn-cert-field name="channel-families" quantity="1000" flex="0" family="rhev-x86_64-h-2"/>
  <rhn-cert-field name="channel-families" quantity="10010" flex="0" family="rhel-cloud-unsupported-images"/>
  <rhn-cert-field name="channel-families" quantity="1005" flex="0" family="rh-ccm-cms-as21"/>
```


Find: wester Previous Next Highlight all Match case

Installation Tips and Tricks

- Put a copy on the local filesystem of the Satellite server as well.

root@molly:~

File Edit View Search Terminal Help

```
[root@molly ~]# head satcert.cert
<?xml version="1.0" encoding="UTF-8"?>
<rhn-cert version="0.1">
  <rhn-cert-field name="product">RHN-SATELLITE-001</rhn-cert-field>
  <rhn-cert-field name="owner">Red Hat Inc</rhn-cert-field>
  <rhn-cert-field name="issued">2012-02-03 10:37:12</rhn-cert-field>
  <rhn-cert-field name="expires">2021-12-31 00:00:00</rhn-cert-field>
  <rhn-cert-field name="slots">25500</rhn-cert-field>
  <rhn-cert-field name="monitoring-slots">25000</rhn-cert-field>
  <rhn-cert-field name="provisioning-slots">25500</rhn-cert-field>
  <rhn-cert-field name="virtualization_host">10512</rhn-cert-field>
[root@molly ~]#
```

root@molly:~

File Edit View Search Terminal Help

```
[root@molly ~]# yum repolist
Loaded plugins: product-id, rhnplugin, security, subscription-manager
Updating certificate-based repositories.
redhat-rhn-satellite-5.4-server-x86_64-6                | 1.6 kB     00:00
redhat-rhn-satellite-5.4-server-x86_64-6/primary        | 158 kB     00:00
redhat-rhn-satellite-5.4-server-x86_64-6                              435/435
repo id                                  repo name                      status
redhat-rhn-satellite-5.4-server-x86_64-6 Red Hat Network Satellite (v5.4    435
rhel-x86_64-server-6                     Red Hat Enterprise Linux Server  7,243
repolist: 7,678
[root@molly ~]#
```

Installation Tips and Tricks

- Make sure you either shutdown the firewall, or make sure it's set up correctly.

access.redhat.com | 2.4. Additional Requirements - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Red Hat Network - Systems ... | access.redhat.com | Installa... | access.redhat.com | 2.4. Ad...

https://access.redhat.com/knowledge/docs/en-US/Red_Hat_Network_Satellite/5.4/html/Installation_Guide/sect-Installation_Gu

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- Full Access

  Client systems need full network access to the RHN Satellite solution's services and ports.

- Firewall Rules

  RHN strongly recommends firewalling the RHN Satellite solution from the Internet. However, various TCP ports must be opened on the Satellite, depending on your implementation of RHN Satellite. Some UDP ports will also be required for DHCP and TFTP services to function correctly.

Table 2.4. Ports to open on the Satellite

Port	Direction	Reason
67	Inbound	Open this port to configure the Satellite system as a DHCP server for systems requesting IP addresses.
69	Inbound	Open this port to configure Satellite as a PXE server and allow installation and re-installation of PXE-boot enabled systems.
80	Outbound	Satellite uses this port to reach RHN. **Note** Note that Red Hat does not provide static IP addresses for RHN as the IP is subject to change. If you want to disable location aware content, please review the Red Hat KnowledgeBase article at the following URL: http://kbase.redhat.com/faq/docs/DOC-16881
80	Inbound	WebUI and client requests come in via either http or https
443	Inbound	WebUI and client requests come in via either http or https
443	Outbound	RHN Satellite uses this port to reach RHN (unless running in a disconnected mode for Satellite)
4545	Inbound/Outbound	RHN Satellite Monitoring makes connections to **rhnmd** running on client systems, if Monitoring is enabled and probes are configured for registered systems.
5222	Inbound	If you plan to push actions to client systems
5269	Inbound/Outbound	If you push actions to or via an RHN Proxy Server

RHN's list of hosts are as follows:rhn.redhat.com, xmlrpc.rhn.redhat.com, satellite.rhn.redhat.com, content-xmlrpc.rhn.redhat.com, content-web.rhn.redhat.com, and content-satellite.rhn.redhat.com

Find: wester | Previous | Next | Highlight all | Match case

Installation Tips and Tricks

- Make sure sendmail is set up correctly.

access.redhat.com | 4.5. Sendmail Configuration - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Red Hat Network - Systems ... | access.redhat.com | Installa... | access.redhat.com | 4.5. Sen... | http://172.31.100.1/molly.cfg | New Tab

https://access.redhat.com/knowledge/docs/en-US/Red_Hat_Network_Satellite/5.4/html/Installation_Guide/sect-Installation_Gu

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4.5. Sendmail Configuration

If your RHN Satellite will serve Monitoring-entitled systems and you wish to acknowledge via email the alert notifications you receive, you must configure **sendmail** to properly handle incoming mail. This is required by the email redirect feature, which allows you to stop notifying users about a Monitoring-related event with a single reply.

Important

Some more restrictive corporate mail configurations will not allow mail to be sent from an address that is not recognized as valid. Therefore, it may be necessary to configure **rogerthat01@{mail domain}** as a valid email address in your corporate environment. Check with your mail systems administrator.

To configure **sendmail** correctly, run the following commands as root. First, create a symbolic link allowing sendmail to run the notification enqueuer with the following command:

```
ln -s /usr/bin/ack_enqueuer.pl /etc/smrsh/.
```

Next, edit the **/etc/aliases** file on the mail server and add the following line:

```
rogerthat01: | /etc/smrsh/ack_enqueuer.pl
```

Next, edit the **/etc/mail/sendmail.mc** file and change:

```
"DAEMON_OPTIONS(`Port=smtp,Addr=127.0.0.1, Name=MTA')dnl"
```

to:

```
"DAEMON_OPTIONS(`Port=smtp, Name=MTA')dnl"
```

Then, have the alias processed like so:

```
newaliases
```

Finally, update the **sendmail-cf** package:

```
yum update sendmail-cf
```

Note, disconnected installs must obtain this package from the ISO.

Restart sendmail:

```
service sendmail restart
```

Installation Tips and Tricks

- Use an answers.txt file. It reduces your chances of errors, and it allows you to reproduce the Satellite exactly.

Installation Tips and Tricks

- Run the installer in disconnected mode if you don't have a good Internet connection.

Installation Tips and Tricks

- You can also pass command line arguments to install.pl. The only one I've found I need is to enable tftp – everything else can be done via the answer file.

root@armitage:~

File Edit View Search Terminal Help

```
[root@molly ~]# /mnt/install.pl --enable-tftp=yes --answer-file=/root/answers.tx
t
* Starting the Red Hat Network Satellite installer.
* Loading answer file: /root/answers.txt.
* Performing pre-install checks.
* Pre-install checks complete.  Beginning installation.
* RHN Registration.
** Registration: System is already registered with RHN.  Not re-registering.
* Checking for uninstalled prerequisites.
There are some packages from Red Hat Enterprise Linux that are not part
of the @base group that Satellite will require to be installed on this
system. The installer will try resolve the dependencies automatically.
* Applying updates.
* Installing RHN packages.
~/0\~~~~^~
```

```
root@armitage:~
File  Edit  View  Search  Terminal  Help
** Verifying certificate locally.
** Activating RHN Satellite.
* Enabling Monitoring.
* Configuring apache SSL virtual host.
** /etc/httpd/conf.d/ssl.conf has been backed up to ssl.conf-swsave
* Configuring tomcat.
** /etc/tomcat6/tomcat6.conf has been backed up to tomcat6.conf-swsave
** /etc/tomcat6/server.xml has been backed up to server.xml-swsave
** /etc/tomcat6/web.xml has been backed up to web.xml-swsave
* Configuring jabberd.
* Creating SSL certificates.
** SSL: Generating CA certificate.
** SSL: Deploying CA certificate.
** SSL: Generating server certificate.
** SSL: Storing SSL certificates.
* Deploying configuration files.
* Update configuration in database.
* Setting up Cobbler..
cobblerd does not appear to be running/accessible
* Restarting services.
Installation complete.
Visit https://molly.tc.redhat.com to create the RHN Satellite administrator acco
unt.
[root@molly ~]#
```

Untrusted Connection - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Untrusted Connection

https://molly.tc.redhat.com

Google

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This Connection is Untrusted

You have asked Firefox to connect securely to **molly.tc.redhat.com**, but we can't confirm that your connection is secure.

Normally, when you try to connect securely, sites will present trusted identification to prove that you are going to the right place. However, this site's identity can't be verified.

What Should I Do?

If you usually connect to this site without problems, this error could mean that someone is trying to impersonate the site, and you shouldn't continue.

Get me out of here!

Technical Details

I Understand the Risks

Untrusted Connection - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Untrusted Connection

https://molly.tc.redhat.com

Most Visited Red Hat Customer Portal Docu

Google

You are about to override how Firefox identifies this site.

Legitimate banks, stores, and other public sites will not ask you to do this.

Server

Location: https://molly.tc.redhat.com/ Get Certificate

Certificate Status

This site attempts to identify itself with invalid information. View...

Unknown Identity

Certificate is not trusted, because it hasn't been verified by a recognized authority.

☑ Permanently store this exception

Confirm Security Exception Cancel

This C

You have rm that your connectic

Normally prove that you are going

What

If you usu e is trying to imperson

Get me out of here!

Technical Details

I Understand the Risks

If you understand what's going on, you can tell Firefox to start trusting this site's identification. **Even if you trust the site, this error could mean that someone is tampering with your connection.**

Don't add an exception unless you know there's a good reason why this site doesn't use trusted identification.

Add Exception...

RHN Satellite – Install – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Install

redhat.com https://molly.tc.redhat.com/rhn/newlogin/CreateFirstUser.do

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RED HAT NETWORK SATELLITE

Install Sign In About

Create RHN Satellite Administrator

Create the first RHN Satellite Administrator account. This account will have access to all resources on this RHN Satellite. This account will also be able to create new users and delegate permissions to them.

Login:

Desired Login*: satadmin

Desired Password *: ••••••••••••

Confirm Password *: ••••••••••••

Account Information:

First, Last Name*: Mr. Satellite Admin

Email*: thomas@redhat.com

* - Required Field

Create Login

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RHN Satellite release 5.4.1

RHN Satellite – Overview – Overview – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Overview - Ov...

redhat.com https://molly.tc.redhat.com/rhn/YourRhn.do

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RED HAT NETWORK SATELLITE

Systems Search

Overview Systems Errata Channels Configuration Schedule Users Admin Help

No systems selected Manage Clear

- Overview
- Your Account
- Your Preferences
- Locale Preferences
- Subscription Management
- Organization Trusts

Overview Legend

- OK
- Critical
- Warning
- Unknown
- Locked
- Kickstarting
- Pending Actions
- Failed Actions
- Completed Actions
- Security
- Bug Fix

You have created your first user for the RHN Satellite Service. Additional configuration should be finalized by clicking here

Overview

Tasks

- **Manage Entitlements and Subscriptions:**
  My Organization | RHN Satellite-Wide
- **Register** Systems
- Manage **Activation Keys**
- Manage **Kickstarts**
- Manage **Configuration Files**
- Manage **RHN Satellite Organizations**
- **Configure** RHN Satellite

Inactive Systems

No inactive systems.

All of your systems are actively checking into RHN Satellite at this time. You can view a list of all of your systems at **Systems > All**.

Most Critical Systems

System Name	All Updates	Security Errata	Bugfix Errata	Enhancement Errata
No critical systems.				
None of your systems are in a critical state.				

0 - **0** of **0** most critical systems displayed

View All Critical Systems

https://molly.tc.redhat.com/rhn/admin/config/GeneralConfig.do

RHN Satellite – Admin – RHN Satellite Configuration – General – General – Mozilla Firefox

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RHN Satellite - Admin - RHN S...

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- Organizations
- Subscriptions
- Users
- RHN Satellite Configuration
  - General
  - Certificate
  - Bootstrap Script
  - Organizations
  - Restart
  - Cobbler
- Task Schedules
- Task Engine Status
- Show Tomcat Logs

RHN Satellite Configuration - General Configuration

Configure your RHN Satellite below. The HTTP proxy settings are for the RHN Satellite server's communication with the parent RHN Satellite server, if any. The http proxy should be of the form: hostname:port, but a default port of 8080 will be used if none is provided. HTTP proxy settings for clients' systems to connect to this RHN Satellite can be different, and will be configured later. If you enable the Monitoring Backend, you should also enable Monitoring Scout, or configure the Monitoring Scout as a separate server. If you enable the Monitoring Scout, you must also enable the Monitoring Backend.

General | Certificate | Bootstrap Script | Organizations | Restart | Cobbler

RHN Satellite Configuration

Administrator Email Address*	thomas@redhat.com
RHN Satellite Hostname*	molly.tc.redhat.com
HTTP proxy	
HTTP proxy username	satadmin
HTTP proxy password	••••••••••••
Confirm HTTP proxy password	••••••••••••
RPM repository mount point	/var/satellite
Default To SSL	☑
Enable Solaris Support	☐
Disconnected RHN Satellite	☐
Enable Monitoring	☑

RHN Satellite – Admin – RHN Satellite Configuration – General – General – Mozilla Firefox

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RHN Satellite - Admin - RHN S...

redhat.com https://molly.tc.redhat.com/rhn/admin/config/GeneralConfig.do

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- Organizations
- Restart
- Cobbler
- Task Schedules
- Task Engine Status
- Show Tomcat Logs

RHN Satellite Configuration

Administrator Email Address*	thomas@redhat.com
RHN Satellite Hostname*	molly.tc.redhat.com
HTTP proxy	
HTTP proxy username	satadmin
HTTP proxy password	••••••••••••
Confirm HTTP proxy password	••••••••••••
RPM repository mount point	/var/satellite
Default To SSL	☑
Enable Solaris Support	☐
Disconnected RHN Satellite	☐
Enable Monitoring	☑

Update

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RHN Satellite release 5.4.1

Installation Tips and Tricks

- You'll be prompted to restart Satellite at this point.
- Before you restart after installation, `restorecon /etc /var /opt /rhnsat`
- You might even run `yum update` before you restart.

RHN Satellite – Admin – RHN Satellite Configuration – General – General – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Admin - RHN S...

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RED HAT NETWORK SATELLITE

Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Admin Help

No systems selected Manage Clear

- Organizations
- Subscriptions
- Users
- RHN Satellite Configuration
  - General
  - Monitoring
  - Certificate
  - Bootstrap Script
  - Organizations
  - Restart
  - Cobbler
- Task Schedules
- Task Engine Status
- Show Tomcat Logs

The RHN Satellite must be restarted to reflect these changes.

RHN Satellite Configuration - General Configuration

Configure your RHN Satellite below. The HTTP proxy settings are for the RHN Satellite server's communication with the parent RHN Satellite server, if any. The http proxy should be of the form: hostname:port, but a default port of 8080 will be used if none is provided. HTTP proxy settings for clients' systems to connect to this RHN Satellite can be different, and will be configured later. If you enable the Monitoring Backend, you should also enable Monitoring Scout, or configure the Monitoring Scout as a separate server. If you enable the Monitoring Scout, you must also enable the Monitoring Backend.

General Monitoring Certificate Bootstrap Script Organizations Restart Cobbler

RHN Satellite Configuration

Administrator Email Address*	thomas@redhat.com
RHN Satellite Hostname*	molly.tc.redhat.com
HTTP proxy	
HTTP proxy username	satadmin
HTTP proxy password	••••••••••••
Confirm HTTP proxy password	••••••••••••
mount point	/var/satellite

https://molly.tc.redhat.com/rhn/admin/config/Restart.do?

SUMMIT JBoss WORLD
PRESENTED BY RED HAT

Installation Tips and Tricks

- After updating, upgrade the schema if needed.
- Backup your database first, in case anything goes wrong!
  - Note the Satellite needs to be shut down to cold back up the database!

New satellite-schema upgrade notification from molly.tc.redhat.com - Mozilla Thunderbird

File Edit View Go Message Tools Help

Get Mail Write Address Book Tag

From root <root@molly.tc.redhat.com>

Reply Forward Archive Junk Delete

Subject **New satellite-schema upgrade notification from molly.tc.redhat.com** 01:14 PM

To Me

Other Actions

```
This is a notice to let you know that there is a satellite-schema
upgrade available for molly.tc.redhat.com.

Your current satellite-schema version:

    5.4.0.13-1.el6sat

Available satellite-schema upgrade:

    5.4.0.19-1.el6sat

We recommend to upgrade your satellite-schema at your earliest
convenience to receive latest schema fixes.

Please consult the appropriate errata solution text for detailed
instructions on how to upgrade your satellite-schema.

-------------------------------------------------------------------
This mail is being generated automatically by a daily cron job:

    /etc/cron.daily/schema-upgrade-notif
```

Installation Tips and Tricks

- Before you start populating the database, extend the DATA_TBS table. It's only about 4GB by default. I generally extend it out to 8GB.

```
root@molly:~
File  Edit  View  Search  Terminal  Help
[root@molly ~]# su - oracle
-bash-4.1$ db-control report
Tablespace                    Size    Used   Avail   Use%
DATA_TBS                      3.9G   80.3M    3.8G     2%
SYSAUX                        500M   54.3M  445.6M    11%
SYSTEM                        400M  240.5M  159.5M    60%
TEMP_TBS                     1000M      0B   1000M     0%
UNDO_TBS                     1000M  148.1M  851.8M    15%
USERS                         128M     64K  127.9M     0%
-bash-4.1$ for i in $(seq 1 8); do db-control extend DATA_TBS; done
Extending DATA_TBS... done.
Extending DATA_TBS... done.
Extending DATA_TBS... done.
Extending DATA_TBS... done.
Extending DATA_TBS... done.
Extending DATA_TBS... done.
Extending DATA_TBS... done.
Extending DATA_TBS... done.
-bash-4.1$
```

root@molly:~

File Edit View Search Terminal Help

```
-bash-4.1$ db-control report
Tablespace                    Size    Used   Avail   Use%
DATA_TBS                      7.8G   80.8M    7.7G     1%
SYSAUX                        500M   54.3M  445.6M    11%
SYSTEM                        400M  240.5M  159.5M    60%
TEMP_TBS                     1000M      0B   1000M     0%
UNDO_TBS                     1000M  148.1M  851.8M    15%
USERS                         128M     64K  127.9M     0%
-bash-4.1$
```

Installation Tips and Tricks

- Run `cobbler check` and then make any changes it says you need to.

Installation Tips and Tricks

- NOTE! It recommends running "`cobbler get-loaders`." I recommend against this, as it fetches files off of a non-Red Hat site. They work just fine, but security auditors may take issue with this. Instead, just copy the `pxelinux.0` file from `/usr/share/syslinux/` to `/var/lib/tftpboot`.

root@armitage:~

File Edit View Search Terminal Help

```
[root@molly ~]# cobbler check
The following are potential configuration items that you may want to fix:

1 : some network boot-loaders are missing from /var/lib/cobbler/loaders, you may
 run 'cobbler get-loaders' to download them, or, if you only want to handle x86/
x86_64 netbooting, you may ensure that you have installed a *recent* version of
the syslinux package installed and can ignore this message entirely.  Files in t
his directory, should you want to support all architectures, should include pxel
inux.0, menu.c32, elilo.efi, and yaboot. The 'cobbler get-loaders' command is th
e easiest way to resolve these requirements.
2 : change 'disable' to 'no' in /etc/xinetd.d/rsync
3 : debmirror package is not installed, it will be required to manage debian dep
loyments and repositories
4 : The default password used by the sample templates for newly installed machin
es (default_password_crypted in /etc/cobbler/settings) is still set to 'cobbler'
 and should be changed, try: "openssl passwd -1 -salt 'random-phrase-here' 'your
-password-here'" to generate new one
5 : fencing tools were not found, and are required to use the (optional) power m
anagement features. install cman or fence-agents to use them

Restart cobblerd and then run 'cobbler sync' to apply changes.
[root@molly ~]#
```

root@armitage:~

File Edit View Search Terminal Help

```
[root@molly ~]# ls /var/lib/tftpboot/
[root@molly ~]# cp -v /usr/share/syslinux/pxelinux.0 /var/lib/tftpboot/
`/usr/share/syslinux/pxelinux.0' -> `/var/lib/tftpboot/pxelinux.0'
[root@molly ~]# ls /var/lib/tftpboot/
pxelinux.0
[root@molly ~]#
```

Installation Tips and Tricks

- Run cobbler sync afterwards to update cobbler's configuration.

Be Patient! We're jumping to Organizations!

Organizations

- RHN Satellite has the ability to define multiple organizations.
  - Divisions
  - Internal IT vs. outsource management
  - Other scenarios

Organizations

- We recommend that you define an organization right out of the box, even if you're completely, positively, 100% certain that you will never, ever need multiple organizations.

Organizations

- Because you're wrong.

Organizations

- Because you're wrong.
- And it sucks to retrofit organizations into your Satellite server.

RHN Satellite – Admin – Organizations – Mozilla Firefox

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redhat.com https://molly.tc.redhat.com/rhn/admin/multiorg/Organizations.do

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RED HAT NETWORK SATELLITE

Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Admin Help

No systems selected Manage Clear

- Organizations
- Subscriptions
- Users
- RHN Satellite Configuration
- Task Schedules
- Task Engine Status
- Show Tomcat Logs

Organizations

create new organization

Filter by Organization: Go

1 - 1 of 1

Organization	Systems	Users	Trusts
Red Hat Inc *	0	1	0

1 - 1 of 1

***Tip:** This organization is your RHN Satellite's default organization. Entitlements for this organization are linked to your RHN Satellite certificate file, so they are not modifiable. If you remove entitlements from a non-default organization above, those entitlements will be added back to the default organization, and if you add entitlements from a non-default organization they will be deducted from the default organization.

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https://molly.tc.redhat.com/rhn/admin/multiorg/OrgCreate.do

RHN Satellite – Admin – Organizations – Mozilla Firefox

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Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Admin Help

NO SYSTEMS SELECTED MANAGE CLEAR

- Organizations
- Subscriptions
- Users
- RHN Satellite Configuration
- Task Schedules
- Task Engine Status
- Show Tomcat Logs

Create New Organization

Organization Details

Organization Name*: Acme Widget IT

Tip: Between 3 and 128 characters

Create Initial Organization Administrator

Your **RHN Satellite Administrator** role will not allow you to login into or modify this new organization, and your RHN Satellite login cannot be a member of more than one organization. Consequently, you will need to create a new login for the initial **Organization Administrator** for this organization:

Desired Login*: acmeadmin

Tip: Between 5 and 64 characters
" **Examples:** 'sales-admin', 'admin_prodops@example.com', 'sales.admin'

Desired Password *: ••••••••••

Confirm Password *: ••••••••••

Pluggable Authentication If you would like to set up your satellite to authenticate against LDAP, kerberos, and other network-based authentication systems, please visit the reference guide for instructions on how to set

RHN Satellite – Admin – Organizations – Mozilla Firefox

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RHN Satellite - Admin - Organi...

redhat.com https://molly.tc.redhat.com/rhn/admin/multiorg/OrgCreate.do

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Your **RHN Satellite Administrator** role will not allow you to login into or modify this new organization, and your RHN Satellite login cannot be a member of more than one organization. Consequently, you will need to create a new login for the initial **Organization Administrator** for this organization:

Desired Login*:	acmeadmin **Tip:** Between 5 and 64 characters " **Examples:** 'sales-admin', 'admin_prodops@example.com', 'sales.admin'
Desired Password *:	••••••••••••
Confirm Password *:	••••••••••••
Pluggable Authentication Modules (PAM):	If you would like to set up your satellite to authenticate against LDAP, kerberos, and other network-based authentication systems, please visit the reference guide for instructions on how to set up PAM.
Email*:	thomas@redhat.com
First Name*:	Mr. Satellite
Last Name*:	Admin

* - Required Field

Create Organization

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RHN Satellite release 5.4.1

Organizations

- Once created, you need to assign system entitlements for:
  - Management (Needed to register with Satellite)
  - Monitoring (Needed for Monitoring)
  - Provisioning (Needed for bare metal installation, config file management, etc.)
  - Virtualization (Needed for any machine doing virtualization which is not unlimited)
  - Virtualization Platform (Needed for any machine with unlimited virtualization)

RHN Satellite – Admin – Organizations – Subscriptions – System Entitlements – Mozilla Firefox

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RHN Satellite - Admin - Organi...

redhat.com https://molly.tc.redhat.com/rhn/admin/multiorg/OrgSystemSubscriptions.do?oid=3

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Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Admin Help

NO SYSTEMS SELECTED MANAGE CLEAR

- Organizations
- Subscriptions
- Users
- RHN Satellite Configuration
- Task Schedules
- Task Engine Status
- Show Tomcat Logs

Organization Acme Widget IT created successfully

Acme Widget IT

delete organization

Details Users Subscriptions Trusts Configuration

System Entitlements Software Channel Entitlements

System Entitlement Counts

Below you modify the total number of software channel entitlements available to the **Acme Widget IT** organization on a per-channel basis. If you'd like to modify the number of entitlements available to a particular channel note that you are limited by the range indicated next to the field.

Entitlement Name	Total	Usage	Proposed Total
Management (Base) Required for all systems registered to the RHN Satellite.	0	0	100 Possible Values: **0** to **25500**.
Monitoring (Add-On) Enables the tracking of monitoring data for a system.	0	0	100 Possible Values: **0** to **25000**.
Provisioning (Add-On) Allows various advanced functionality such as kickstart and configuration file provisioning.	0	0	100 Possible Values: **0** to **25500**.
Virtualization (Add-On) Applied to a host system, enables management for up to 4 guests.	0	0	100 Possible Values: **0** to **10512**.

RHN Satellite – Admin – Organizations – Subscriptions – System Entitlements – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Admin - Organi...

redhat.com https://molly.tc.redhat.com/rhn/admin/multiorg/OrgSystemSubscriptions.do?oid=3

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Configuration
Task Schedules
Task Engine Status
Show Tomcat Logs

Details Users Subscriptions Trusts Configuration

System Entitlements Software Channel Entitlements

System Entitlement Counts

Below you modify the total number of software channel entitlements available to the **Acme Widget IT** organization on a per-channel basis. If you'd like to modify the number of entitlements available to a particular channel note that you are limited by the range indicated next to the field.

Entitlement Name	Total	Usage	Proposed Total
Management (Base) Required for all systems registered to the RHN Satellite.	0	0	100 Possible Values: **0** to **25500**.
Monitoring (Add-On) Enables the tracking of monitoring data for a system.	0	0	100 Possible Values: **0** to **25000**.
Provisioning (Add-On) Allows various advanced functionality such as kickstart and configuration file provisioning.	0	0	100 Possible Values: **0** to **25500**.
Virtualization (Add-On) Applied to a host system, enables management for up to 4 guests.	0	0	100 Possible Values: **0** to **10512**.
Virtualization Platform (Add-On) Applied to a host system, enables management for unlimited guests.	0	0	100 Possible Values: **0** to **10005**.

Update Organization

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Organizations

- Now you need to allocate software channel entitlements:
  - Base OS
  - Child Channels
  - Flex Guest Entitlements
- There are potentially hundreds or thousands of these channels, depending on your subscriptions!

RHN Satellite – Admin – Organizations – Subscriptions – Software Channel Entitlements – Mozilla Firefox

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Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Admin Help

NO SYSTEMS SELECTED MANAGE CLEAR

- Organizations
- Subscriptions
- Users
- RHN Satellite Configuration
- Task Schedules
- Task Engine Status
- Show Tomcat Logs

Acme Widget IT

delete organization

Details Users Subscriptions Trusts Configuration

System Entitlements Software Channel Entitlements

Software Channel Entitlement Counts

Below you modify the total number of software channel entitlements available to the **Acme Widget IT** organization on a per-channel basis. If you'd like to modify the number of entitlements available to a particular channel note that you are limited by the range indicated next to the field.

0 1 2 3 4 5 6 7 8 9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Filter by Channel Entitlement: Go Display 25 items per page 1 - 25 of 506

Channel Entitlement	Regular Usage (Used/Allotted)*	Regular Proposed Total	Flex Usage (Used/Allotted)*	Flex Proposed Total
Alfresco Enterprise 2.0 (for RHEL Server v.5 x86)	None Allotted	0 Possible Values: **0** to **5000**.	None Allotted	0 Possible Values: **0** to **100000**.
Amanda Enterprise Backup Server 2.6 (for RHEL Server v.5 x86)	None Allotted	0 Possible Values: **0** to **5000**.	None Allotted	0 Possible Values: **0** to **100000**.
BEA WebLogic JRockit 7.0	None Allotted	0 Possible Values: **0** to **500**.	None Allotted	No Entitlements Available

https://molly.tc.redhat.com/rhn/admin/multiorg/OrgSoftwareSubscriptions.do?oid=3

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RHEL AS (v. 4 for x86) SDK	None Allotted	0 Possible Values: **0** to **10517**.	None Allotted	0 Possible Values: **0** to **100000**.
RHEL Beta Debuginfo (v. 5 for 64-bit IBM System z)	None Allotted	0 Possible Values: **0** to **10002**.	None Allotted	0 Possible Values: **0** to **100000**.
RHEL Client Desktop (v. 5 for 32-bit x86) Beta	None Allotted	0 Possible Values: **0** to **1005**.	None Allotted	No Entitlements Available
RHEL Cloud Unsupported	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
RHEL Cloud Unsupported Images	None Allotted	0 Possible Values: **0** to **10010**.	None Allotted	No Entitlements Available
RHEL Cloud Unsupported Supplementary	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
RHEL Cluster-Storage	None Allotted	100 Possible Values: **0** to **10005**.	None Allotted	10000 Possible Values: **0** to **100000**.
RHEL Cluster-Storage Beta Debuginfo (v. 5)	None Allotted	0 Possible Values: **0** to **10005**.	None Allotted	0 Possible Values: **0** to **100000**.
RHEL Cluster-Storage Debuginfo (v. 5)	None Allotted	0 Possible Values: **0** to **10005**.	None Allotted	0 Possible Values: **0** to **100000**.
RHEL Cluster-Storage EUS	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
RHEL Cluster-Storage EUS (64-bit IBM POWER)	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
RHEL Cluster-Storage EUS (64-bit Itanium)	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
RHEL Cluster-Storage Long Life (v. 5.3.ll for 32-bit x86)	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
RHEL Cluster-Storage Long Life (v. 5.3.ll for 64-bit Itanium)	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.

RHN Satellite – Admin – Organizations – Subscriptions – Software Channel Entitlements – Mozilla Firefox

File Edit View History Bookmarks Tools Help

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		Possible Values: 0 to 10005.		Possible Values: 0 to 100000.
RHEL Cluster-Storage Beta Debuginfo (v. 5)	None Allotted	0 Possible Values: 0 to 10005.	None Allotted	0 Possible Values: 0 to 100000.
RHEL Cluster-Storage Debuginfo (v. 5)	None Allotted	0 Possible Values: 0 to 10005.	None Allotted	0 Possible Values: 0 to 100000.
RHEL Cluster-Storage EUS	None Allotted	0 Possible Values: 0 to 10000.	None Allotted	0 Possible Values: 0 to 100000.
RHEL Cluster-Storage EUS (64-bit IBM POWER)	None Allotted	0 Possible Values: 0 to 10000.	None Allotted	0 Possible Values: 0 to 100000.
RHEL Cluster-Storage EUS (64-bit Itanium)	None Allotted	0 Possible Values: 0 to 10000.	None Allotted	0 Possible Values: 0 to 100000.
RHEL Cluster-Storage Long Life (v. 5.3.ll for 32-bit x86)	None Allotted	0 Possible Values: 0 to 10000.	None Allotted	0 Possible Values: 0 to 100000.
RHEL Cluster-Storage Long Life (v. 5.3.ll for 64-bit Itanium)	None Allotted	0 Possible Values: 0 to 10000.	None Allotted	0 Possible Values: 0 to 100000.
RHEL Clustering	None Allotted	100 Possible Values: 0 to 10505.	None Allotted	10000 Possible Values: 0 to 100000.
RHEL Clustering EUS	None Allotted	0 Possible Values: 0 to 10000.	None Allotted	0 Possible Values: 0 to 100000.
RHEL Clustering EUS (64-bit IBM POWER)	None Allotted	0 Possible Values: 0 to 10000.	None Allotted	0 Possible Values: 0 to 100000.
RHEL Clustering EUS (64-bit Itanium)	None Allotted	0 Possible Values: 0 to 10000.	None Allotted	0 Possible Values: 0 to 100000.
RHEL Clustering Long Life (v. 5.3.ll for 32-bit x86)	None Allotted	0 Possible Values: 0 to 10000.	None Allotted	0 Possible Values: 0 to 100000.
RHEL Clustering Long Life (v. 5.3.ll for 64-bit Itanium)	None Allotted	0 Possible Values: 0 to 10000.	None Allotted	0 Possible Values: 0 to 100000.
RHEL Clustering Option Beta Debuginfo (v. 5)	None Allotted	0	None Allotted	0

RHN Satellite – Admin – Organizations – Subscriptions – Software Channel Entitlements – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Admin - Organi...

redhat.com https://molly.tc.redhat.com/rhn/admin/multiorg/OrgSoftwareSubscriptions.do?oid=3

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RHEL FasTrack Debuginfo (v. 5)	None Allotted	0 Possible Values: **0** to **10528**.	None Allotted	0 Possible Values: **0** to **100713**.
RHEL Hardware Certification	None Allotted	0 Possible Values: **0** to **10507**.	None Allotted	0 Possible Values: **0** to **100000**.
RHEL Hardware Certification Beta Debuginfo (v. 5)	None Allotted	0 Possible Values: **0** to **10507**.	None Allotted	0 Possible Values: **0** to **100000**.
RHEL Hardware Certification Debuginfo (v. 5)	None Allotted	0 Possible Values: **0** to **10507**.	None Allotted	0 Possible Values: **0** to **100000**.
RHEL Long Life (v. 5.3.ll for 64-bit Itanium)	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
RHEL Long Life (v. 5.3.ll)	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
RHEL Optional Productivity Apps	None Allotted	100 Possible Values: **0** to **10528**.	None Allotted	10000 Possible Values: **0** to **100713**.
RHEL Optional Productivity Apps Beta	None Allotted	0 Possible Values: **0** to **10528**.	None Allotted	0 Possible Values: **0** to **100713**.
RHEL Optional Productivity Apps EUS	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
RHEL Optional Productivity Beta Debuginfo (v. 5)	None Allotted	0 Possible Values: **0** to **10528**.	None Allotted	0 Possible Values: **0** to **100713**.
RHEL Optional Productivity Debuginfo (v. 5)	None Allotted	0 Possible Values: **0** to **10528**	None Allotted	0 Possible Values: **0** to

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RHEL Optional Productivity Debuginfo (v. 5)	None Allotted	0 Possible Values: **0** to **10528**.	None Allotted	0 Possible Values: **0** to **100713**.
RHEL S-JIS Service (v. 5 for 32-bit x86)	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
RHEL S-JIS Service Debuginfo	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
RHEL Scalable File System (v. 5 for 64-bit x86_64 Server)	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
RHEL Scalable File System Extended Update Support	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
RHEL Software Test Suite (v. 5)	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
RHEL Software Test Suite (v. 6)	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
RHEL Software Test Suite Debuginfo (v. 6)	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
RHEL Supplementary	None Allotted	100 Possible Values: **0** to **10528**.	None Allotted	10000 Possible Values: **0** to **100713**.
RHEL Supplementary (v. 5 for 64-bit IBM System z)	None Allotted	0 Possible Values: **0** to **10002**.	None Allotted	0 Possible Values: **0** to **100000**.
RHEL Supplementary (v. 5 for 64-bit IBM System z) Beta	None Allotted	0 Possible Values: **0** to **10002**.	None Allotted	0 Possible Values: **0** to **100000**

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Filter by Channel Entitlement: Go Display 25 items per page 101 - 125 of 506

Channel Entitlement	Regular Usage (Used/Allotted)*	Regular Proposed Total	Flex Usage (Used/Allotted)*	Flex Proposed Total
RHEL Supplementary Beta Debuginfo (v. 5)	None Allotted	0 Possible Values: 0 to 10528.	None Allotted	0 Possible Values: 0 to 100713.
RHEL Supplementary Debuginfo (v. 5 for 64-bit IBM System z)	None Allotted	0 Possible Values: 0 to 10002.	None Allotted	0 Possible Values: 0 to 100000.
RHEL Supplementary Debuginfo (v. 5)	None Allotted	0 Possible Values: 0 to 10528.	None Allotted	0 Possible Values: 0 to 100713.
RHEL Supplementary EUS	None Allotted	0 Possible Values: 0 to 10000.	None Allotted	0 Possible Values: 0 to 100000.
RHEL Supplementary EUS (64-bit IBM POWER)	None Allotted	0 Possible Values: 0 to 10000.	None Allotted	0 Possible Values: 0 to 100000.
RHEL Supplementary EUS (64-bit Itanium)	None Allotted	0 Possible Values: 0 to 10000.	None Allotted	0 Possible Values: 0 to 100000.
RHEL Supplementary EUS (IBM S/390)	None Allotted	0 Possible Values: 0 to 10000.	None Allotted	0 Possible Values: 0 to 100000.
RHEL Supplementary Long Life (v. 5.3.ll for 32-bit x86)	None Allotted	0 Possible Values: 0 to 10000.	None Allotted	0 Possible Values: 0 to 100000.
RHEL Supplementary Long Life (v. 5.3.ll for 64-bit Itanium)	None Allotted	0 Possible Values: 0 to 10000.	None Allotted	0 Possible Values: 0 to 100000.
RHEL Virtualization	None Allotted	100 Possible Values: 0 to 10528.	None Allotted	10000 Possible Values: 0 to 100713.
RHEL Virtualization Beta Debuginfo (v. 5)	None Allotted	0 Possible Values: 0 to 10528.	None Allotted	0 Possible Values: 0 to 100713.
RHEL Virtualization Debuginfo (v. 5)	None Allotted	0 Possible Values: 0 to 10528.	None Allotted	0 Possible Values: 0 to 100713.

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(v. 6)		Possible Values: **0** to **10000**.		Possible Values: **0** to **100000**.
Red Hat Enterprise Linux SJIS Debuginfo (v. 6)	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server (v. 6 for IBM POWER)	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server (v. 6 for IBM POWER) Extended Update Support	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server (v. 6 for IBM System Z)	None Allotted	0 Possible Values: **0** to **10002**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server (v. 6 for IBM System Z) Extended Update Support	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server (v. 6)	None Allotted	100 Possible Values: **0** to **10528**.	None Allotted	10000 Possible Values: **0** to **100713**.
Red Hat Enterprise Linux Server (v. 6) AUS	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server (v. 6) Extended Update Support	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server Beta (v. 6 IBM System Z)	None Allotted	0 Possible Values: **0** to **10002**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server Beta (v. 6 for IBM POWER)	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.

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		Possible Values: 0 to 10002.		Possible Values: 0 to 100000.
Red Hat Enterprise Linux Server Beta (v. 6 for IBM POWER)	None Allotted	0 Possible Values: 0 to 10000.	None Allotted	0 Possible Values: 0 to 100000.
Red Hat Enterprise Linux Server Beta (v. 6)	None Allotted	0 Possible Values: 0 to 10528.	None Allotted	0 Possible Values: 0 to 100713.
Red Hat Enterprise Linux Server Beta Debuginfo (v. 6 IBM System Z)	None Allotted	0 Possible Values: 0 to 10002.	None Allotted	0 Possible Values: 0 to 100000.
Red Hat Enterprise Linux Server Beta Debuginfo (v. 6 for IBM POWER)	None Allotted	0 Possible Values: 0 to 10000.	None Allotted	0 Possible Values: 0 to 100000.
Red Hat Enterprise Linux Server Beta Debuginfo (v. 6)	None Allotted	0 Possible Values: 0 to 10528.	None Allotted	0 Possible Values: 0 to 100713.
Red Hat Enterprise Linux Server Clustered Storage (v. 6)	None Allotted	100 Possible Values: 0 to 10005.	None Allotted	10000 Possible Values: 0 to 100000.
Red Hat Enterprise Linux Server Clustered Storage (v. 6) Extended Update Support	None Allotted	0 Possible Values: 0 to 10000.	None Allotted	0 Possible Values: 0 to 100000.
Red Hat Enterprise Linux Server Clustered Storage Beta (v. 6)	None Allotted	0 Possible Values: 0 to 10005.	None Allotted	0 Possible Values: 0 to 100000.

226 - 250 of 506

Tip: *-'Allotted' refers to the total number of entitlements allocated to any organization from initial pool as reflected in this RHN Satellite's certificate. 'Used' refers to entitlements that have been consumed by systems in various organizations.

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Red Hat Enterprise Linux Server FasTrack Debuginfo (v. 6 IBM System Z)	None Allotted	0 Possible Values: **0** to **10002**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server FasTrack Debuginfo (v. 6 for IBM POWER)	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server FasTrack Debuginfo (v. 6)	None Allotted	0 Possible Values: **0** to **10528**.	None Allotted	0 Possible Values: **0** to **100713**.
Red Hat Enterprise Linux Server HTB (v. 6 IBM System Z)	None Allotted	0 Possible Values: **0** to **2010**.	None Allotted	No Entitlements Available
Red Hat Enterprise Linux Server HTB (v. 6 for 32-bit x86)	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server HTB (v. 6 for IBM POWER)	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server High Availability (v. 6)	None Allotted	100 Possible Values: **0** to **10505**.	None Allotted	10000 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server High Availability (v. 6) AUS	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server High Availability (v. 6) Extended Update Support	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server High Availability Beta (v. 6)	None Allotted	0 Possible Values: **0** to **10505**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server High Availability Beta Debuginfo (v. 6)	None Allotted	0 Possible Values: **0** to **10505**.	None Allotted	0 Possible Values: **0** to **100000**.

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Red Hat Enterprise Linux Server High Touch Beta (v. 6 for IBM POWER)	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server High Touch Beta (v. 6)	None Allotted	0 Possible Values: **0** to **10001**.	None Allotted	0 Possible Values: **0** to **100100**.
Red Hat Enterprise Linux Server High Touch Beta Debuginfo (v. 6 IBM System Z)	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server High Touch Beta Debuginfo (v. 6 for IBM POWER)	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server High Touch Beta Debuginfo (v. 6)	None Allotted	0 Possible Values: **0** to **10001**.	None Allotted	0 Possible Values: **0** to **100100**.
Red Hat Enterprise Linux Server Large File System (v. 6)	None Allotted	100 Possible Values: **0** to **10000**.	None Allotted	10000 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server Large File System (v. 6) Extended Update Support	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server Large File System Beta (v. 6)	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server Large File System Beta Debuginfo (v. 6)	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server Large File System Debuginfo (v. 6)	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server Large File System Debuginfo (v. 6) Extended Update Support	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.

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Red Hat Enterprise Linux Server High Touch Beta Debuginfo (v. 6 for IBM POWER)	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server High Touch Beta Debuginfo (v. 6)	None Allotted	0 Possible Values: **0** to **10001**.	None Allotted	0 Possible Values: **0** to **100100**.
Red Hat Enterprise Linux Server Large File System (v. 6)	None Allotted	100 Possible Values: **0** to **10000**.	None Allotted	10000 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server Large File System (v. 6) Extended Update Support	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server Large File System Beta (v. 6)	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server Large File System Beta Debuginfo (v. 6)	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server Large File System Debuginfo (v. 6)	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server Large File System Debuginfo (v. 6) Extended Update Support	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server Load Balancer (v. 6)	None Allotted	100 Possible Values: **0** to **10505**.	None Allotted	10000 Possible Values: **0** to **100000**.

276 - 300 of 506

Tip: *-'Allotted' refers to the total number of entitlements allocated to any organization from initial pool as reflected in this RHN Satellite's certificate. 'Used' refers to entitlements that have been consumed by systems in various organizations.

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Red Hat Enterprise Linux Server Load Balancer FasTrack Debuginfo (v. 6)	None Allotted	0 Possible Values: **0** to **10505**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server Load Balancer High Touch Beta (v. 6)	None Allotted	0 Possible Values: **0** to **10001**.	None Allotted	0 Possible Values: **0** to **100100**.
Red Hat Enterprise Linux Server Load Balancer High Touch Beta Debuginfo (v. 6)	None Allotted	0 Possible Values: **0** to **10001**.	None Allotted	0 Possible Values: **0** to **100100**.
Red Hat Enterprise Linux Server Optional (v. 6 IBM System Z)	None Allotted	0 Possible Values: **0** to **10002**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server Optional (v. 6 IBM System Z) Extended Update Support	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server Optional (v. 6 for IBM POWER)	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server Optional (v. 6 for IBM POWER) Extended Update Support	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server Optional (v. 6)	None Allotted	100 Possible Values: **0** to **10528**.	None Allotted	10000 Possible Values: **0** to **100713**.
Red Hat Enterprise Linux Server Optional (v. 6) AUS	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server Optional (v. 6) Extended Update Support	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server Optional Beta (v. 6 IBM System Z)	None Allotted	0 Possible Values: **0** to **10002**.	None Allotted	0 Possible Values: **0** to

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Channel Entitlement	Regular Usage (Used/Allotted)*	Regular Proposed Total	Flex Usage (Used/Allotted)*	Flex Proposed Total
Red Hat Enterprise Linux Server Scalable File System High Touch Beta Debuginfo (v. 6)	None Allotted	0 Possible Values: **0** to **10001**.	None Allotted	0 Possible Values: **0** to **100100**.
Red Hat Enterprise Linux Server Supplementary (v. 6 IBM System Z)	None Allotted	0 Possible Values: **0** to **10002**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server Supplementary (v. 6 IBM System Z) Extended Update Support	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server Supplementary (v. 6 for IBM POWER)	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server Supplementary (v. 6 for IBM POWER) Extended Update Support	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server Supplementary (v. 6)	None Allotted	100 Possible Values: **0** to **10528**.	None Allotted	10000 Possible Values: **0** to **100713**.
Red Hat Enterprise Linux Server Supplementary (v. 6) AUS	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server Supplementary (v. 6) Extended Update Support	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server Supplementary Beta (v. 6 IBM System Z)	None Allotted	0 Possible Values: **0** to **10002**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Enterprise Linux Server Supplementary Beta (v. 6 for IBM POWER)	None Allotted	0	None Allotted	0

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No systems selected Manage Clear

- Organizations
- Subscriptions
- Users
- RHN Satellite Configuration
- Task Schedules
- Task Engine Status
- Show Tomcat Logs

Acme Widget IT

delete organization

Details Users Subscriptions Trusts Configuration

System Entitlements Software Channel Entitlements

Software Channel Entitlement Counts

Below you modify the total number of software channel entitlements available to the **Acme Widget IT** organization on a per-channel basis. If you'd like to modify the number of entitlements available to a particular channel note that you are limited by the range indicated next to the field.

0 1 2 3 4 5 6 7 8 9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Filter by Channel Entitlement: Go Display 25 items per page 476 - 500 of 506

Channel Entitlement	Regular Usage (Used/Allotted)*	Regular Proposed Total	Flex Usage (Used/Allotted)*	Flex Proposed Total
Red Hat Network Tools for RHEL (v. 6 for IBM System Z) Beta	None Allotted	0 Possible Values: **0** to **10002**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Network Tools for RHEL (v. 6)	None Allotted	100 Possible Values: **0** to **10528**.	None Allotted	10000 Possible Values: **0** to **100713**.
Red Hat Network Tools for RHEL (v. 6) Beta	None Allotted	0 Possible Values: **0** to **10528**.	None Allotted	0 Possible Values: **0** to **100713**.
Red Hat Network Tools for RHEL Client (v. 6)	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Network Tools for RHEL Client (v. 6) Beta	None Allotted	0	None Allotted	0

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Red Hat Network Tools for RHEL EUS (v. 6)	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Network Tools for RHEL EUS (v. 6) Debuginfo	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Network Tools for RHEL HPC Compute Node (v. 6)	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Network Tools for RHEL HPC Compute Node (v. 6) Beta	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Network Tools for RHEL Server (v.5 32-bit x86) Beta	None Allotted	0 Possible Values: **0** to **25528**.	None Allotted	0 Possible Values: **0** to **100713**.
Red Hat Network Tools for RHEL Workstation (v. 6)	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Network Tools for RHEL Workstation (v. 6) Beta	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Network Tools for Red Hat Enterprise Linux	None Allotted	100 Possible Values: **0** to **25528**.	None Allotted	10000 Possible Values: **0** to **100713**.
Red Hat Storage Software Appliance (v.3 for Server v6 AMD64 / Intel64)	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Storage Software Appliance Debug (v.3 for Server v6 AMD64 / Intel64)	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Red Hat Web Application Framework	None Allotted	0 Possible Values: **0** to **1005**.	None Allotted	No Entitlements Available

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0 1 2 3 4 5 6 7 8 9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Filter by Channel Entitlement: Go Display 25 items per page 501 - 506 of 506

Channel Entitlement	Regular Usage (Used/Allotted)*	Regular Proposed Total	Flex Usage (Used/Allotted)*	Flex Proposed Total
Supplementary technology for desktop beta	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Virtualization technology beta	None Allotted	0 Possible Values: **0** to **10528**.	None Allotted	0 Possible Values: **0** to **100713**.
Virtualization technology for desktop beta	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Workstation technology beta	None Allotted	0 Possible Values: **0** to **10000**.	None Allotted	0 Possible Values: **0** to **100000**.
Zenoss Enterprise 1.2 (for RHEL Server v.5 x86)	None Allotted	0 Possible Values: **0** to **5000**.	None Allotted	0 Possible Values: **0** to **100000**.
Zimbra Network Professional Ed. 4.5 (for RHEL Server v.5 x86)	None Allotted	0 Possible Values: **0** to **5000**.	None Allotted	0 Possible Values: **0** to **100000**.

501 - 506 of 506

Tip: *-'Allotted' refers to the total number of entitlements allocated to any organization from initial pool as reflected in this RHN Satellite's certificate. 'Used' refers to entitlements that have been consumed by systems in various organizations.

Update Organization

Organizations

- Finally! You've scrolled through over 500 possible channels!

Organizations

- Now log in as the admin for the new organization (acmeadmin)
- You'll notice that you have populated software channels.

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RED HAT NETWORK SATELLITE

Sign In About

Please Sign In

RHN Satellite Login: acmeadmin

Password: ••••••••••••

Sign In

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English (change) Knowledgebase | Documentation USER: acmeadmin | ORGANIZATION: Acme Widget IT | Preferences | Sign Out

RED HAT NETWORK SATELLITE

Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

NO SYSTEMS SELECTED MANAGE CLEAR

- Software Channels
  - All Channels
  - Red Hat Channels
  - Popular Channels
  - My Channels
  - Shared Channels
  - Retired Channels
- Package Search
- Manage Software Channels

Full Software Channel List

All Channels | Red Hat Channels | Popular Channels | My Channels | Shared Channels | Retired Channels

The software channels listed below are **all of the channels** that your organization has access to.

Filter by Channel Name: Go

Show All Child Channels | Hide All Child Channels

Channel Name	Provider	Packages	Systems
Red Hat Enterprise Linux (v. 5 for 64-bit x86_64)	Red Hat, Inc.	13732	0
Red Hat Network Tools for RHEL Server (v.5 64-bit x86_64)	Red Hat, Inc.	502	0
RHEL Cluster-Storage (v. 5 for 64-bit x86_64)	Red Hat, Inc.	216	0
RHEL Clustering (v. 5 for 64-bit x86_64)	Red Hat, Inc.	187	0
RHEL Optional Productivity Apps (v. 5 for 64-bit x86_64)	Red Hat, Inc.	1880	0
RHEL Supplementary (v. 5 for 64-bit x86_64)	Red Hat, Inc.	1242	0
RHEL Virtualization (v. 5 for 64-bit x86_64)	Red Hat, Inc.	486	0
Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Red Hat, Inc.	7248	0

RHN Satellite – Channels – Software Channels – All Channels – All Channels – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Channels - Sof...

redhat.com https://molly.tc.redhat.com/rhn/software/channels/All.do

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RED HAT NETWORK SATELLITE

Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

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  - All Channels
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Full Software Channel List

All Channels | Red Hat Channels | Popular Channels | My Channels | Shared Channels | Retired Channels

The software channels listed below are **all of the channels** that your organization has access to.

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Show All Child Channels | Hide All Child Channels

Channel Name	Provider	Packages	Systems
Red Hat Enterprise Linux (v. 5 for 64-bit x86_64)	Red Hat, Inc.	13732	0
Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Red Hat, Inc.	7248	0
RHEL Server High Availability (v. 6 for 64-bit x86_64)	Red Hat, Inc.	158	0
RHEL Server High Performance Networking (v. 6 for x86_64)	Red Hat, Inc.	18	0
RHEL Server Load Balancer (v. 6 for 64-bit x86_64)	Red Hat, Inc.	3	0
RHEL Server Optional (v. 6 64-bit x86_64)	Red Hat, Inc.	4551	0
RHEL Server Resilient Storage (v. 6 for 64-bit x86_64)	Red Hat, Inc.	180	0
RHEL Server Scalable File System (v. 6 for x86_64)	Red Hat, Inc.	13	0
RHEL Server Supplementary (v. 6 64-bit x86_64)	Red Hat, Inc.	214	0
RHN Tools for RHEL (v. 6 for 64-bit x86_64)	Red Hat, Inc.	64	0

RHN Satellite – Overview – Subscription Management – System Entitlements – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Overview - Sub...

redhat.com https://molly.tc.redhat.com/rhn/systems/SystemEntitlements.do

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RED HAT NETWORK SATELLITE

Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

NO SYSTEMS SELECTED MANAGE CLEAR

- Overview
- Your Account
- Your Preferences
- Locale Preferences
- Subscription Management
  - System Entitlements
  - Virtualization Entitlements
  - Software Channel Entitlements
- Organization Trusts

System Legend

- OK
- Critical
- Warning
- Unknown
- Locked
- Kickstarting

System Entitlements

In order to get the most out of RHN Satellite, each system must be **entitled** to service. If a system is not entitled, you will not be allowed to perform key software management tasks for that system, such as package installs or errata updates.

A list of your profiled systems follows, with their base and add-on entitlements shown in the appropriate columns. To change entitlement levels, select the systems you wish to modify, and choose the appropriate action below.

No systems.

Entitlement Counts

Base Entitlements

Update:	**0 systems** entitled, **0 available** entitlements (**0 total**)
Management:	**0 systems** entitled, **100 available** entitlements (**100 total**)

Add-On Entitlement

Provisioning:	**0 systems** entitled, **100 available** entitlements (**100 total**)
Monitoring:	**0 systems** entitled, **100 available** entitlements (**100 total**)
	0 systems entitled, **100 available** entitlements (**100 total**)

https://molly.tc.redhat.com/rhn/systems/SystemEntitlements.do

RHN Satellite – Overview – Subscription Management – Software Channel Entitlements – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Overview - Sub...

redhat.com https://molly.tc.redhat.com/rhn/channels/software/Entitlements.do

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Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

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- Overview
- Your Account
- Your Preferences
- Locale Preferences
- Subscription Management
  - System Entitlements
  - Virtualization Entitlements
  - Software Channel Entitlements
- Organization Trusts

Software Channel Entitlements

The software channels listed below are subscription-based channels to which your organization has paid access.

Filter by Channel Entitlement: Go

1 - 17 of 17

Channel Entitlement	Regular Consumed	Regular Available	Consumed Flex Guests	Available Flex Guests	Systems Subscribed
Acme Widget IT (3) Channel Family	0	Unlimited	0	Unlimited	0
Red Hat Enterprise Linux (core server)	0	100	0	10000	0
Red Hat Enterprise Linux Server (v. 6)	0	100	0	10000	0
Red Hat Enterprise Linux Server Clustered Storage (v. 6)	0	100	0	10000	0
Red Hat Enterprise Linux Server High Availability (v. 6)	0	100	0	10000	0
Red Hat Enterprise Linux Server High Performance Networking (v. 6)	0	100	0	10000	0
Red Hat Enterprise Linux Server Large File System (v. 6)	0	100	0	10000	0
Red Hat Enterprise Linux Server Load Balancer (v. 6)	0	100	0	10000	0
Red Hat Enterprise Linux Server Optional (v. 6)	0	100	0	10000	0
plementary (v. 6)	0	100	0	10000	0

https://molly.tc.redhat.com/rhn/channels/software/Entitlements.do

Be Patient! Let's talk about config files!

Configuration File Management

- Configuration file management is used for keeping configs consistent
  - Consistent == easier (cheaper) to manage

RHN Satellite – Configuration – Configuration Channels – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Configuration - ...

redhat.com https://molly.tc.redhat.com/rhn/configuration/GlobalConfigChannelList.do

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RED HAT NETWORK SATELLITE

Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

No systems selected Manage Clear

- Overview
- Configuration Channels
- Configuration Files
- Systems

Centrally Managed Configuration Channels

create new config channel

The configuration channels listed below are **centrally-managed**. This means that any system registered to RHN Satellite can subscribe to the configuration channels below. Any changes made to the files within one of these channels will affect every system subscribed to that channel.

No configuration channels

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https://molly.tc.redhat.com/rhn/configuration/ChannelCreate.do?editing=true

RHN Satellite – Configuration – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Configuration

redhat.com https://molly.tc.redhat.com/rhn/configuration/ChannelCreate.do?editing=true

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RED HAT NETWORK SATELLITE

Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

NO SYSTEMS SELECTED MANAGE CLEAR

- Overview
- Configuration Channels
- Configuration Files
- Systems

New Config Channel

You must enter the configuration channel details below.

Name*: Acme Config Channel

Label*: acme-config

Description*: This is the primary configuration file channel for Acme.

Create Config Channel

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RHN Satellite – Configuration – Overview – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Configuration - ...

redhat.com https://molly.tc.redhat.com/rhn/configuration/ChannelOverview.do?ccid=1

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RED HAT NETWORK SATELLITE

Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

NO SYSTEMS SELECTED MANAGE CLEAR

- Overview
- Configuration Channels
- Configuration Files
- Systems

Acme Config Channel

delete channel

Overview Add Files Systems

Channel Properties (Edit Properties)

Name:	Acme Config Channel
Label:	acme-config
Description:	This is the primary configuration file channel for Acme.

Channel Information

Number of Files:	No files found
Systems:	No systems subscribed
Most-Recently Subscribed System	No systems subscribed

Configuration Actions

Add/Create Files

- Create new configuration file or directory
- Upload configuration files
- Import a file from another channel or system

https://molly.tc.redhat.com/rhn/configuration/ChannelUploadFiles.do?ccid=1 s modified

RHN Satellite – Configuration – Add Files – Create File – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Configuration - ...

redhat.com https://molly.tc.redhat.com/rhn/configuration/ChannelCreateFiles.do?ccid=1

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RED HAT NETWORK SATELLITE

Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

NO SYSTEMS SELECTED MANAGE CLEAR

- Overview
- Configuration Channels
- Configuration Files
- Systems

Acme Config Channel

delete channel

Overview Add Files Systems

Upload File Import Files Create File

Create New Configuration File

File Type:
- (•) Text file
- ( ) Directory
- ( ) Symbolic link

Tip: Enter the target of the symlink as the file contents

Filename/Path *: /etc/acme/acme.cfg

Symbolic Link Target Filename/Path *:

Ownership:
User name *: root
Group name *: root

Tip: If the user and/or group indicated here does not exist on system(s) to which this file is deployed, the deploy will fail.

File Permissions 644

RHN Satellite – Configuration – Add Files – Create File – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Configuration - ...

redhat.com https://molly.tc.redhat.com/rhn/configuration/ChannelCreateFiles.do?ccid=1

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Tip: If the user and/or group indicated here does not exist on system(s) to which this file is deployed, the deploy will fail.

File Permissions Mode *: 644

Tip: '644' for text files and '755' for directories and executables will allow global access or execution (but not modification).

SELinux context

Tip: Enter SELinux context like: user_u:role_r:type_t:s0-s15:c0.c1024 (Note: you don't have to enter all parts)

Macro Delimiters *: Start Delimiter: {| End Delimiter: |}

Tip: A full listing of the available macros is listed in the RHN Reference Guide

File Contents:

BASH

1

Position: Ln 1, Ch 1 Total: Ln 1, Ch 0

☑ Toggle editor

https://molly.tc.redhat.com/rhn/help/reference/index.jsp

RHN Satellite – Configuration – Add Files – Create File – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Configuration - ...

redhat.com https://molly.tc.redhat.com/rhn/configuration/ChannelCreateFiles.do?ccid=1

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Tip: If the user and/or group indicated here does not exist on system(s) to which this file is deployed, the deploy will fail.

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Tip: '644' for text files and '755' for directories and executables will allow global access or execution (but not modification).

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Macro Delimiters *: Start Delimiter: {| End Delimiter: |}

Tip: A full listing of the available macros is listed in the RHN Reference Guide.

File Contents:

BASH

```
# This is the Acme config file.
# It contains macros so it will be customized on a
# per-host basis.

MY_SYSTEMID={|rhn.system.sid|}
MY_PROFILE_NAME={|rhn.system.profile_name|}
MY_SYSTEM_DESCRIPTION={|rhn.system.description|}
MY_HOSTNAME={|rhn.system.hostname|}
MY_SYSTEM_IP={|rhn.system.ip_address|}
MY_ETH0_IP={|rhn.system.net_interface.ip_address(eth0)|}
MY_ETH0_NETMASK={|rhn.system.net_interface.netmask(eth0)|}
MY_ETH0_BCAST={|rhn.system.net_interface.broadcast(eth0)|}
MY_ETH0_MAC={|rhn.system.net_interface.hardware_address(eth0)|}
MY_ETH0_DRIVER={|rhn.system.net_interface.driver_module(eth0)|}
```

Position: Ln 15, Ch 1 Total: Ln 15, Ch 590

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RHN Satellite – Configuration – Add Files – Create File – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Configuration - ...

redhat.com https://molly.tc.redhat.com/rhn/configuration/ChannelCreateFiles.do?ccid=1

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File Contents:

BASH

```
# This is the Acme config file.
# It contains macros so it will be customized on a
# per-host basis.

MY_SYSTEMID={|rhn.system.sid|}
MY_PROFILE_NAME={|rhn.system.profile_name|}
MY_SYSTEM_DESCRIPTION={|rhn.system.description|}
MY_HOSTNAME={|rhn.system.hostname|}
MY_SYSTEM_IP={|rhn.system.ip_address|}
MY_ETH0_IP={|rhn.system.net_interface.ip_address(eth0)|}
MY_ETH0_NETMASK={|rhn.system.net_interface.netmask(eth0)|}
MY_ETH0_BCAST={|rhn.system.net_interface.broadcast(eth0)|}
MY_ETH0_MAC={|rhn.system.net_interface.hardware_address(eth0)|}
MY_ETH0_DRIVER={|rhn.system.net_interface.driver_module(eth0)|}
```

Position: Ln 15, Ch 1 Total: Ln 15, Ch 590

☑ Toggle editor

Tip: Alternatively, you can upload a new revision from the 'Manage Revisions' tab above.

Create Configuration File

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RHN Satellite – Configuration – Configuration Files – Details – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Configuration - ...

redhat.com https://molly.tc.redhat.com/rhn/configuration/file/FileDetails.do?cfid=1

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RED HAT NETWORK SATELLITE

Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

No systems selected Manage Clear

- Overview
- Configuration Channels
- Configuration Files
  - Centrally Managed Files
  - Locally Managed Files
- Systems

Revision 1 of /etc/acme/acme.cfg from channel Acme Config Channel

delete this file revision download file

Details Manage Revisions Deploy File Copy File Compare File

File Details

Configuration Channel:	Acme Config Channel
Revision:	1 (view other revisions)
Creation Date:	0 seconds ago
Last Modified:	0 seconds ago by acmeadmin
File Type:	Text File Click here for more information on the differences between text and binary files.
Next revision number:	2

File Properties

Filename/Path *:	/etc/acme/acme.cfg
Ownership:	User name *: root Group name *: root **Tip:** If the user and/or group indicated here does not exist on system(s) to which this file is deployed, the deploy will fail.
File Permissions Mode *:	644 **Tip:** '644' for text files and '755' for directories and executables will allow global access or execution (but not modification).
SELinux context	**Tip:** Enter SELinux context like: user_u:role_r:type_t:s0-s15:c0.c1024 (Note: you don't have to enter all parts)

https://molly.tc.redhat.com/rhn/configuration/ChannelOverview.do?ccid=1

RHN Satellite – Configuration – List/Remove Files – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Configuration - ...

redhat.com https://molly.tc.redhat.com/rhn/configuration/ChannelFiles.do?ccid=1

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RED HAT NETWORK SATELLITE

Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

NO SYSTEMS SELECTED MANAGE CLEAR

- Overview
- Configuration Channels
- Configuration Files
- Systems

Acme Config Channel

delete channel

Overview List/Remove Files Add Files Systems

Configuration Files

This list shows the files that this configuration channel contains. You can remove a file or files, or copy the latest version into a set of local overrides or into other central configuration channels.

Filter by Filename: Go

1 - 1 of 1 (0 selected)

	Filename	Actions	Last Modified	Current Version
	/etc/acme/acme.cfg	[View] | [Compare]	16 seconds ago	Revision 1

Update List Select All

1 - 1 of 1 (0 selected)

Remove Selected Files Copy to Systems Copy to Channels

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https://molly.tc.redhat.com/rhn/configuration/ChannelFiles.do?ccid=1

RHN Satellite – Configuration – Configuration Channels – Mozilla Firefox

File Edit View History Bookmarks Tools Help

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redhat.com https://molly.tc.redhat.com/rhn/configuration/GlobalConfigChannelList.do

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RED HAT NETWORK SATELLITE

Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

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- Overview
- Configuration Channels
- Configuration Files
- Systems

Centrally Managed Configuration Channels

create new config channel

The configuration channels listed below are **centrally-managed**. This means that any system registered to RHN Satellite can subscribe to the configuration channels below. Any changes made to the files within one of these channels will affect every system subscribed to that channel.

Filter by Name: Go

1 - 1 of 1

Name	Label	Files	Subscribed Systems
Acme Config Channel	acme-config	1 file	(none)

1 - 1 of 1

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https://molly.tc.redhat.com/rhn/configuration/GlobalConfigChannelList.do

Be Patient! We're moving to system groups!

System Groups

- Define system groups based on any number of criteria
  - System Location (Austin, Raleigh, Westford)
  - System Role (DB, Mail, Web)
  - Satellite Admin (John, Paul, George or Ringo)
- Work with unions and intersections

RHN Satellite – Systems – System Groups – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Systems - Syst...

redhat.com https://molly.tc.redhat.com/rhn/systems/SystemGroupList.do

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RED HAT NETWORK SATELLITE

Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

NO SYSTEMS SELECTED MANAGE CLEAR

- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart

System Groups

create new group

Updates	Health	Group Name	Systems	Use in SSM
Your organization has no system groups.				

Download CSV

Work With Union Work With Intersection

System Group Legend

- OK
- Warning
- Critical

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RHN Satellite release 5.4.1

https://molly.tc.redhat.com/network/systems/groups/create.pxt

RHN Satellite – Systems – System Groups – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Systems - Syst...

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Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

NO SYSTEMS SELECTED MANAGE CLEAR

- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart

Create System Group

Create a system group using the form provided. Note that the group will be empty until systems are joined to it. Entries marked with an asterisk (*) are **required**.

* - Required Field

Name*: Web Servers

Description*: Acme web servers.

Create Group

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RHN Satellite – Systems – System Groups – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Systems - Syst...

redhat.com https://molly.tc.redhat.com/rhn/systems/SystemGroupList.do?message=message.groupcreated&mes

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Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

NO SYSTEMS SELECTED MANAGE CLEAR

- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart

System Group Legend

- OK
- Warning
- Critical

System group **Web Servers** created.

System Groups

create new group

0 1 2 3 4 5 6 7 8 9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Filter by System Group Name: Go Display 25 items per page 1 - 1 of 1 (0 selected)

	Updates	Health	Group Name	Systems	Use in SSM
☐	☑		Web Servers	0	Use in SSM

Update List Select All 1 - 1 of 1 (0 selected)

Download CSV

Work With Union Work With Intersection

https://molly.tc.redhat.com/network/systems/groups/create.pxt

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RHN Satellite – Systems – System Groups – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Systems - Syst...

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Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

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- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart

Create System Group

Create a system group using the form provided. Note that the group will be empty until systems are joined to it. Entries marked with an asterisk (*) are **required**.

* - Required Field

Name*: Database Servers

Description*: Acme database servers.

Create Group

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Red Hat Network release 5.4.1

System Groups

- Lather, rinse, repeat for each group you want to create.
- As an example, I've created groups by location, server role, and production status. Your environment will probably have different ways of grouping.

RHN Satellite – Systems – System Groups – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Systems - Syst...

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Overview | Systems | Errata | Channels | Configuration | Schedule | Users | Monitoring | Help

No systems selected Manage Clear

- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart

System Group Legend

- OK
- Warning
- Critical

System Groups

create new group

0 1 2 3 4 5 6 7 8 9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Filter by System Group Name: Go Display 25 items per page

1 - 9 of 9 (0 selected)

	Updates	Health	Group Name	Systems	Use in SSM
	✓		Austin Servers	0	Use in SSM
	✓		Database Servers	0	Use in SSM
	✓		Dev Servers	0	Use in SSM
	✓		Mail Servers	0	Use in SSM
	✓		Prod Servers	0	Use in SSM
	✓		QA Servers	0	Use in SSM
	✓		Raleigh Servers	0	Use in SSM
	✓		Web Servers	0	Use in SSM
	✓		Westford Servers	0	Use in SSM

Update List Select All

1 - 9 of 9 (0 selected)

Download CSV

Be Patient! Let's talk channel cloning!

Channel Cloning

- Channel cloning allows you to make a copy of the content you receive from Red Hat and freeze it at a point in time.

Channel Cloning

- Great foundation for a dev -> qa -> production cycle.
  - Create dev channels
  - Clone content from Red Hat to dev channel
  - Subscribe dev systems to dev channels
  - Test in that context

Channel Cloning

- Great foundation for a dev -> qa -> production cycle.
  - Create qa channels
  - Clone content from dev to qa channel
  - Subscribe qa systems to qa channels
  - Test in that context (get user community buy-in here!)

Channel Cloning

- Great foundation for a dev -> qa -> production cycle.
  - Create prod channels
  - Clone content from qa to prod channel
  - Subscribe prod systems to prod channels

Channel Cloning

- This web UI is great for cloning the original state (4.0, 5.0, 6.0) of the channel or creating a clone of the channel as it is provided today.
- It is pretty painful if you want to clone a channel “locked” at a specific update - RHEL 5.4, RHEL 4.6, RHEL 6.1 and so on.
- For now we'll demonstrate cloning dev, qa and production channels at the current state - we'll come back to setting up a “locked” channel later.

RHN Satellite – Channels – Software Channels – All Channels – All Channels – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Channels - Sof...

redhat.com https://molly.tc.redhat.com/rhn/software/channels/All.do

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RED HAT NETWORK SATELLITE

Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Admin Help

No systems selected Manage Clear

- Software Channels
  - All Channels
  - Red Hat Channels
  - Popular Channels
  - My Channels
  - Shared Channels
  - Retired Channels
- Package Search
- Manage Software Channels

Full Software Channel List

All Channels | Red Hat Channels | Popular Channels | My Channels | Shared Channels | Retired Channels

The software channels listed below are **all of the channels** that your organization has access to.

Filter by Channel Name: Go

Show All Child Channels | Hide All Child Channels

Channel Name	Provider	Packages	Systems
Red Hat Enterprise Linux (v. 5 for 64-bit x86_64)	Red Hat, Inc.	13732	0
Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Red Hat, Inc.	7248	0

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RHN Satellite release 5.4.1

https://molly.tc.redhat.com/rhn/channels/manage/Manage.do

RHN Satellite – Channels – Manage Software Channels – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Channels - Ma...

redhat.com https://molly.tc.redhat.com/rhn/channels/manage/Manage.do

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RED HAT NETWORK SATELLITE

Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Admin Help

No systems selected Manage Clear

- Software Channels
- Package Search
- Manage Software Channels
  - Manage Software Packages
  - Manage Repositories

Software Channel Management

create new channel clone channel

The following software channels are owned by your organization.

Modify an existing software channel by selecting it from the list below, or create a new software channel.

Channel Name	Packages
No channels found.	

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RHN Satellite release 5.4.1

https://molly.tc.redhat.com/network/soft...empty_set&set_label=errata_clone_actions

RHN Satellite – Channels – Manage Software Channels – Details – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Channels - Ma...

redhat.com https://molly.tc.redhat.com/network/software/channels/manage/clone.pxt

Google

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No systems selected Manage Clear

- Software Channels
- Package Search
- Manage Software Channels
  - Manage Software Packages

Software Channel: New Channel

Details

Clone Channel

Select the channel you wish to clone from the list below. You can clone a channel in one of three ways:

- Current state of the channel
  The new channel will include all of the latest packages from the target channel, and all errata related to the channel will be cloned into your organization. If your organization already owns a clone of an erratum, the new channel will be associated with that erratum instead of creating another clone of the erratum.
- Original state of the channel
  The new channel will be a clone of the original state of the target channel. This is done by cloning all of the packages from the target channel which do not have an erratum associated with them. No errata will be cloned into your organization.
- Select errata
  The original state of the target channel will be cloned into the new channel. You will then have the option to select the errata you wish to import into the new channel. Importing an erratum will bring the packages from the target channel referred to by the erratum into the new channel. Selecting all of the errata from the list of potential errata is the same as cloning the current state of the channel. Selecting none of the errata is the same as cloning the original state of the channel.

Clone From: Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)

Clone:
- (●) Current state of the channel (all errata)
- ( ) Original state of the channel (no errata)
- ( ) Select errata

Create Channel

RHN Satellite – Channels – Manage Software Channels – Details – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Channels - Ma...

redhat.com https://molly.tc.redhat.com/network/software/channels/manage/edit.pxt?clone_from=102&clone_ty

Google

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Channel Name*:	DEV Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64) Ex: Custom Channel
Channel Label*:	dev-rhel-x86_64-server-6 Ex: custom-channel
Base Channel Architecture*:	x86_64
Channel Package Summary:	n/a
Channel Summary*:	DEV Red Hat Enterprise Linux Server (v. 6 for 64-bit A
GPG key URL:	file:///etc/pki/rpm-gpg/RPM-GPG-KEY-redhat-release
GPG key ID:	Ex: DB42A60E
GPG key Fingerprint:	Ex: CA20 8686 2BD6 9DFC 65F6 ECC4 2191 80CD DB42 A60E
Channel Description:	

Create Channel

Channel Cloning

- This will take a while, it's making duplicate entries for each package (plus its metadata) in the database
  - Packages themselves are **not** duplicated

RHN Satellite – Channels – Manage Software Channels – Details – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Channels - Ma...

redhat.com https://molly.tc.redhat.com/rhn/channels/manage/Edit.do?cid=118

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RED HAT NETWORK SATELLITE

Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Admin Help

NO SYSTEMS SELECTED MANAGE CLEAR

- Software Channels
- Package Search
- Manage Software Channels
  - Manage Software Packages
  - Manage Repositories

DEV Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)

delete software channel

Details Managers Errata Packages Repositories

Basic Channel Details

Create or edit software channels from this page.

If the parent channel is set to 'none', the channel is a base channel. Otherwise, the channel is a child of the specified channel.

Channel name and label are required. They each must be at least 6 characters in length. Labels must begin with a letter, contain only lowercase letters, hyphens ('-'), periods ('.'), underscores ('_'), and numerals. Channel name may also contain spaces and forward slashes ('/').

Channel summary is also required.

Channel Name*:	DEV Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)
Channel Label*:	dev-rhel-x86_64-server-6
Parent Channel:	None
Parent Channel Architecture:	x86_64
Yum Repository Checksum Type:	sha256

RHN Satellite – Channels – Manage Software Channels – Details – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Channels - Ma...

redhat.com https://molly.tc.redhat.com/rhn/channels/manage/Edit.do?cid=118

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Parent Channel Architecture:	x86_64
Yum Repository Checksum Type:	sha256 **Tip:** sha1 offers the widest compatibility with clients. sha-256 offers higher security, but is compatible only with newer clients: Fedora 11 and newer, or Enterprise Linux 6 and newer.
Channel Summary*:	DEV Red Hat Enterprise Linux Server (v. 6 for 64-bit A
Channel Description:	Development version of RHEL 6 x86_64 Server
Last Sync Time:	

Contact/Support Information

Maintainer Name:	Thomas Cameron
Maintainer Contact Information:	Email Address: thomas@redhat.com Phone Number: 512-585-5631
Support Policy:	Development support: Monday-Friday 9am-6pm

Channel Access Control

RHN Satellite – Channels – Manage Software Channels – Details – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Channels - Ma...

redhat.com https://molly.tc.redhat.com/rhn/channels/manage/Edit.do?cid=118

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Support Policy: Development support: Monday-Friday 9am-6pm

Channel Access Control

Per-User Subscription Restrictions:

- (●) All users within your organization may subscribe to this channel.
- ( ) Only selected users within your organization may subscribe to this channel.

Organization Sharing

- (●) This channel is **private** and cannot be accessed by any other organization.
- ( ) This channel is **protected** and may only be accessed by specific trusted organizations.
- ( ) This channel is **public** and may be accessed by any of the trusted organizations trusted by this organization.

Security: GPG

GPG key URL: file:///etc/pki/rpm-gpg/RPM-GPG-KEY-redhat-release

GPG key ID:

Ex: DB42A60E

GPG key Fingerprint:

Ex: CA20 8686 2BD6 9DFC 65F6 ECC4 2191 80CD DB42 A60E

Update Channel

RHN Satellite – Channels – Manage Software Channels – Details – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Channels - Ma...

redhat.com https://molly.tc.redhat.com/rhn/channels/manage/Edit.do?cid=118

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RED HAT NETWORK SATELLITE

Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Admin Help

NO SYSTEMS SELECTED MANAGE CLEAR

- Software Channels
- Package Search
- Manage Software Channels
  - Manage Software Packages
  - Manage Repositories

Channel **DEV Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)** updated.

DEV Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)

delete software channel

Details Managers Errata Packages Repositories

Basic Channel Details

Create or edit software channels from this page.

If the parent channel is set to 'none', the channel is a base channel. Otherwise, the channel is a child of the specified channel.

Channel name and label are required. They each must be at least 6 characters in length. Labels must begin with a letter, contain only lowercase letters, hyphens ('-'), periods ('.'), underscores ('_'), and numerals. Channel name may also contain spaces and forward slashes ('/').

Channel summary is also required.

Channel Name*:	DEV Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)
Channel Label*:	dev-rhel-x86_64-server-6
Parent Channel:	None
Parent Channel Architecture:	x86_64

RHN Satellite – Channels – Software Channels – All Channels – All Channels – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Channels - Sof...

redhat.com https://molly.tc.redhat.com/rhn/software/channels/All.do

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RED HAT NETWORK SATELLITE

Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Admin Help

NO SYSTEMS SELECTED MANAGE CLEAR

- Software Channels
  - All Channels
  - Red Hat Channels
  - Popular Channels
  - My Channels
  - Shared Channels
  - Retired Channels
- Package Search
- Manage Software Channels

Full Software Channel List

All Channels | Red Hat Channels | Popular Channels | My Channels | Shared Channels | Retired Channels

The software channels listed below are **all of the channels** that your organization has access to.

Filter by Channel Name: Go

Show All Child Channels | Hide All Child Channels

Channel Name	Provider	Packages	Systems
DEV Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Red Hat Inc	7248	0
Red Hat Enterprise Linux (v. 5 for 64-bit x86_64)	Red Hat, Inc.	13732	0
Red Hat Network Tools for RHEL Server (v.5 64-bit x86_64)	Red Hat, Inc.	502	0
RHEL Cluster-Storage (v. 5 for 64-bit x86_64)	Red Hat, Inc.	216	0
RHEL Clustering (v. 5 for 64-bit x86_64)	Red Hat, Inc.	187	0
RHEL Optional Productivity Apps (v. 5 for 64-bit x86_64)	Red Hat, Inc.	1880	0
RHEL Supplementary (v. 5 for 64-bit x86_64)	Red Hat, Inc.	1242	0
RHEL Virtualization (v. 5 for 64-bit x86_64)	Red Hat, Inc.	486	0
Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Red Hat, Inc.	7248	0
RHEL Server High Availability (v. 6 for 64-bit x86_64)	Red Hat, Inc.	158	0
RHEL Server High Performance Networking (v. 6 for x86_64)	Red Hat, Inc.	18	0

Cloning Channels

- Now clone the appropriate child channels

RHN Satellite – Channels – Manage Software Channels – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Channels - Ma...

redhat.com https://molly.tc.redhat.com/rhn/channels/manage/Manage.do

Google

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RED HAT NETWORK SATELLITE

Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Admin Help

No systems selected Manage Clear

- Software Channels
- Package Search
- Manage Software Channels
  - Manage Software Packages
  - Manage Repositories

Software Channel Management

create new channel clone channel

The following software channels are owned by your organization.

Modify an existing software channel by selecting it from the list below, or create a new software channel.

Filter by Channel Name: Go Display 25 items per page 1 - 1 of 1

Channel Name	Packages
DEV Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	7248

1 - 1 of 1

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https://molly.tc.redhat.com/network/soft...empty_set&set_label=errata_clone_actions

RHN Satellite – Channels – Manage Software Channels – Details – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Channels - Ma...

redhat.com https://molly.tc.redhat.com/network/software/channels/manage/clone.pxt

Google

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Clone Channel

Select the channel you wish to clone from the list below. You can clone a channel in one of three ways:

- Current state of the channel
  The new channel will include all of the latest packages from the target channel, and all errata related to the channel will be cloned into your organization. If your organization already owns a clone of an erratum, the new channel will be associated with that erratum instead of creating another clone of the erratum.
- Original state of the channel
  The new channel will be a clone of the original state of the target channel. This is done by cloning all of the packages from the target channel which do not have an erratum associated with them. No errata will be cloned into your organization.
- Select errata
  The original state of the target channel will be cloned into the new channel. You will then have the option to select the errata you wish to import into the new channel. Importing an erratum will bring the packages from the target channel referred to by the erratum into the new channel. Selecting all of the errata from the list of potential errata is the same as cloning the current state of the channel. Selecting none of the errata is the same as cloning the original state of the channel.

Clone From: RHEL Server Scalable File System (v. 6 for x86_64)

Clone:
- (●) Current state of the channel (all errata)
- ( ) Original state of the channel (no errata)
- ( ) Select errata

Create Channel

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Red Hat Network release 5.4.1

RHN Satellite – Channels – Manage Software Channels – Details – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Channels - Ma...

redhat.com https://molly.tc.redhat.com/network/software/channels/manage/edit.pxt?clone_from=110&clone_ty

Google

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Parent Channel:	DEV Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)
Channel Name*:	DEV RHEL Server Scalable File System (v. 6 for x86_64) Ex: Custom Channel
Channel Label*:	dev-rhel-x86_64-server-sfs-6 Ex: custom-channel
Base Channel Architecture*:	x86_64
Channel Package Summary:	n/a
Channel Summary*:	DEV Red Hat Enterprise Linux Server Scalable File Sys
GPG key URL:	file:///etc/pki/rpm-gpg/RPM-GPG-KEY-redhat-release
GPG key ID:	Ex: DB42A60E
GPG key Fingerprint:	Ex: CA20 8686 2BD6 9DFC 65F6 ECC4 2191 80CD DB42 A60E
Channel Description:	Development version of SFS

RHN Satellite – Channels – Manage Software Channels – Details – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Channels - Ma...

redhat.com https://molly.tc.redhat.com/network/software/channels/manage/edit.pxt?clone_from=110&clone_ty

Google

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Base Channel Architecture*:	x86_64
Channel Package Summary:	n/a
Channel Summary*:	DEV Red Hat Enterprise Linux Server Scalable File Sy
GPG key URL:	file:///etc/pki/rpm-gpg/RPM-GPG-KEY-redhat-release
GPG key ID:	Ex: DB42A60E
GPG key Fingerprint:	Ex: CA20 8686 2BD6 9DFC 65F6 ECC4 2191 80CD DB42 A60E
Channel Description:	Development version of SFS

Create Channel

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Red Hat Network release 5.4.1

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RHN Satellite - Channels - Ma...

redhat.com https://molly.tc.redhat.com/rhn/channels/manage/Edit.do?cid=119

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Channel Description: Development version of SFS

Last Sync Time:

Contact/Support Information

Maintainer Name: Thomas Cameron

Maintainer Contact Information:
Email Address: thomas@redhat.com
Phone Number: 512-585-5631

Support Policy: Development Support: Monday-Friday 9am-6pm

Channel Access Control

Per-User Subscription Restrictions:
- (●) All users within your organization may subscribe to this channel.
- ( ) Only selected users within your organization may subscribe to this channel.

Organization Sharing
- (●) This channel is **private** and cannot be accessed by any other organization.
- ( ) This channel is **protected** and may only be accessed by specific trusted organizations.
- ( ) This channel is **public** and may be accessed by any of the trusted organizations trusted by this organization.

RHN Satellite – Channels – Manage Software Channels – Details – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Channels - Ma...

redhat.com https://molly.tc.redhat.com/rhn/channels/manage/Edit.do?cid=119

Google

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Channel Access Control

Per-User Subscription Restrictions:

- (●) All users within your organization may subscribe to this channel.
- ( ) Only selected users within your organization may subscribe to this channel.

Organization Sharing

- (●) This channel is **private** and cannot be accessed by any other organization.
- ( ) This channel is **protected** and may only be accessed by specific trusted organizations.
- ( ) This channel is **public** and may be accessed by any of the trusted organizations trusted by this organization.

Security: GPG

GPG key URL: file:///etc/pki/rpm-gpg/RPM-GPG-KEY-redhat-release

GPG key ID:

Ex: DB42A60E

GPG key Fingerprint:

Ex: CA20 8686 2BD6 9DFC 65F6 ECC4 2191 80CD DB42 A60E

Update Channel

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RHN Satellite – Channels – Manage Software Channels – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Channels - Ma...

redhat.com https://molly.tc.redhat.com/rhn/channels/manage/Manage.do

Google

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RED HAT NETWORK SATELLITE

Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Admin Help

No systems selected Manage Clear

- Software Channels
- Package Search
- Manage Software Channels
  - Manage Software Packages
  - Manage Repositories

Software Channel Management

create new channel clone channel

The following software channels are owned by your organization.

Modify an existing software channel by selecting it from the list below, or create a new software channel.

Filter by Channel Name: Go Display 25 items per page 1 - 2 of 2

Channel Name	Packages
DEV Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	7248
└ DEV RHEL Server Scalable File System (v. 6 for x86_64)	13

1 - 2 of 2

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RHN Satellite release 5.4.1

Cloning Channels

- Lather, rinse, repeat for each of the child channels you want cloned.

RHN Satellite – Channels – Software Channels – All Channels – All Channels – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Channels - ... | RHN Satellite - Channels - ...

redhat.com https://molly.tc.redhat.com/rhn/software/channels/All.do?

Google

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- Red Hat Channels
- Popular Channels
- My Channels
- Shared Channels
- Retired Channels
- Package Search
- Manage Software Channels

All Channels | Red Hat Channels | Popular Channels | My Channels | Shared Channels | Retired Channels

The software channels listed below are **all of the channels** that your organization has access to.

Filter by Channel Name: Go

Show All Child Channels | Hide All Child Channels

Channel Name	Provider	Packages	Systems
DEV Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Red Hat Inc	7248	0
DEV RHEL Server High Availability (v. 6 for 64-bit x86_64)	Red Hat Inc	158	0
DEV RHEL Server High Performance Networking (v. 6 for x86_64)	Red Hat Inc	18	0
DEV RHEL Server Load Balancer (v. 6 for 64-bit x86_64)	Red Hat Inc	3	0
DEV RHEL Server Optional (v. 6 64-bit x86_64)	Red Hat Inc	4551	0
DEV RHEL Server Resilient Storage (v. 6 for 64-bit x86_64)	Red Hat Inc	180	0
DEV RHEL Server Scalable File System (v. 6 for x86_64)	Red Hat Inc	13	0
DEV RHEL Server Supplementary (v. 6 64-bit x86_64)	Red Hat Inc	214	0
DEV RHN Tools for RHEL (v. 6 for 64-bit x86_64)	Red Hat Inc	64	0
Red Hat Enterprise Linux (v. 5 for 64-bit x86_64)	Red Hat, Inc.	13732	0
Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Red Hat, Inc.	7248	0
RHEL Server High Availability (v. 6 for 64-bit x86_64)	Red Hat, Inc.	158	0
RHEL Server High Performance Networking (v. 6 for x86_64)	Red Hat, Inc.	18	0
RHEL Server Load Balancer (v. 6 for 64-bit x86_64)	Red Hat, Inc.	3	0
RHEL Server Optional (v. 6 64-bit x86_64)	Red Hat, Inc.	4551	0
RHEL Server Resilient Storage (v. 6 for 64-bit x86_64)	Red Hat, Inc.	180	0
RHEL Server Scalable File System (v. 6 for x86_64)	Red Hat, Inc.	13	0
RHEL Server Supplementary (v. 6 64-bit x86_64)	Red Hat, Inc.	214	0
RHN Tools for RHEL (v. 6 for 64-bit x86_64)	Red Hat, Inc.	64	0

Cloning Channels

- Take a look at the Errata sub-tab and the the List/Remove sub-tab to see that all of the errata (bug, security and enhancement) have been cloned.
- Cloned errata can be viewed in order of errata type, advisory name, or date.
- Date is very handy for backing out errata so as to be able to “lock” a channel, but there's still a better method.
- Search for “release dates” at https://access.redhat.com for RHEL release dates.

Thanks, Michele Newman (RHC)

access.redhat.com | Red Hat Enterprise Linux Release Dates - Mozilla Firefox

File Edit View History Bookmarks Tools Help

access.redhat.com | Red Hat En...

redhat.com https://access.redhat.com/knowledge/articles/3078

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- Red Hat Enterprise Linux 5
- Red Hat Enterprise Linux 4
- Red Hat Enterprise Linux 3
- Red Hat Enterprise Linux 2.1

Red Hat Enterprise Linux 6

Release/Update	General Availability Date	redhat-release Errata Date*	Kernel Version
RHEL 6 Update 3	TBA	TBA	TBA
RHEL 6 Update 2	12/06/2011	12/06/2011 RHEA-2011:1743	2.6.32-220
RHEL 6 Update 1	05/19/2011	05/19/2011 RHEA-2011:0540	2.6.32-131.0.15
RHEL 6 GA	11/09/2010	-	2.6.32-71

Codename: Santiago (based on a mix of Fedora 12, Fedora 13, and several modifications)

Red Hat Enterprise Linux 5

Release/Update	General Availability Date	redhat-release Errata Date*	Kernel Version
RHEL 5 Update 8	02/20/2012	02/20/2012 RHEA-2012:0315	2.6.18-308
RHEL 5 Update 7	07/21/2011	07/20/2011 RHEA-2011:0977	2.6.18-274
RHEL 5 Update 6	01/13/2011	01/12/2011 RHEA-2011:0020	2.6.18-238
RHEL 5 Update 5	03/30/2010	03/30/2010 RHEA-2010:0207	2.6.18-194
RHEL 5 Update 4	09/02/2009	09/02/2009 RHEA-2009:1400	2.6.18-164
RHEL 5 Update 3	01/20/2009	01/20/2009 RHEA-2009:0133	2.6.18-128
RHEL 5 Update 2	05/21/2008	05/20/2008 RHEA-2008:0436	2.6.18-92
RHEL 5 Update 1	11/07/2007	11/07/2007 RHEA-2007:0854	2.6.18-53

Actions

View published

New revision

Moderate

Translate

Highlight changes

< No highlighting >

RHN Satellite – Channels – Manage Software Channels – Errata – List / Remove – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Channels - ... | RHN Satellite - Channels - ...

redhat.com https://molly.tc.redhat.com/rhn/channels/manage/errata/ListRemove.do

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RED HAT NETWORK SATELLITE

Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Admin Help

NO SYSTEMS SELECTED MANAGE CLEAR

- Software Channels
- Package Search
- Manage Software Channels
  - Manage Software Packages
  - Manage Repositories

DEV Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)

delete software channel

Details Managers Errata Packages Repositories

List / Remove Add Clone Sync

Errata

Below is the list of errata associated with this channel. To remove an erratum from this channel, select it here, and click 'Remove' below.

0 1 2 3 4 5 6 7 8 9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Filter by Synopsis: Go Display 25 items per page 1 - 25 of 1,044 (0 selected)

Type	Advisory	Synopsis	Updated
	CLA-2012:0716	Important: bind security update	6/6/12
	CLA-2012:0710	Critical: firefox security update	6/4/12
	CLA-2012:0708	cyrus-imapd bug fix update	6/4/12
	CLA-2012:0703	libatasmart bug fix update	5/30/12
	CLA-2012:0699	Moderate: openssl security and bug fix update	5/28/12

Cloning Channels

- Next, clone the dev channel to qa.
- Don't clone qa or prod from RHN! If you clone from RHN to dev, then from dev to qa, then from qa to prod, nothing can ever get to prod that didn't go through dev and qa. You can enforce a discipline on software distribution that requires sign-off.

RHN Satellite – Channels – Software Channels – My Channels – My Channels – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Channels - ... | RHN Satellite - Channels - ...

redhat.com https://molly.tc.redhat.com/rhn/software/channels/Custom.do?

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- Software Channels
  - All Channels
  - Red Hat Channels
  - Popular Channels
  - My Channels
  - Shared Channels
  - Retired Channels
- Package Search
- Manage Software Channels

My Channels

All Channels | Red Hat Channels | Popular Channels | My Channels | Shared Channels | Retired Channels

The software channels listed below belong to your organization.

Filter by Channel Name: Go

Show All Child Channels | Hide All Child Channels

Channel Name	Packages	Systems
DEV Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	7248	0
DEV RHEL Server High Availability (v. 6 for 64-bit x86_64)	158	0
DEV RHEL Server High Performance Networking (v. 6 for x86_64)	18	0
DEV RHEL Server Load Balancer (v. 6 for 64-bit x86_64)	3	0
DEV RHEL Server Optional (v. 6 64-bit x86_64)	4551	0
DEV RHEL Server Resilient Storage (v. 6 for 64-bit x86_64)	180	0
DEV RHEL Server Scalable File System (v. 6 for x86_64)	13	0
DEV RHEL Server Supplementary (v. 6 64-bit x86_64)	214	0
DEV RHN Tools for RHEL (v. 6 for 64-bit x86_64)	64	0
PROD Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	7248	0
QA Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	7248	0

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Overview | Systems | Errata | Channels | Configuration | Schedule | Users | Monitoring | Admin | Help

No systems selected | Manage | Clear

- Software Channels
  - All Channels
  - Red Hat Channels
  - Popular Channels
  - My Channels
  - Shared Channels
  - Retired Channels
- Package Search
- Manage Software Channels

My Channels

All Channels | Red Hat Channels | Popular Channels | My Channels | Shared Channels | Retired Channels

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Show All Child Channels | Hide All Child Channels

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PROD Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	7248	0
QA Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	7248	0
QA RHEL Server High Availability (v. 6 for 64-bit x86_64)	158	0
QA RHEL Server High Performance Networking (v. 6 for x86_64)	18	0
QA RHEL Server Load Balancer (v. 6 for 64-bit x86_64)	3	0
QA RHEL Server Optional (v. 6 64-bit x86_64)	4551	0
QA RHEL Server Resilient Storage (v. 6 for 64-bit x86_64)	180	0
QA RHEL Server Scalable File System (v. 6 for x86_64)	13	0
QA RHEL Server Supplementary (v. 6 64-bit x86_64)	214	0
QA RHN Tools for RHEL (v. 6 for 64-bit x86_64)	64	0

RHN Satellite – Channels – Software Channels – My Channels – My Channels – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Channels - ... | RHN Satellite - Channels - ...

redhat.com https://molly.tc.redhat.com/rhn/software/channels/Custom.do?

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Overview | Systems | Errata | Channels | Configuration | Schedule | Users | Monitoring | Admin | Help

No systems selected | Manage | Clear

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- Package Search
- Manage Software Channels

My Channels

All Channels | Red Hat Channels | Popular Channels | My Channels | Shared Channels | Retired Channels

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PROD Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	7248	0
PROD RHEL Server High Availability (v. 6 for 64-bit x86_64)	158	0
PROD RHEL Server High Performance Networking (v. 6 for x86_64)	18	0
PROD RHEL Server Load Balancer (v. 6 for 64-bit x86_64)	3	0
PROD RHEL Server Optional (v. 6 64-bit x86_64)	4551	0
PROD RHEL Server Resilient Storage (v. 6 for 64-bit x86_64)	180	0
PROD RHEL Server Scalable File System (v. 6 for x86_64)	13	0
PROD RHEL Server Supplementary (v. 6 64-bit x86_64)	214	0
PROD RHN Tools for RHEL (v. 6 for 64-bit x86_64)	64	0
QA Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	7248	0

Be Patient! We're covering locked channels!

Locked Channels

- How about cloning to a specific date?

Locked Channels

- How about cloning to a specific date?
- It **can** be done through the UI, but it's pretty painful. You have to either go through and select each package you want cloned (thousands of them) up to a specific date, or clone them all, sort by date, and back out all the ones after a certain date (also potentially thousands).

Locked Channels

- How about cloning to a specific date?
- It **can** be done through the UI, but it's pretty painful. You have to either go through and select each package you want cloned (thousands of them) up to a specific date, or clone them all, sort by date, and back out all the ones after a certain date (also potentially thousands).
- Better to use `spacewalk-clone-by-date`, in the `spacewalk-utils` RPM, written by Justin Sherrill. Justin is an incredibly sharp guy, part of an incredibly sharp team at Red Hat!

Locked Channels

- I put it in an until loop, in case it times out (this happens occasionally).

root@molly:~

File Edit View Search Terminal Help

```
#!/bin/bash \
until spacewalk-clone-by-date \
-u acmeadmin \
-p redhat \
-y \
-s https://molly.tc.redhat.com/rpc/api \
-d 2009-09-02 \
-l rhel-x86_64-server-5 acme-rhel-x86_64-server-5.4 \
-l rhn-tools-rhel-x86_64-server-5 acme-rhn-tools-rhel-x86_64-server-5.4 \
-l rhel-x86_64-server-cluster-storage-5 acme-rhel-x86_64-server-cluster-storage-5.4 \
-l rhel-x86_64-server-cluster-5 acme-rhel-x86_64-server-cluster-5.4 \
-l rhel-x86_64-server-productivity-5 acme-rhel-x86_64-server-productivity-5.4 \
-l rhel-x86_64-server-supplementary-5 acme-rhel-x86_64-server-supplementary-5.4 \
-l rhel-x86_64-server-vt-5 acme-rhel-x86_64-server-vt-5.4; do
sleep 1
done
~
~
~
~
~
~
-- INSERT --
```

```
root@molly:~
File  Edit  View  Search  Terminal  Help
  rhel-x86_64-server-vt-5 -> acme-rhel-x86_64-server-vt-5.4  (36/123 Errata)
  rhel-x86_64-server-supplementary-5 -> acme-rhel-x86_64-server-supplementary-5.4  (81
/191 Errata)
  rhel-x86_64-server-cluster-5 -> acme-rhel-x86_64-server-cluster-5.4  (27/64 Errata)
Cloning Errata into acme-rhel-x86_64-server-productivity-5.4 (21):

######################################### - complete
Cloning Errata into acme-rhel-x86_64-server-vt-5.4 (36):

######################################### - complete
Cloning Errata into acme-rhel-x86_64-server-supplementary-5.4 (81):

######################################### - complete
Cloning Errata into acme-rhel-x86_64-server-cluster-5.4 (27):

######################################### - complete
Copying repodata, please wait.
Solving Dependencies (918):

######################################### - complete
Processing Dependencies:

######################################### - complete
[root@molly ~]#
```

RHN Satellite – Channels – Software Channels – All Channels – All Channels – Mozilla Firefox

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RED HAT NETWORK SATELLITE

Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

NO SYSTEMS SELECTED MANAGE CLEAR

- Software Channels
  - All Channels
  - Red Hat Channels
  - Popular Channels
  - My Channels
  - Shared Channels
  - Retired Channels
- Package Search
- Manage Software Channels

Full Software Channel List

All Channels | Red Hat Channels | Popular Channels | My Channels | Shared Channels | Retired Channels

The software channels listed below are **all of the channels** that your organization has access to.

Filter by Channel Name: Go

Show All Child Channels | Hide All Child Channels

Channel Name	Provider	Packages	Systems
acme-rhel-x86_64-server-5.4	Acme Widget IT	7440	0
acme-rhel-x86_64-server-cluster-5.4	Acme Widget IT	118	0
acme-rhel-x86_64-server-cluster-storage-5.4	Acme Widget IT	146	0
acme-rhel-x86_64-server-productivity-5.4	Acme Widget IT	1182	0
acme-rhel-x86_64-server-supplementary-5.4	Acme Widget IT	541	0
acme-rhel-x86_64-server-vt-5.4	Acme Widget IT	204	0
acme-rhn-tools-rhel-x86_64-server-5.4	Acme Widget IT	230	0
Red Hat Enterprise Linux (v. 5 for 64-bit x86_64)	Red Hat, Inc.	13732	0
Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Red Hat, Inc.	7248	0

root@molly:~

File Edit View Search Terminal Help

```
[root@molly ~]# tail -17 go
until spacewalk-clone-by-date \
-u acmeadmin \
-p redhat \
-y \
-s https://molly.tc.redhat.com/rpc/api \
-d 2011-12-06 \
-l rhel-x86_64-server-6 acme-rhel-x86_64-server-6.2 \
-l rhel-x86_64-server-ha-6 acme-rhel-x86_64-server-ha-6.2 \
-l rhel-x86_64-server-hpn-6 acme-rhel-x86_64-server-hpn-6.2 \
-l rhel-x86_64-server-lb-6 acme-rhel-x86_64-server-lb-6.2 \
-l rhel-x86_64-server-optional-6 acme-rhel-x86_64-server-optional-6.2 \
-l rhel-x86_64-server-rs-6 acme-rhel-x86_64-server-rs-6.2 \
-l rhel-x86_64-server-sfs-6 acme-rhel-x86_64-server-sfs-6.2 \
-l rhel-x86_64-server-supplementary-6 acme-rhel-x86_64-server-supplementary-6 \
-l rhn-tools-rhel-x86_64-server-6 acme-rhn-tools-rhel-x86_64-server-6.2; do
sleep 1
done
[root@molly ~]#
```

```
root@molly:~
File  Edit  View  Search  Terminal  Help
########################################### - complete
Cloning Errata into acme-rhel-x86_64-server-ha-6.2 (38):

___________________________________________
########################################### - complete
Cloning Errata into acme-rhel-x86_64-server-optional-6.2 (421):

___________________________________________
########################################### - complete
Cloning Errata into acme-rhel-x86_64-server-supplementary-6 (34):

___________________________________________
########################################### - complete
Cloning Errata into acme-rhel-x86_64-server-sfs-6.2 (1):

___________________________________________
########################################### - complete
Cloning Errata into acme-rhel-x86_64-server-lb-6.2 (1):

___________________________________________
########################################### - complete
Copying repodata, please wait.
Solving Dependencies (5217):

___________________________________________
########################################### - complete
Processing Dependencies:

___________________________________________
########################################### - complete
[root@molly ~]#
```

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- Software Channels
  - All Channels
  - Red Hat Channels
  - Popular Channels
  - My Channels
  - Shared Channels
  - Retired Channels
- Package Search
- Manage Software Channels

My Channels

All Channels | Red Hat Channels | Popular Channels | My Channels | Shared Channels | Retired Channels

The software channels listed below belong to your organization.

Filter by Channel Name: Go

Show All Child Channels | Hide All Child Channels

Channel Name	Packages	Systems
acme-rhel-x86_64-server-5.4	7440	0
acme-rhel-x86_64-server-cluster-5.4	118	0
acme-rhel-x86_64-server-cluster-storage-5.4	146	0
acme-rhel-x86_64-server-productivity-5.4	1182	0
acme-rhel-x86_64-server-supplementary-5.4	541	0
acme-rhel-x86_64-server-vt-5.4	204	0
acme-rhn-tools-rhel-x86_64-server-5.4	230	0
acme-rhel-x86_64-server-6.2	6655	0
acme-rhel-x86_64-server-ha-6.2	138	0
acme-rhel-x86_64-server-hpn-6.2	18	0
acme-rhel-x86_64-server-lb-6.2	3	0
acme-rhel-x86_64-server-optional-6.2	4141	0
acme-rhel-x86_64-server-rs-6.2	159	0
acme-rhel-x86_64-server-sfs-6.2	13	0
acme-rhel-x86_64-server-supplementary-6	166	0
acme-rhn-tools-rhel-x86_64-server-6.2	54	0

Be Patient! 3rd party app deployment next!

Internally Developed/Third Party Apps

- For a session on how to create internally developed packages and create packages out of 3rd party COTS software, come to part 2 of this presentation in this room after lunch.

Internally Developed/Third Party Apps

- Two components to creating custom channels
  - Web UI
  - Command line

Internally Developed/Third Party Apps

- Web UI
  - Choose the parent channel, if any
    - Note that for apps and such, you do need to make your custom channel a child channel. I recommend you make it a child channel of a Red Hat-provided channel and then clone it to be a child of your cloned parent channels.
  - In this example, I will be creating a child channel for a “hello” application.

RHN Satellite – Channels – Manage Software Channels – Mozilla Firefox

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RED HAT NETWORK SATELLITE

Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

NO SYSTEMS SELECTED MANAGE CLEAR

- Software Channels
- Package Search
- Manage Software Channels
  - Manage Software Packages
  - Manage Repositories

Software Channel Management

create new channel clone channel

The following software channels are owned by your organization.

Modify an existing software channel by selecting it from the list below, or create a new software channel.

Filter by Channel Name: Go Display 25 items per page 1 - 16 of 16

Channel Name	Packages
acme-rhel-x86_64-server-5.4	7440
└ acme-rhel-x86_64-server-cluster-5.4	118
└ acme-rhel-x86_64-server-cluster-storage-5.4	146
└ acme-rhel-x86_64-server-productivity-5.4	1182
└ acme-rhel-x86_64-server-supplementary-5.4	541
└ acme-rhel-x86_64-server-vt-5.4	204
└ acme-rhn-tools-rhel-x86_64-server-5.4	230
acme-rhel-x86_64-server-6.2	6655
└ acme-rhel-x86_64-server-ha-6.2	138
└ acme-rhel-x86_64-server-hpn-6.2	18
rver-lb-6.2	3

https://molly.tc.redhat.com/rhn/channels/manage/Edit.do

RHN Satellite – Channels – Manage Software Channels – Details – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Channels - Ma...

redhat.com https://molly.tc.redhat.com/rhn/channels/manage/Edit.do

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RED HAT NETWORK SATELLITE

Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

No systems selected Manage Clear

- Software Channels
- Package Search
- Manage Software Channels
  - Manage Software Packages
  - Manage Repositories

Create Software Channel

Details

Basic Channel Details

Create or edit software channels from this page.

If the parent channel is set to 'none', the channel is a base channel. Otherwise, the channel is a child of the specified channel.

Channel name and label are required. They each must be at least 6 characters in length. Labels must begin with a letter, contain only lowercase letters, hyphens ('-'), periods ('.'), underscores ('_'), and numerals. Channel name may also contain spaces and forward slashes ('/').

Channel summary is also required.

Channel Name*:	Hello World
Channel Label*:	hello-world
Parent Channel:	Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)
Parent Channel Architecture:	x86_64

RHN Satellite – Channels – Manage Software Channels – Details – Mozilla Firefox

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Parent Channel Architecture:	x86_64
Yum Repository Checksum Type:	sha1 **Tip:** sha1 offers the widest compatibility with clients. sha-256 offers higher security, but is compatible only with newer clients: Fedora 11 and newer, or Enterprise Linux 6 and newer.
Channel Summary*:	Hello, world application
Channel Description:	Hello world for Acme

Contact/Support Information

Maintainer Name:	Thomas Cameron
Maintainer Contact Information:	Email Address: thomas@redhat.com Phone Number: 512-585-5631
Support Policy:	None

Channel Access Control

Per User Subscription Restrictions:

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Channel Access Control

Per-User Subscription Restrictions:

- (●) All users within your organization may subscribe to this channel.
- ( ) Only selected users within your organization may subscribe to this channel.

Organization Sharing

- (●) This channel is **private** and cannot be accessed by any other organization.
- ( ) This channel is **protected** and may only be accessed by specific trusted organizations.
- ( ) This channel is **public** and may be accessed by any of the trusted organizations trusted by this organization.

Security: GPG

GPG key URL:

GPG key ID:

Ex: DB42A60E

GPG key Fingerprint:

Ex: CA20 8686 2BD6 9DFC 65F6 ECC4 2191 80CD DB42 A60E

Create Channel

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RED HAT NETWORK SATELLITE

Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

NO SYSTEMS SELECTED MANAGE CLEAR

- Software Channels
- Package Search
- Manage Software Channels
  - Manage Software Packages
  - Manage Repositories

Channel **Hello World** created.

Hello World

delete software channel

Details Managers Errata Packages Repositories

Basic Channel Details

Create or edit software channels from this page.

If the parent channel is set to 'none', the channel is a base channel. Otherwise, the channel is a child of the specified channel.

Channel name and label are required. They each must be at least 6 characters in length. Labels must begin with a letter, contain only lowercase letters, hyphens ('-'), periods ('.'), underscores ('_'), and numerals. Channel name may also contain spaces and forward slashes ('/').

Channel summary is also required.

Channel Name*:	Hello World
Channel Label*:	hello-world
Parent Channel:	Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)
Parent Channel Architecture:	x86_64

RHN Satellite – Channels – Software Channels – All Channels – All Channels – Mozilla Firefox

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RED HAT NETWORK SATELLITE

Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

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- Software Channels
  - All Channels
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  - My Channels
  - Shared Channels
  - Retired Channels
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Full Software Channel List

All Channels | Red Hat Channels | Popular Channels | My Channels | Shared Channels | Retired Channels

The software channels listed below are **all of the channels** that your organization has access to.

Filter by Channel Name: Go

Show All Child Channels | Hide All Child Channels

Channel Name	Provider	Packages	Systems
acme-rhel-x86_64-server-5.4	Acme Widget IT	7440	0
acme-rhel-x86_64-server-6.2	Acme Widget IT	6655	0
Red Hat Enterprise Linux (v. 5 for 64-bit x86_64)	Red Hat, Inc.	13732	0
Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Red Hat, Inc.	7248	0
Hello World	Acme Widget IT	0	0
RHEL Server High Availability (v. 6 for 64-bit x86_64)	Red Hat, Inc.	158	0
RHEL Server High Performance Networking (v. 6 for x86_64)	Red Hat, Inc.	18	0
RHEL Server Load Balancer (v. 6 for 64-bit x86_64)	Red Hat, Inc.	3	0
RHEL Server Optional (v. 6 64-bit x86_64)	Red Hat, Inc.	4551	0
RHEL Server Resilient Storage (v. 6 for 64-bit x86_64)	Red Hat, Inc.	180	0
RHEL Server Scalable File System (v. 6 for x86_64)	Red Hat, Inc.	13	0

Internally Developed/Third Party Apps

- Command line
  - For security purposes, packages must be GPG signed before you upload
  - Please come to the second part of this presentation in the next hour for full details on setting up GPG

Internally Developed/Third Party Apps

- Sign your package

rpmadmin@molly:~

File Edit View Search Terminal Help

```
[rpmadmin@molly ~]$ rpm --resign hello-1.0-0.x86_64.rpm
Enter pass phrase:
Pass phrase is good.
hello-1.0-0.x86_64.rpm:
[rpmadmin@molly ~]$ rpm -v --checksig hello-1.0-0.x86_64.rpm
hello-1.0-0.x86_64.rpm:
    Header V4 RSA/SHA1 Signature, key ID cd756a2b: OK
    Header SHA1 digest: OK (a6b00377f9e04010106af346c9f5e57f472cc6cc)
    V4 RSA/SHA1 Signature, key ID cd756a2b: OK
    MD5 digest: OK (984da11d918ae4031aa37d58a4d91dc2)
[rpmadmin@molly ~]$
```

Internally Developed/Third Party Apps

- Make sure the `rhnpush` package from the RHN Tools channel is installed

Internally Developed/Third Party Apps

- Upload the package using `rhnpush`:

rpmadmin@molly:~

File Edit View Search Terminal Help

```
[rpmadmin@molly ~]$ rhnpush hello-1.0-0.x86_64.rpm --server=https://molly.tc.red
hat.com/APP -u acmeadmin -p redhat -c hello-world
[rpmadmin@molly ~]$
```

RHN Satellite – Channels – Software Channels – My Channels – My Channels – Mozilla Firefox

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RHN Satellite - Channels - Sof...

redhat.com https://molly.tc.redhat.com/rhn/software/channels/Custom.do?

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RED HAT NETWORK SATELLITE

Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

No systems selected Manage Clear

- Software Channels
  - All Channels
  - Red Hat Channels
  - Popular Channels
  - My Channels
  - Shared Channels
  - Retired Channels
- Package Search
- Manage Software Channels

My Channels

All Channels | Red Hat Channels | Popular Channels | My Channels | Shared Channels | Retired Channels

The software channels listed below belong to your organization.

Filter by Channel Name: Go

Show All Child Channels | Hide All Child Channels

Channel Name	Packages	Systems
acme-rhel-x86_64-server-5.4	7440	0
acme-rhel-x86_64-server-6.2	6655	0
Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	7248	0
Hello World	1	0

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redhat.com https://molly.tc.redhat.com/rhn/channels/ChannelPackages.do?cid=180

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Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

NO SYSTEMS SELECTED MANAGE CLEAR

- Software Channels
  - All Channels
  - Red Hat Channels
  - Popular Channels
  - My Channels
  - Shared Channels
  - Retired Channels
- Package Search
- Manage Software Channels

Hello World

Details Managers Errata Packages Subscribed Systems Target Systems

Packages

This channel contains the following packages:

0 1 2 3 4 5 6 7 8 9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Filter by Package Name: Go Display 25 items per page 1 - 1 of 1

Package	Summary	Content Provider
hello-1.0-0.x86_64	Classic "hello, world" c program	Unknown

1 - 1 of 1

Download CSV

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Internally Developed/Third Party Apps

- Import the GPG key into the Satellite Server for future kickstarts

RHN Satellite – Systems – Kickstart – GPG and SSL Keys – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Systems - Kick...

redhat.com https://molly.tc.redhat.com/rhn/keys/CryptoKeysList.do

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RED HAT NETWORK SATELLITE

Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

No systems selected Manage Clear

- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart
  - Profiles
  - Bare Metal
  - GPG and SSL Keys
  - Distributions
  - File Preservation
  - Kickstart Snippets

GPG Public Keys and SSL Certificates

create new stored key/cert

You can refer to these keys and/or certificates in your kickstart profiles in order to install those keys/certificates on systems during a kickstart. A system will need the correct keys to install signed packages, and correct certificate to be kickstarted by an RHN Satellite Proxy Server or RHN Satellite Server. For more information, see the RHN Reference Guide

0 1 2 3 4 5 6 7 8 9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Display 25 items per page 1 - 1 of 1

Description	Type
RHN-ORG-TRUSTED-SSL-CERT	SSL

1 - 1 of 1

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https://molly.tc.redhat.com/rhn/keys/CryptoKeyCreate.do

RHN Satellite – Systems – Kickstart – GPG and SSL Keys – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Systems - Kick...

redhat.com https://molly.tc.redhat.com/rhn/keys/CryptoKeyCreate.do

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Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

NO SYSTEMS SELECTED MANAGE CLEAR

- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart
  - Profiles
  - Bare Metal
  - GPG and SSL Keys
  - Distributions
  - File Preservation
  - Kickstart Snippets

Create GPG/SSL Key

Please enter the information for your key in the form provided below. Entries marked with an (*) are **required** and must be unique.

Create Key

Description*	Acme GPG Key
Type	GPG
Select file to upload: *	:ron/Desktop/ACME-PUBKEY Browse...
Key contents:	**Neither a GPG or SSL Certificate is currently attached to this cryptokey. Please attach a GPG key or SSL Certificate to this crypto key using the form above.**

Create Key

RHN Satellite – Systems – Kickstart – GPG and SSL Keys – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Systems - Kick...

redhat.com https://molly.tc.redhat.com/rhn/keys/CryptoKeysList.do

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Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

NO SYSTEMS SELECTED MANAGE CLEAR

- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart
  - Profiles
  - Bare Metal
  - GPG and SSL Keys
  - Distributions
  - File Preservation
  - Kickstart Snippets

Key updated.

GPG Public Keys and SSL Certificates

create new stored key/cert

You can refer to these keys and/or certificates in your kickstart profiles in order to install those keys/certificates on systems during a kickstart. A system will need the correct keys to install signed packages, and correct certificate to be kickstarted by an RHN Satellite Proxy Server or RHN Satellite Server. For more information, see the RHN Reference Guide

0 1 2 3 4 5 6 7 8 9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Display 25 items per page 1 - 2 of 2

Description	Type
Acme GPG Key	GPG
RHN-ORG-TRUSTED-SSL-CERT	SSL

1 - 2 of 2

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RHN Satellite – Systems – Kickstart – GPG and SSL Keys – Mozilla Firefox

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RHN Satellite - Systems - Kick...

redhat.com https://molly.tc.redhat.com/rhn/keys/CryptoKeyEdit.do?key_id=23

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- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart
  - Profiles
  - Bare Metal
  - GPG and SSL Keys
  - Distributions
  - File Preservation
  - Kickstart Snippets

Edit GPG/SSL Key

delete key

Please enter the information for your key in the form provided below. Entries marked with an (*) are **required** and must be unique.

Edit Key

Description* Acme GPG Key

Type GPG

Select file to upload: * Browse...

Key contents:


```
-----BEGIN PGP PUBLIC KEY BLOCK-----
Version: GnuPG v2.0.14 (GNU/Linux)

mQENBE/VMxsBCADgkXE0kSBPoNgNWV9OB7jdoZdPgOO+wybcV5pcU3suhhzdm/x7
2eL9PNbO73qPmHhdkJLxhgCdwWewvIKNFdz0WicFdrwZd0hV64GqQWJ63lgI07BZ
4SP/B4yNoMax5ZtqdNSYM36O7g6nYOGYszSGF0cOlsMJrJEs0f5ysGBG22WPBuX1
r0UtnhFpnv6uZZll6ifdQj78DChAiVX5tB+UPDKzyC0pBLY1JtdnlCDPMY9dfhSm
XPCH675QEmT9IJLc+pCkN4r96PdQl+LqlVu/DY5o7mipYi4J/tw5o6QlT33PVA/Z
cZxJnum+kzxBNB9miiUa3knkhUZelrglWffjABEBAAG0H1JQTSBBZG1pbiA8cnBt
YWRtaW5AcmVkaGF0LmNvbT6JATgEEwECACIFAk/VMxsCGwMGCwkIBwMCBhUIAgkK
CwQWAgMBAh4BAheAAAoJEKTOrF3NdWoro20H/2ruky0XJbmHFjL1MzYxd6ulRkSz
1ZzOgxFDjp9SFXrkPVhh2UsVDxFfge9jLa9mnqLuF19yE8/JlSjoY2KL2+UAPnaY
eX2hUlwsWgeaKPbJ8iJmkDNc5CB8kAonxvonw4qwaeksWI+oPQvW0dmTY08tquV/
ZQUoQM+Lb7riGi0CyUmgD4aNjR11MuYuaQZSTccYeeilF9rPoRnONlIfGVliNfLP
zE7NxfSkJtHfc2YXPpQbKwNfXRJHRX9U8qIUnPXDvV35o0z3IUruxIjMxEdP2c7A
YoLx6hNd85P5o0nb58jjEtJFVgXQZqS268aeKF8VUVVK8PM+h562ch0aCW+5AQ0E
T9UzGwEIAMRHBFqZN5Lnbwndx9iZ3XWBVaTnuwF90dnp1iK+UnWZYZlc02qjGVQR
mrTC51BM0ytSXRwcAKE9CmIlBJIdly1d24KAGHn7MoKHdzYzHKCYUommacPYyByc
v/HcVejXe4Ve11RE5iirUe6rfINCzu6NRzneIpv/2YIedz0cCu3iNAnsMhrg+QBo
GK6XuDN9Peq79FqQeKjuzEmES10zWygjz91gC2sQDjK1QOAzxgkStLybh1I1Beij
ZVJGjj9aBohRUnrTnpaGOMQ787MjUi8erhYfvdcmw6DV8lOyWHL151aD4If5Aela
uZJ30I2LiFeGorGyyrQwvF0faniNcE8AEQEAAYkBHwQYAQIACQUCT9UzGwIbDAAK
```


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Internally Developed/Third Party Apps

- Copy the GPG key into `/var/www/html/pub` the Satellite Server so that existing servers can access it using:
  - `rpm --import http://[server]/pub/[key]`

root@molly:~

File Edit View Search Terminal Help

```
[root@molly ~]# cp /home/rpmadmin/ACME-PUBKEY /var/www/html/pub/
[root@molly ~]#
```

Mozilla Firefox

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https://molly....b/ACME-PUBKEY

redhat.com https://molly.tc.redhat.com/pub/ACME-PUBKEY

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```
-----BEGIN PGP PUBLIC KEY BLOCK-----
Version: GnuPG v2.0.14 (GNU/Linux)

mQENBE/VMxsBCADgkXE0kSBPoNgNWV9OB7jdoZdPgOO+wybcV5pcU3suhhzdm/x7
2eL9PNbO73qPmHhdkJLxhgCdwWewvIKNFdz0WicFdrwZd0hV64GqQWJ63lgI07BZ
4SP/B4yNoMax5ZtqdNSYM3607g6nYOGYszSGF0cOlsMJrJEs0f5ysGBG22WPBuX1
r0UtnhFpnv6uZZll6ifdQj78DChAiVX5tB+UPDKzyC0pBLY1JtdnlCDPMY9dfhSm
XPCH675QEmT9IJLc+pCkN4r96PdQl+LqlVu/DY5o7mipYi4J/tw5o6QlT33PVA/Z
cZxJnum+kzxBNB9miiUa3knkhUZelrglWffjABEBAAG0H1JQTSBBZG1pbiA8cnBt
YWRtaW5AcmVkaGF0LmNvbT6JATgEEwECACIFAk/VMxsCGwMGCwkIBwMCBhUIAgkK
CwQWAgMBAh4BAheAAAoJEKTOrF3NdWoro20H/2rukyOXJbmHFjL1MzYxd6ulRkSz
1ZzOgxFDjp9SFXrkPVhh2UsVDxFfge9jLa9mnqLuF19yE8/JlSjoY2KL2+UAPnaY
eX2hUlwsWgeaKPbJ8iJmkDNc5CB8kAonxvonw4qwaeksWI+oPQvW0dmTY08tquV/
ZQUoQM+Lb7riGi0CyUmgD4aNjR11MuYuaQZSTccYeeilF9rPoRnONlIfGVliNfLP
zE7NxfSkJtHfc2YXPpQbKwNfXRJHRX9U8qIUnPXDvV35o0z3IUruxIjMxEdP2c7A
YoLx6hNd85P5o0nb58jjEtJFVgXQZqS268aeKF8VUVVK8PM+h562ch0aCW+5AQ0E
T9UzGwEIAMRHBFqZN5Lnbwndx9iZ3XWBVaTnuwF90dnp1iK+UnWZYZlc02qjGVQR
mrTC51BM0ytSXRwcAKE9CmIlBJIdly1d24KAGHn7MoKHdzYzHKCYUommacPYyByc
v/HcVejXe4VellRE5iirUe6rfINCzu6NRzneIpv/2YIedz0cCu3iNAnsMhrg+QBo
GK6XuDN9Peq79FqQeKjuzEmES10zWygjz91gC2sQDjK1QOAzxgkStLybh1I1Beij
ZVJGjj9aBohRUnrTnpaGOMQ787MjUi8erhYfvdcmw6DV8l0yWHL151aD4If5Aela
uZJ30I2LiFeGorGyyrQwvF0faniNcE8AEQEAAYkBHwQYAQIACQUCT9UzGwIbDAAK
CRCkzqxdzXVqK/yiCADICaAQYY8mErhV0ddvYI/icd09px5Ek0LxuXjnw/NyvLwE
j85yQm/grIyorIPZxcVkHNmCzkPxTIVOVdIDFT5JrkWxMo3OXbRSk/akUJ0J+/rd
HaXmEHqOlCJErCokRRAv6JZkSWqeWiRBrUY5hnxKS0SNnq6oHs4Dh8kkejl4JItn
8RLiDBEmFgNl+6S24HdN6IoEJOLae2ngr0Yv0mNH2rD3W0sBxJyRtjD9Ru+6fy6P
zsJjSuk6892TreD7GxBLwuVlreHpfIK89aR656QYsNbPfW5Yo7EMs3N03467XHA/
czzbQkJe3tUSatQMzhZVQ5hutLHxs3a+kSEobEqM
=4RqQ
-----END PGP PUBLIC KEY BLOCK-----
```

Be Patient! Activation keys are next!

Activation Keys

- Without activation keys, you'd have to register a system to the Satellite server by passing a username and password to `rhn_register` or `rhnreg_ks`.
  - From command line means not automated
  - Scripted means insecure
  - Only registers to base channel
  - Doesn't join any system groups
  - Doesn't register to config channels
  - Doesn't auto-deploy packages

Activation Keys

- With activation keys, you can specify that when a server registers, it also subscribes to specified base and child channels, config channels, joins groups, even installs additional packages.

RHN Satellite – Systems – Activation Keys – Mozilla Firefox

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redhat.com https://molly.tc.redhat.com/rhn/activationkeys/List.do

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RED HAT NETWORK SATELLITE

Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

NO SYSTEMS SELECTED MANAGE CLEAR

- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart

Activation Keys

create new key

Activation Keys are used to register systems. Systems registered with an activation key will inherit the characteristics defined by that key.

Universal Default

If a universal default activation key is set for your organization, then systems registered to your organization will inherit the properties of that key by default without the need to explicitly specify that key during registration.

You do not currently have a universal default activation key set. To set a key as the universal default, please visit the details page of that key and check off the 'Universal Default?' checkbox.

All Activation Keys

The following activation keys have been created for use by your organization.

Description	Key	Usage
No activation keys available		

*Tip: This key is your organization's universal default activation key.

RHN Satellite – Systems – Activation Keys – Mozilla Firefox

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Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

NO SYSTEMS SELECTED MANAGE CLEAR

- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart

Create Activation Key

Activation Key Details

Systems registered with this activation key will inherit the settings listed below.

Description Master Key

Tip: Use this to describe what kind of settings this key will reflect on systems that use it. If left blank, this field will be filled in '**None**'.

Key: 3- master-key

Tip: Leave blank for automatic key generation. Note that the prefix is an indication of the RHN Satellite organization the key is associated with.

Usage:

Tip: Leave blank for unlimited use.

Base Channels: RHN Satellite Default

Tip: Choose "**RHN Satellite Default**" to allow systems to register to the default Red Hat provided channel that corresponds to their installed version of Red Hat Enterprise Linux. You may also choose particular Red Hat provided channels or custom base channels here, but please note if a system using this key is not compatible with the selected channel, it will fall back to its Red Hat default channel.

RHN Satellite – Systems – Activation Keys – Mozilla Firefox

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RHN Satellite - Systems - Activ...

redhat.com https://molly.tc.redhat.com/rhn/activationkeys/Create.do

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Tip: Leave blank for automatic key generation. Note that the prefix is an indication of the RHN Satellite organization the key is associated with.

Usage:

Tip: Leave blank for unlimited use.

Base Channels: RHN Satellite Default

Tip: Choose "**RHN Satellite Default**" to allow systems to register to the default Red Hat provided channel that corresponds to their installed version of Red Hat Enterprise Linux. You may also choose particular Red Hat provided channels or custom base channels here, but please note if a system using this key is not compatible with the selected channel, it will fall back to its Red Hat default channel.

Add-On Entitlements:

- [x] Monitoring
- [x] Provisioning
- [x] Virtualization
- [ ] Virtualization Platform

Universal Default:

Tip: Only one universal default activation key may be set for this organization. By setting this key as universal default, you will remove universal default status from the current universal default key if it exists. If this key is set as universal default, then newly-registered systems to your organization will inherit the properties of this key.

Create Activation Key

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redhat.com https://molly.tc.redhat.com/rhn/activationkeys/Edit.do?tid=3

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Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

NO SYSTEMS SELECTED MANAGE CLEAR

- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart

Activation key **Master Key** has been created.

Master Key

delete key

Details | Child Channels | Packages | Configuration | Groups | Activated Systems

Activation Key Details

Systems registered with this activation key will inherit the settings listed below.

Description Master Key

Tip: Use this to describe what kind of settings this key will reflect on systems that use it. If left blank, this field will be filled in '**None**'.

Key: 3- master-key

Tip: Leave blank for automatic key generation. Note that the prefix is an indication of the RHN Satellite organization the key is associated with.

Usage:

Tip: Leave blank for unlimited use.

RHN Satellite – Systems – Activation Keys – Details – Mozilla Firefox

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RHN Satellite - Systems - Activ...

redhat.com https://molly.tc.redhat.com/rhn/activationkeys/Edit.do?tid=3

Google

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Usage:

Tip: Leave blank for unlimited use.

Base Channels: RHN Satellite Default

Tip: Choose "**RHN Satellite Default**" to allow systems to register to the default Red Hat provided channel that corresponds to their installed version of Red Hat Enterprise Linux. You may also choose particular Red Hat provided channels or custom base channels here, but please note if a system using this key is not compatible with the selected channel, it will fall back to its Red Hat default channel.

Add-On Entitlements:

- [x] Monitoring
- [x] Provisioning
- [x] Virtualization
- [ ] Virtualization Platform

Configuration File Deployment: [x]

Tip: Deploy configuration files to systems when they are registered with this activation key.

Universal Default: [ ]

Tip: Only one universal default activation key may be set for this organization. By setting this key as universal default, you will remove universal default status from the current universal default key if it exists. If this key is set as universal default, then newly-registered systems to your organization will inherit the properties of this key.

Update Activation Key

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RHN Satellite – Systems – Activation Keys – Child Channels – Mozilla Firefox

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redhat.com https://molly.tc.redhat.com/network/account/activation_keys/child_channels.pxt?tid=3

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Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

NO SYSTEMS SELECTED MANAGE CLEAR

- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart

Master Key

delete key

Details | Child Channels | Packages | Configuration | Groups | Activated Systems

Any system registered using this activation key will be subscribed to the selected child channels.

Red Hat Enterprise Linux (v. 5 for 64-bit x86_64)

- Red Hat Network Tools for RHEL Server (v.5 64-bit x86_64)
- RHEL Cluster-Storage (v. 5 for 64-bit x86_64)
- RHEL Clustering (v. 5 for 64-bit x86_64)
- RHEL Optional Productivity Apps (v. 5 for 64-bit x86_64)
- RHEL Supplementary (v. 5 for 64-bit x86_64)

Update Key

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Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

NO SYSTEMS SELECTED MANAGE CLEAR

- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart

Master Key

delete key

Details | Child Channels | Packages | Configuration | Groups | Activated Systems

Any system registered using this activation key will be subscribed to the selected child channels.

- RHEL Cluster-Storage (v. 5 for 64-bit x86_64)
- RHEL Clustering (v. 5 for 64-bit x86_64)
- RHEL Optional Productivity Apps (v. 5 for 64-bit x86_64)
- RHEL Supplementary (v. 5 for 64-bit x86_64)
- RHEL Virtualization (v. 5 for 64-bit x86_64)
- Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)

Update Key

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Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

NO SYSTEMS SELECTED MANAGE CLEAR

- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart

Master Key

delete key

Details | Child Channels | Packages | Configuration | Groups | Activated Systems

Any system registered using this activation key will be subscribed to the selected child channels.

- RHEL Supplementary (v. 5 for 64-bit x86_64)
- RHEL Virtualization (v. 5 for 64-bit x86_64)
- ***Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)***
- Hello World
- RHEL Server High Availability (v. 6 for 64-bit x86_64)
- RHEL Server High Performance Networking (v. 6 for x86_64)

Update Key

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RHN Satellite – Systems – Activation Keys – Child Channels – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Systems - Activ...

redhat.com https://molly.tc.redhat.com/network/account/activation_keys/child_channels.pxt?tid=3

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Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

NO SYSTEMS SELECTED MANAGE CLEAR

- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart

Master Key

delete key

Details | Child Channels | Packages | Configuration | Groups | Activated Systems

Any system registered using this activation key will be subscribed to the selected child channels.

RHEL Server Resilient Storage (v. 6 for 64-bit x86_64)
RHEL Server Scalable File System (v. 6 for x86_64)
RHEL Server Supplementary (v. 6 64-bit x86_64)
RHN Tools for RHEL (v. 6 for 64-bit x86_64)
acme-rhel-x86_64-server-5.4
acme-rhel-x86_64-server-cluster-5.4
acme-rhel-x86_64-server-cluster-storage-5.4

Update Key

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redhat.com https://molly.tc.redhat.com/network/account/activation_keys/child_channels.pxt?tid=3

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Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

NO SYSTEMS SELECTED MANAGE CLEAR

- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart

Master Key

delete key

Details | Child Channels | Packages | Configuration | Groups | Activated Systems

Any system registered using this activation key will be subscribed to the selected child channels.

acme-rhel-x86_64-server-cluster-storage-5.4
acme-rhel-x86_64-server-productivity-5.4
acme-rhel-x86_64-server-supplementary-5.4
acme-rhel-x86_64-server-vt-5.4
acme-rhn-tools-rhel-x86_64-server-5.4
acme-rhel-x86_64-server-6.2
acme-rhel-x86_64-server-ha-6.2

Update Key

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RHN Satellite – Systems – Activation Keys – Packages – Mozilla Firefox

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RHN Satellite - Systems - Activ...

redhat.com https://molly.tc.redhat.com/rhn/activationkeys/packages/Packages.do?tid=3

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Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

No systems selected Manage Clear

- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart

Master Key

delete key

Details Child Channels Packages Configuration Groups Activated Systems

Any system registered with this activation key will have the packages listed below installed, if those packages are available. Package names may be listed as package name only or may include an extension to specify the desired architecture. There should only one package name included per line.

Enter package names below

```
rhn-virtualization-host
rhncfg
rhncfg-actions
rhncfg-client
osad
hello
```

Update Key

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RHN Satellite – Systems – Activation Keys – Configuration – Subscribe to Channels – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Systems - Activ...

redhat.com https://molly.tc.redhat.com/rhn/activationkeys/configuration/Subscribe.do?tid=3

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Overview | Systems | Errata | Channels | Configuration | Schedule | Users | Monitoring | Help

No systems selected Manage Clear

- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart

Master Key

delete key

Details | Child Channels | Packages | Configuration | Groups | Activated Systems

List/Unsubscribe from Channels | Subscribe to Channels | View/Modify Rankings

Configuration Channel Subscriptions

Step 1: Select Channels for Subscription.

Below is a list of configuration channels available to this activation key. To subscribe to a channel, check its checkbox. Make sure you click the "Continue" button when you are finished with your changes.

0 1 2 3 4 5 6 7 8 9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Filter by Channel Name: Go Display 25 items per page 1 - 1 of 1 (1 selected)

Channel Name	Files & Directories
Acme Config Channel	1 file

Update List Select All 1 - 1 of 1 (1 selected)

Continue

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RHN Satellite – Systems – Activation Keys – Groups – List / Leave – Mozilla Firefox

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redhat.com https://molly.tc.redhat.com/rhn/activationkeys/groups/List.do?tid=3

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Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

No systems selected Manage Clear

- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart

Master Key

delete key

Details Child Channels Packages Configuration Groups Activated Systems

List / Leave Join

System Groups

Below are all the system groups that have been added to this activation key. Any system registering with this activation key will be added to the selected system groups. To remove a system group membership, check its checkbox and make sure you click the "Leave Selected Groups" button when you are finished with your changes.

No System Groups. To add System Groups this activation key, please visit the Join tab.

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RHN Satellite - Systems - Activ...

redhat.com https://molly.tc.redhat.com/rhn/activationkeys/List.do

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Overview | Systems | Errata | Channels | Configuration | Schedule | Users | Monitoring | Help

No systems selected Manage Clear

- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart

Activation Keys

create new key

Activation Keys are used to register systems. Systems registered with an activation key will inherit the characteristics defined by that key.

Universal Default

If a universal default activation key is set for your organization, then systems registered to your organization will inherit the properties of that key by default without the need to explicitly specify that key during registration.

You do not currently have a universal default activation key set. To set a key as the universal default, please visit the details page of that key and check off the 'Universal Default?' checkbox.

All Activation Keys

The following activation keys have been created for use by your organization.

0 1 2 3 4 5 6 7 8 9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Filter by Description: Go

1 - 1 of 1 (1 selected)

Enabled?	Description	Key	Usage
☑	Master Key	3-master-key	0/(unlimited)

Update List | Select All | Unselect All

1 - 1 of 1 (1 selected)

*Tip: This key is your organization's universal default activation key.

Update Activation Keys

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Activation Keys

- Create keys however it makes sense in your environment. You can do location, role, production status, etc.

RHN Satellite – Systems – System Groups – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Systems - Syst...

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- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart

Create Activation Key

Activation Key Details

Systems registered with this activation key will inherit the settings listed below.

Description

Austin Key

Tip: Use this to describe what kind of settings this key will reflect on systems that use it. If left blank, this field will be filled in '**None**'.

Key:

3- austin-key

Tip: Leave blank for automatic key generation. Note that the prefix is an indication of the RHN Satellite organization the key is associated with.

Usage:

Tip: Leave blank for unlimited use.

Base Channels:

RHN Satellite Default

Tip: Choose "**RHN Satellite Default**" to allow systems to register to the default Red Hat provided channel that corresponds to their installed version of Red Hat Enterprise Linux. You may also choose particular Red Hat provided channels or custom base channels here, but please note if a system using this key is not compatible with the selected channel, it will fall back to its Red Hat default channel.

Add-On Entitlements:

- ☐ Monitoring
- ☐ Provisioning
- ☐ Virtualization
- ☐ Virtualization Platform

Universal Default:

☐

Tip: Only one universal default activation key may be set for this organization. By setting this key as universal default, you will remove universal default status from the current universal default key if it exists. If this key is set as universal default, then newly-registered systems to your organization will inherit the properties of this key.

RHN Satellite – Systems – Activation Keys – Groups – Join – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Systems - Activ...

redhat.com https://molly.tc.redhat.com/rhn/activationkeys/groups/Add.do?tid=4

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- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart

Austin Key

delete key

Details | Child Channels | Packages | Groups | Activated Systems

List / Leave | Join

System Group Membership

Below is a list of system groups available to this activation key. To join a system group, check its checkbox. Make sure you click the "Join Selected Groups" button when you are finished with your changes.

0 1 2 3 4 5 6 7 8 9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Filter by Group Name: Go

Display 25 items per page

1 - 9 of 9 (1 selected)

	Group Name
☑	Austin Servers
☐	Database Servers
☐	Dev Servers
☐	Mail Servers
☐	Prod Servers
☐	QA Servers
☐	Raleigh Servers
☐	Web Servers
☐	Westford Servers

Update List | Select All

1 - 9 of 9 (1 selected)

Join Selected Groups

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RHN Satellite – Systems – Activation Keys – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Systems - Activ...

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- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart

Create Activation Key

Activation Key Details

Systems registered with this activation key will inherit the settings listed below.

Description

Database Key

Tip: Use this to describe what kind of settings this key will reflect on systems that use it. If left blank, this field will be filled in '**None**'.

Key:

3- database-key

Tip: Leave blank for automatic key generation. Note that the prefix is an indication of the RHN Satellite organization the key is associated with.

Usage:

Tip: Leave blank for unlimited use.

Base Channels:

RHN Satellite Default

Tip: Choose "**RHN Satellite Default**" to allow systems to register to the default Red Hat provided channel that corresponds to their installed version of Red Hat Enterprise Linux. You may also choose particular Red Hat provided channels or custom base channels here, but please note if a system using this key is not compatible with the selected channel, it will fall back to its Red Hat default channel.

Add-On Entitlements:

- ☐ Monitoring
- ☐ Provisioning
- ☐ Virtualization
- ☐ Virtualization Platform

Universal Default:

☐

Tip: Only one universal default activation key may be set for this organization. By setting this key as universal default, you will remove universal default status from the current universal default key if it exists. If this key is set as universal default, then newly-registered systems to your organization will inherit the properties of this key.

RHN Satellite – Systems – Activation Keys – Groups – Join – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Systems - Activ...

redhat.com https://molly.tc.redhat.com/rhn/activationkeys/groups/Add.do?tid=5

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- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart

Database Key

delete key

Details | Child Channels | Packages | Groups | Activated Systems

List / Leave | Join

System Group Membership

Below is a list of system groups available to this activation key. To join a system group, check its checkbox. Make sure you click the "Join Selected Groups" button when you are finished with your changes.

0 1 2 3 4 5 6 7 8 9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Filter by Group Name: Go

Display 25 items per page

1 - 9 of 9 (1 selected)

	Group Name
☐	Austin Servers
☑	Database Servers
☐	Dev Servers
☐	Mail Servers
☐	Prod Servers
☐	QA Servers
☐	Raleigh Servers
☐	Web Servers
☐	Westford Servers

Update List | Select All

1 - 9 of 9 (1 selected)

Join Selected Groups

SUMMIT JBoss WORLD

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RHN Satellite – Systems – Activation Keys – Packages – Mozilla Firefox

File Edit View History Bookmarks Tools Help

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redhat.com https://molly.tc.redhat.com/rhn/activationkeys/packages/Packages.do?tid=5

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Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

NO SYSTEMS SELECTED MANAGE CLEAR

- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart

Database Key

delete key

Details Child Channels Packages Groups Activated Systems

Any system registered with this activation key will have the packages listed below installed, if those packages are available. Package names may be listed as package name only or may include an extension to specify the desired architecture. There should only one package name included per line.

Enter package names below

mysql-server

Update Key

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Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

NO SYSTEMS SELECTED MANAGE CLEAR

- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart

Web Key

delete key

Details Child Channels Packages Groups Activated Systems

Any system registered with this activation key will have the packages listed below installed, if those packages are available. Package names may be listed as package name only or may include an extension to specify the desired architecture. There should only one package name included per line.

Enter package names below

```
httpd
mod_auth_mysql
```

Update Key

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redhat.com https://molly.tc.redhat.com/rhn/activationkeys/packages/Packages.do?tid=7

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Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

No systems selected Manage Clear

- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart

Mail Key

delete key

Details | Child Channels | Packages | Groups | Activated Systems

Any system registered with this activation key will have the packages listed below installed, if those packages are available. Package names may be listed as package name only or may include an extension to specify the desired architecture. There should only one package name included per line.

Enter package names below

```
sendmail
sendmail-cf
```

Update Key

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redhat.com https://molly.tc.redhat.com/rhn/activationkeys/List.do

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- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart

Activation Keys

create new key

Activation Keys are used to register systems. Systems registered with an activation key will inherit the characteristics defined by that key.

Universal Default

If a universal default activation key is set for your organization, then systems registered to your organization will inherit the properties of that key by default without the need to explicitly specify that key during registration.

You do not currently have a universal default activation key set. To set a key as the universal default, please visit the details page of that key and check off the 'Universal Default?' checkbox.

All Activation Keys

The following activation keys have been created for use by your organization.

0 1 2 3 4 5 6 7 8 9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Filter by Description: Go

1 - 10 of 10 (10 selected)

Enabled?	Description	Key	Usage
☑	Austin Key	3-austin-key	0/(unlimited)
☑	Database Key	3-database-key	0/(unlimited)
☑	Dev Key	3-dev-key	0/(unlimited)
☑	Mail Key	3-mail-key	0/(unlimited)
☑	Master Key	3-master-key	0/(unlimited)
☑	Production Key	3-prod-key	0/(unlimited)
☑	QA Key	3-qa-key	0/(unlimited)
☑	Raleigh Key	3-raleigh-key	0/(unlimited)
☑	Web Key	3-web-key	0/(unlimited)
☑	Westford Key	3-westford-key	0/(unlimited)

Update List Select All Unselect All

1 - 10 of 10 (10 selected)

Your Patience Is Rewarded!

Kickstart Profiles

- As I indicated, the seemingly random steps we've defined so far (organizations, config channels, system groups, cloned channels, locked channels, custom content, activation keys) are going to all come together in the kickstart process.

Kickstart Profiles

- Kickstart is Red Hat's hands-free, automated installation process.

RHN Satellite – Systems – Kickstart – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Systems - Kick...

redhat.com https://molly.tc.redhat.com/rhn/kickstart/KickstartOverview.do

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Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

NO SYSTEMS SELECTED MANAGE CLEAR

- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart
  - Profiles
  - Bare Metal
  - GPG and SSL Keys
  - Distributions
  - File Preservation
  - Kickstart Snippets

Kickstart Overview

create new kickstart profile upload new kickstart file

Kickstart Summary

No kickstart profiles available

Kickstart Actions

View a List of Kickstart Profiles

Create a New Kickstart Profile

Upload a New Kickstart File

Systems Currently Kickstarting

Kickstarting Systems	Status	Last Change
There are no systems currently kickstarting		

Systems Scheduled to be Kickstarted

Kickstarting Systems	Status	Last Change
To schedule a kickstart, go the Systems tab above and select the system you would like the kickstart. From there, go to the system's Provisioning subtab.		

https://molly.tc.redhat.com/rhn/kickstart/CreateProfileWizard.do

RHN Satellite – Systems – Kickstart – Profiles – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Systems - Kick...

redhat.com https://molly.tc.redhat.com/rhn/kickstart/CreateProfileWizard.do

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Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

No systems selected Manage Clear

- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart
  - Profiles
  - Bare Metal
  - GPG and SSL Keys
  - Distributions
  - File Preservation
  - Kickstart Snippets

Step 1: Create Kickstart Profile

A kickstart file is a simple text file containing a list of items, each identified by a keyword, that answers the questions an installer needs in order to successfully install Red Hat Enterprise Linux. A kickstart profile includes a kickstart file, as well as other saved options such as the version of Red Hat Enterprise Linux to be installed and the location of the installation files.

Label*:	aus-web-dev-rhel6
Base Channel*:	Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)
Kickstartable Tree*:	ks-rhel-x86_64-server-6-6.2
Virtualization Type:	None

Next

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Kickstart Profiles

- If you are kickstarting remotely, you can use the next screen to specify a remote kickstart tree.

RHN Satellite – Systems – Kickstart – Profiles – Mozilla Firefox

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RHN Satellite - Systems - Kick...

redhat.com https://molly.tc.redhat.com/rhn/kickstart/CreateProfileWizard.do

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Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

No systems selected Manage Clear

- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart
  - Profiles
  - Bare Metal
  - GPG and SSL Keys
  - Distributions
  - File Preservation
  - Kickstart Snippets

Step 2: Distribution File Location

In order to install Red Hat Enterprise Linux during kickstart, the Red Hat Enterprise Linux installation files must be available to the kickstarting system via network connection. You can make these available either via http or ftp.

Default Download Location:	◉ /ks/dist/ks-rhel-x86_64-server-6-6.2
Custom Download Location:	○

Previous Next

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RED HAT NETWORK SATELLITE

Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

NO SYSTEMS SELECTED MANAGE CLEAR

- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart
  - Profiles
  - Bare Metal
  - GPG and SSL Keys
  - Distributions
  - File Preservation
  - Kickstart Snippets

Step 3: Root Password

The kickstart profile will need to have a root password for the system(s) to be kickstarted in order to complete the kickstart process.

New Root Password*: ••••••

Verify New Root Password*: ••••••

Previous Finish

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RHN Satellite – Systems – Kickstart – Profiles – Kickstart Details – Details – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Systems - Kick...

redhat.com https://molly.tc.redhat.com/rhn/kickstart/KickstartDetailsEdit.do?ksid=2

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- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart
  - Profiles
  - Bare Metal
  - GPG and SSL Keys
  - Distributions
  - File Preservation
  - Kickstart Snippets

Kickstart: aus-web-dev-rhel6

clone kickstart delete kickstart

Kickstart Details | System Details | Software | Activation Keys | Scripts | Kickstart File

Details | Operating System | Variables | Advanced Options | Bare Metal Kickstart

Kickstart Details

This kickstart profile may be edited using the form provided below. Entries marked with an asterisk (*) are required.

Kickstart Label*:	aus-web-dev-rhel6 **Tip:** The label field should not be easily guessable, since it could be used to expose information about this kickstart profile to a 3rd party.
Operating System:	**Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)** (Change)
Virtualization Type:	None **NOTE:** Changing the Virtualization Type may require changes to the kickstart profile's bootloader and partition options, potentially overwriting user customizations. Please visit the Partitioning tab to verify the new settings.
Active:	☑ You cannot kickstart a system registered to RHN Satellite using an inactive kickstart profile. However, the kickstart files for inactive kickstart profiles are still available for manual download and may be used for bare metal kickstarts.
Log custom post scripts:	☑ If selected, all output of custom post scripts will be logged to /root/ks-post.log.
Log custom pre scripts:	☑ If selected, all output of pre scripts will be logged to /root/ks-pre.log.
Preserve ks.cfg:	☑ If selected, ks.cfg and all %include fragments will be copied to /root.
Organization Default Profile:	☐ The Organization Default Profile setting can be used with manually-created or bare-metal kickstart files. Select this option to indicate which profile in your Organization is used when the URL from **this link** is specified in the ks= section of your kickstart file. The link will not work unless an Organization Default is specified.
Kernel Options	nomodeset

RHN Satellite – Systems – Kickstart – Profiles – Kickstart Details – Details – Mozilla Firefox

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RHN Satellite - Systems - Kick...

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Distributions
File Preservation
Kickstart Snippets

System:	
Virtualization Type:	None **NOTE:** Changing the Virtualization Type may require changes to the kickstart profile's bootloader and partition options, potentially overwriting user customizations. Please visit the Partitioning tab to verify the new settings.
Active:	☑ You cannot kickstart a system registered to RHN Satellite using an inactive kickstart profile. However, the kickstart files for inactive kickstart profiles are still available for manual download and may be used for bare metal kickstarts.
Log custom post scripts:	☑ If selected, all output of custom post scripts will be logged to /root/ks-post.log.
Log custom pre scripts:	☑ If selected, all output of pre scripts will be logged to /root/ks-pre.log.
Preserve ks.cfg:	☑ If selected, ks.cfg and all %include fragments will be copied to /root.
Organization Default Profile:	☐ The Organization Default Profile setting can be used with manually-created or bare-metal kickstart files. Select this option to indicate which profile in your Organization is used when the URL from **this link** is specified in the ks= section of your kickstart file. The link will not work unless an Organization Default is specified.
Kernel Options	nomodeset
Post Kernel Options	
Comments:	

Update Kickstart

root@molly:~

File Edit View Search Terminal Help

```
[root@molly ~]# cat /var/lib/tftpboot/pxelinux.cfg/default
DEFAULT menu
PROMPT 0
MENU TITLE Cobbler | http://fedorahosted.org/cobbler
TIMEOUT 200
TOTALTIMEOUT 6000
ONTIMEOUT local

LABEL local
        MENU LABEL (local)
        MENU DEFAULT
        LOCALBOOT 0

LABEL aus-web-dev-rhel6:3:AcmeWidgetIT
        kernel /images/ks-rhel-x86_64-server-6-62/vmlinuz
        MENU LABEL aus-web-dev-rhel6:3:AcmeWidgetIT
        append initrd=/images/ks-rhel-x86_64-server-6-62/initrd.img ksdevice=boo
tif lang=  nomodeset kssendmac text  ks=http://172.31.100.3/cblr/svc/op/ks/profi
le/aus-web-dev-rhel6:3:AcmeWidgetIT
        ipappend 2



MENU end
[root@molly ~]#
```

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RHN Satellite - Systems - Kick...

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- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart
  - Profiles
  - Bare Metal
  - GPG and SSL Keys
  - Distributions
  - File Preservation
  - Kickstart Snippets

Kickstart: aus-web-dev-rhel6

clone kickstart delete kickstart

Kickstart Details | System Details | Software | Activation Keys | Scripts | Kickstart File

Details | Operating System | Variables | Advanced Options | Bare Metal Kickstart

Modify Operating System

You can modify the software this kickstart profile will deploy below.

Base Channel*: Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)

Tip: Changing the base channel will require you to reselect any child channels that may be associated with this profile.

Child Channels*:

- [ ] rhel-x86_64-server-ha-6
- [ ] rhel-x86_64-server-lb-6
- [ ] rhel-x86_64-server-optional-6
- [ ] rhel-x86_64-server-rs-6
- [ ] rhel-x86_64-server-supplementary-6
- [ ] rhn-tools-rhel-x86_64-server-6
- [ ] rhel-x86_64-server-hpn-6
- [ ] rhel-x86_64-server-sfs-6
- [ ] hello-world

Warning: If any activation keys are associated with this kickstart profile(under the activation keys tab). the child channel subscriptions above will be overridden. In that situation please use an activation key to specify child channel subscriptions.

Available Trees*: ks-rhel-x86_64-server-6-6.2

Software URL: /ks/dist/ks-rhel-x86_64-server-6-6.2

Repositories:

- [ ] HighAvailability
- [ ] LoadBalancer
- [ ] ResilientStorage
- [ ] ScalableFileSystem

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RHN Satellite - Systems - Kick...

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- GPG and SSL Keys
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- File Preservation
- Kickstart Snippets

Channel*:

Tip: Changing the base channel will require you to reselect any child channels that may be associated with this profile.

Child Channels*:

- [ ] rhel-x86_64-server-ha-6
- [ ] rhel-x86_64-server-lb-6
- [ ] rhel-x86_64-server-optional-6
- [ ] rhel-x86_64-server-rs-6
- [ ] rhel-x86_64-server-supplementary-6
- [ ] rhn-tools-rhel-x86_64-server-6
- [ ] rhel-x86_64-server-hpn-6
- [ ] rhel-x86_64-server-sfs-6
- [ ] hello-world

Warning: If any activation keys are associated with this kickstart profile(under the activation keys tab). the child channel subscriptions above will be overridden. In that situation please use an activation key to specify child channel subscriptions.

Available Trees*: ks-rhel-x86_64-server-6-6.2

Software URL: **/ks/dist/ks-rhel-x86_64-server-6-6.2**

Repositories:

- [ ] HighAvailability
- [ ] LoadBalancer
- [ ] ResilientStorage
- [ ] ScalableFileSystem

Tip: Selected Repositories will be available in the **%packages** section of the kickstart file.

Update Kickstart

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Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

NO SYSTEMS SELECTED MANAGE CLEAR

- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart
  - Profiles
  - Bare Metal
  - GPG and SSL Keys
  - Distributions
  - File Preservation
  - Kickstart Snippets

Kickstart: aus-web-dev-rhel6

clone kickstart delete kickstart

Kickstart Details | System Details | Software | Activation Keys | Scripts | Kickstart File

Details | Operating System | Variables | Advanced Options | Bare Metal Kickstart

Advanced Options

You may wish to modify the following options for special-case kickstart scenarios. We recommend consulting the Red Hat Enterprise Linux System Administration Guide for detailed documentation of all of these options.

auth*:	☑	--enablemd5 --enableshadow
autopart:	☐	
autostep:	☐	
bootloader*:	☑	--location mbr
cdrom:	☐	
clearpart:	☑	--all
cmdline:	☐	
device:	☐	

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device:	☐	
deviceprobe:	☐	
driverdisk:	☐	
firewall:	☑	--disabled
firstboot:	☐	
graphical:	☐	
halt:	☐	
harddrive:	☐	
ignoredisk:	☐	
install:	☑	
interactive:	☐	
iscsi:	☐	
iscsiname:	☐	
key:	☑	--skip
keyboard*:	☑	us
lang*:	☑	en_US

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keyboard*:	☑	us
lang*:	☑	en_US
logging:	☐	
monitor:	☐	
mouse:	☐	
multipath:	☐	
network:	☑	--bootproto dhcp
nfs:	☐	
poweroff:	☐	
reboot:	☑	
rootpw*:	☑	1ZQwKyFuK$WXZ5mYZHWZIo90ZKlMuZr. ☐ MD5 Encrypt **NOTE:** You may set any password hash into this field. Make sure the hash algorithm is correctly set in the **auth** option. However you may enter a plaintext password, that will be md5 encrypted when selecting the **MD5 Encrypt** checkbox.
selinux:	☑	--permissive
services:	☐	
shutdown:	☐	
skipx:	☑	
text:	☑	

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skipx:	☑	
text:	☑	
timezone*:	☑	America/New_York
upgrade:	☐	
url:	☑	--url /rhn/kickstart/ks-rhel-x86_64-server-6-6.2 **NOTE:** Default RHN Satellite kickstart URLs are stored with just the file path, allowing RHN Satellite to know when to dynamically adjust the hostname in the URL rendered in the kickstart file. (for proxies, etc) You may customize this value by changing it to a fully qualified URL, which will appear in the kickstart file as is.
user:	☐	
vnc:	☐	
xconfig:	☐	
zerombr:	☑	
zfcp:	☐	
Custom options:		**NOTE:** Invalid custom options can cause kickstarts to fail. **Tip:** The max size of each line is 2048 characters.

RHN Satellite – Systems – Kickstart – Profiles – Kickstart Details – Bare Metal Kickstart – Mozilla Firefox

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RHN Satellite - Systems - Kick...

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Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

No systems selected Manage Clear

- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart
  - Profiles
  - Bare Metal
  - GPG and SSL Keys
  - Distributions
  - File Preservation
  - Kickstart Snippets

Kickstart: aus-web-dev-rhel6

clone kickstart delete kickstart

Kickstart Details | System Details | Software | Activation Keys | Scripts | Kickstart File

Details | Operating System | Variables | Advanced Options | Bare Metal Kickstart

Bare Metal Kickstart

In order to kickstart "bare metal systems", you will need to provide them with a boot image that is compatible with the version of the operating system you are kickstarting to via boot CD.

Once these systems have booted using the appropriate image, you will need to provide a kickstart file. You may use the following URL in your Boot CD or in your PXE configuration to provide these systems with the kickstart file associated with this kickstart profile:

http://molly.tc.redhat.com/ks/cfg/org/3/label/aus-web-dev-rhel6

Resource: The RHN Reference Guide Kickstart section

IP Address-Based Bare Metal Kickstart URL

Alternatively, you may associate each of your kickstart profiles with particular ip ranges. Then, you can provide bare metal systems with a single URL that will provide each system the kickstart file associated with its IP Address. Below you will find this URL:

http://molly.tc.redhat.com/ks/cfg/org/3/mode/ip_range

Tip: A full listing of the IP ranges associated with your organization's kickstart profiles is available

Associated IP Ranges with Kickstart Profile

You may add or delete IP ranges associated with this kickstart profile below:

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RHN Satellite - Systems - Ki... | http://molly.t...web-dev-rhel6

molly.tc.redhat.com/ks/cfg/org/3/label/aus-web-dev-rhel6

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```
# Kickstart config file generated by RHN Satellite Config Management
# Profile Label : aus-web-dev-rhel6
# Date Created  : 2012-06-11 17:08:48.0

install
text
network --bootproto dhcp
url --url http://molly.tc.redhat.com/ks/dist/ks-rhel-x86_64-server-6-6.2
lang en_US
keyboard us
zerombr
clearpart --all
bootloader --location mbr
timezone --utc America/Chicago
auth --enablemd5 --enableshadow
rootpw --iscrypted $1$Eu7DmjZR$1P6KvxEs0Gi0r8YGIA2ag.
selinux --enforcing
reboot
firewall --disabled
skipx
key --skip
part /boot --fstype=ext3 --size=200
part pv.01 --size=1000 --grow
part swap --size=1000   --maxsize=2000
volgroup myvg pv.01
logvol / --vgname=myvg --name=rootvol --size=1000 --grow

%packages

@ Base

%pre

wget "http://molly.tc.redhat.com/cblr/svc/op/trig/mode/pre/profile/aus-web-dev-rhel6:3:AcmeWidgetIT" -O /dev/null


%pre
echo "Saving RHN keys..." > /dev/ttyS0
SYSTEM_ID=/etc/sysconfig/rhn/systemid
rhn_keys_found=no

insmod /lib/jbd.o
insmod /lib/ext3.o
```

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Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

NO SYSTEMS SELECTED MANAGE CLEAR

- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart
  - Profiles
  - Bare Metal
  - GPG and SSL Keys
  - Distributions
  - File Preservation
  - Kickstart Snippets

Kickstart: aus-web-dev-rhel6

clone kickstart delete kickstart

Kickstart Details | System Details | Software | Activation Keys | Scripts | Kickstart File

Details | Locale | Partitioning | File Preservation | GPG & SSL | Troubleshooting

Hardware Considerations

Software Preferences

SELinux:

- (•) Enforcing - SELinux policy enforced
- ( ) Permissive - SELinux prints warnings instead of enforcing
- ( ) Disabled - SELinux is fully disabled

RHN Satellite Preferences

Enable RHN Satellite Configuration Management: [x]

Tip: Enabling this will allow you to deploy configuration files from RHN Satellite to any system that uses this kickstart profile. If you do not use RHN Satellite configuration management, it is a good security practice to leave this box unchecked. You can always enable it on individual systems later.

Enable RHN Satellite Remote Commands: [x]

Tip: Enabling this will allow you to execute commands remotely from RHN Satellite on any system that uses this profile. It is a good security practice to leave this box unchecked unless you are sure you will use the remote command feature. You can always enable it on individual systems later.

RHN Satellite Profile: If a RHN Satellite system profile already exists for a re-provisioned system outside of the RHN Satellite UI:

- (•) Re-connect to the existing system profile. Do not create a new system profile.

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File Edit View History Bookmarks Tools Help

RHN Satellite - Systems - Kick...

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- GPG and SSL Keys
- Distributions
- File Preservation
- Kickstart Snippets

○ Permissive - SELinux prints warnings instead of enforcing
○ Disabled - SELinux is fully disabled

RHN Satellite Preferences

Enable RHN Satellite Configuration Management: ☑
Tip: Enabling this will allow you to deploy configuration files from RHN Satellite to any system that uses this kickstart profile. If you do not use RHN Satellite configuration management, it is a good security practice to leave this box unchecked. You can always enable it on individual systems later.

Enable RHN Satellite Remote Commands: ☑
Tip: Enabling this will allow you to execute commands remotely from RHN Satellite on any system that uses this profile. It is a good security practice to leave this box unchecked unless you are sure you will use the remote command feature. You can always enable it on individual systems later.

RHN Satellite Profile: If a RHN Satellite system profile already exists for a re-provisioned system outside of the RHN Satellite UI:
- ◉ Re-connect to the existing system profile. Do not create a new system profile.
- ○ Delete the existing system profile and create a new system profile.
- ○ Leave the existing system profile in place, but do not re-connect to it. Instead, create a new system profile.

Root Password

New Root Password: ••••••

Verify New Root Password: ••••••

Update System Details

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RED HAT NETWORK SATELLITE

Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

NO SYSTEMS SELECTED MANAGE CLEAR

- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart
  - Profiles
  - Bare Metal
  - GPG and SSL Keys
  - Distributions
  - File Preservation
  - Kickstart Snippets

Kickstart: aus-web-dev-rhel6

clone kickstart delete kickstart

Kickstart Details | System Details | Software | Activation Keys | Scripts | Kickstart File

Details | Locale | Partitioning | File Preservation | GPG & SSL | Troubleshooting

Locale

You can modify the following options to specify Locale options:

Timezone: America/Chicago Hardware Clock uses UTC: ☑

Update Locale Preferences

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Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

NO SYSTEMS SELECTED MANAGE CLEAR

- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart
  - Profiles
  - Bare Metal
  - GPG and SSL Keys
  - Distributions
  - File Preservation
  - Kickstart Snippets

Kickstart: aus-web-dev-rhel6

clone kickstart delete kickstart

Kickstart Details | System Details | Software | Activation Keys | Scripts | Kickstart File

Details | Locale | Partitioning | File Preservation | GPG & SSL | Troubleshooting

Edit Hard Drive Partitions

You may edit the partitions that will be created on systems kickstarted with this system below:

Partition Details*:

```
part /boot --fstype=ext3 --size=200
part pv.01 --size=1000 --grow
part swap --size=1000  --maxsize=2000
volgroup myvg pv.01
logvol / --vgname=myvg --name=rootvol --size=1000 --grow
```

Update Partitions

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Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

No systems selected Manage Clear

- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart
  - Profiles
  - Bare Metal
  - GPG and SSL Keys
  - Distributions
  - File Preservation
  - Kickstart Snippets

Kickstart: aus-web-dev-rhel6

clone kickstart delete kickstart

Kickstart Details | System Details | Software | Activation Keys | Scripts | Kickstart File

Details | Locale | Partitioning | File Preservation | GPG & SSL | Troubleshooting

Kickstart Details

Below is a list of the GPG and SSL keys you have created. Selected keys will be imported during the %post section of all kickstarts scheduled using this profile.

1 - 2 of 2 (2 selected)

	Description	Type
☑	Acme GPG Key	GPG
☑	RHN-ORG-TRUSTED-SSL-CERT	SSL

Update List Select All Unselect All

1 - 2 of 2 (2 selected)

Update keys

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- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart
  - Profiles
  - Bare Metal
  - GPG and SSL Keys
  - Distributions
  - File Preservation
  - Kickstart Snippets

Kickstart: aus-web-dev-rhel6

clone kickstart delete kickstart

Kickstart Details | System Details | Software | Activation Keys | Scripts | Kickstart File

Package Groups | Package Profiles

Install Packages by Package Name and Group

Specify below the packages and package groups you'd like to install on systems during kickstart. Please list packages and groups one per line. For more information please see *The Red Hat Enterprise Linux System Administration Guide*. If you would prefer to specify packages to be installed by package profile sync, please visit the *Package Profiles* tab to change the kickstart software installation method.

Note: only packages available in your Enterprise Linux install tree should be specified here. To install packages available in RHN Satellite software channels, please associate an appropriate activation key with this kickstart profile in the *Activation Keys* tab.

Don't install @Base package group: ☐

Ignore missing packages: ☐

```
@peri-runtime
@print-client
@remote-desktop-clients
@server-platform
@server-policy
@x11
mtools
pax
python-dmidecode
oddjob
sgpio
```

Update Packages

RHN Satellite – Systems – Kickstart – Profiles – Activation Keys – Mozilla Firefox

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NO SYSTEMS SELECTED MANAGE CLEAR

- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart
  - Profiles
  - Bare Metal
  - GPG and SSL Keys
  - Distributions
  - File Preservation
  - Kickstart Snippets

Kickstart: aus-web-dev-rhel6

clone kickstart delete kickstart

Kickstart Details | System Details | Software | Activation Keys | Scripts | Kickstart File

Kickstart Details

You can associate one or more activation keys with this kickstart profile. Activation keys will allow systems kickstarted with this profile to automatically register to RHN Satellite, gain RHN Satellite service level entitlements, subscribe to specified software and configuration channels, and subscribe to specified system groups. Activation keys can also specify packages to be installed on a system. Please consider how this may affect your package selection in this profile's Software tab.

1 - 10 of 10 (4 selected)

	Description	Key	Usage
☑	Austin Key	3-austin-key	(unlimited)
☐	Database Key	3-database-key	(unlimited)
☑	Dev Key	3-dev-key	(unlimited)
☐	Mail Key	3-mail-key	(unlimited)
☑	Master Key	3-master-key	(unlimited)
☐	Production Key	3-prod-key	(unlimited)
☐	QA Key	3-qa-key	(unlimited)
☐	Raleigh Key	3-raleigh-key	(unlimited)
☑	Web Key	3-web-key	(unlimited)
☐	Westford Key	3-westford-key	(unlimited)

Update List | Select All

1 - 10 of 10 (4 selected)

Note: The selection of incompatible activation keys can prevent a system from registering properly after it is kickstarted. You'll want to

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- GPG and SSL Keys
- Distributions
- File Preservation
- Kickstart Snippets

	Description	Key	Usage
☑	Austin Key	3-austin-key	(unlimited)
☐	Database Key	3-database-key	(unlimited)
☑	Dev Key	3-dev-key	(unlimited)
☐	Mail Key	3-mail-key	(unlimited)
☑	Master Key	3-master-key	(unlimited)
☐	Production Key	3-prod-key	(unlimited)
☐	QA Key	3-qa-key	(unlimited)
☐	Raleigh Key	3-raleigh-key	(unlimited)
☑	Web Key	3-web-key	(unlimited)
☐	Westford Key	3-westford-key	(unlimited)

Update List Select All

1 - 10 of 10 (4 selected)

Note: The selection of incompatible activation keys can prevent a system from registering properly after it is kickstarted. You'll want to review the RHN Reference Guide section on using multiple activation keys before making use of this feature.

Warning: Any child channel subscriptions associated with this profile will be overridden if any activation keys are selected above. If you wish to associate activation keys with this profile, please use an activation key to specify child channel subscriptions.

Update Activation Keys

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RHN Satellite release 5.4.1

RHN Satellite – Systems – Kickstart – Profiles – Scripts – Mozilla Firefox

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redhat.com https://molly.tc.redhat.com/rhn/kickstart/Scripts.do?ksid=2

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RED HAT NETWORK SATELLITE

Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

NO SYSTEMS SELECTED MANAGE CLEAR

- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart
  - Profiles
  - Bare Metal
  - GPG and SSL Keys
  - Distributions
  - File Preservation
  - Kickstart Snippets

Kickstart: aus-web-dev-rhel6

add new kickstart script

Kickstart Details | System Details | Software | Activation Keys | Scripts | Kickstart File

Kickstart Scripts

You may specify scripts to run during the kickstart process, either before (pre-kickstart) or after (post-kickstart) the operating system installation starts. These scripts are useful for tasks such as setting up NFS mounts, moving files before installation, turning services on, or adding users after installation.

You may view or edit the scripts for this kickstart below. You may add a new script using the add new kickstart script button above to the right.

No scripts are associated with this kickstart profile

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RHN Satellite release 5.4.1

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No systems selected Manage Clear

- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart
  - Profiles
  - Bare Metal
  - GPG and SSL Keys
  - Distributions
  - File Preservation
  - Kickstart Snippets

Kickstart: aus-web-dev-rhel6

clone kickstart delete kickstart

Kickstart Details | System Details | Software | Activation Keys | Scripts | Kickstart File

Kickstart Script Details

You can edit the pre and post scripts for this kickstart below. Kickstart pre-scripts are run immediately after a kickstart file has been parsed on a system. You can access the network in this section, but you must use IP addresses (name service has not been configured at this point). For more details on kickstart pre scripts, please refer to the **Red Hat Enterprise Linux System Administration Guide.**

You can also edit the post script for this kickstart below. First, commands related to RHN Satellite will automatically be performed (for example, esystem registration to RHN Satellite). Next, the non-chroot post script will be executed, and finally the post script will be executed. For more details on kickstart post scripts, please refer to the **Red Hat Enterprise Linux System Administration Guide.**

Kickstart Script Scripting Language

Scripting Language

Examples: '/usr/bin/python' '/usr/bin/perl'.
Tip: Leave this field blank to use the install-time shell as language for your post script.

Kickstart Script

Script Contents*

BASH

```
1 chkconfig osad on
2 date > /etc/ksdate
3
```

RHN Satellite – Systems – Kickstart – Profiles – Scripts – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Systems - Kick...

redhat.com https://molly.tc.redhat.com/rhn/kickstart/KickstartScriptCreate.do?ksid=2

Google

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Position: Ln 3, Ch 1 Total: Ln 3, Ch 35

☑ Toggle editor

Script Execution Time*

Post Script

Tip: This specifies when the script gets ran (before or after kickstart).

nochroot

☐

Template

☐

Tip: Enable this to enable templating on this script using cobbler.

Update Kickstart

RHN Satellite – Systems – Kickstart – Profiles – Kickstart File – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Systems - Kick...

redhat.com https://molly.tc.redhat.com/rhn/kickstart/KickstartFileDownload.do?ksid=2

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RED HAT NETWORK SATELLITE

Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

NO SYSTEMS SELECTED MANAGE CLEAR

- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
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- Custom System Info
- Kickstart
  - Profiles
  - Bare Metal
  - GPG and SSL Keys
  - Distributions
  - File Preservation
  - Kickstart Snippets

Kickstart: aus-web-dev-rhel6

clone kickstart delete kickstart

Kickstart Details | System Details | Software | Activation Keys | Scripts | Kickstart File

Kickstart File

The kickstart file generated by this kickstart profile is viewable below:

Download Kickstart File

```
# Kickstart config file generated by RHN Satellite Config Management
# Profile Label : aus-web-dev-rhel6
# Date Created  : 2012-06-11 17:08:48.0

install
text
network --bootproto dhcp
url --url http://molly.tc.redhat.com/ks/dist/ks-rhel-x86_64-server-6-6.2
lang en_US
keyboard us
zerombr
clearpart --all
bootloader --location mbr
timezone --utc America/Chicago
auth --enablemd5 --enableshadow
rootpw --iscrypted $1$mInyJFC1$EWS6B30SJWCv3a1cnA91..
selinux --enforcing
reboot
firewall --disabled
skipx
```

RHN Satellite – Systems – Overview – Mozilla Firefox

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RED HAT NETWORK SATELLITE

Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

No systems selected Manage Clear

- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart

System Overview

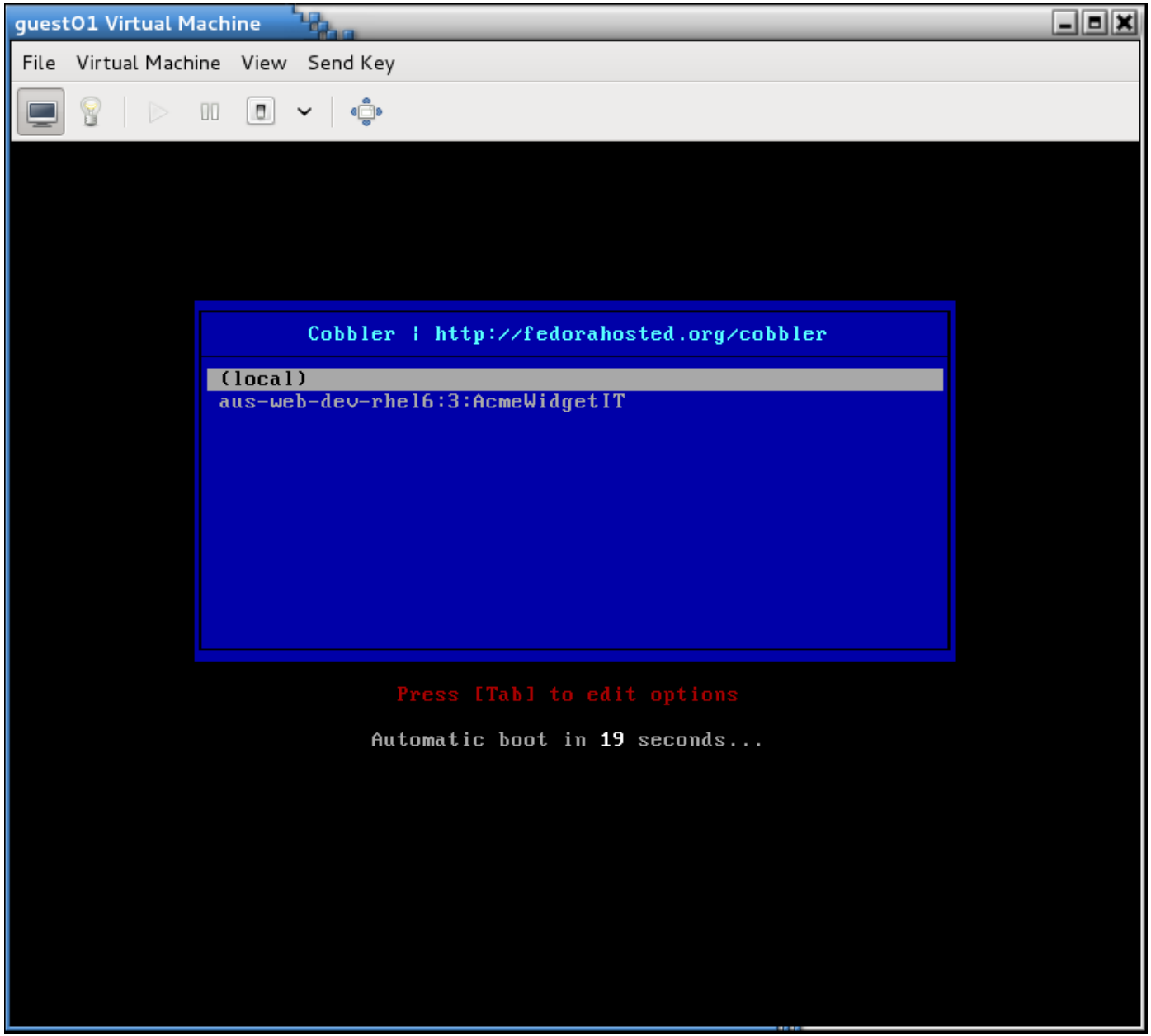
Systems (View System Groups)

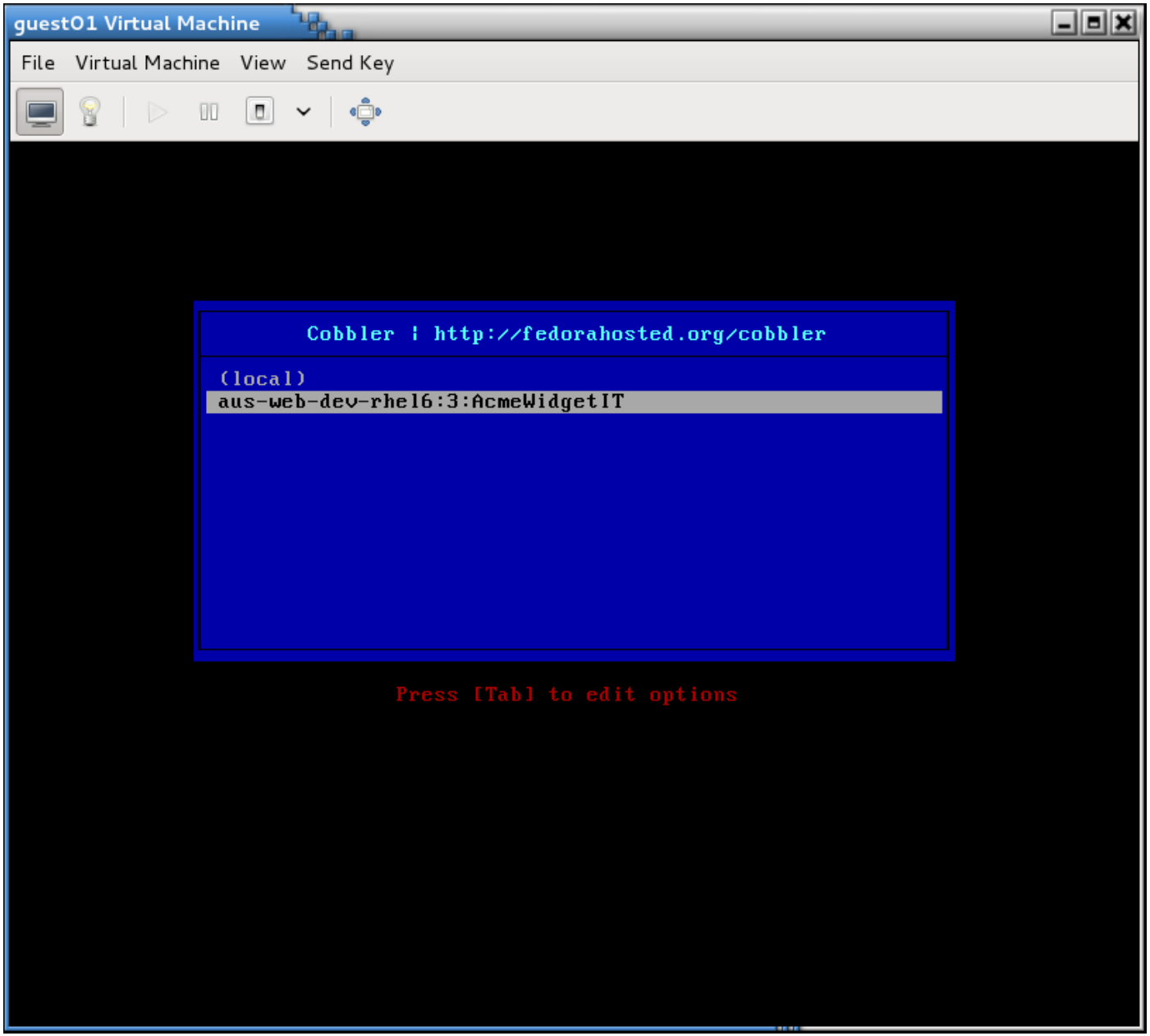
System	Updates	Health	Errata	Packages	Configs	Base Channel	Entitlement
No systems.							

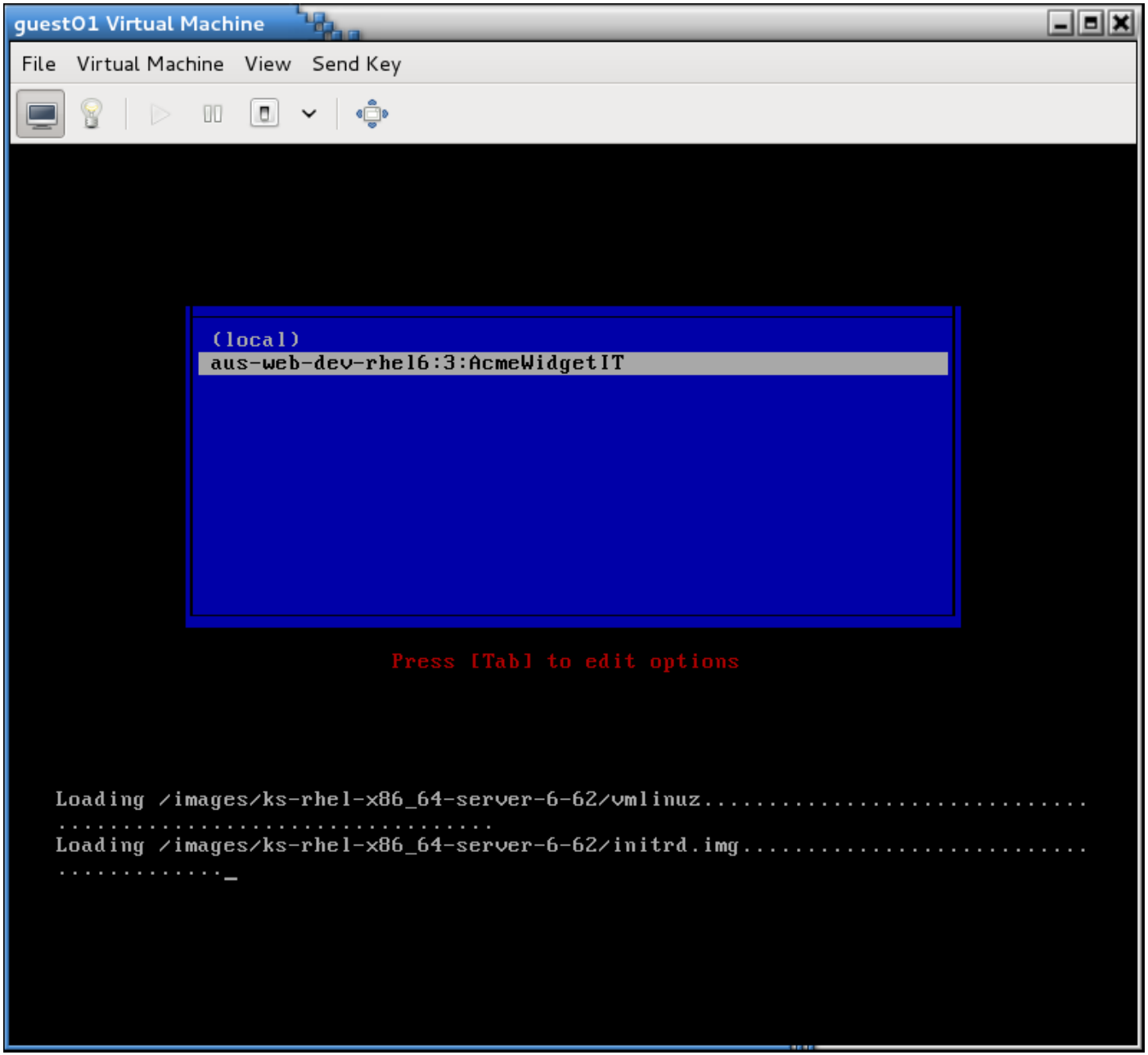
Download CSV

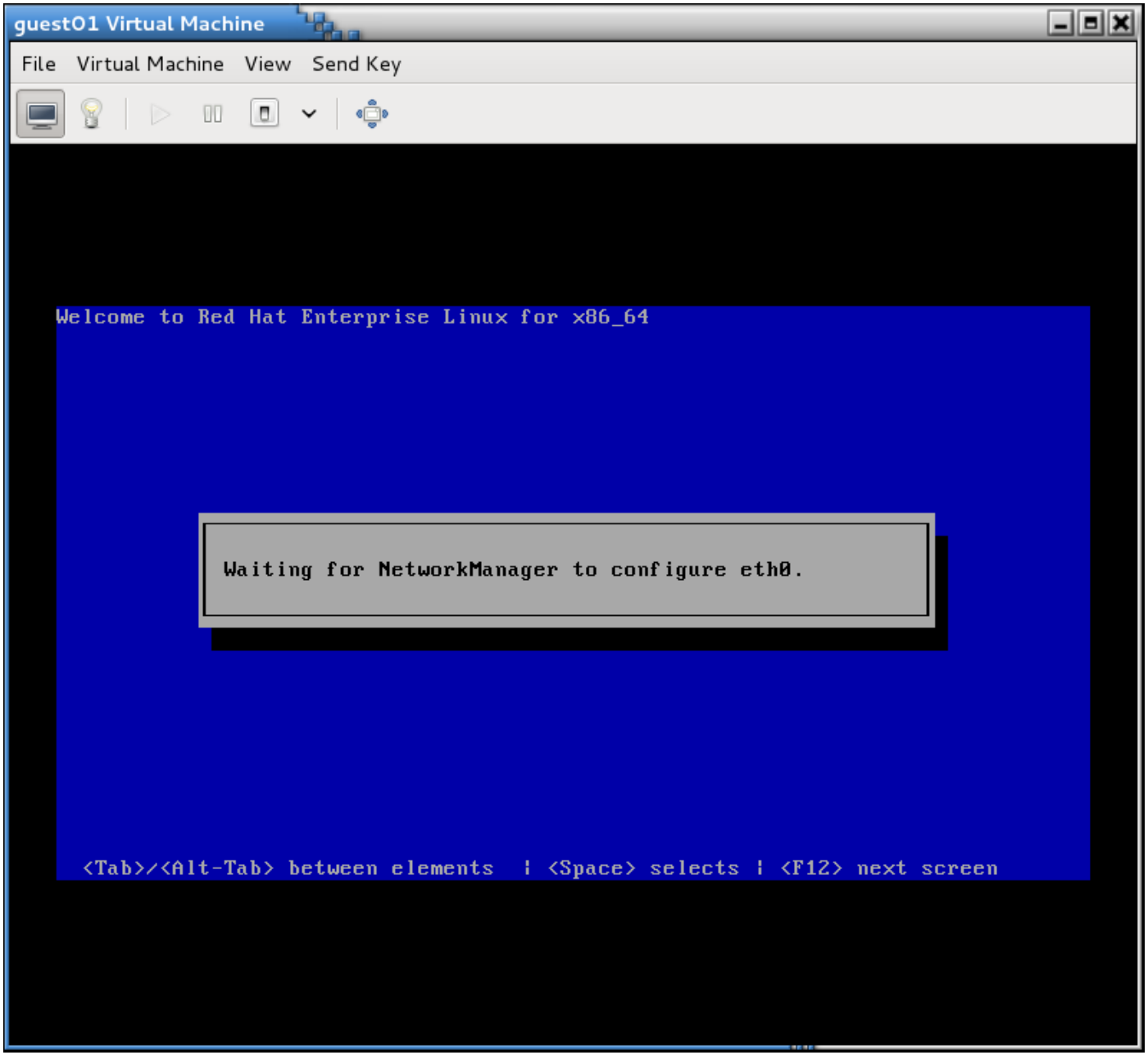
System Legend

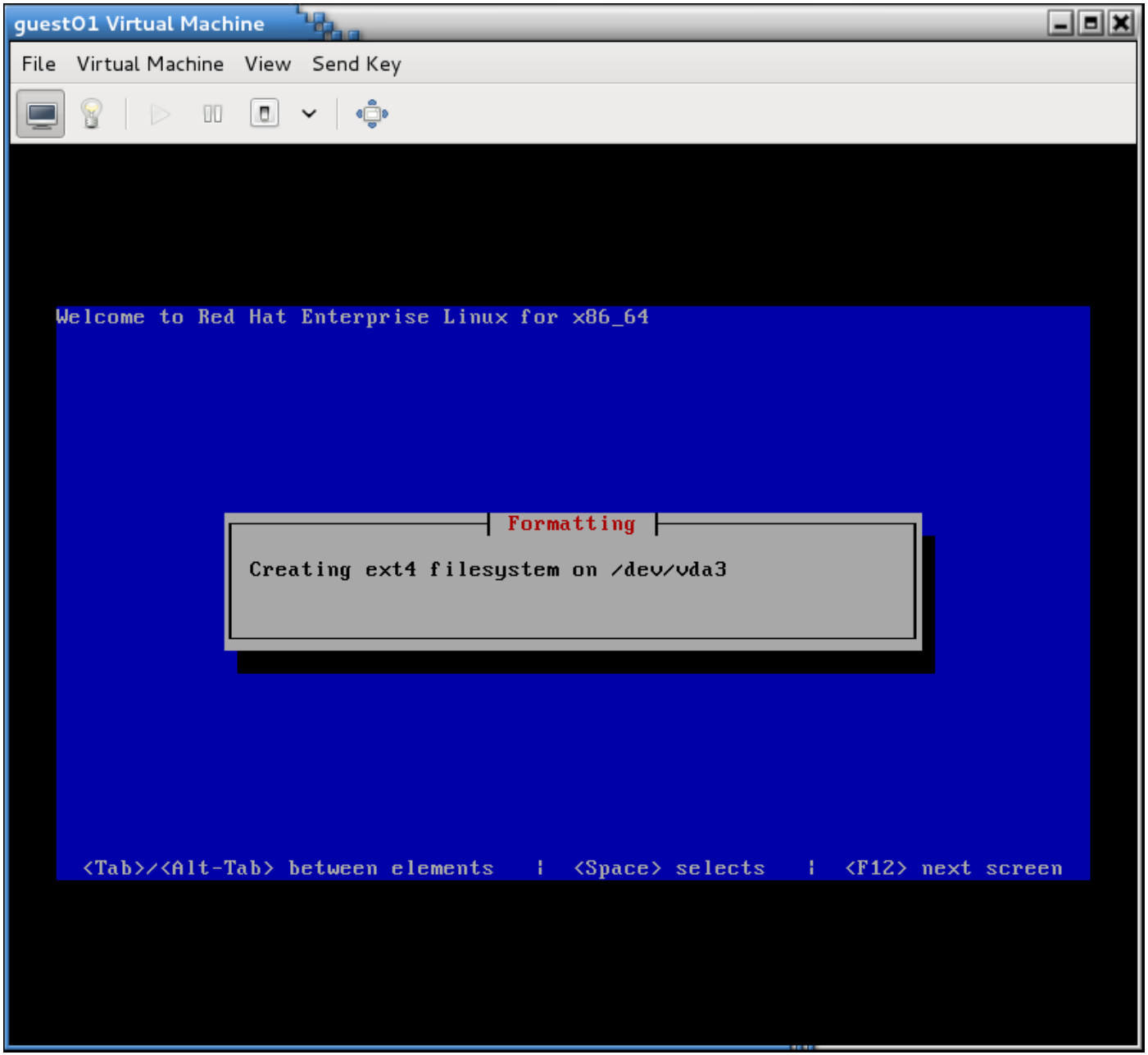
- OK
- Critical
- Warning
- Unknown
- Locked
- Kickstarting
- Pending Actions
- Unentitled

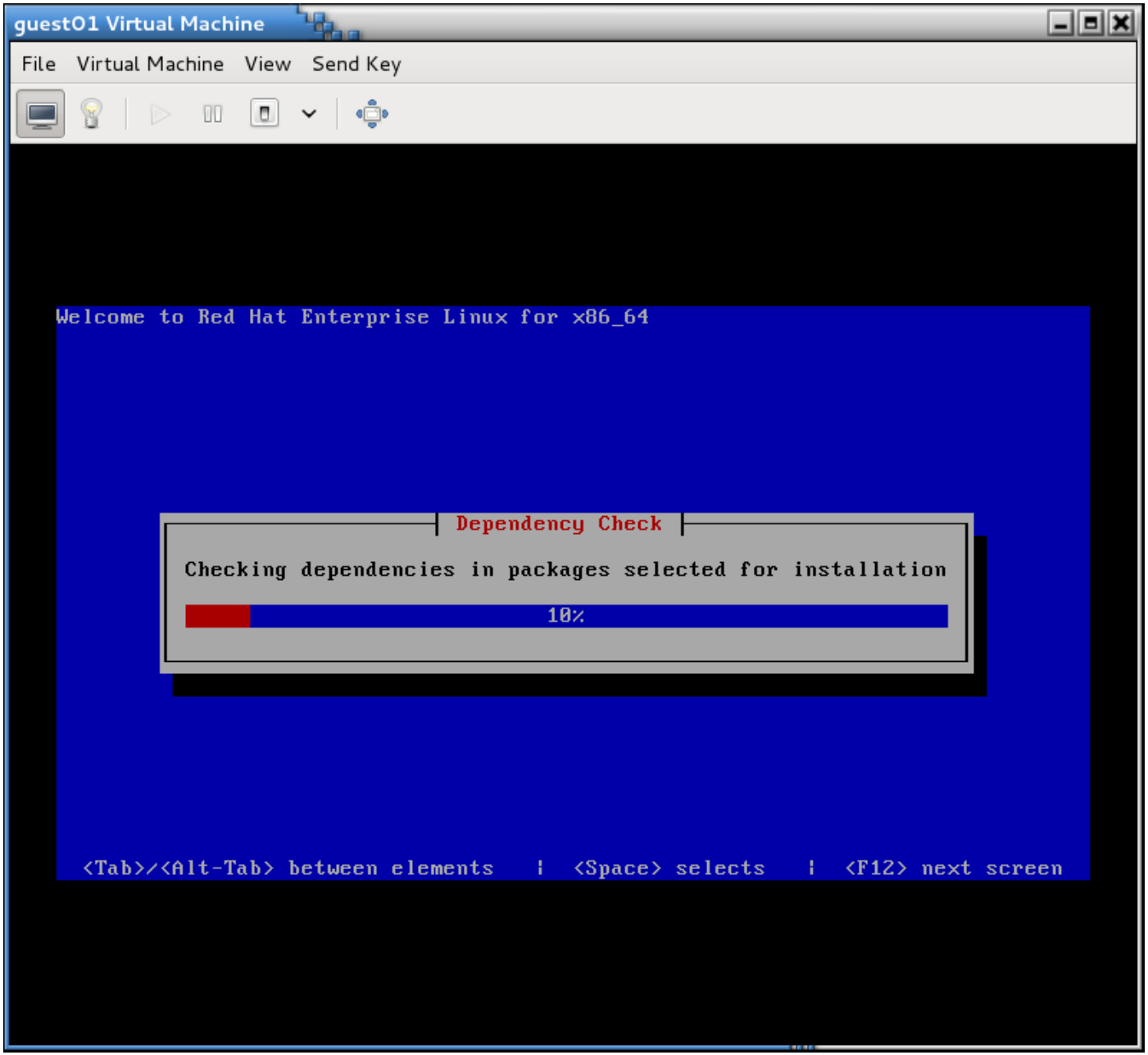

guest01 Virtual Machine
File Virtual Machine View Send Key
Cobbler : http://fedorahosted.org/cobbler
(local)
aus-web-dev-rhel6:3:AcmeWidgetIT
Press [Tab] to edit options
Automatic boot in 19 seconds...

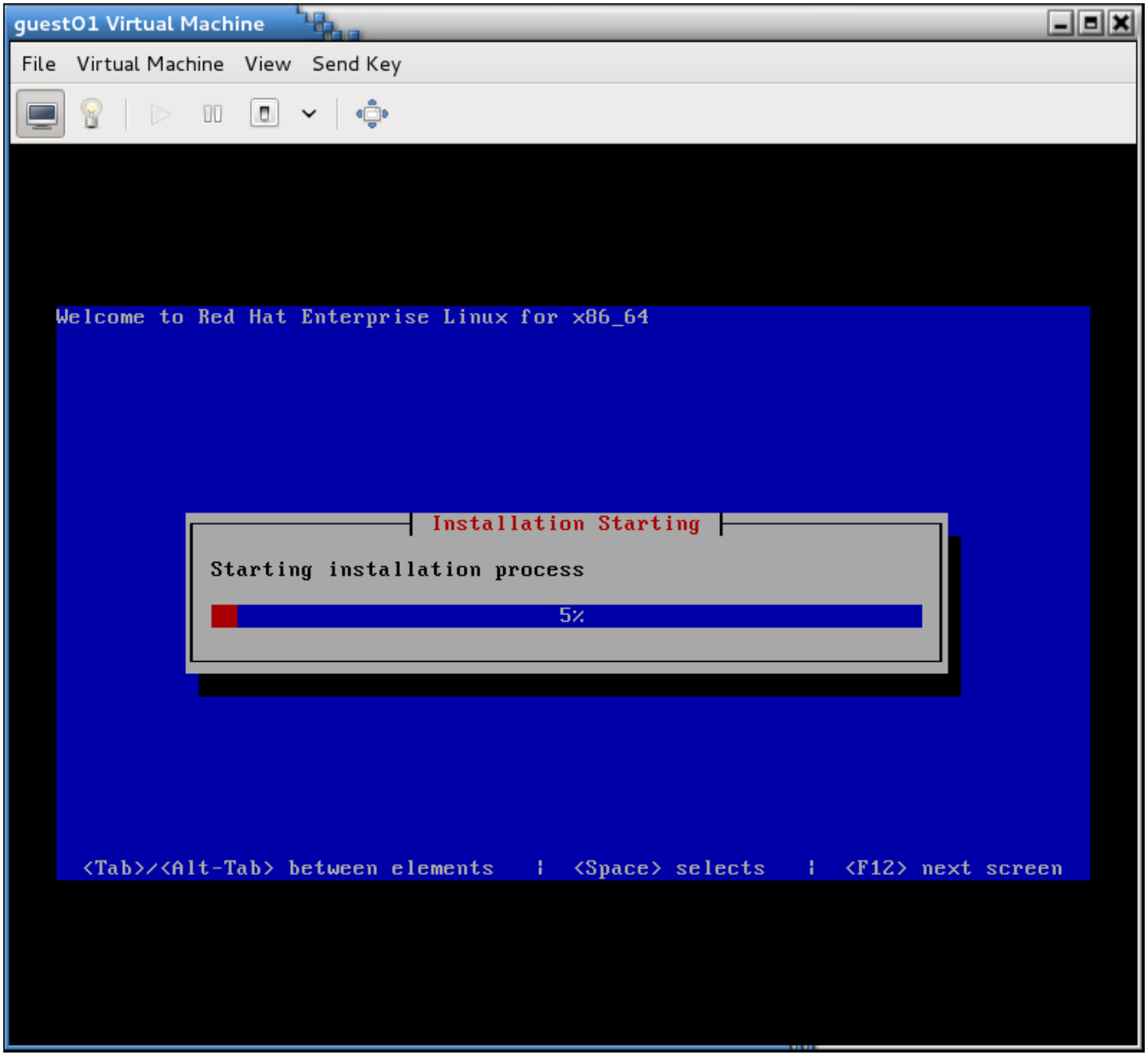

guest01 Virtual Machine
File Virtual Machine View Send Key
Cobbler | http://fedorahosted.org/cobbler
(local)
aus-web-dev-rhel6:3:AcmeWidgetIT
Press [Tab] to edit options


guest01 Virtual Machine
File Virtual Machine View Send Key
(local)
aus-web-dev-rhel6:3:AcmeWidgetIT
Press [Tab] to edit options
Loading /images/ks-rhel-x86_64-server-6-62/vmlinuz.....
.....
Loading /images/ks-rhel-x86_64-server-6-62/initrd.img.....
.....


guest01 Virtual Machine
File Virtual Machine View Send Key
Welcome to Red Hat Enterprise Linux for x86_64
Waiting for NetworkManager to configure eth0.
<Tab>/<Alt-Tab> between elements | <Space> selects | <F12> next screen


guest01 Virtual Machine
File Virtual Machine View Send Key
Welcome to Red Hat Enterprise Linux for x86_64
Formatting
Creating ext4 filesystem on /dev/vda3
<Tab>/<Alt-Tab> between elements | <Space> selects | <F12> next screen


guest01 Virtual Machine
File Virtual Machine View Send Key
Welcome to Red Hat Enterprise Linux for x86_64
Dependency Check
Checking dependencies in packages selected for installation
10%
<Tab>/<Alt-Tab> between elements | <Space> selects | <F12> next screen


guest01 Virtual Machine
File Virtual Machine View Send Key
Welcome to Red Hat Enterprise Linux for x86_64
Installation Starting
Starting installation process
5%
<Tab>/<Alt-Tab> between elements | <Space> selects | <F12> next screen

guest01 Virtual Machine

File Virtual Machine View Send Key

Welcome to Red Hat Enterprise Linux for x86_64

Package Installation

100%

Packages completed: 1113 of 1113

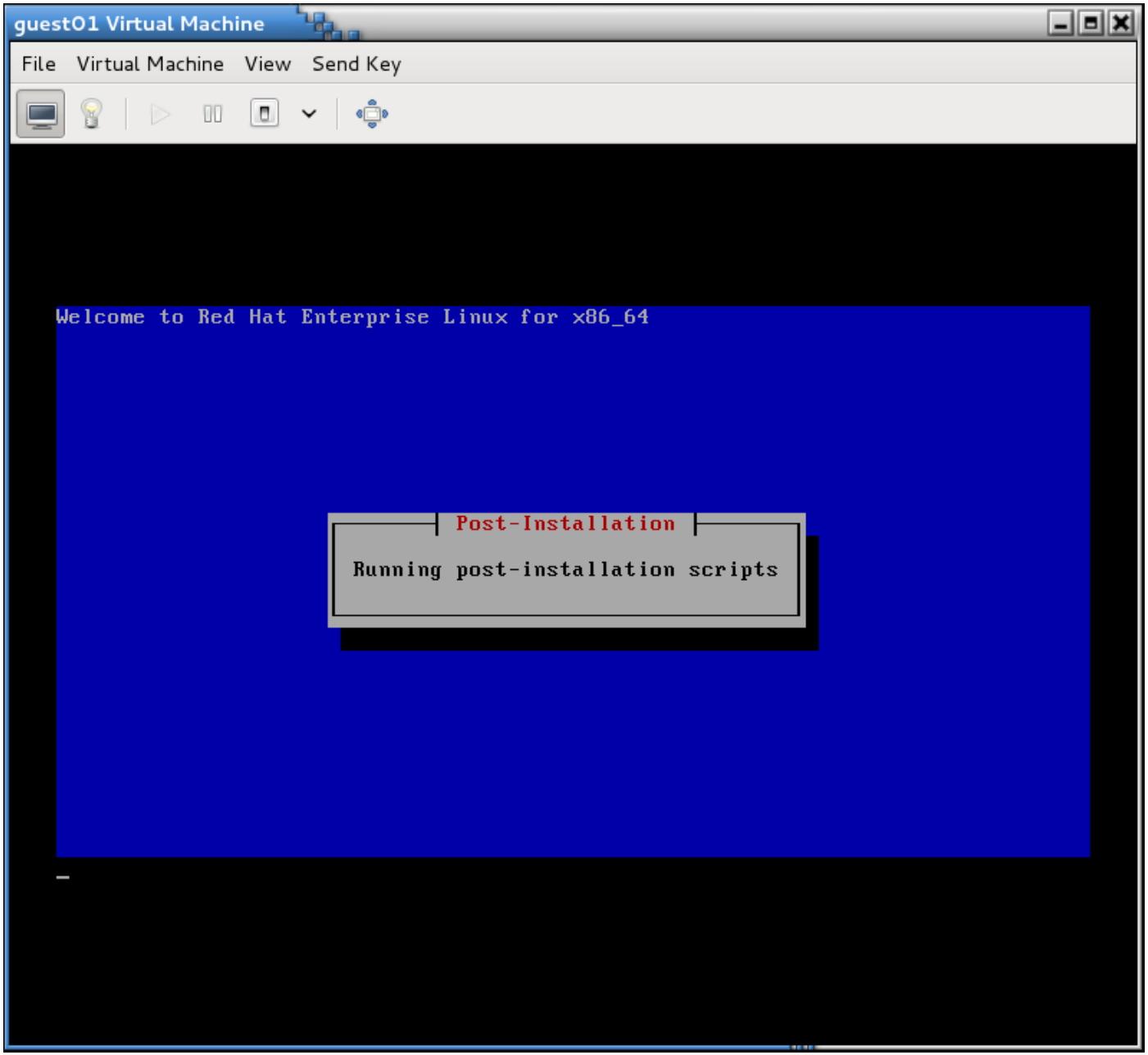
Installing rootfiles-8.1-6.1.el6.noarch (599 Bytes)
The basic required files for the root user's directory

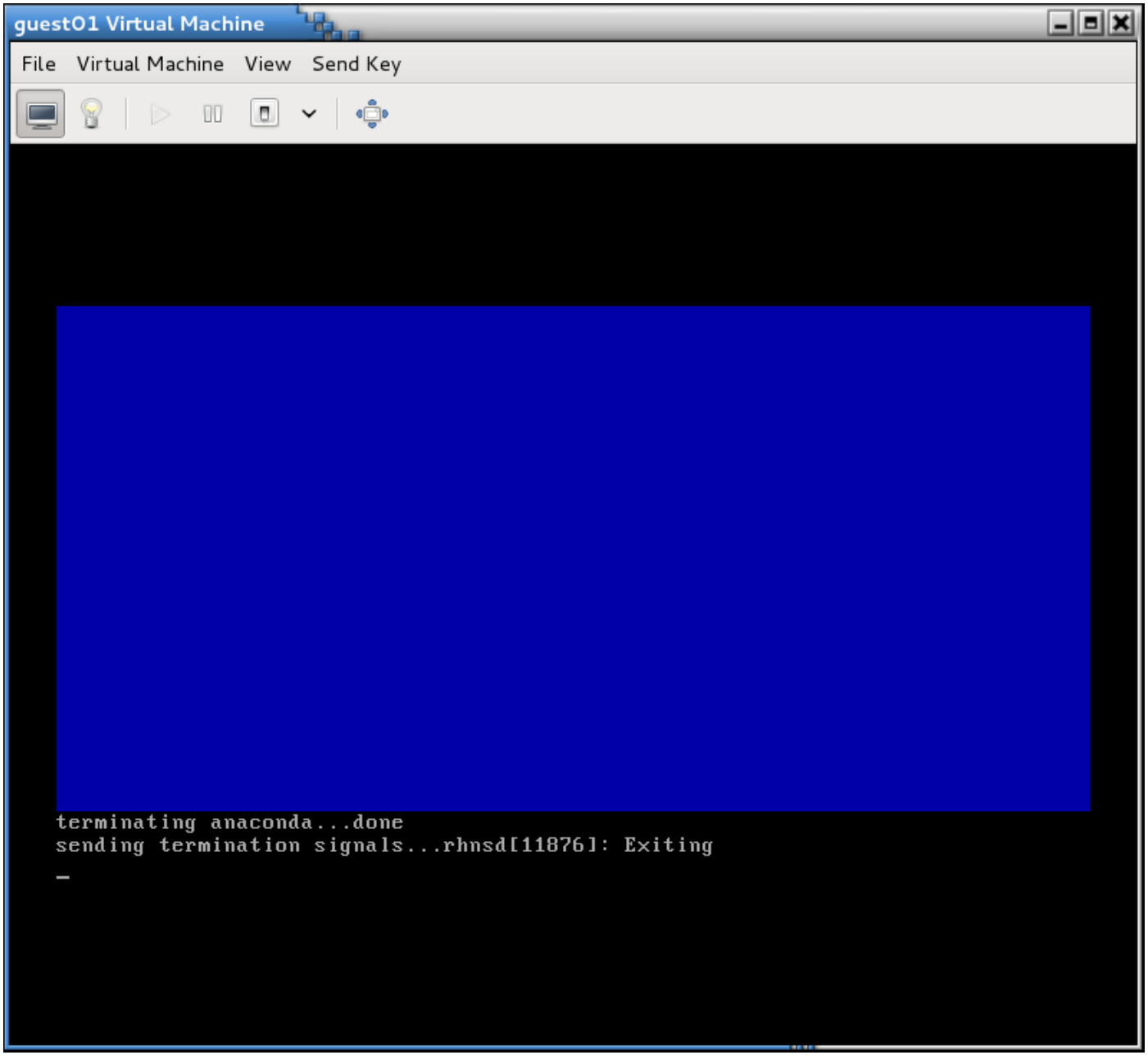
<Tab>/<Alt-Tab> between elements | <Space> selects | <F12> next screen

guest01 Virtual Machine

File Virtual Machine View Send Key

```
11882 tty2     R+     0:00  |   \_ ps axfwww
  775 ?        Ss     0:00  \_ /sbin/loader
  802 tty1     Sl+    6:27  \_ /usr/bin/python /usr/bin/anaconda --stage2 http:/
/molly.tc.redhat.com/ks/dist/ks-rhel-x86_64-server-6-6.2/images/install.img --dl
abel --kickstart /tmp/ks.cfg -T --selinux --lang en_US --keymap us --repo http:/
/molly.tc.redhat.com/ks/dist/ks-rhel-x86_64-server-6-6.2
11826 tty1     S+     0:00      \_ /bin/sh /tmp/ks-script-kYmrJJ
11846 tty1     S+     0:01          \_ /usr/bin/python /usr/sbin/rhnreg_ks --ser
verUrl=https://molly.tc.redhat.com/XMLRPC --sslCACert=/usr/share/rhn/RHN-ORG-TRU
STED-SSL-CERT --activationkey=3-84f67b404ef5dcb15b2e0bec1aa262c2,3-austin-key,3-
web-key,3-dev-key,3-master-key
11877 tty1     R+     0:13              \_ /usr/bin/python /usr/sbin/rhn_check
  728 ?        Ss     0:00 /sbin/hald --use-syslog
  730 ?        S      0:00  \_ hald-runner
  732 ?        Ssl    0:00 /usr/sbin/NetworkManager --pid-file=/var/run/NetworkM
anager/NetworkManager.pid
  761 ?        S      0:00  \_ /sbin/dhclient -d -4 -sf /usr/libexec/nm-dhcp-cli
ent.action -pf /var/run/dhclient-eth0.pid -lf /var/lib/dhclient/dhclient-5fb06bd
0-0bb0-7ffb-45f1-d6edd65f3e03-eth0.lease -cf /var/run/nm-dhclient-eth0.conf eth0
  737 ?        Ss     0:00 /usr/sbin/wpa_supplicant -c /etc/wpa_supplicant/wpa_s
upplicant.conf -B -u -f /var/log/wpa_supplicant.log -P /var/run/wpa_supplicant.p
id
  934 tty1     S+     0:00 /sbin/auditd
11876 ?        Ss     0:00 rhnsd
[anaconda root@host240 /]# _
```


guest01 Virtual Machine
File Virtual Machine View Send Key
Welcome to Red Hat Enterprise Linux for x86_64
Post-Installation
Running post-installation scripts


guest01 Virtual Machine
File Virtual Machine View Send Key
terminating anaconda...done
sending termination signals...rhnsd[11876]: Exiting

guest01 Virtual Machine

File Virtual Machine View Send Key

```
Red Hat Enterprise Linux Server release 6.2 (Santiago)
Kernel 2.6.32-220.el6.x86_64 on an x86_64

host240 login: _
```

RHN Satellite – Systems – Overview – Mozilla Firefox

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RED HAT NETWORK SATELLITE

Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

No systems selected Manage Clear

- Overview
- Systems
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart

System Overview

Systems (View System Groups)

0 1 2 3 4 5 6 7 8 9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Filter by System Name: Go Display 25 items per page 1 - 1 of 1 (0 selected)

System	Updates	Health	Errata	Packages	Configs	Base Channel	Entitlement
host240.tc.redhat.com			104	119	0	Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Management, Monitoring, Provisioning, Virtualization

Update List Select All 1 - 1 of 1 (0 selected)

Download CSV

System Legend

- OK
- Critical
- Warning
- Unknown
- Locked
- Kickstarting
- Pending Actions
- Unentitled

RHN Satellite – Systems – Systems – Details – Overview – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Systems - Syst...

redhat.com https://molly.tc.redhat.com/rhn/systems/details/Overview.do?sid=1000010020

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Virtual Systems
Out of Date
Unentitled
Ungrouped
Inactive
Recently Registered
Duplicate Systems
System Currency
System Groups
System Set Manager
Advanced Search
Activation Keys
Stored Profiles
Custom System Info
Kickstart

Overview Properties Remote Command Reactivation Hardware Migrate Notes Custom Info

System Status

Software Updates Available **Critical:** 41 **Non-Critical:** 63 **Packages:** 119

System Info

Hostname:	host240.tc.redhat.com
IP Address:	172.31.100.240
Kernel:	2.6.32-220.el6.x86_64
RHN Satellite System ID:	1000010020
Lock Status:	System is **unlocked** (Lock system)

Subscribed Channels (Alter Channel Subscriptions)

- Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)
  - Hello World
  - RHN Tools for RHEL (v. 6 for 64-bit x86_64)

System Events

Checked In:	6/12/12 10:16:12 PM CDT
Registered:	6/12/12 10:14:53 PM CDT
Last Booted:	6/12/12 9:56:00 PM CDT (Schedule System Reboot)
OSA Status:	unknown

System Properties (Edit These Properties)

Entitlements:	[Provisioning] [Virtualization] [Monitoring] [Management]
Notifications:	Daily Summary Errata Email
Auto Errata Update:	No
System Name:	host240.tc.redhat.com
Description:	Initial Registration Parameters: OS: redhat-release-server Release: 6Server CPU Arch: x86_64
Location:	(none)

RHN Satellite – Systems – Systems – Details – Overview – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Systems - Syst...

redhat.com https://molly.tc.redhat.com/rhn/systems/details/Overview.do?sid=1000010020

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- Virtual Systems
- Out of Date
- Unentitled
- Ungrouped
- Inactive
- Recently Registered
- Duplicate Systems
- System Currency
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart

Overview | Properties | Remote Command | Reactivation | Hardware | Migrate | Notes | Custom Info

System Status

Software Updates Available **Critical:** 41 **Non-Critical:** 63 **Packages:** 119

System Info

Hostname:	host240.tc.redhat.com
IP Address:	172.31.100.240
Kernel:	2.6.32-220.el6.x86_64
RHN Satellite System ID:	1000010020
Lock Status:	System is **unlocked** (Lock system)

Subscribed Channels (Alter Channel Subscriptions)

- Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)
  - Hello World
  - RHN Tools for RHEL (v. 6 for 64-bit x86_64)

System Events

Checked In:	6/12/12 10:16:12 PM CDT
Registered:	6/12/12 10:14:53 PM CDT
Last Booted:	6/12/12 9:56:00 PM CDT (Schedule System Reboot)
OSA Status:	unknown

System Properties (Edit These Properties)

Entitlements:	[Provisioning] [Virtualization] [Monitoring] [Management]
Notifications:	Daily Summary Errata Email
Auto Errata Update:	No
System Name:	host240.tc.redhat.com
Description:	Initial Registration Parameters: OS: redhat-release-server Release: 6Server CPU Arch: x86_64
Location:	(none)

RHN Satellite – Systems – Systems – Software – Packages – List / Remove – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Systems - Syst...

redhat.com https://molly.tc.redhat.com/rhn/systems/details/packages/PackageList.do?sid=1000010020

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Overview | Systems | Errata | Channels | Configuration | Schedule | Users | Monitoring | Help

No systems selected Manage Clear

- Overview
- Systems
  - All
  - Virtual Systems
  - Out of Date
  - Unentitled
  - Ungrouped
  - Inactive
  - Recently Registered
  - Duplicate Systems
  - System Currency
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart

host240.tc.redhat.com

add to ssm | delete system

Details | Software | Configuration | Provisioning | Monitoring | Groups | Virtualization | Events

Errata | Packages | Software Channels

List / Remove | Upgrade | Install | Verify | Profiles

Removable Packages

The following packages are installed on this system. Packages may be scheduled for removal by selecting them and clicking "Remove Packages" below.

The list of 2 item(s) below is filtered.
Clear filter to see all 1,139 items.

0 1 2 3 4 5 6 7 8 9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Filter by Package Name: httpd Go

Display 25 items per page

1 - 2 of 2 (0 selected)

Package Name	Architecture	Installed
httpd-2.2.15-15.el6_2.1	x86_64	6/12/12 10:29:58 PM CDT
httpd-tools-2.2.15-15.el6_2.1	x86_64	6/12/12 10:29:57 PM CDT

Update List | Select All

1 - 2 of 2 (0 selected)

Remove Packages

RHN Satellite – Systems – Systems – Groups – List / Leave – Mozilla Firefox

File Edit View History Bookmarks Tools Help

RHN Satellite - Systems - Syst...

redhat.com https://molly.tc.redhat.com/rhn/systems/details/groups/ListRemove.do?sid=1000010020

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Overview | Systems | Errata | Channels | Configuration | Schedule | Users | Monitoring | Help

No systems selected Manage Clear

- Overview
- Systems
  - All
  - Virtual Systems
  - Out of Date
  - Unentitled
  - Ungrouped
  - Inactive
  - Recently Registered
  - Duplicate Systems
  - System Currency
- System Groups
- System Set Manager
- Advanced Search
- Activation Keys
- Stored Profiles
- Custom System Info
- Kickstart

host240.tc.redhat.com

add to ssm | delete system

Details | Software | Configuration | Provisioning | Monitoring | Groups | Virtualization | Events

List / Leave | Join

System Groups

Below are all the system groups that have been added to this system. To remove a system group membership, check its checkbox and make sure you click the "Leave Selected Groups" button when you are finished with your changes.

0 1 2 3 4 5 6 7 8 9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Filter by Group Name: Go

Display 25 items per page

1 - 3 of 3 (0 selected)

Group Name
Web Servers
Austin Servers
Dev Servers

Update List | Select All

1 - 3 of 3 (0 selected)

Leave Selected Groups

root@host240:~

File Edit View Search Terminal Help

```
[root@host240 ~]# cat /etc/acme/acme.cfg
# This is the Acme config file.
# It contains macros so it will be customized on a
# per-host basis.

MY_SYSTEMID=1000010020
MY_PROFILE_NAME=host240.tc.redhat.com
MY_SYSTEM_DESCRIPTION=Initial Registration Parameters:
OS: redhat-release-server
Release: 6Server
CPU Arch: x86_64
MY_HOSTNAME=host240.tc.redhat.com
MY_SYSTEM_IP=172.31.100.240
MY_ETH0_IP=172.31.100.240
MY_ETH0_NETMASK=255.255.255.0
MY_ETH0_BCAST=172.31.100.255
MY_ETH0_MAC=52:54:00:fc:33:0a
MY_ETH0_DRIVER=virtio_net
[root@host240 ~]#
```

root@host240:~

File Edit View Search Terminal Help

```
[root@host240 ~]# hello
hello, world
[root@host240 ~]#
```

root@host240:~

File Edit View Search Terminal Help

```
[root@host240 ~]# yum repolist
Loaded plugins: product-id, refresh-packagekit, rhnplugin, security,
               : subscription-manager
Updating certificate-based repositories.
repo id                          repo name                                  status
hello-world                      Hello World                                    1
rhel-x86_64-server-6             Red Hat Enterprise Linux Server (v. 6 for  7,248
rhn-tools-rhel-x86_64-server-6 RHN Tools for RHEL (v. 6 for 64-bit x86_64    64
repolist: 7,313
[root@host240 ~]#
```

root@host240:~

File Edit View Search Terminal Help

```
[root@host240 ~]# chkconfig osad --list
osad            0:off   1:off   2:on    3:on    4:on    5:on    6:off
[root@host240 ~]#
```

root@host240:~

File Edit View Search Terminal Help

```
[root@host240 ~]# cat /etc/ksdate
Tue Jun 12 22:30:38 CDT 2012
[root@host240 ~]#
```

Cobbler Tips and Tricks

- What if you don't want human intervention at boot time?
- Cobbler to the rescue!
  - Note that any configuration of cobbler outside of the Satellite web UI is NOT supported by GSS!
  - If you break cobbler, my only guarantee to you is, you get to keep all the pieces!

root@molly:~

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```
[root@molly ~]# cat cobbler_add.sh
#!/bin/bash
if [ -z $1 ]; then
  echo "Usage: $0 [ip address]"
  exit
fi

CHOSTNAME=`host $1 | awk '{ print $NF }' | sed "s/\.$//"`
echo $CHOSTNAME
cobbler system add \
 --name=$CHOSTNAME \
 --profile=aus-web-dev-rhel6:3:AcmeWidgetIT \
 --ip=$1 \
 --hostname=$CHOSTNAME \
 --netboot-enabled=true
[root@molly ~]#
```

root@molly:~

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```
[root@molly ~]# cobbler system list
[root@molly ~]# ls /var/lib/tftpboot/pxelinux.cfg/
default
[root@molly ~]# ./cobbler_add.sh 172.31.100.55
host55.tc.redhat.com
[root@molly ~]# cobbler system list
   host55.tc.redhat.com
[root@molly ~]# ls /var/lib/tftpboot/pxelinux.cfg/
AC1F6437  default
[root@molly ~]#
```

DHCP/PXE/tftp

- For the most part, the Satellite installer sets this up for you.
- Just add the following stanza to /etc/dhcp/dhcpd.conf

root@molly:/etc/sysconfig/network-scripts

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```
                hardware ethernet bc:ae:c5:8d:7e:ae;
                fixed-address 172.31.100.13;
        }

        host neuromancer {
                hardware ethernet bc:ae:c5:8d:7e:d3;
                fixed-address 172.31.100.14;
        }

        host t510 {
                hardware ethernet F0:DE:F1:09:30:59;
                fixed-address 172.31.100.15;
        }

        host armitage {
                hardware ethernet bc:ae:c5:6c:c7:9d;
                fixed-address 172.31.100.17;
        }

        # For PXE
        next-server 172.31.100.3;
        filename "/pxelinux.0";
}
[root@molly network-scripts]#
```

And that's it!

- All of the jumping around pays off in the end.
- You can deploy a production-ready system in minutes, even if you have internally developed or third-party apps!

Additional Resources

- Red Hat Training: https://www.redhat.com/training/courses/rh401/
- Red Hat Docs: https://access.redhat.com/knowledge/docs/Red_Hat_Network_Satellite/

Thank You!

- If you liked today's presentation, please fill out the evaluation form!

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