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RED HAT NETWORK POWER

USER TIPS AND TRICKS (PART 1)

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May 5th, 2011

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Agenda

- Red Hat and Red Hat Network Satellite Server
 - Spacewalk
- Assumptions
- There is a method to the madness!
- Installation tips
- Organizations
- Configuration file management
 - Advanced use including macros
- System Groups

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Agenda

- Channel Cloning
- Locked Channels
- Internally developed or third party packages
- Activation keys
- Kickstart profiles
- DHCP/PXE/tftp for kickstart

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Red Hat and Red Hat Network Satellite Server

- RHN Satellite is the best systems management solution for Red Hat products.
- Mature, robust product with hundreds of thousands of servers under management at customers in practically every vertical you can imagine.

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Red Hat and 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/>



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Assumptions

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

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Assumptions

- When we talk about the Navigation Bar, we mean the tabs at the top of the screen:



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Assumptions

- When we talk about the left navigation bar, we mean the gray box at the left of the screen:



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Assumptions

- When we talk about sub-tabs, we are talking about the tabs in the middle of each page:



case.tc.redhat.com



Details

Software

Configuration

Provisioning

Monitoring

Groups

Virtualization

Events

Overview

Properties

Remote Command

Reactivation

Hardware

Migrate

Notes

Custom Info

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There is a method to the madness!

- Well, ok... maybe...



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There is a method to the madness!

- We're going to lay the foundation to making kickstart work really well
 - Minimize human interaction/error
 - Decrease deployment time/time to market
- Bear with us as we show you how to set up some prerequisite components which will make kickstart fly! It will seem as though we're bouncing around, but we'll tie it all up in the end.

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Madness Break!

- Tips and tricks for RHN Satellite installation...



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Installation Tips

- Register your machine to RHN before you start the installation process
- Upload your Satellite certificate your machine's definition on RHN before you start the local installation, this will make the latest RHN Satellite packages available when installing
 - Copy the certificate to the local hard drive as well



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

File Edit View History Bookmarks Tools Help

redhat.com https://rhn.redhat.com/rhn/systems/details/Satellite.do?sid=101862716

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Red Hat Network - Systems - Syst...

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

host235.tc.redhat.com [delete system](#)

Details Software 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

```
rhel-workstation-6"/>
<rhncertfield name="channel-families" flex="1000" quantity="100000" family="rhncerttools-
rhel-workstation-6-beta"/>
<rhncertfield name="satellite-version">5.4</rhncertfield>
<rhncertfield name="generation">2</rhncertfield>
<rhncertsignature>
-----BEGIN PGP SIGNATURE-----
Version: Crvpt::OpenPGP 1.03
```

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Installation Tips

- Make sure you import the Red Hat gpg key before installing
 - `rpm --import /etc/pki/rpm-gpg/RPM-GPG-KEY-redhat-release`



Installation Tips

- Install in disconnected mode
 - `mkdir /mnt/loop/`
 - `mount -o loop satellite-embedded-oracle-5.4.0-20101025-rhel-5-x86_64.iso /mnt/loop/`
 - `cd /mnt/loop/`
 - `./install.pl --disconnected`



Installation Tips

- After installing in disconnected mode, go to Admin tab, then RHN Satellite Configuration in the left nav bar. Deselect the “Disconnected Satellite” check box. This will fix `/etc/rhn/rhn.conf` so it reads:
 - `server.satellite.rhn_parent = satellite.rhn.redhat.com`



RHN Satellite - Admin - RHN Satellite Configuration - General - General - Mozilla Firefox

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redhat.com https://host235.tc.redhat.com/rhn/admin/config/GeneralConfig.do

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RHN Satellite - Admin - RHN Satell...

Show Tomcat Logs

Administrator Email Address*	thomas.cameron@camerontech.com
RHN Satellite Hostname*	host235.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

Done

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```
root@host235:~
File Edit View Search Terminal Help
[root@host235 ~]# head /etc/rhn/rhn.conf
traceback_mail = thomas.cameron@camerontech.com
mount_point = /var/satellite
kickstart_mount_point = /var/satellite
repomd_cache_mount_point = /var/cache
server.satellite.rhn_parent = satellite.rhn.redhat.com
server.satellite.http_proxy =
server.satellite.http_proxy_username =
server.satellite.http_proxy_password =
server.satellite.ca_chain = /usr/share/rhn/RHNS-CA-CERT

[root@host235 ~]#
```

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Installation Tips

- Before you start syncing content, `su - oracle` and extend the `DATA_TBS` tablespace to about 8GB



```
root@host235:~  
File Edit View Search Terminal Help  
-bash-3.2$ db-control report  
Tablespace          Size      Used      Avail    Use%  
DATA_TBS            3.9G      80.1M     3.8G      2%  
SYSAUX              500M      52.6M     447.3M    11%  
SYSTEM              400M      240.5M     159.4M    60%  
TEMP_TBS            1000M       0B      1000M     0%  
UNDO_TBS            1000M     144.1M     855.8M    14%  
USERS               128M       64K      127.9M     0%  
-bash-3.2$ db-control extend DATA_TBS  
Extending DATA_TBS... done.  
-bash-3.2$ db-control extend DATA_TBS  
Extending DATA_TBS... done.  
-bash-3.2$ db-control extend DATA_TBS  
Extending DATA_TBS... done.  
-bash-3.2$ db-control extend DATA_TBS  
Extending DATA_TBS... done.  
-bash-3.2$ db-control extend DATA_TBS; db-control extend DATA_TBS  
Extending DATA_TBS... done.  
Extending DATA_TBS... done.  
-bash-3.2$ db-control extend DATA_TBS; db-control extend DATA_TBS  
Extending DATA_TBS... done.  
Extending DATA_TBS... done.  
-bash-3.2$
```

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```
root@host235:~  
File Edit View Search Terminal Help  
-bash-3.2$ db-control report  
Tablespace      Size      Used      Avail      Use%  
DATA_TBS        7.8G      80.6M     7.7G       1%  
SYSAUX          500M      52.6M     447.3M     11%  
SYSTEM          400M      240.5M    159.4M     60%  
TEMP_TBS        1000M      0B        1000M      0%  
UNDO_TBS        1000M     144.1M    855.8M     14%  
USERS           128M       64K       127.9M     0%  
-bash-3.2$
```

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Installation Tips

- Ensure you have resolvable (forward and reverse) FQDNs!
 - Clients and the Satellite itself

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Installation Tips

- The first satellite-sync is always slow. Choose the smallest channel you can, sync it, wait for the machine to settle down, and restart the satellite server service.



Madness Break

- Installation's in the Bunsen burner, now organizations.



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Organizations

- RHN Satellite had 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.

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Organizations

- And it sucks to retrofit organizations into your Satellite server.

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redhat.com
https://host235.tc.redhat.com/rhn/admin/multiorg/Organizations.do

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RHN Satellite - Admin - Organizati...

English (change) Knowledgebase Documentation USER: satadmin ORGANIZATION: Red Hat IT Preferences Sign Out

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 Engine Status
Show Tomcat Logs

Organizations

Filter by Organization:
Go

create new organization

Organization	Systems	Users	Trusts
Red Hat IT *	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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RHN Satellite release 5.4.0

https://host235.tc.redhat.com/rhn/admin/multiorg/OrgCreate.do

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RHN Satellite - Admin - Organizations - Mozilla Firefox

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RHN Satellite - Admin - Organizati...

English (change) Knowledgebase Documentation USER: satadmin ORGANIZATION: Red Hat IT Preferences Sign Out

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 Engine Status Show Tomcat Logs

Create New Organization

Organization Details

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

Desired Password*

Done

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redhat.com https://host235.tc.redhat.com/rhn/admin/multiorg/OrgSystemSubscript

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RHN Satellite - Admin - Organizati...

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

Organization Acme Widget created successfully

 **Acme Widget** [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** 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	4000 Possible Values: 0 to 100000.
Monitoring (Add-On) Enables the tracking of monitoring data for a system.	0	0	4000 Possible Values: 0 to 100000.
Provisioning (Add-On) Allows various advanced functionality such as kickstart and configuration file provisioning.	0	0	4000 Possible Values: 0 to 100000.
Virtualization (Add-On) Applied to a host system, enables management for up to 4 guests.	0	0	4000 Possible Values: 0 to 100000.
Virtualization Platform (Add-On) Applied to a host system, enables management for unlimited guests.	0	0	4000 Possible Values: 0 to 100000.

Update Organization

Done

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Systems Search

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

NO SYSTEMS SELECTED

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

Acme Widget [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** 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: Display items per page **1 - 231 of 231**

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	None Allotted	No Entitlements Available

<https://host235.tc.redhat.com/rhn/admin/multiorg/OrgSoftwareSubscriptions.do?oid=4>

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redhat.com https://host235.tc.redhat.com/rhn/admin/multiorg/Or

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RHN Satellite - Admin - Organizati...

System FastTrack
Debuginfo (v. 6)

Red Hat Enterprise Linux Server Supplementary (v. 6 IBM System Z)	None Allotted	0 Possible Values: 0 to 5005.	None Allotted	0 Possible Values: 0 to 1000.
Red Hat Enterprise Linux Server Supplementary (v. 6 for IBM POWER)	None Allotted	0 Possible Values: 0 to 99000.	None Allotted	0 Possible Values: 0 to 1000.
Red Hat Enterprise Linux Server Supplementary (v. 6 for IBM POWER) Extended Update Support	None Allotted	0 Possible Values: 0 to 99000.	None Allotted	0 Possible Values: 0 to 1000.
Red Hat Enterprise Linux Server Supplementary (v. 6)	0 / 4000	4000 Possible Values: 0 to 9518.	None Allotted	0 Possible Values: 0 to 1000.
Red Hat Enterprise Linux Server Supplementary Beta (v. 6 IBM System Z)	None Allotted	0 Possible Values: 0 to 5005.	None Allotted	0 Possible Values: 0 to 1000.
Red Hat Enterprise Linux Server Supplementary	None Allotted	0 Possible Values: 0 to 99000.	None Allotted	0 Possible Values: 0 to 1000.

Done

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Debuginfo (v. 6)

Red Hat Enterprise Linux Server Optional (v. 6 IBM System Z)	None Allotted	0 Possible Values: 0 to 5005.	None Allotted	0 Possible Values: 0 to 1000.
Red Hat Enterprise Linux Server Optional (v. 6 for IBM POWER)	None Allotted	0 Possible Values: 0 to 99000.	None Allotted	0 Possible Values: 0 to 1000.
Red Hat Enterprise Linux Server Optional (v. 6 for IBM POWER) Extended Update Support	None Allotted	0 Possible Values: 0 to 99000.	None Allotted	0 Possible Values: 0 to 1000.
Red Hat Enterprise Linux Server Optional (v. 6)	0 / 4000	4000 Possible Values: 0 to 9518.	None Allotted	0 Possible Values: 0 to 1000.
Red Hat Enterprise Linux Server Optional Beta (v. 6 IBM System Z)	None Allotted	0 Possible Values: 0 to 5005.	None Allotted	0 Possible Values: 0 to 1000.
Red Hat Enterprise Linux Server Optional Beta (v. 6 for IBM POWER)	None Allotted	0 Possible Values: 0 to 99000.	None Allotted	0 Possible Values: 0 to 1000.
Red Hat Enterprise Linux Server	None Allotted	0	None Allotted	0

Done

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Red Hat Enterprise Linux Server FasTrack Debuginfo (v. 6 for IBM POWER)	None Allotted	0 Possible Values: 0 to 99000.	None Allotted	0 Possible Values: 0 to 1000.
Red Hat Enterprise Linux Server FasTrack Debuginfo (v. 6)	None Allotted	0 Possible Values: 0 to 9518.	None Allotted	0 Possible Values: 0 to 1000.
Red Hat Enterprise Linux Server High Availability (v. 6)	0 / 4000	4000 Possible Values: 0 to 9511.	None Allotted	0 Possible Values: 0 to 1000.
Red Hat Enterprise Linux Server High Availability Beta (v. 6)	None Allotted	0 Possible Values: 0 to 9511.	None Allotted	0 Possible Values: 0 to 1000.
Red Hat Enterprise Linux Server High Availability Beta Debuginfo (v. 6)	None Allotted	0 Possible Values: 0 to 9511.	None Allotted	0 Possible Values: 0 to 1000.
Red Hat Enterprise Linux Server High Availability Debuginfo (v. 6)	None Allotted	0 Possible Values: 0 to 9511.	None Allotted	0 Possible Values: 0 to 1000.
Red Hat Enterprise Linux Server High Availability	None Allotted	0 Possible Values: 0 to 9511.	None Allotted	0 Possible Values: 0 to 1000.

Done

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

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redhat.com

https://host235.tc.redhat.com/rhn/channels/software/Entitlements.do

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RHN Satellite - Overview - Subscri...

English (change) Knowledgebase Documentation USER: widgetadmin ORGANIZATION: Acme Widget Preferences Sign Out

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Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

NO SYSTEMS SELECTED

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:

1 - 8 of 8

Channel Entitlement	Regular Consumed	Regular Available	Consumed Flex Guests	Available Flex Guests	Systems Subscribed
Acme Widget (4) Channel Family	0	Unlimited	0	Unlimited	0
Red Hat Enterprise Linux Server (v. 6)	0	4000	0	0	0
Red Hat Enterprise Linux Server Clustered Storage (v. 6)	0	4000	0	0	0
Red Hat Enterprise Linux Server High Availability (v. 6)	0	4000	0	0	0
Red Hat Enterprise Linux Server Load Balancer (v. 6)	0	4000	0	0	0

Done

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Madness Break

- Organizations in the cyclotron, now to config files!



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Configuration File Management

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

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RHN Satellite - Configuration - Overview - Mozilla Firefox

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Systems Search

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

NO SYSTEMS SELECTED MANAGE CLEAR

Overview
Configuration Channels
Configuration Files
Systems

Configuration Overview

The list below shows all of the configuration files that are managed by your organization in RHN Satellite. This list includes files that are managed centrally in configuration channels and files that are managed locally via individual system profiles.

Configuration Summary

Systems with Managed Configuration Files:	0 systems
Configuration Channels:	0 channels
Centrally-managed Configuration Files:	0 files
Locally-managed Configuration Files:	0 files

Configuration Actions

- View Systems with Managed Configuration Files
- View All Managed Configuration Files
- View All Managed Configuration Channels
- Create a New Configuration Channel
- Enable Configuration Management on Systems

Recently Modified Configuration Files:

No configuration files.

Recently Scheduled Configuration File Deployments:

https://host235.tc.redhat.com/rhn/configuration/GlobalConfigChannelList.do

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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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RHN Satellite release 5.4.0

https://host235.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 File Channe

Label*: acme-cfg

Description*: This is the configuration file channel for systems managed by Acme IT Operations.

Create Config Channel

Done

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redhat.com https://host235.tc.redhat.com/rhn/configuration/ChannelOverview.do?ccid=

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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 File Channel

Overview Add Files Systems

Channel Properties (Edit Properties)

Name:	Acme Config File Channel
Label:	acme-cfg
Description:	This is the configuration file channel for systems managed by Acme IT Operations.

Channel Information

Number of Files:	No files found
Systems:	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

delete channel

https://host235.tc.redhat.com/rhn/configuration/ChannelUploadFiles.do?ccid=1

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RHN Satellite - Configuration - Add Files - Upload File - Mozilla Firefox

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redhat.com https://host235.tc.redhat.com/rhn/configuration/ChannelUploadFiles.do?ccic

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Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

NO SYSTEMS SELECTED MANAGE CLEAR

Overview Configuration Channels Configuration Files Systems

Acme Config File Channel ? delete channel

Overview Add Files Systems

Upload File Import Files Create File

Upload New Configuration File

File to Upload *: Browse...

Tip: Please note that the maximum allowed size for configuration files is 128 KB.

File Type: ☒ Text file ☐ Binary file

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

https://host235.tc.redhat.com/rhn/configuration/ChannelCreateFiles.do?ccid=1

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RHN Satellite - Configuration - Ad...

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 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 .

Done

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File Contents

```
1 my_system_id={|rhnsystem.sid|}
2 my_rhn_profile_name={|rhnsystem.profile_name|}
3 my_rhn_system_description={|rhnsystem.description|}
4 my_rhn_system_hostname={|rhnsystem.hostname|}
5 my_rhn_system_ip_address={|rhnsystem.ip_address|}
6 my_rhn_eth0_address={|rhnsystem.net_interface.ip_address(eth0)|}
7 my_rhn_eth0_netmask={|rhnsystem.net_interface.netmask(eth0)|}
8 my_rhn_eth0_broadcast={|rhnsystem.net_interface.broadcast(eth0)|}
9 my_rhn_eth0_hardware={|rhnsystem.net_interface.hardware_address(eth0)|}
10 my_rhn_eth0_driver={|rhnsystem.net_interface.driver_module(eth0)|}
11
```

Position: Ln 1, Ch 1 Total: Ln 11, Ch 558

☒ Toggle editor

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

Update Configuration File

Done

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RHN Satellite - Configuration - Configuration Files - Centrally Managed Files - Mozilla Firefox

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

 Centrally-Managed Configuration Files

The list below shows all of the configuration files that are managed centrally via configuration channels. Please note that files managed locally (via a system profile) can override centrally-managed configuration files on particular systems.

Filter by Path: Go 1 - 1 of 1

Path	Configuration Channel	Systems Subscribed*	Systems Overriding
 /etc/acme/acme.cfg	 Acme Config File Channel	(none)	(none)

1 - 1 of 1

* - 'Systems Subscribed' refers to the total number of systems subscribed to a particular file via configuration channel subscription, including those machines currently overriding the file with a locally-managed version.

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Overview Configuration Channels Configuration Files Systems

Centrally Managed Configuration Channels

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 File Channel	acme-cfg	1 file	(none)

1 - 1 of 1

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Madness Break

- Config files in the beaker, now to system groups!



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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 - Overview - Mozilla Firefox

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RHN Satellite - Systems - Ove... http://physics...s/GINTRO.HTML

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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

https://host235.tc.redhat.com/rhn/systems/SystemGroupList.do

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Systems

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

NO SYSTEMS SELECTED MANAGE CLEAR

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

System Groups

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

https://host235.tc.redhat.com/network/systems/groups/create.pxt

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Systems

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

NO SYSTEMS SELECTED MANAGE CLEAR

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*: Austin

Description*: Servers in Austin

Create Group

Done

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RED HAT NETWORK SATELLITE Systems Search

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

NO SYSTEMS SELECTED MANAGE CLEAR

System group **Austin** 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: Display 25 items per page 1 - 1 of 1 (0 selected)

Go

☐	Updates	Health	Group Name	Systems	Use in SSM
☐	☒		Austin	0	Use in SSM

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

[Download CSV](#)

Work With Union Work With Intersection

https://host235.tc.redhat.com/network/systems/groups/create.pxt

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RHN Satellite - Systems - System ...

System Groups

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

System Group Legend

- ☒ OK
- Warning
- Critical

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: Display items per page 1 - 9 of 9 (0 selected)

Go

☐	Updates	Health	Group Name	Systems	Use in SSM
☐	☒		Austin	0	Use in SSM
☐	☒		Database Servers	0	Use in SSM
☐	☒		Development Systems	0	Use in SSM
☐	☒		Mail Servers	0	Use in SSM
☐	☒		Production Systems	0	Use in SSM
☐	☒		QA Systems	0	Use in SSM
☐	☒		Raleigh	0	Use in SSM
☐	☒		Web Servers	0	Use in SSM
☐	☒		Westford	0	Use in SSM

Update List Select All

[Download CSV](#)

1 - 9 of 9 (0 selected)

Work With Union Work With Intersection

Done

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Madness Break

- System groups in the autoclave. Channel cloning next!



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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.

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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

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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!)

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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

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Channel Cloning

- This web UI is great for cloning the original state 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, 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

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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 Server (v. 6 for 64-bit x86_64)	Red Hat, Inc.	3968	0
└ RHEL Server High Availability (v. 6 for 64-bit x86_64)	Red Hat, Inc.	44	0
└ RHEL Server Load Balancer (v. 6 for 64-bit x86_64)	Red Hat, Inc.	2	0
└ RHEL Server Optional (v. 6 64-bit x86_64)	Red Hat, Inc.	2999	0
└ RHEL Server Resilient Storage (v. 6 for 64-bit x86_64)	Red Hat, Inc.	44	0
└ RHEL Server Supplementary (v. 6 64-bit x86_64)	Red Hat, Inc.	100	0

https://host235.tc.redhat.com/rhn/channels/manage/Manage.do

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NO SYSTEMS SELECTED MANAGE CLEAR

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

Software Channel Management

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.

[create new channel](#) [clone channel](#)

Channel Name	Packages
No channels found.	

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https://host235.tc.redhat.com/network/software/channels/manage/clone.pxt?pxt:trap=rhn:empty_set&set_label=errata_clone_actions

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Manage Software Packages

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

Done

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Parent Channel:	None
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*:	Red Hat Enterprise Linux Server (v. 6 for 64-bit AMD)
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:	

Done

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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



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redhat.com https://host235.tc.redhat.com/rhn/channels/manage/Edit.do?cid=141

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

Channel Description: This is a development channel for RHEL 6 x86_64

Last Sync Time:

Contact/Support Information

Maintainer Name: Thomas Cameron

Maintainer Contact Information: Email Address: thomas@redhat.com
Phone Number: 512-555-1212

Support Policy: All packages in this channel are supported.

Done

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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

Done

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Channel Cloning

- Now clone the appropriate child channels

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

Software Channel Management

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)	3968

1 - 1 of 1

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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 Supplementary (v. 6 64-bit 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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Parent Channel:	DEV Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)
Channel Name*:	DEV RHEL Server Supplementary (v. 6 64-bit x86_64) Ex: Custom Channel
Channel Label*:	dev-rhel-x86_64-server-supplementary-6 Ex: custom-channel
Base Channel Architecture*:	x86_64
Channel Package Summary:	n/a
Channel Summary*:	Red Hat Enterprise Linux Server Supplementary Soft
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:	

Done

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

Software Channel Management

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)	3968
DEV RHEL Server Supplementary (v. 6 64-bit x86_64)	100

1 - 2 of 2

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RHN Satellite release 5.4.0

https://host235.tc.redhat.com/rhn/channels/manage/Edit.do

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Software Channels
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Manage Software Packages
Manage Repositories

Software Channel Management

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 items per page 1 - 7 of 7

Channel Name	Packages
DEV Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	3968
└ DEV RHEL Server High Availability (v. 6 for 64-bit x86_64)	44
└ DEV RHEL Server Load Balancer (v. 6 for 64-bit x86_64)	2
└ DEV RHEL Server Optional (v. 6 64-bit x86_64)	2999
└ DEV RHEL Server Resilient Storage (v. 6 for 64-bit x86_64)	44
└ DEV RHEL Server Supplementary (v. 6 64-bit x86_64)	100
└ DEV RHN Tools for RHEL (v. 6 for 64-bit x86_64)	31

1 - 7 of 7

create new channel
clone channel

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Channel Cloning

- 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.
- See <http://bit.ly/fQCW71> for the release dates of all Red Hat Enterprise Linux versions.



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

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redhat.com https://host235.tc.redhat.com/rhn/channels/manage/errata/ListRemove.do?c

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Manage Software Packages
Manage Repositories

 **DEV RHEL Server High Availability (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 items per page 1 - 7 of 7 (0 selected)

☐	Type	Advisory	Synopsis	Updated
☐		CLA-2011:0361	cluster and gfs2-utils bug fix update	3/16/11
☐		CLA-2011:0363	fence-agents bug fix update	3/16/11
☐		CLA-2011:0360	corosync bug fix update	3/16/11
☐		CLA-2010:0904	fence-agents enhancement update	11/21/10
☐		CLA-2010:0844	cluster and gfs2-utils bug fix update	11/9/10
☐		CLA-2010:0835	resource-agents bug fix update	11/9/10

javascript:sortColumn('list_1154021400_sortby_id', 'updateDateObj', 'list_1154021400_sortdir_id', 'asc')

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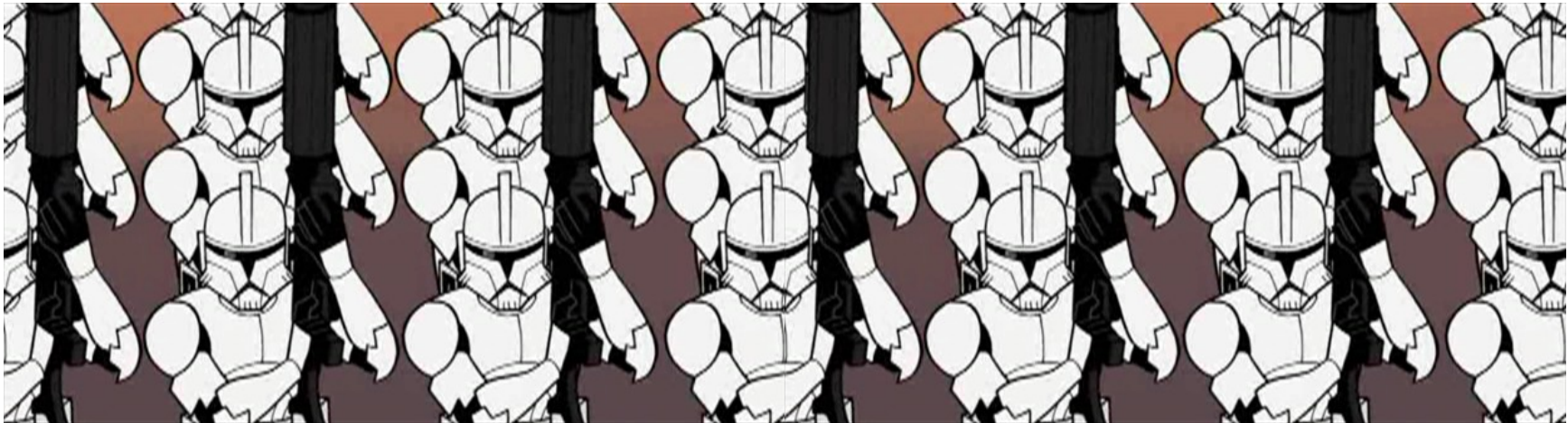
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Channel Cloning

- Now clone the clone. Clone DEV to QA. Then clone the QA channels to PROD.
- As new errata become available from Red Hat, you will clone them to DEV. After you've done the development work in DEV, clone them to QA. Once you are ready to put them into production, clone away.



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DEV Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	3968
└ DEV RHEL Server High Availability (v. 6 for 64-bit x86_64)	44
└ DEV RHEL Server Load Balancer (v. 6 for 64-bit x86_64)	2
└ DEV RHEL Server Optional (v. 6 64-bit x86_64)	2999
└ DEV RHEL Server Resilient Storage (v. 6 for 64-bit x86_64)	44
└ DEV RHEL Server Supplementary (v. 6 64-bit x86_64)	100
└ DEV RHN Tools for RHEL (v. 6 for 64-bit x86_64)	31
PROD Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	3968
└ PROD DEV RHEL Server Load Balancer (v. 6 for 64-bit x86_64)	2
└ PROD RHEL Server High Availability (v. 6 for 64-bit x86_64)	44
└ PROD RHEL Server Optional (v. 6 64-bit x86_64)	2999
└ PROD RHEL Server Resilient Storage (v. 6 for 64-bit x86_64)	44
└ PROD RHEL Server Supplementary (v. 6 64-bit x86_64)	100
└ PROD RHN Tools for RHEL (v. 6 for 64-bit x86_64)	31
QA Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	3968
└ QA DEV RHEL Server Load Balancer (v. 6 for 64-bit x86_64)	2
└ QA RHEL Server High Availability (v. 6 for 64-bit x86_64)	44
└ QA RHEL Server Optional (v. 6 64-bit x86_64)	2999
└ QA RHEL Server Resilient Storage (v. 6 for 64-bit x86_64)	44
└ QA RHEL Server Supplementary (v. 6 64-bit x86_64)	100
└ QA RHN Tools for RHEL (v. 6 for 64-bit x86_64)	31

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Madness Break

- Channel cloning is in the Petri dish, on to locked channels



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Locked Channels

- To create a locked channel, use `spacewalk-create-channel` from the `spacewalk-remote-utils` package



```
root@host235:~  
File Edit View Search Terminal Help  
spacewalk-remote-utils  
noarch 1.0.2-6.el5sat rhn-tools-rhel-x86_64-server-5 4.2 M  
  
Transaction Summary  
=====
```

Install	1 Package(s)
Upgrade	0 Package(s)

```
  
Total download size: 4.2 M  
Is this ok [y/N]: y  
Downloading Packages:  
spacewalk-remote-utils-1.0.2-6.el5sat.noarch.rpm | 4.2 MB 00:03  
Running rpm_check_debug  
Running Transaction Test  
Finished Transaction Test  
Transaction Test Succeeded  
Running Transaction  
Installing : spacewalk-remote-utils 1/1  
  
Installed:  
spacewalk-remote-utils.noarch 0:1.0.2-6.el5sat  
  
Complete!  
[root@host235 ~]#
```



```
root@host235:~  
File Edit View Search Terminal Help  
[root@host235 ~]# spacewalk-create-channel \  
> --server=host235.tc.redhat.com \  
> --user=widgetadmin \  
> --password=password \  
> --version=6 \  
> --release=Server \  
> --arch=x86_64 \  
> --update=gold \  
> --destChannel=my-6-gold-server-x86_64 \  
> --clone \  
> --name="My Cloned RHEL 6 Server x86_64"  
You have not specified a source channel, we will try to determine it from inputs  
Trying with source channel: rhel-x86_64-server-6  
Cloning channel rhel-x86_64-server-6 to my-6-gold-server-x86_64 3431 packages in  
source file to push.  
Pushing 3391 packages, please wait.  
Sucessfully pushed 3391 packages out of 3431  
[root@host235 ~]#
```

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- 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)	Acme Widget	3968	0
☐ My Cloned RHEL 6 Server x86_64	Acme Widget	3391	0
☒ PROD Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Acme Widget	3968	0
☒ QA Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Acme Widget	3968	0
☒ Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Red Hat, Inc.	3968	0

Done

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```
root@host235:~  
File Edit View Search Terminal Help  
[root@host235 ~]# spacewalk-create-channel \  
> --server=host235.tc.redhat.com \  
> --user=widgetadmin \  
> --password=password \  
> --version=6 \  
> --release=Server \  
> --arch=x86_64 \  
> --update=gold \  
> --parentChannel=my-6-gold-server-x86_64 \  
> --sourceChannel=rhel-x86_64-server-ha-6 \  
> --destChannel=my-6-gold-server-x86_64-Highavailability \  
> --clone \  
> --name="My Cloned RHEL 6 Server High Availability x86_64"  
Trying with source channel: rhel-x86_64-server-ha-6  
Cloning channel rhel-x86_64-server-ha-6 to my-6-gold-server-x86_64-highavailabil  
ity with parent my-6-gold-server-x86_64  
3431 packages in source file to push.  
Pushing 29 packages, please wait.  
Sucessfully pushed 29 packages out of 3431  
[root@host235 ~]#
```



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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)	Acme Widget	3968	0
- My Cloned RHEL 6 Server x86_64	Acme Widget	3391	0
- My Cloned RHEL 6 Server High Availability x86_64	Acme Widget	29	0
+ PROD Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Acme Widget	3968	0
+ QA Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Acme Widget	3968	0
+ Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Red Hat, Inc.	3968	0

Done

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```
root@host235:~  
File Edit View Search Terminal Help  
[root@host235 ~]# spacewalk-create-channel \  
> --server=host235.tc.redhat.com \  
> --user=widgetadmin \  
> --password=password \  
> --version=6 \  
> --release=Server \  
> --arch=x86_64 \  
> --update=gold \  
> --parentChannel=my-6-gold-server-x86_64 \  
> --sourceChannel=rhel-x86_64-server-lb-6 \  
> --destChannel=my-6-gold-server-x86_64-Loadbalancer \  
> --clone \  
> --name="My Cloned RHEL 6 Load Balancer x86_64"  
Trying with source channel: rhel-x86_64-server-lb-6  
Cloning channel rhel-x86_64-server-lb-6 to my-6-gold-server-x86_64-loadbalancer  
with parent my-6-gold-server-x86_64  
3431 packages in source file to push.  
Pushing 2 packages, please wait.  
Sucessfully pushed 2 packages out of 3431  
[root@host235 ~]#
```



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Full Software Channel List

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

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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)	Acme Widget	3968	0
- My Cloned RHEL 6 Server x86_64	Acme Widget	3391	0
└ My Cloned RHEL 6 Load Balancer x86_64	Acme Widget	2	0
└ My Cloned RHEL 6 Server High Availability x86_64	Acme Widget	29	0
+ PROD Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Acme Widget	3968	0
+ QA Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Acme Widget	3968	0
+ Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Red Hat, Inc.	3968	0

Done

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```
root@host235:~
File Edit View Search Terminal Help
[root@host235 ~]# spacewalk-create-channel \
> --server=host235.tc.redhat.com \
> --user=widgetadmin \
> --password=password \
> --version=6 \
> --release=Server \
> --arch=x86_64 \
> --update=gold \
> --parentChannel=my-6-gold-server-x86_64 \
> --sourceChannel=rhel-x86_64-server-rs-6 \
> --destChannel=my-6-gold-server-x86_64-Resilientstorage \
> --clone \
> --name="My Cloned RHEL 6 Resilient Storage x86_64"
Trying with source channel: rhel-x86_64-server-rs-6
Cloning channel rhel-x86_64-server-rs-6 to my-6-gold-server-x86_64-resilientstor
age with parent my-6-gold-server-x86_64
3431 packages in source file to push.
Pushing 23 packages, please wait.
Sucessfully pushed 23 packages out of 3431
[root@host235 ~]#
```

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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)	Acme Widget	3968	0
- My Cloned RHEL 6 Server x86_64	Acme Widget	3391	0
- My Cloned RHEL 6 Load Balancer x86_64	Acme Widget	2	0
- My Cloned RHEL 6 Resilient Storage x86_64	Acme Widget	23	0
- My Cloned RHEL 6 Server High Availability x86_64	Acme Widget	29	0
+ PROD Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Acme Widget	3968	0
+ QA Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Acme Widget	3968	0
+ Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Red Hat, Inc.	3968	0

Done

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```
root@host235:~  
File Edit View Search Terminal Help  
[root@host235 ~]# spacewalk-create-channel \  
> --server=host235.tc.redhat.com \  
> --user=widgetadmin \  
> --password=password \  
> --version=6 \  
> --release=Server \  
> --arch=x86_64 \  
> --update=gold \  
> --parentChannel=my-6-gold-server-x86_64 \  
> --sourceChannel=rhel-x86_64-server-supplementary-6 \  
> --destChannel=my-6-gold-server-x86_64-Supplementary \  
> --extra=Supplementary \  
> --clone \  
> --name="My Cloned RHEL 6 Supplementary x86_64"  
Trying with source channel: rhel-x86_64-server-supplementary-6  
Cloning channel rhel-x86_64-server-supplementary-6 to my-6-gold-server-x86_64-su  
pplementary with parent my-6-gold-server-x86_64  
30 packages in source file to push.  
Pushing 18 packages, please wait.  
Sucessfully pushed 18 packages out of 30  
[root@host235 ~]#
```



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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)	Acme Widget	3968	0
My Cloned RHEL 6 Server x86_64	Acme Widget	3391	0
My Cloned RHEL 6 Load Balancer x86_64	Acme Widget	2	0
My Cloned RHEL 6 Resilient Storage x86_64	Acme Widget	23	0
My Cloned RHEL 6 Server High Availability x86_64	Acme Widget	29	0
My Cloned RHEL 6 Supplementary x86_64	Acme Widget	30	0
PROD Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Acme Widget	3968	0
QA Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Acme Widget	3968	0

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```
root@host235:~  
File Edit View Search Terminal Help  
[root@host235 ~]# spacewalk-create-channel \  
> --server=host235.tc.redhat.com \  
> --user=widgetadmin \  
> --password=password \  
> --version=6 \  
> --release=Server \  
> --arch=x86_64 \  
> --update=gold \  
> --parentChannel=my-6-gold-server-x86_64 \  
> --sourceChannel=rhel-x86_64-server-optional-6 \  
> --destChannel=my-6-gold-server-x86_64-Optional \  
> --clone \  
> --name="My Cloned RHEL 6 Optional x86_64"  
Trying with source channel: rhel-x86_64-server-optional-6  
Cloning channel rhel-x86_64-server-optional-6 to my-6-gold-server-x86_64-optional  
with parent my-6-gold-server-x86_64  
3431 packages in source file to push.  
Pushing 0 packages, please wait.  
Sucessfully pushed 0 packages out of 3431  
[root@host235 ~]#
```



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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
DEV Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Acme Widget	3968	0
My Cloned RHEL 6 Server x86_64	Acme Widget	3391	0
My Cloned RHEL 6 Load Balancer x86_64	Acme Widget	2	0
My Cloned RHEL 6 Optional x86_64	Acme Widget	2593	0
My Cloned RHEL 6 Resilient Storage x86_64	Acme Widget	23	0
My Cloned RHEL 6 Server High Availability x86_64	Acme Widget	29	0
My Cloned RHEL 6 Supplementary x86_64	Acme Widget	30	0
PROD Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Acme Widget	3968	0

Done

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Locked Channels

- Note that RHN Tools are not released as updates like Red Hat Enterprise Linux. Even if you use spacewalk-create-channel, you will get a channel with 0 RPMs:



```
root@host235:~  
File Edit View Search Terminal Help  
[root@host235 ~]# spacewalk-create-channel \  
> --server=host235.tc.redhat.com \  
> --user=widgetadmin \  
> --password=password \  
> --version=6 \  
> --release=Server \  
> --arch=x86_64 \  
> --update=gold \  
> --parentChannel=my-6-gold-server-x86_64 \  
> --sourceChannel=rhn-tools-rhel-x86_64-server-6 \  
> --destChannel=my-6-gold-server-x86_64-RHNTools \  
> --clone \  
> --name="My Cloned RHEL 6 RHN Tools x86_64"  
Trying with source channel: rhn-tools-rhel-x86_64-server-6  
Cloning channel rhn-tools-rhel-x86_64-server-6 to my-6-gold-server-x86_64-rhntoo  
ls with parent my-6-gold-server-x86_64  
3431 packages in source file to push.  
Pushing 0 packages, please wait.  
Sucessfully pushed 0 packages out of 3431  
[root@host235 ~]#
```



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🔗 RHN Satellite - Channels - Softwar... +

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
+ DEV Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Acme Widget	3968	0
- My Cloned RHEL 6 Server x86_64	Acme Widget	3391	0
└ My Cloned RHEL 6 Load Balancer x86_64	Acme Widget	2	0
└ My Cloned RHEL 6 Optional x86_64	Acme Widget	2593	0
└ My Cloned RHEL 6 Resilient Storage x86_64	Acme Widget	23	0
└ My Cloned RHEL 6 RHN Tools x86_64	Acme Widget	0	0
└ My Cloned RHEL 6 Server High Availability x86_64	Acme Widget	29	0
└ My Cloned RHEL 6 Supplementary x86_64	Acme Widget	30	0
+ PROD Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Acme Widget	3968	0
+ QA Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Acme Widget	3968	0

Done

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Locked Channels

- Use the web UI to copy the latest RHN tools into the channel.

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RHN Satellite - Channels - Softwar...

English (change) Knowledgebase Documentation USER: widgetadmin ORGANIZATION: Acme Widget 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
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- Package Search
- Manage Software Channels

Full Software Channel List

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

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+ My Cloned RHEL 6 Server x86_64	Acme Widget	3391	0
+ PROD Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Acme Widget	3968	0
+ QA Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Acme Widget	3968	0
+ Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Red Hat, Inc.	3968	0

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https://host235.tc.redhat.com/rhn/channels/manage/Manage.do

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RHN Satellite - Channels - Manag...

Filter by Channel Name: Go Display 500 items per page

Channel Name	Packages
DEV Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	3968
DEV RHEL Server High Availability (v. 6 for 64-bit x86_64)	44
DEV RHEL Server Load Balancer (v. 6 for 64-bit x86_64)	2
DEV RHEL Server Optional (v. 6 64-bit x86_64)	2999
DEV RHEL Server Resilient Storage (v. 6 for 64-bit x86_64)	44
DEV RHEL Server Supplementary (v. 6 64-bit x86_64)	100
DEV RHN Tools for RHEL (v. 6 for 64-bit x86_64)	31
My Cloned RHEL 6 Server x86_64	3391
My Cloned RHEL 6 Load Balancer x86_64	2
My Cloned RHEL 6 Optional x86_64	2593
My Cloned RHEL 6 Resilient Storage x86_64	23
My Cloned RHEL 6 RHN Tools x86_64	0
My Cloned RHEL 6 Server High Availability x86_64	29
My Cloned RHEL 6 Supplementary x86_64	30
PROD Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	3968
PROD DEV RHEL Server Load Balancer (v. 6 for 64-bit x86_64)	2
PROD RHEL Server High Availability (v. 6 for 64-bit x86_64)	44
PROD RHEL Server Optional (v. 6 64-bit x86_64)	2999
PROD RHEL Server Resilient Storage (v. 6 for 64-bit x86_64)	44
PROD RHEL Server Supplementary (v. 6 64-bit x86_64)	100
PROD RHN Tools for RHEL (v. 6 for 64-bit x86_64)	31
QA Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	3968
QA DEV RHEL Server Load Balancer (v. 6 for 64-bit x86_64)	2
QA RHEL Server High Availability (v. 6 for 64-bit x86_64)	44

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English (change) Knowledgebase Documentation USER: widgetadmin ORGANIZATION: Acme Widget 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
Package Search
Manage Software Channels
Manage Software Packages
Manage Repositories

My Cloned RHEL 6 RHN Tools x86_64 ? delete software channel

Details Managers Errata Packages Repositories

List / Remove Add Compare

Packages

- List / Remove Packages
- Add Packages
- Compare Packages

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https://host235.tc.redhat.com/rhn/channels/manage/ChannelPackagesAdd.do?cid=234

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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

My Cloned RHEL 6 RHN Tools x86_64

delete software channel

Details Managers Errata Packages Repositories

List / Remove Add Compare

Below is the list of packages you can add to this channel. The "Channel" select box allows you to restrict the set of available packages. To add a package to this channel, select it here, and click 'Add Packages' below. Only packages of a compatible arch will be shown

Add Packages

Channel: RHN Tools for RHEL (v. 6 for 64-bit x86_64) View 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 500 items per page 1 - 31 of 31 (31 selected)

Package	Summary	Content Provider
☒ jabberpy-0.5-0.19.el6sat.noarch	Python xmlstream and jabber IM protocol libs	Unknown
☒ koan-2.0.7-2.el6sat.noarch	Helper tool that performs cobbler orders on remote machines.	Unknown
☒ koan-2.0.7-6.el6sat.noarch	Helper tool that performs cobbler orders on remote	Unknown

Done

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RHN Satellite - Channels - Manage Software Channels - Packages - Add - Mozilla Firefox

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RHN Satellite - Channels - Manag...

☒	5.4.14-1.el6sat.noarch		
☒	rhn-virtualization-common-5.4.14-3.el6sat.noarch	Files needed by rhn-virtualization-host	Unknown
☒	rhn-virtualization-host-5.4.14-1.el6sat.noarch	RHN/Spacewalk Virtualization support specific to the Host system	Unknown
☒	rhn-virtualization-host-5.4.14-3.el6sat.noarch	RHN/Spacewalk Virtualization support specific to the Host system	Unknown
☒	spacewalk-backend-libs-1.2.13-10.el6sat.noarch	Spacewalk server and client tools libraries	Unknown
☒	spacewalk-backend-libs-1.2.13-32.el6sat.noarch	Spacewalk server and client tools libraries	Unknown
☒	spacewalk-certs-tools-1.1.1-1.el6sat.noarch	Spacewalk SSL Key/Cert Tool	Unknown
☒	spacewalk-koan-0.2.7-5.el6sat.noarch	Support package for spacewalk koan interaction	Unknown
☒	spacewalk-koan-0.2.7-7.el6sat.noarch	Support package for spacewalk koan interaction	Unknown
☒	spacewalk-proxy-installer-1.1.2-1.el6sat.noarch	Command Line Installer of Spacewalk Proxy Server	Unknown
☒	spacewalk-remote-utils-1.0.2-3.el6sat.noarch	Utilities to interact with a Satellite or Spacewalk server remotely.	Unknown
☒	spacewalk-remote-utils-1.0.2-6.el6sat.noarch	Utilities to interact with a Satellite or Spacewalk server remotely.	Unknown

Update List Select All 1 - 31 of 31 (31 selected)

Confirm Addition

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RHN Satellite - Channels - Manag...

5.4.14-1.el6sat.noarch		
rhn-virtualization-common-5.4.14-3.el6sat.noarch	Files needed by rhn-virtualization-host	Unknown
rhn-virtualization-host-5.4.14-1.el6sat.noarch	RHN/Spacewalk Virtualization support specific to the Host system	Unknown
rhn-virtualization-host-5.4.14-3.el6sat.noarch	RHN/Spacewalk Virtualization support specific to the Host system	Unknown
spacewalk-backend-libs-1.2.13-10.el6sat.noarch	Spacewalk server and client tools libraries	Unknown
spacewalk-backend-libs-1.2.13-32.el6sat.noarch	Spacewalk server and client tools libraries	Unknown
spacewalk-certs-tools-1.1.1-1.el6sat.noarch	Spacewalk SSL Key/Cert Tool	Unknown
spacewalk-koan-0.2.7-5.el6sat.noarch	Support package for spacewalk koan interaction	Unknown
spacewalk-koan-0.2.7-7.el6sat.noarch	Support package for spacewalk koan interaction	Unknown
spacewalk-proxy-installer-1.1.2-1.el6sat.noarch	Command Line Installer of Spacewalk Proxy Server	Unknown
spacewalk-remote-utils-1.0.2-3.el6sat.noarch	Utilities to interact with a Satellite or Spacewalk server remotely.	Unknown
spacewalk-remote-utils-1.0.2-6.el6sat.noarch	Utilities to interact with a Satellite or Spacewalk server remotely.	Unknown

1 - 31 of 31

Download CSV

Add Package(s)

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RHN Satellite - Channels - Manage Software Channels - Packages - List / Remove - Mozilla Firefox

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RHN Satellite - Channels - Manag...

English (change) Knowledgebase Documentation USER: widgetadmin ORGANIZATION: Acme Widget 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
Package Search
Manage Software Channels
Manage Software Packages
Manage Repositories

System Group Legend
OK
Warning
Critical

31 package(s) added to channel My Cloned RHEL 6 RHN Tools x86_64

My Cloned RHEL 6 RHN Tools x86_64 delete software channel

Details Managers Errata Packages Repositories
List / Remove Add Compare

Channel 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 500 items per page 1 - 31 of 31 (0 selected)

Package	Summary	Content Provider
☐ jabberpy-0.5-0.19.el6sat.noarch	Python xmlstream and jabber IM protocol libs	Unknown
☐ koan-2.0.7-2.el6sat.noarch	Helper tool that performs cobbler orders on remote machines.	Unknown
☐ koan-2.0.7-6.el6sat.noarch	Helper tool that performs cobbler orders on remote machines.	Unknown
☐ osad-5.9.38-1.el6sat.noarch	Open Source Architecture Daemon	Unknown

Done

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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
+ DEV Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Acme Widget	3968	0
- My Cloned RHEL 6 Server x86_64	Acme Widget	3391	0
- My Cloned RHEL 6 Load Balancer x86_64	Acme Widget	2	0
- My Cloned RHEL 6 Optional x86_64	Acme Widget	2593	0
- My Cloned RHEL 6 Resilient Storage x86_64	Acme Widget	23	0
- My Cloned RHEL 6 RHN Tools x86_64	Acme Widget	31	0
- My Cloned RHEL 6 Server High Availability x86_64	Acme Widget	29	0
- My Cloned RHEL 6 Supplementary x86_64	Acme Widget	30	0
+ PROD Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Acme Widget	3968	0
+ QA Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Acme Widget	3968	0
+ Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Red Hat, Inc.	3968	0

Done

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Locked Channels

- The man page for `spacewalk-create-channel` describes how to update a channel cloned with it to a newer update.
 - e.g. change `--update=gold` to `--update=1`



Madness Break

- Locked channels x-rayed, now on to internally developed or third party packages!



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Internally developed or third party packages

- 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 in the next hour.

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Internally developed or third party packages

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



Internally developed or third party packages

- Web UI

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Internally developed or third party packages

- 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 the “foo” application.



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RHN Satellite - Channels - Manag...

English (change) Knowledgebase Documentation

USER: widgetadmin ORGANIZATION: Acme
Widget Preferences Sign Out

RED HAT NETWORK SATELLITE

Systems

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: Display items per page 1 - 28 of 28

Go

Channel Name	Packages
DEV Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	3968
DEV RHEL Server High Availability (v. 6 for 64-bit x86_64)	44
DEV RHEL Server Load Balancer (v. 6 for 64-bit x86_64)	2
DEV RHEL Server Optional (v. 6 64-bit x86_64)	2999
DEV RHEL Server Resilient Storage (v. 6 for 64-bit x86_64)	44
DEV RHEL Server Supplementary (v. 6 64-bit x86_64)	100

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RHN Satellite - Channels - Manag...

- 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*:	Foo for RHEL Server (v. 6 for 64-bit x86_64)
Channel Label*:	foo-rhel-6-x86_64
Parent Channel:	Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)
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

Done

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RHN Satellite - Channels - Manag...

Channel Summary*: Foo package created for Acme Widget Corp

Channel Description: Foo package created for RHEL 6 x86_64 architecture at Acme Widget Corporation.

Contact/Support Information

Maintainer Name: Thomas Cameron

Maintainer Contact Information: Email Address: thomas@redhat.com
Phone Number: 512-241-0774

Support Policy: Monday through Friday, business hours.

Channel Access Control

Done

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RHN Satellite - Channels - Manag...

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

Done

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Software Channels

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Full Software Channel List

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](#)

Channel Name	Provider	Packages	Systems
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+ My Cloned RHEL 6 Server x86_64	Acme Widget	3391	0
+ PROD Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Acme Widget	3968	0
+ QA Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Acme Widget	3968	0
- Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Red Hat, Inc.	3978	0
└ Foo for RHEL Server (v. 6 for 64-bit x86_64)	Acme Widget	0	0
└ RHEL Server High Availability (v. 6 for 64-bit x86_64)	Red Hat, Inc.	44	0
└ RHEL Server Load Balancer (v. 6 for 64-bit x86_64)	Red Hat, Inc.	2	0
└ RHEL Server Optional (v. 6 64-bit x86_64)	Red Hat, Inc.	3004	0
└ RHEL Server Resilient Storage (v. 6 for 64-bit x86_64)	Red Hat, Inc.	44	0

https://host235.tc.redhat.com/rhn/channels/ChannelDetail.do?cid=242

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Internally developed or third party packages

- Command line

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Internally developed or third party packages

- 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

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Internally developed or third party packages

- Sign your package

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```
makerpm@host236:~  
File Edit View Search Terminal Help  
[makerpm@host236 ~]$ rpm --resign rpmbuild/RPMS/x86_64/foo-1.0-1.el6.x86_64.rpm  
Enter pass phrase:  
Pass phrase is good.  
rpmbuild/RPMS/x86_64/foo-1.0-1.el6.x86_64.rpm:  
[makerpm@host236 ~]$ rpm -v --checksig rpmbuild/RPMS/x86_64/foo-1.0-1.el6.x86_64  
.rpm  
rpmbuild/RPMS/x86_64/foo-1.0-1.el6.x86_64.rpm:  
  Header V4 RSA/SHA1 Signature, key ID 406f995c: OK  
  Header SHA1 digest: OK (012792e1b3384b2b7dc30ba96d57725271de8c4e)  
  V4 RSA/SHA1 Signature, key ID 406f995c: OK  
  MD5 digest: OK (cd2561676c1482c7d16a36f09ea7c0da)  
[makerpm@host236 ~]$
```

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Internally developed or third party packages

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

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```
root@host236:~  
File Edit View Search Terminal Help  
Total download size: 190 k  
Installed size: 0  
Is this ok [y/N]: y  
Downloading Packages:  
(1/2): rhnpush-5.5.4-11.el6sat.noarch.rpm | 85 kB 00:00  
(2/2): spacewalk-backend-libs-1.2.13-32.el6sat.noarch.rp | 105 kB 00:00  
-----  
Total 772 kB/s | 190 kB 00:00  
Running rpm_check_debug  
Running Transaction Test  
Transaction Test Succeeded  
Running Transaction  
Installing : spacewalk-backend-libs-1.2.13-32.el6sat.noarch 1/2  
Installing : rhnpush-5.5.4-11.el6sat.noarch 2/2  
  
Installed:  
rhnpush.noarch 0:5.5.4-11.el6sat  
  
Dependency Installed:  
spacewalk-backend-libs.noarch 0:1.2.13-32.el6sat  
  
Complete!  
[root@host236 ~]#
```

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Internally developed or third party packages

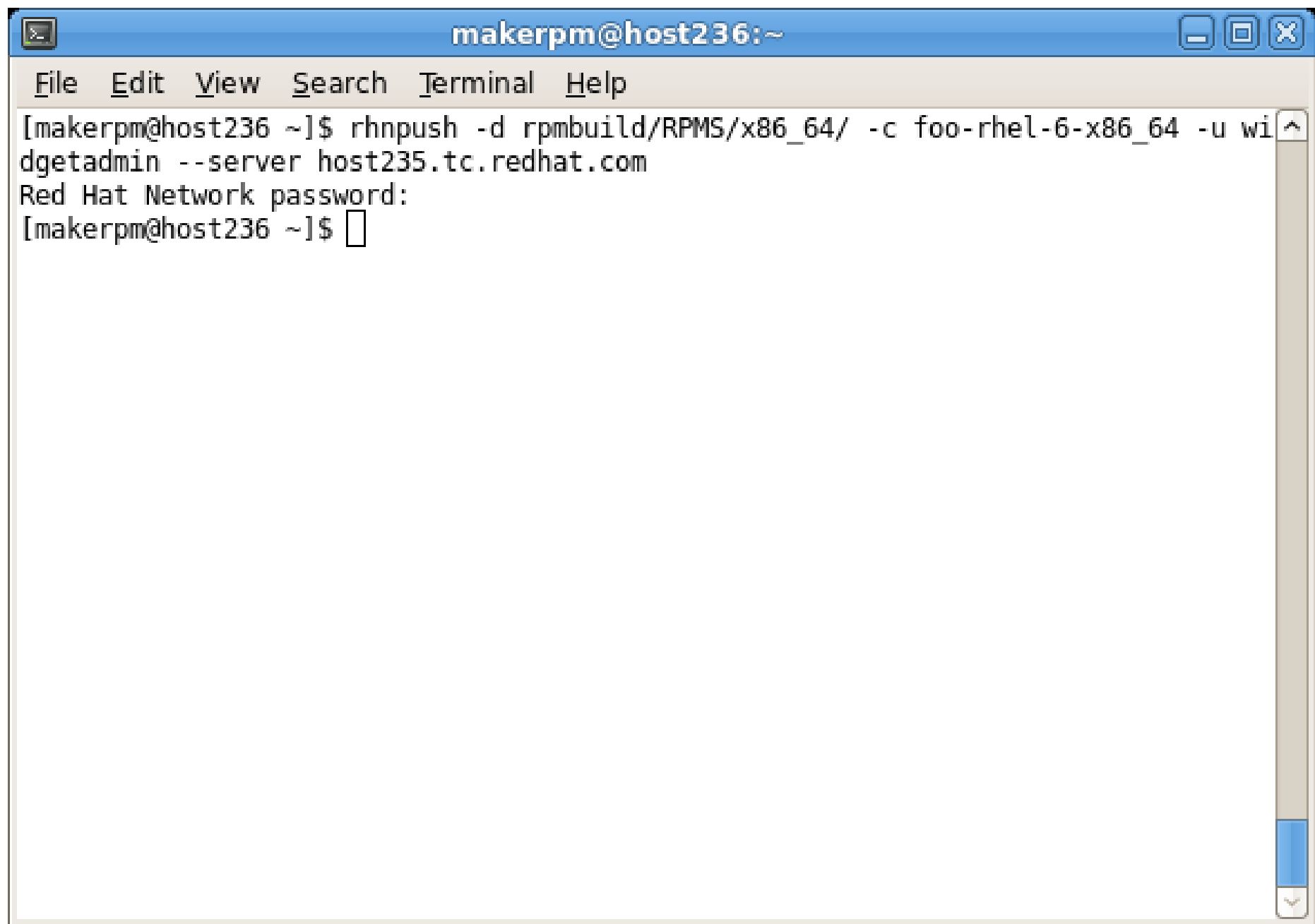
- Upload the package using `rhnpush`:

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A terminal window titled "makerpm@host236:~" with standard window controls. The menu bar includes File, Edit, View, Search, Terminal, and Help. The terminal content shows a command being executed, a password prompt, and the command's completion.

```
makerpm@host236:~  
File Edit View Search Terminal Help  
[makerpm@host236 ~]$ rhnpush -d rpmbuild/RPMS/x86_64/ -c foo-rhel-6-x86_64 -u wi  
dgetadmin --server host235.tc.redhat.com  
Red Hat Network password:  
[makerpm@host236 ~]$
```

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RHN Satellite - Channels - Software Channels - All Channels - All Channels - Mozilla Firefox

File Edit View History Bookmarks Tools Help

redhat.com https://host235.tc.redhat.com/rhn/software/channels

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RHN Satellite - Channels - Softwar...

All Channels
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)	Acme Widget	3968	0
+ My Cloned RHEL 6 Server x86_64	Acme Widget	3391	0
+ PROD Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Acme Widget	3968	0
+ QA Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Acme Widget	3968	0
- Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Red Hat, Inc.	3978	0
└ Foo for RHEL Server (v. 6 for 64-bit x86_64)	Acme Widget	1	0
└ RHEL Server High Availability (v. 6 for 64-bit x86_64)	Red Hat, Inc.	44	0
└ RHEL Server Load Balancer (v. 6 for 64-bit x86_64)	Red Hat, Inc.	2	0
└ RHEL Server Optional (v. 6 64-bit x86_64)	Red Hat, Inc.	3004	0
└ RHEL Server Resilient Storage (v. 6 for 64-bit x86_64)	Red Hat, Inc.	44	0
└ RHEL Server Supplementary (v. 6 64-bit x86_64)	Red Hat, Inc.	100	0
└ RHN Tools for RHEL (v. 6 for 64-bit x86_64)	Red Hat, Inc.	31	0

Done

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Internally developed or third party packages

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

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

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[redhat.com](#)
<https://host235.tc.redhat.com/rhn/keys/CryptoKeysLi>

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RHN Satellite - Systems - Kickstart...

English (change) Knowledgebase Documentation

USER: **widgetadmin** | ORGANIZATION: Acme
Widget | Preferences | Sign Out

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NO SYSTEMS SELECTED MANAGE CLEAR

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Kickstart
Profiles
Bare Metal
GPG and SSL Keys
Distributions
File Preservation
Kickstart Snippets

i
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 items per page 1 - 1 of 1

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

1 - 1 of 1

<https://host235.tc.redhat.com/rhn/keys/CryptoKeyCreate.do>

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

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redhat.com https://host235.tc.redhat.com/rhn/keys/CryptoKeyCre

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RHN Satellite - Systems - Kickstart...

NO SYSTEMS SELECTED MANAGE CLEAR

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: *	top/ACME-WIDGET-GPG-KEY 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.

Done

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

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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 500 items per page 1 - 2 of 2

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

Done

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Internally developed or third party packages

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



```
makerpm@host236:~  
File Edit View Search Terminal Help  
[makerpm@host236 ~]$ scp ACME-WIDGET-GPG-KEY root@host235.tc.redhat.com:/var/www/html/pub  
The authenticity of host 'host235.tc.redhat.com (172.31.100.235)' can't be established.  
RSA key fingerprint is 5f:b9:93:7a:3f:d2:c1:18:dd:1f:08:57:6e:a5:0f:36.  
Are you sure you want to continue connecting (yes/no)? yes  
Warning: Permanently added 'host235.tc.redhat.com,172.31.100.235' (RSA) to the list of known hosts.  
root@host235.tc.redhat.com's password:  
ACME-WIDGET-GPG-KEY 100% 1715 1.7KB/s 00:00  
[makerpm@host236 ~]$
```

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Index of /pub

Index of /pub

Name	Last modified	Size	Description
Parent Directory		-	
ACME-WIDGET-GPG-KEY	30-Apr-2011 18:28	1.7K	
RHN-ORG-TRUSTED-SSL-CERT	22-Apr-2011 17:47	5.2K	
bootstrap/	22-Apr-2011 17:31	-	
rhn-org-trusted-ssl-cert-1.0-1.noarch.rpm	22-Apr-2011 17:47	4.6K	
rhn-solaris-bootstrap-5.3.0-10-i386-sol9.tar.gz	22-May-2009 08:47	9.9M	
rhn-solaris-bootstrap-5.3.0-10-i386-sol10.tar.gz	22-May-2009 08:47	9.9M	
rhn-solaris-bootstrap-5.3.0-10-sparc-sol8.tar.gz	22-May-2009 08:47	14M	
rhn-solaris-bootstrap-5.3.0-10-sparc-sol9.tar.gz	22-May-2009 08:47	14M	
rhn-solaris-bootstrap-5.3.0-10-sparc-sol10.tar.gz	22-May-2009 08:47	14M	

Apache Server at host235.tc.redhat.com Port 443

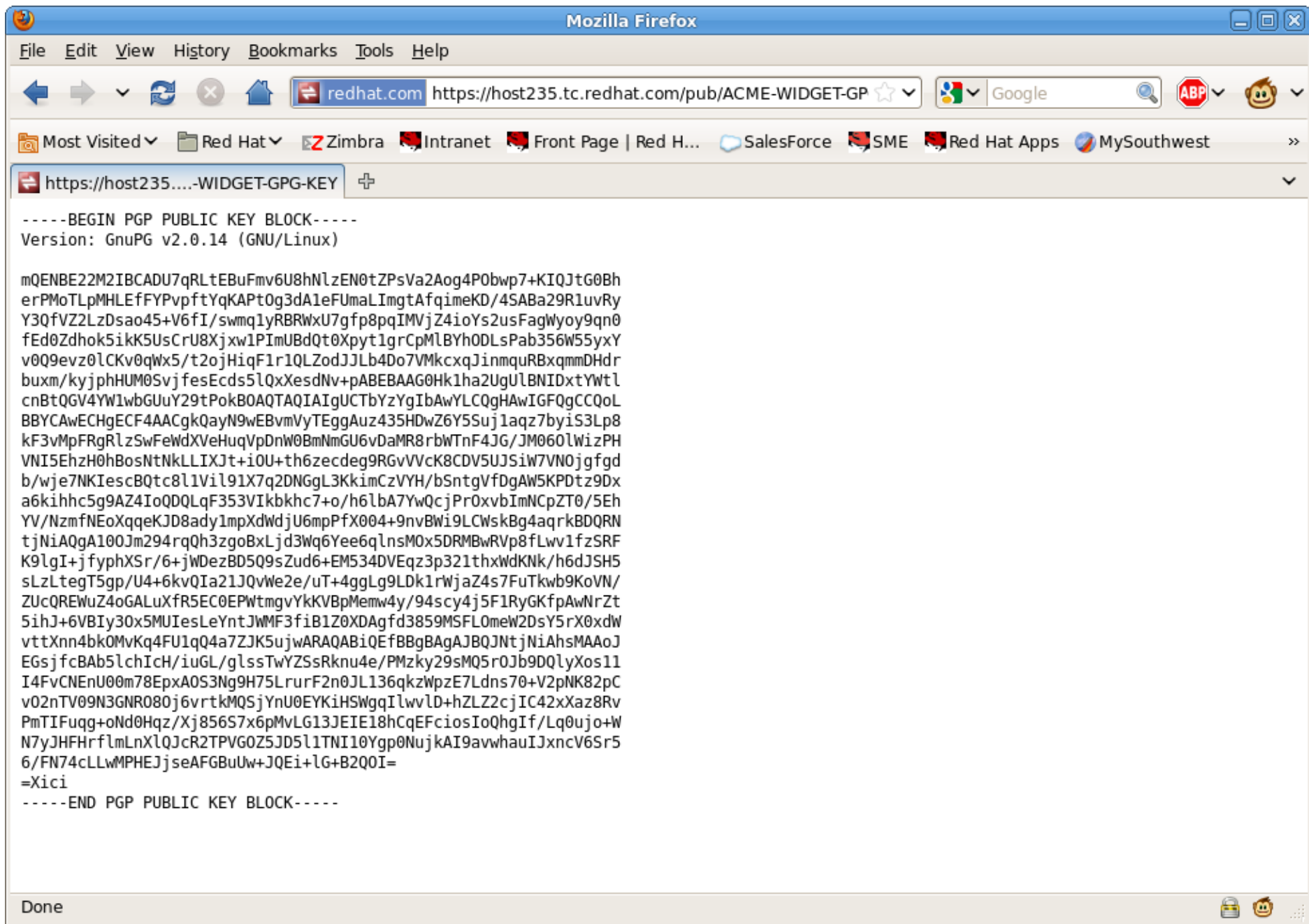
Done

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Madness Break

- Third party packages are bubbling in the test tube, let's move to activation keys!



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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



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.

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English (change) Knowledgebase Documentation

USER: widgetadmin ORGANIZATION: Acme
Widget Preferences Sign Out

 RED HAT NETWORK SATELLITE

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NO SYSTEMS SELECTED MANAGE CLEAR

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 **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
https://host235.tc.redhat.com/rhn/activationkeys/Create.do		

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

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 **Acme Widget 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	Acme Widget 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:	4- acme-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

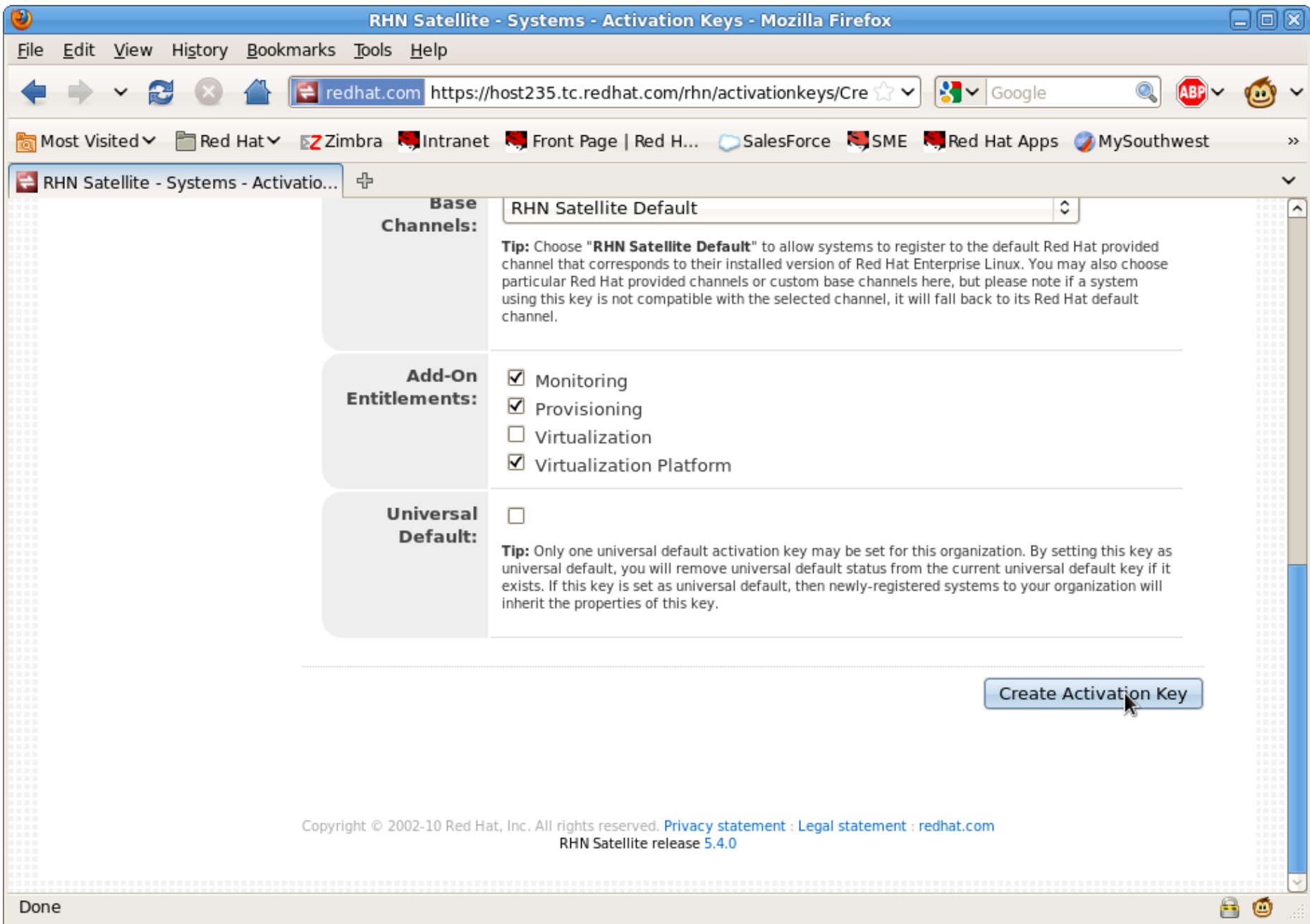
Done

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USER: widgetadmin | ORGANIZATION: Acme Widget | Preferences | Sign Out

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Activation key **Acme Widget Key** has been created.

Acme Widget 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 Acme Widget 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: 4- acme-key

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

Done

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

File Edit View History Bookmarks Tools Help

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RHN Satellite - Systems - Activatio...

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

Configuration File Deployment:

☒ **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 release 5.4.0

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

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USER: **widgetadmin** | ORGANIZATION: **Acme**
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 **Acme Widget 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

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

Done

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

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redhat.com https://host235.tc.redhat.com/network/account/activ

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Knowledgebase | Documentation LOGGED IN: widgetadmin | Preferences | Sign Out

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 **Acme Widget 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 Server (v. 6 for 64-bit x86_64)

- Foo for RHEL Server (v. 6 for 64-bit x86_64)
- RHEL Server High Availability (v. 6 for 64-bit x86_64)
- RHEL Server Load Balancer (v. 6 for 64-bit x86_64)
- RHEL Server Optional (v. 6 64-bit x86_64)
- RHEL Server Resilient Storage (v. 6 for 64-bit x86_64)

Update Key

Done

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RHN Satellite - Systems - Activation Keys - Configuration - List/Unsubscribe from Channels - Mozilla Firefox

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 **Acme Widget Key** 

[delete key](#)

[Details](#) [Child Channels](#) [Packages](#) [Configuration](#) [Groups](#) [Activated Systems](#)

[List/Unsubscribe from Channels](#) [Subscribe to Channels](#) [View/Modify Rankings](#)

 **Configuration Channels**

Below are all the centrally-managed configuration channels to which this activation key is subscribed. They are in priority order with the highest-ranked channels appearing first in the list.

No configuration channels. To subscribe this activation key to a configuration channel, please visit the [Subscribe to Channels](#) tab.

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https://host235.tc.redhat.com/rhn/activationkeys/configuration/Subscribe.do?tid=1

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

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delete key

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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: Display items per page 1 - 1 of 1 (1 selected)

Go

☒	Channel Name	Files & Directories
☒	 Acme Config File Channel	1 file

Update List

Select All

1 - 1 of 1 (1 selected)

Continue

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Acme Widget 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.

https://host235.tc.redhat.com/rhn/activationkeys/groups/Add.do?tid=1

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

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 **Acme Widget Key**   delete key

Details Child Channels Packages Configuration 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: Display items per page 1 - 9 of 9 (0 selected)

Go

☐	<u>Group Name</u>
☐	Austin
☐	Mail Servers
☐	Raleigh
☐	Database Servers
☐	Development Systems
☐	Westford

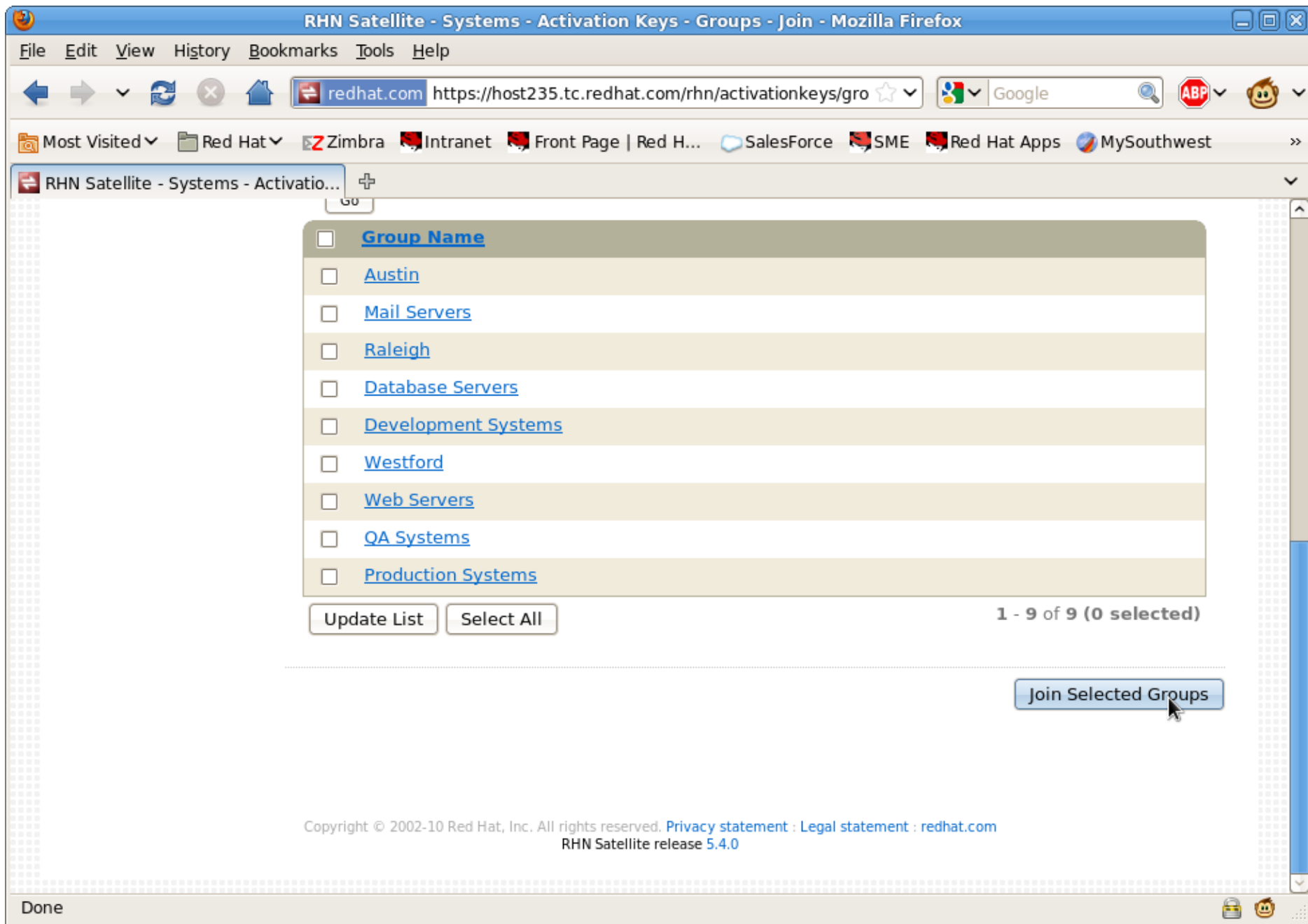
Done

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Acme Widget Key delete key

Details Child Channels Packages Configuration Groups Activated Systems

Systems

Below are all the systems that have been registered with this activation key.

System	Last Checkin
No systems.	

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Activation Keys

- You can define multiple keys for geography, server role, administrative group, etc.

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🔍 RHN Satellite - Systems - Activatio... +

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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: **1 - 1 of 1 (1 selected)**

Enabled?	Description	Key	Usage
☒	Acme Widget Key	4-acme-key	0/(unlimited)

1 - 1 of 1 (1 selected)

https://host235.tc.redhat.com/rhn/activationkeys/Create.do

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Austin Activation Key

delete key

Details Child Channels Packages Groups Activated Systems

Activation Key Details

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

Description	Austin Activation 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:	4- 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:	DEV Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64) 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.

Done

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 **Austin Activation Key**   delete key

Details Child Channels Packages Groups Activated Systems

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

The following child channels of **DEV Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)** can be associated with this activation key.

- DEV RHEL Server High Availability (v. 6 for 64-bit x86_64)
- DEV RHEL Server Load Balancer (v. 6 for 64-bit x86_64)
- DEV RHEL Server Optional (v. 6 64-bit x86_64)
- DEV RHEL Server Resilient Storage (v. 6 for 64-bit x86_64)
- DEV RHEL Server Supplementary (v. 6 64-bit x86_64)
- DEV RHN Tools for RHEL (v. 6 for 64-bit x86_64)

Update Key

Done

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Austin Activation 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: Display 500 items per page 1 - 9 of 9 (1 selected)

Go

☐	<u>Group Name</u>
☒	Austin
☐	Mail Servers
☐	Raleigh
☐	Database Servers
☐	Development Systems
☐	Westford

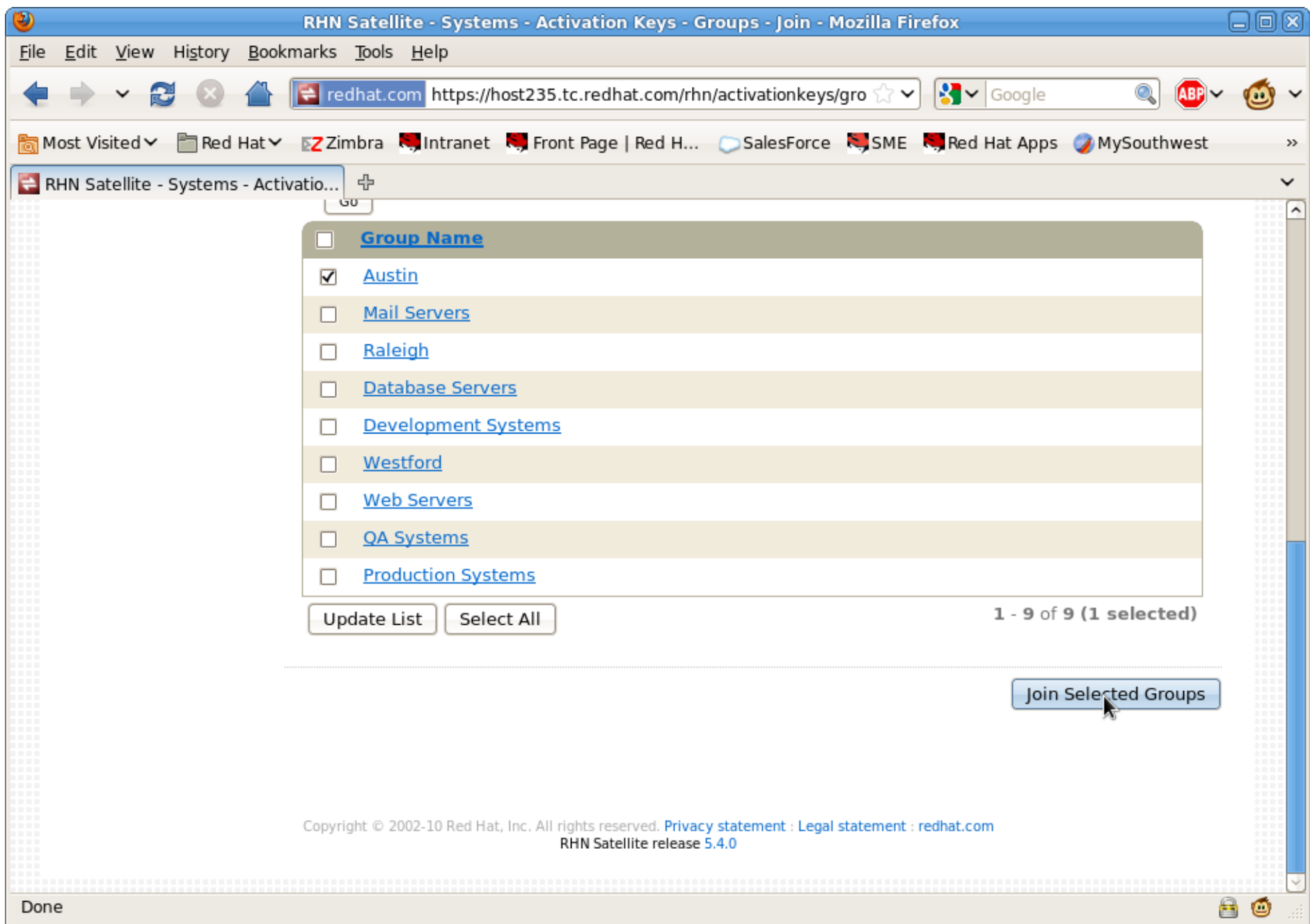
Done

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Mail Activation Key

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delete key

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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: Display 500 items per page 1 - 9 of 9 (1 selected)

Go

☐	Group Name
☐	Austin
☒	Mail Servers
☐	Raleigh
☐	Database Servers
☐	Development Systems
☐	Westford

Done

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Filter by Description:

Go

1 - 10 of 10 (10 selected)

Enabled?	Description	Key	Usage
☒	Acme Widget Key	4-acme-key	0/(unlimited)
☒	Austin Activation Key	4-austin-key	0/(unlimited)
☒	Database Activation Key	4-db-key	0/(unlimited)
☒	Development Activation Key	4-dev-key	0/(unlimited)
☒	Mail Activation Key	4-mail-key	0/(unlimited)
☒	Production Activation Key	4-prod-key	0/(unlimited)
☒	QA Activation Key	4-qa-key	0/(unlimited)
☒	Raleigh Activation Key	4-releigh-key	0/(unlimited)
☒	Web Activation Key	4-web-key	0/(unlimited)
☒	Westford Activation Key	4-westford-key	0/(unlimited)

Update List Select All Unselect All

1 - 10 of 10 (10 selected)

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

Update Activation Keys

Done

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Madness Break

- Now that the activation keys are in the centrifuge, we'll tie it all together with kickstarts!



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Sanity!

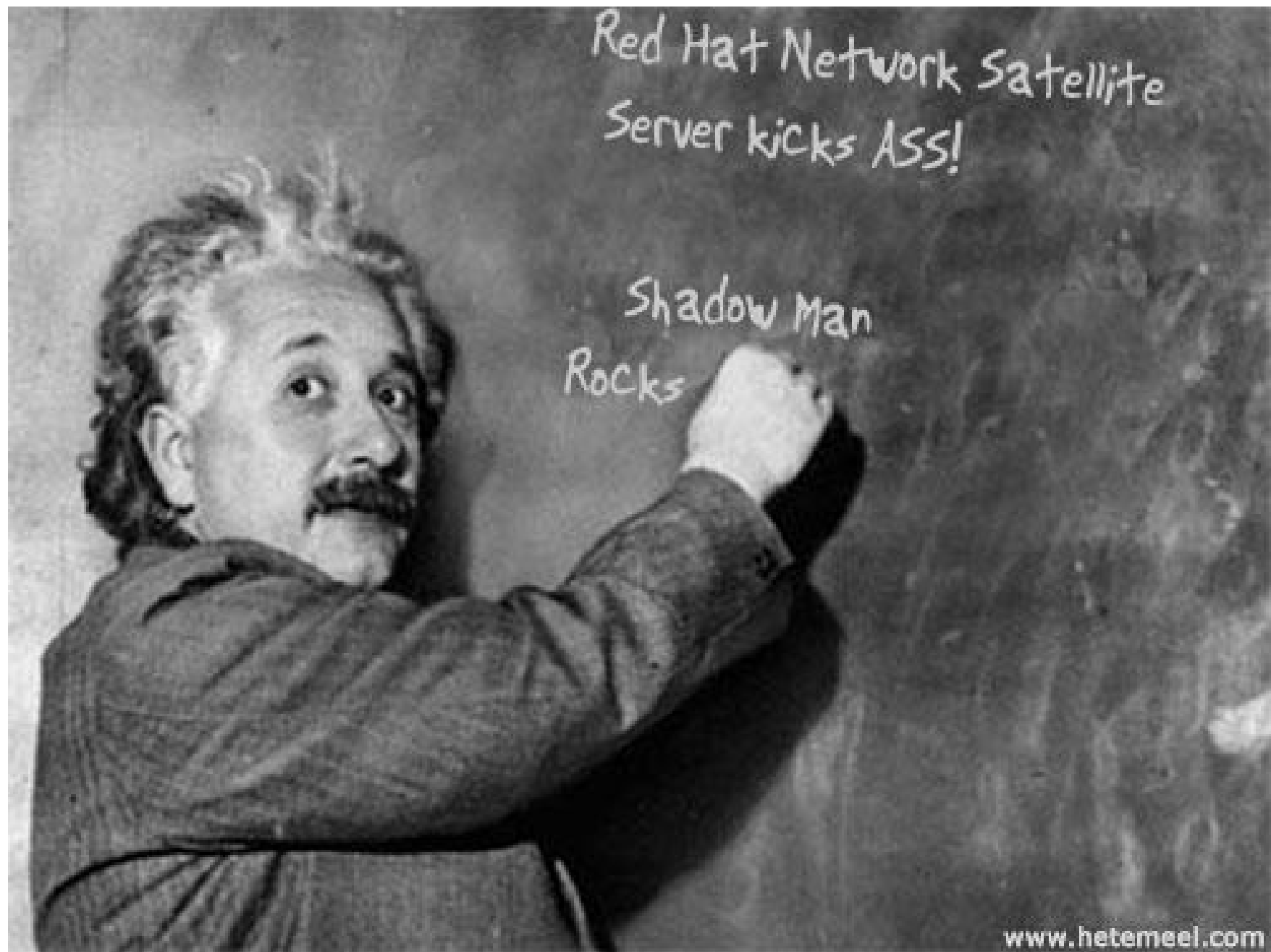
- As we indicated, the seemingly random steps we've defined so far (organizations, config channels, system groups, cloned channels, locked channels, custom content, activation keys) are going to all come together in the kickstart process.

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Kickstart

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

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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		

https://host235.tc.redhat.com/rhn/kickstart/CreateProfileWizard.do

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NO SYSTEMS SELECTED **MANAGE** **CLEAR**

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-dev-db

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

Kickstartable Tree*: ks-rhel-x86_64-server-6-6.0

Virtualization Type: None

Next

Done

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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-6-6.0

Custom Download Location: ☐

Previous Next

Done

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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

Done

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Kickstart: aus-dev-db

clone kickstart delete

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-dev-db Tip: The label field should not be easily guessable, since it could be used to expose information about this kickstart profile.
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, possibly 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 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.

Done

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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 indicate which profile in your Organization is used when the URL from [this link](#) is specified in the ks= section of your The link will not work unless an Organization Default is specified.

Kernel Options

Post Kernel Options

Comments:

Update Kickstart

Done

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Kickstart: aus-dev-db

clone kickstart delete kickstart

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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
☐ foo-rhel-6-x86_64

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-6-6.0

Done

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

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
- ☐ foo-rhel-6-x86_64

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-6-6.0

Software URL: /ks/dist/ks-rhel-x86_64-server-6-6.0

Repositories:

- ☒ HighAvailability
- ☒ LoadBalancer
- ☒ ResilientStorage

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

Update Kickstart

Done

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Kickstart: aus-dev-db

[clone kickstart](#) [delete kickstart](#)

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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 --enablesshadow
autopart:	☐	
autostep:	☐	
bootloader*:	☒	--location mbr
cdrom:	☐	
clearpart:	☒	--all
cmdline:	☐	
device:	☐	

Done

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deviceprobe:	☐	
driverdisk:	☐	
firewall:	☒	--disabled
firstboot:	☐	
graphical:	☐	
halt:	☐	
harddrive:	☐	
ignoredisk:	☐	
install:	☒	
interactive:	☐	
iscsi:	☐	
iscsiname:	☐	

Done

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key:	☒	--skip
keyboard*:	☒	us
lang*:	☒	en_US
logging:	☐	
monitor:	☐	
mouse:	☐	
multipath:	☐	
network:	☒	--bootproto dhcp
nfs:	☐	
poweroff:	☐	
reboot:	☒	
rootpw*:	☒	\$1\$hPykSwdH\$KWiHlHfelcyVZY/QJhgZT/

Done

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rootpw*	☒	\$1\$PykSwdH\$KWiHlHFelcyVZY/QJhgZT/
selinux:	☒	--permissive
services:	☐	
shutdown:	☐	
skipx:	☒	
text:	☒	
timezone*	☒	America/New_York
upgrade:	☐	
url:	☒	--url /rhn/kickstart/ks-rhel-x86_64-server-6-6.0 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:	☐	

Done

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xconfig: ☐

zerombr: ☒

zfcpl: ☐

Custom options:

NOTE: Invalid custom options can cause kickstarts to fail.
Tip: The max size of each line is 2048 characters.

Update Kickstart

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RHN Satellite release 5.4.0

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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://host235.tc.redhat.com/ks/cfg/org/4/label/aus-dev-db>

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://host235.tc.redhat.com/ks/cfg/org/4/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:

Done

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NO SYSTEMS SELECTED [MANAGE](#) [CLEAR](#)

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[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: ☒

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.

Done

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RHN Satellite - Systems - Kickstart...

Remote Commands: 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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Done

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English (change) Knowledgebase Documentation

USER: widgetadmin ORGANIZATION: Acme Widget Preferences Sign Out

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Kickstart: aus-dev-db clone kickstart delete kickstart

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Locale

You can modify the following options to specify Locale options:

Timezone: America/Chicago Hardware Clock uses UTC: ☒

Update Locale Preferences

Done

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[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

Done

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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

Done

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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: ☐

- @ Additional Development
- @ Backup Client
- @ Backup Server
- @ Base
- @ CIFS file server
- @ Compatibility libraries
- @ Console internet tools
- @ Debugging Tools
- @ Desktop
- @ Desktop Debugging and Performance Tools
- @ Desktop Platform

Done

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RHN Satellite - Systems - Kickstart...

- GPG and SSL keys
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- Kickstart Snippets

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: ☐

@ Virtualization Tools
@ Virtualization
@ Web-Based Enterprise Management
@ Web Server
@ Web Servlet Engine
@ X Window System
@ Zhong Yi Song Fonts
nmap
screen
-tcsh

Update Packages

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Kickstart: aus-dev-db

clone kickstart delete kickstart

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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
☒	Acme Widget Key	4-acme-key	(unlimited)
☒	Austin Activation Key	4-austin-key	(unlimited)
☒	Database Activation Key	4-db-key	(unlimited)
☒	Development Activation Key	4-dev-key	(unlimited)
☐	Mail Activation Key	4-mail-key	(unlimited)
☐	Production Activation Key	4-prod-key	(unlimited)
☐	QA Activation Key	4-qa-key	(unlimited)
☐	Raleigh Activation Key	4-releigh-key	(unlimited)
☐	Web Activation Key	4-web-key	(unlimited)

Done

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☒	Acme Widget Key	4-acme-key	(unlimited)
☒	Austin Activation Key	4-austin-key	(unlimited)
☒	Database Activation Key	4-db-key	(unlimited)
☒	Development Activation Key	4-dev-key	(unlimited)
☐	Mail Activation Key	4-mail-key	(unlimited)
☐	Production Activation Key	4-prod-key	(unlimited)
☐	QA Activation Key	4-qa-key	(unlimited)
☐	Raleigh Activation Key	4-releigh-key	(unlimited)
☐	Web Activation Key	4-web-key	(unlimited)
☐	Westford Activation Key	4-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

Done

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English (change) Knowledgebase Documentation

USER: widgetadmin ORGANIZATION: Acme
Widget Preferences Sign Out

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 **Kickstart: aus-dev-db** [+ 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

https://host235.tc.redhat.com/rhn/kickstart/KickstartScriptCreate.do?ksid=1

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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*

```
1 useradd tcameron
2 echo changeme | passwd --stdin tcameron
3 chage -d 0 tcameron
4 chkconfig osad on
5 rhn-actions-control --enable-all
6 rhncfg-client get
7 yum -y install foo
8
```

Done

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Position: Ln 4, Ch 1 Total: Ln 4, Ch 74

☒ 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

Done

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Kickstart Script successfully updated.



Kickstart: aus-dev-db

[add new kickstart script](#)

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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.

Script Type	Script #	Scripting Language
Post	Script 1	bash

1 - 1 of 1

1 - 1 of 1

Done

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RHN Satellite - Systems - Kickstart...

Kickstart: aus-dev-db

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-dev-db
# Date Created : 2011-04-30 21:20:30.0

install
text
network --bootproto dhcp
url --url http://host235.tc.redhat.com/ks/dist/ks-rhel-x86_64-server-6-6.0
lang en_US
keyboard us
zerombr
clearpart --all
bootloader --location mbr
timezone --utc America/Chicago
auth --enablemd5 --enablesshadow
rootpw --iscrypted $1$hPykSwdH$KWiHlHFeIcyVZY/QJhgZT/
selinux --permissive
reboot
firewall --disabled
skipx
repo --name=HighAvailability --baseurl=http://host235.tc.redhat.com/ks/dist/ks-rhel-x86_64-server-6-6.0/HighAvai
```

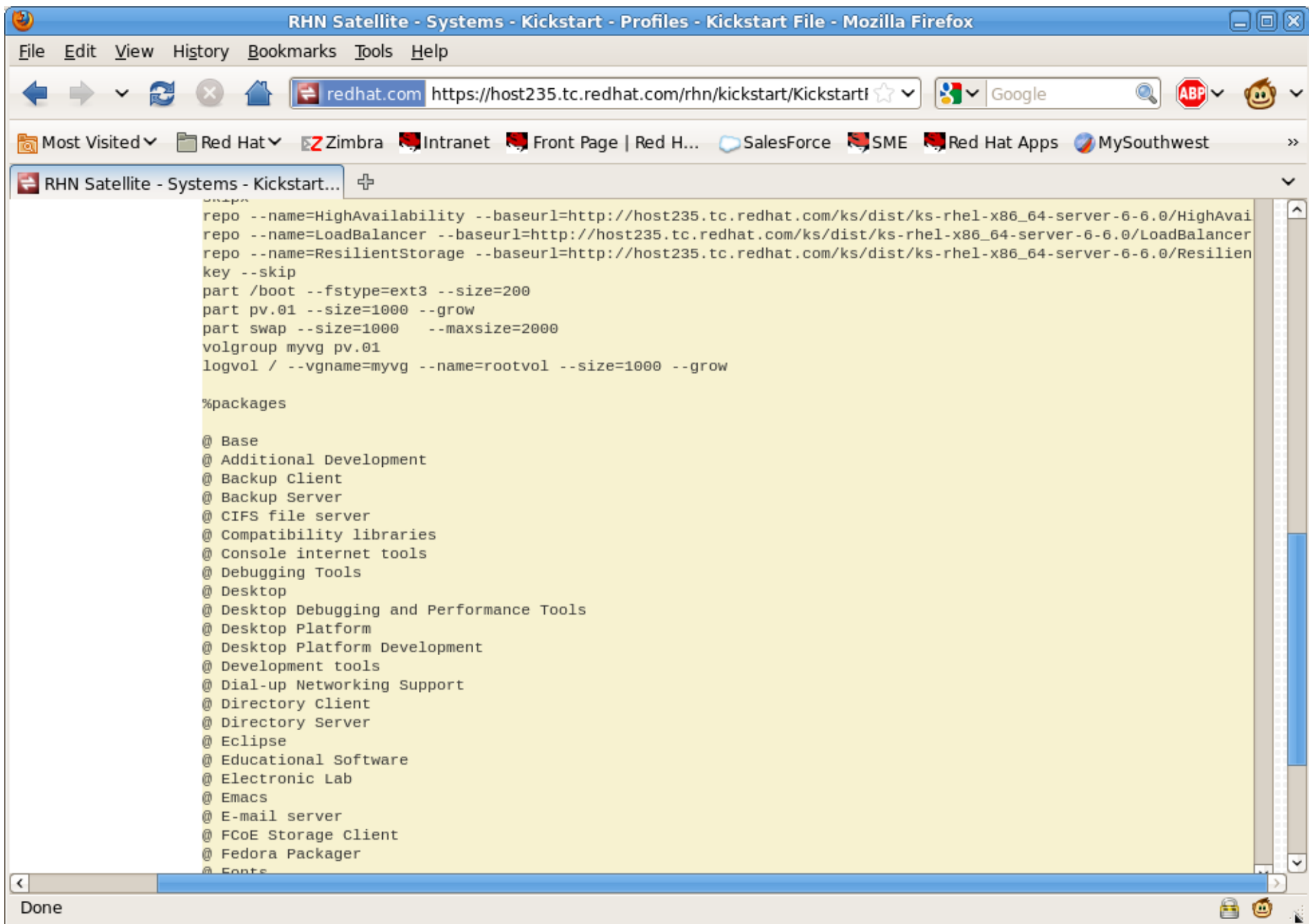
Done

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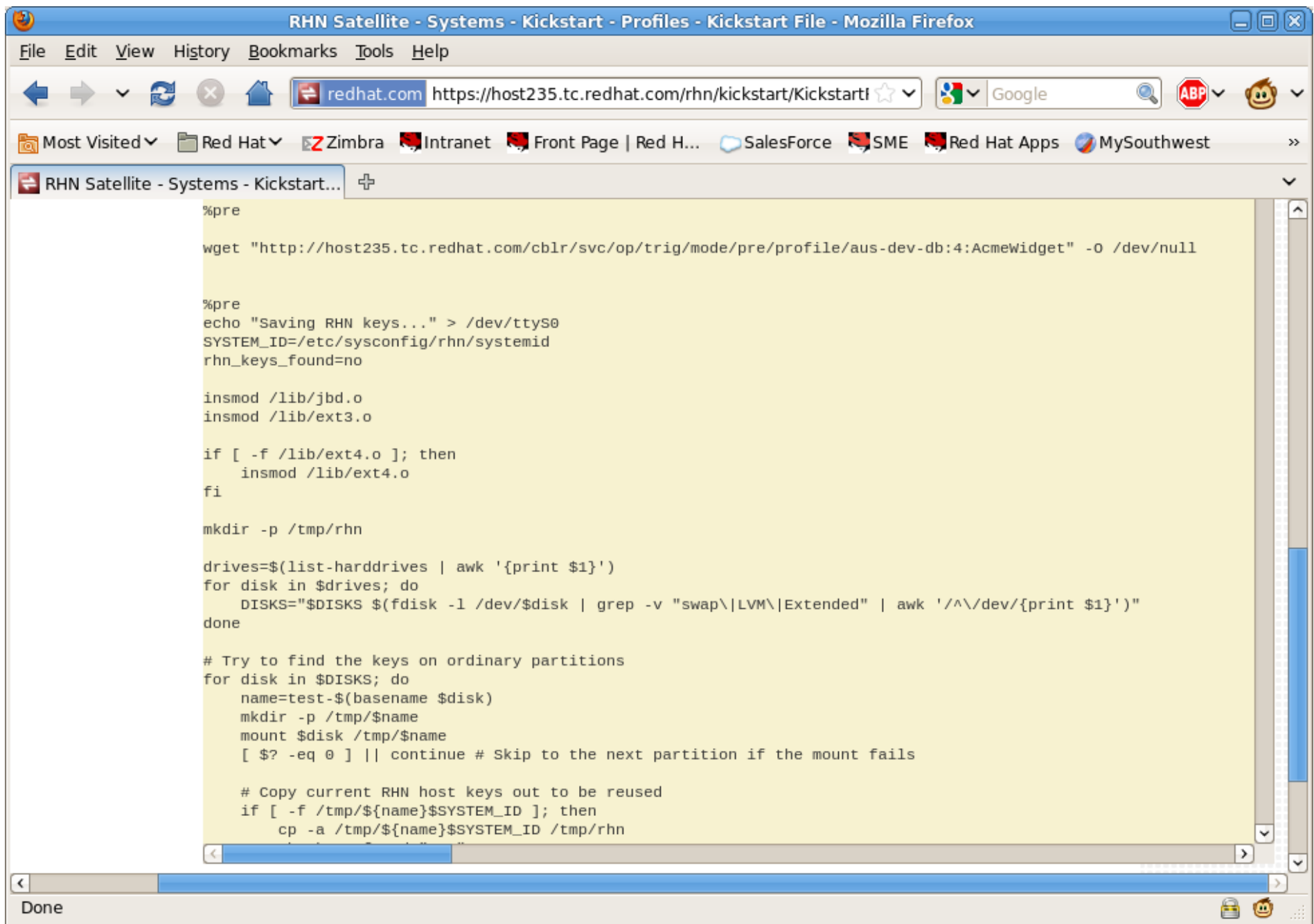


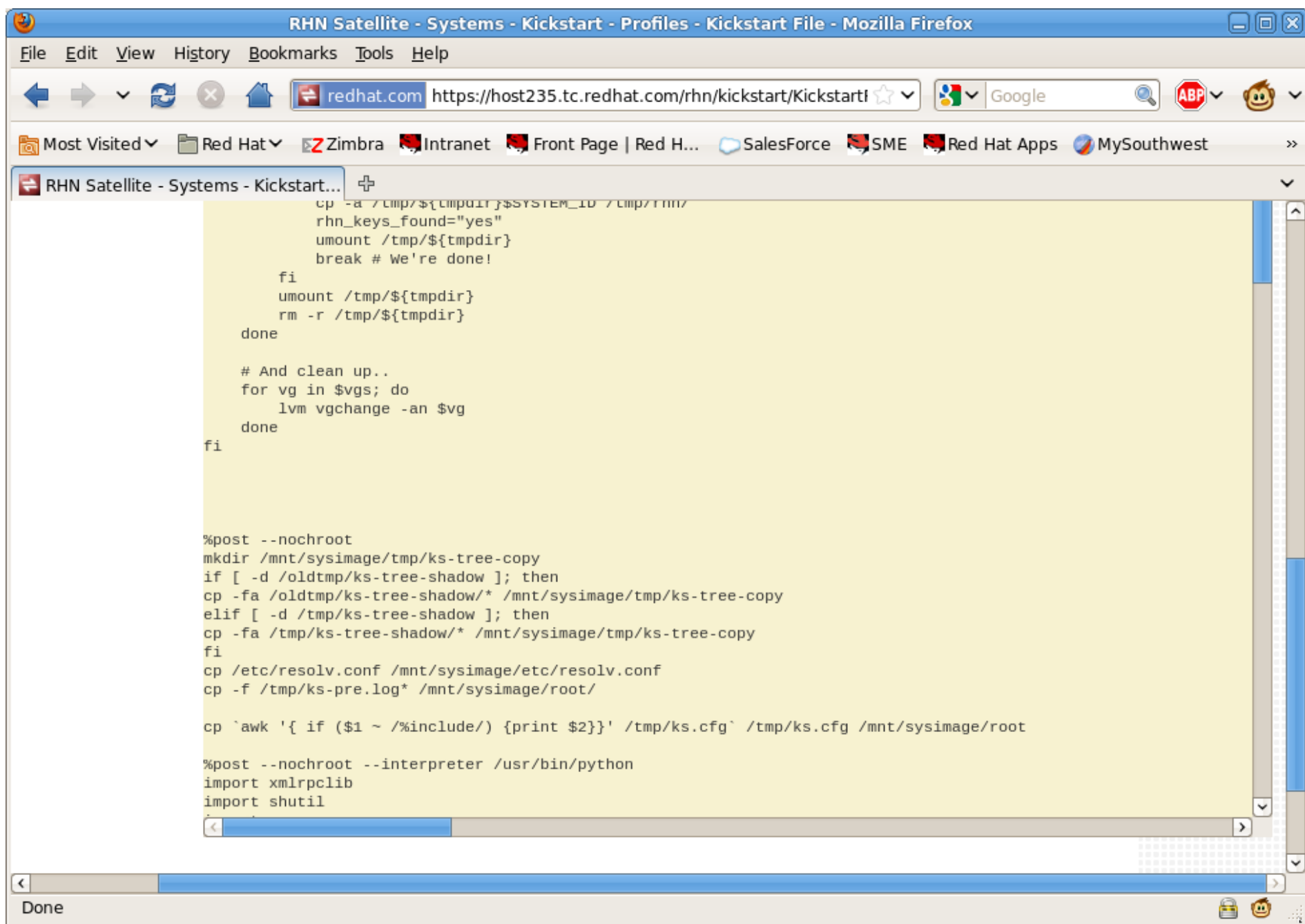
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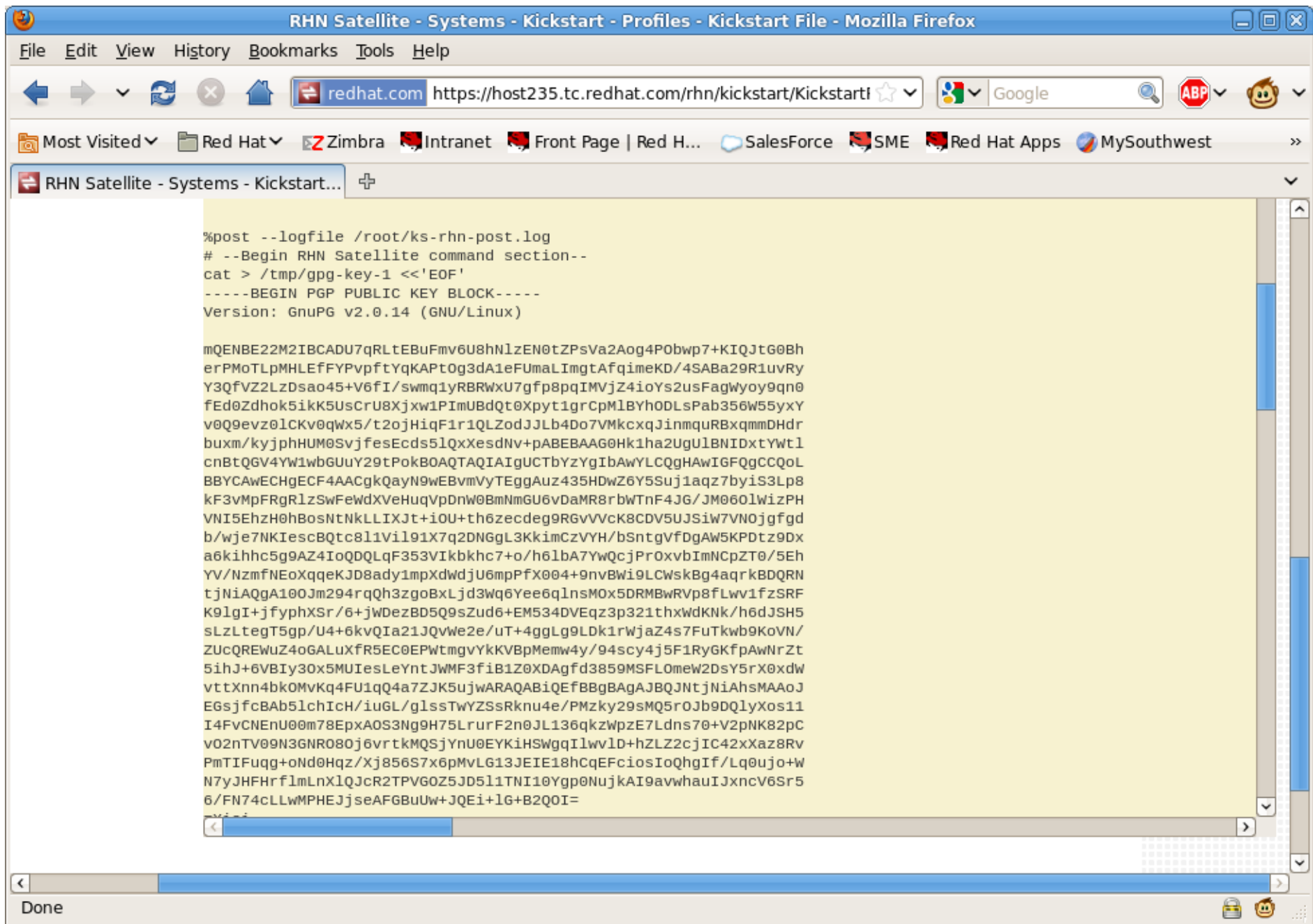


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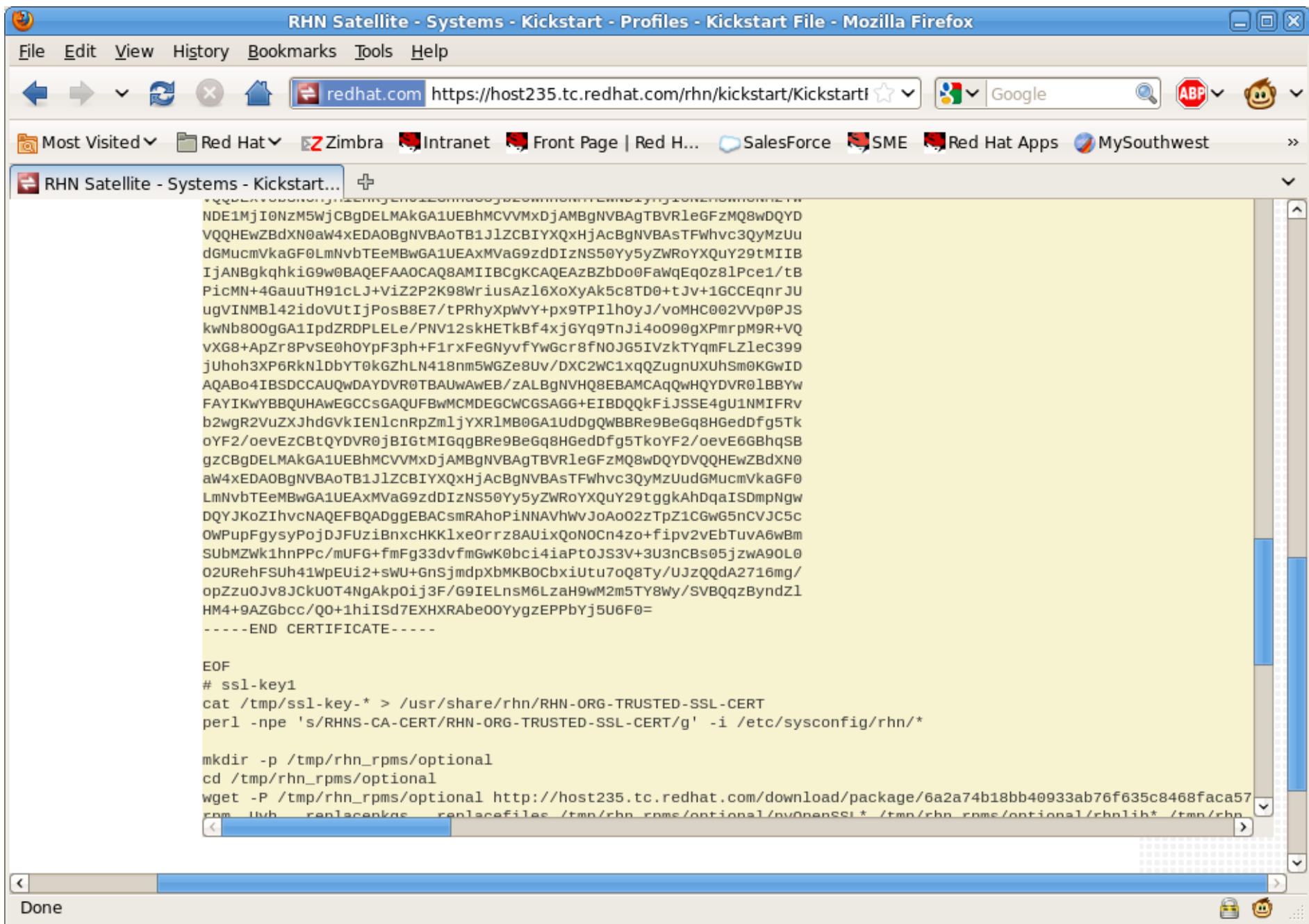


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RHN Satellite - Systems - Kickstart...

```
# Start post_install_network_config generated code
# End post_install_network_config generated code

%post --logfile /root/ks-post.log.1
useradd tcameron
echo changeme | passwd --stdin tcameron
chage -d 0 tcameron
chkconfig osad on
rhn-actions-control --enable-all
rhncfg-client get
yum -y install foo

%post

# Start koan environment setup
echo "export COBBLER_SERVER=host235.tc.redhat.com" > /etc/profile.d/cobbler.sh
echo "setenv COBBLER_SERVER host235.tc.redhat.com" > /etc/profile.d/cobbler.csh
# End koan environment setup

# MOTD
echo >> /etc/motd
echo "RHN Satellite kickstart on $(date +%Y-%m-%d)" >> /etc/motd
echo >> /etc/motd

# end of generated kickstart file

wget "http://host235.tc.redhat.com/cblr/svc/op/ks/profile/aus-dev-db:4:AcmeWidget" -O /root/cobbler.ks
wget "http://host235.tc.redhat.com/cblr/svc/op/trig/mode/post/profile/aus-dev-db:4:AcmeWidget" -O /dev/null
```

Done

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USER: widgetadmin ORGANIZATION: Acme
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Kickstart Profiles

create new kickstart profile
upload new kickstart file

The following kickstart profiles 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 Label: Go Display 500 items per page 1 - 1 of 1

Label	Active	Distribution	RHN Satellite Managed?*
aus-dev-db		ks-rhel-x86_64-server-6-6.0	

1 - 1 of 1

Tip: * - Kickstart profiles that are not managed by RHN Satellite can not be edited in the RHN Satellite UI. To modify these profiles, please log onto the RHN Satellite server and run the 'cobbler edit profile' command. For more information, consult the RHN Satellite Reference Guide.

Done

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DHCP/PXE

- With the advent of Satellite 5.3, all of the manual PXE setup is handled. No more system-config-netboot!
- Make sure that tftp and xinetd are installed and turned on on the Satellite.
- Make sure that iptables is set to allow tftp through.
- Run `cobbler check` from the command line and follow the instructions there.



```
root@host235:~  
File Edit View Search Terminal Help  
[root@host235 ~]# cobbler check  
The following are potential configuration items that you may want to fix:  
  
1 : you need to set some SELinux content rules to ensure cobbler serves content  
correctly in your SELinux environment, run the following: /usr/sbin/semanage fco  
ncontext -a -t public_content_t "/tftpboot/.*" && /usr/sbin/semanage fcontext -a -t  
public_content_t "/var/www/cobbler/images/.*"  
2 : you need to set some SELinux rules if you want to use cobbler-web (an option  
al package), run the following: /usr/sbin/semanage fcontext -a -t httpd_sys_cont  
ent_rw_t "/var/lib/cobbler/webui_sessions/.*"  
3 : 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.  
4 : change 'disable' to 'no' in /etc/xinetd.d/rsync  
5 : debmirror package is not installed, it will be required to manage debian dep  
loyments and repositories  
6 : 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
```



```
root@host235:~  
File Edit View Search Terminal Help  
ntext -a -t public_content_t "/tftpboot/.*" && /usr/sbin/semanage fcontext -a -t  
public_content_t "/var/www/cobbler/images/.*"  
2 : you need to set some SELinux rules if you want to use cobbler-web (an option  
al package), run the following: /usr/sbin/semanage fcontext -a -t httpd_sys_cont  
ent_rw_t "/var/lib/cobbler/webui_sessions/.*"  
3 : 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.  
4 : change 'disable' to 'no' in /etc/xinetd.d/rsync  
5 : debmirror package is not installed, it will be required to manage debian dep  
loyments and repositories  
6 : 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  
7 : 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@host235 ~]#
```

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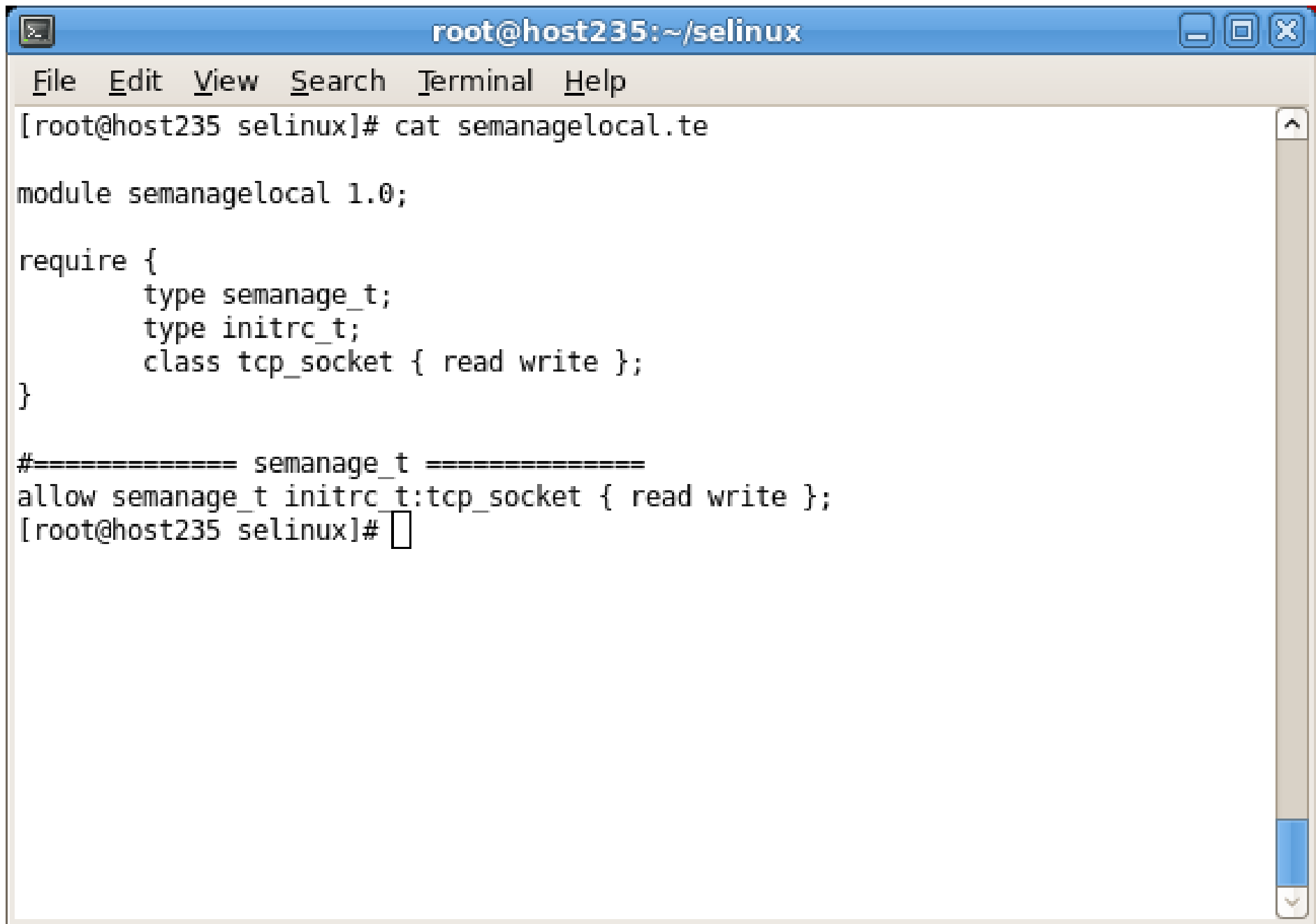
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DHCP/PXE

- Note that even after running the selinux commands, we still had to create a couple of very basic policies for sendmail, tftp and initrc
- For more on SELinux, see Thomas's presentation SELinux for Mere Mortals





A terminal window titled "root@host235:~/selinux" with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal displays the contents of the file "semanagelocal.te" using the "cat" command. The output shows SELinux module definitions for "semanagelocal 1.0", including types for "semanage_t" and "initrc_t", a class for "tcp_socket", and a permission rule allowing "semanage_t" to read and write "tcp_socket".

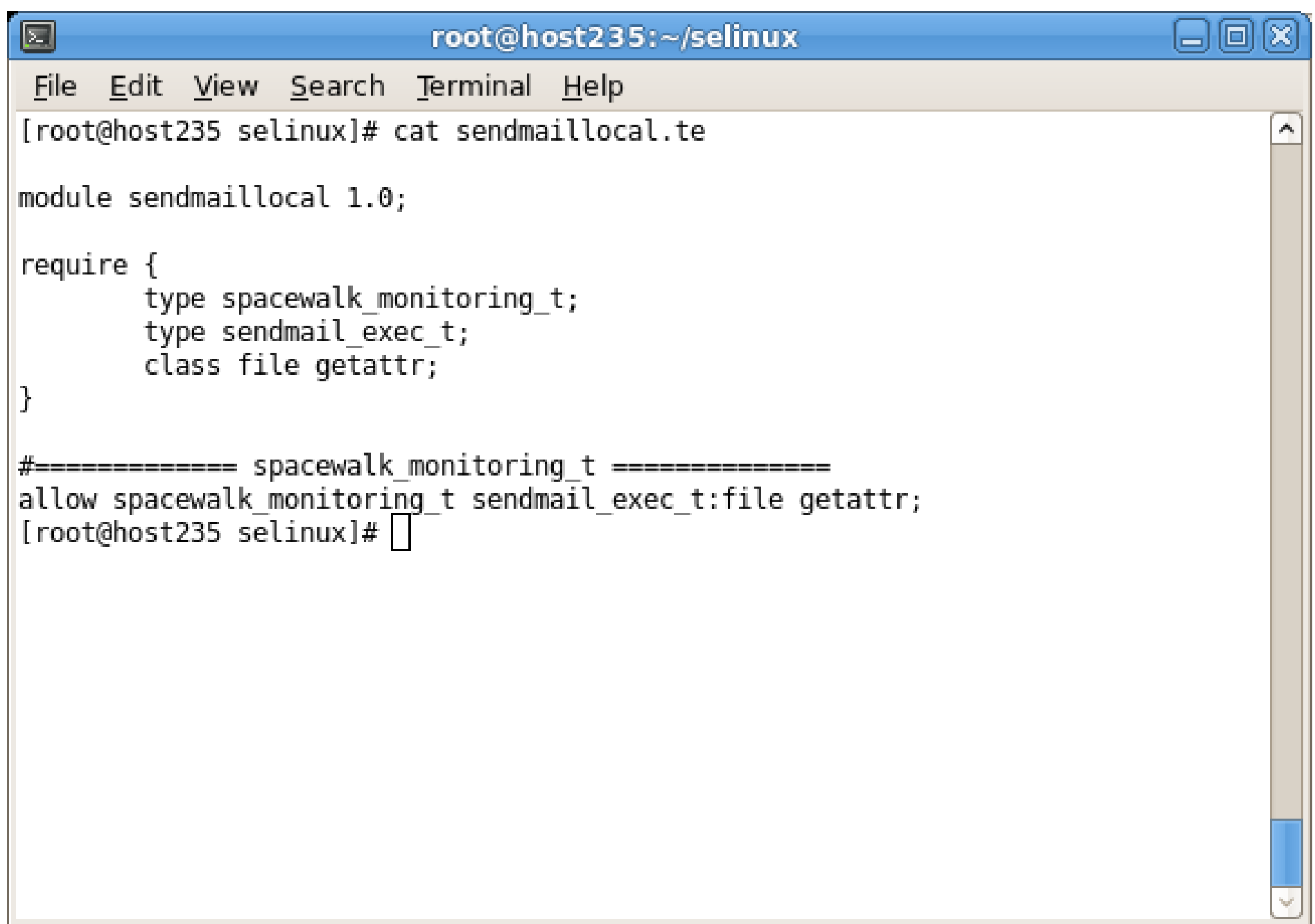
```
root@host235:~/selinux
File Edit View Search Terminal Help
[root@host235 selinux]# cat semanagelocal.te

module semanagelocal 1.0;

require {
    type semmanage_t;
    type initrc_t;
    class tcp_socket { read write };
}

#===== semmanage_t =====
allow semmanage_t initrc_t:tcp_socket { read write };
[root@host235 selinux]#
```





A terminal window titled "root@host235:~/selinux" with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal displays the contents of "sendmaillocal.te" using the "cat" command. The policy text includes a module declaration, a require block for "spacewalk_monitoring_t", "sendmail_exec_t", and "file_getattr", and a final allow rule. The prompt "[root@host235 selinux]#" is shown at the end of the output.

```
root@host235:~/selinux
File Edit View Search Terminal Help
[root@host235 selinux]# cat sendmaillocal.te

module sendmaillocal 1.0;

require {
    type spacewalk_monitoring_t;
    type sendmail_exec_t;
    class file getattr;
}

#===== spacewalk_monitoring_t =====
allow spacewalk_monitoring_t sendmail_exec_t:file getattr;
[root@host235 selinux]#
```



```
root@host235:~/selinux
File Edit View Search Terminal Help
[root@host235 selinux]# cat tftplocal.te

module tftplocal 1.0;

require {
    type spacewalk_data_t;
    type tftpd_t;
    class file { read getattr };
}

#===== tftpd_t =====
allow tftpd_t spacewalk_data_t:file { read getattr };
[root@host235 selinux]#
```

SUMMIT

**JBoss
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DHCP/PXE

- Make sure you sync your kickstarts with cobbler.
 - Log in as a Satellite admin for web UI

SUMMIT

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RHN Satellite - Admin - RHN Satellite Configuration - Cobbler - Cobbler - Mozilla Firefox

File Edit View History Bookmarks Tools Help

redhat.com https://host235.tc.redhat.com/rhn/admin/config/Cobl

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RHN Satellite - Admin - RHN Satell...

English (change) Knowledgebase Documentation USER: satadmin ORGANIZATION: Red Hat IT Out Preferences Sign Out

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 Engine Status Show Tomcat Logs

RHN Satellite Configuration - Cobbler.

Setup your RHN Satellite Cobbler settings below.

Cobbler sync is used to repair or rebuild the contents /tftpboot or /var/www/cobbler when manual modification of cobbler has occurred.

For more information refer to the 'cobbler' man page.

General Monitoring Certificate Bootstrap Script Organizations Restart Cobbler

Run Cobbler Sync

Run Cobbler Sync Update

Done

SUMMIT

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DHCP/PXE

- Make sure you sync your kickstarts with cobbler.
 - Log in as root for CLI

SUMMIT

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```
root@host235:~
File Edit View Search Terminal Help
[root@host235 ~]# cobbler sync
task started: 2011-04-30_222912_sync
task started (id=Sync, time=Sat Apr 30 22:29:12 2011)
running pre-sync triggers
cleaning trees
removing: /var/www/cobbler/images/ks-rhel-x86_64-server-6-60
removing: /var/www/cobbler/images/ks-rhel-x86_64-server-6-61-beta
removing: /var/www/cobbler/pub
removing: /tftpboot/pxelinux.cfg/default
removing: /tftpboot/images/ks-rhel-x86_64-server-6-60
removing: /tftpboot/images/ks-rhel-x86_64-server-6-61-beta
removing: /tftpboot/s390x/profile_list
copying bootloaders
running: /usr/bin/shasum /usr/lib/syslinux/pxelinux.0
received: 6c1eb4a2668b58b5a03b049f52717abef457a1aa /usr/lib/syslinux/pxelinux.0

trying to create cache file /.link_cache/6c1eb4a2668b58b5a03b049f52717abef457a1a
a
copying: /usr/lib/syslinux/pxelinux.0 -> /.link_cache/6c1eb4a2668b58b5a03b049f52
717abef457a1aa
trying cachelink /usr/lib/syslinux/pxelinux.0 -> /.link_cache/6c1eb4a2668b58b5a0
3b049f52717abef457a1aa -> /tftpboot/pxelinux.0
running: /usr/bin/shasum /usr/lib/syslinux/menu.c32
received: b39136c89f91d023f09921d800425f59a487e553 /usr/lib/syslinux/menu.c32
```

SUMMIT

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```
root@host235:~  
File Edit View Search Terminal Help  
ages/pxeboot/initrd.img -> /var/www/cobbler/images/ks-rhel-x86_64-server-6-61-beta/initrd.img  
copying images  
generating PXE configuration files  
cleaning link caches  
running: find /tftpboot/.link_cache -maxdepth 1 -type f -links 1 -exec rm -f '{}'  
' ';' '  
received:  
running: find /var/www/cobbler/.link_cache -maxdepth 1 -type f -links 1 -exec rm  
-f '{} ' ';' '  
received:  
rendering Rsync files  
generating PXE menu structure  
running post-sync triggers  
running python triggers from /var/lib/cobbler/triggers/sync/post/*  
running python trigger cobbler.modules.sync_post_restart_services  
running shell triggers from /var/lib/cobbler/triggers/sync/post/*  
running python triggers from /var/lib/cobbler/triggers/change/*  
running python trigger cobbler.modules.scm_track  
running shell triggers from /var/lib/cobbler/triggers/change/*  
*** TASK COMPLETE ***  
[root@host235 ~]# ls /tftpboot/  
etc images memdisk menu.c32 ppc pxelinux.0 pxelinux.cfg s390x  
[root@host235 ~]#
```

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DHCP/PXE

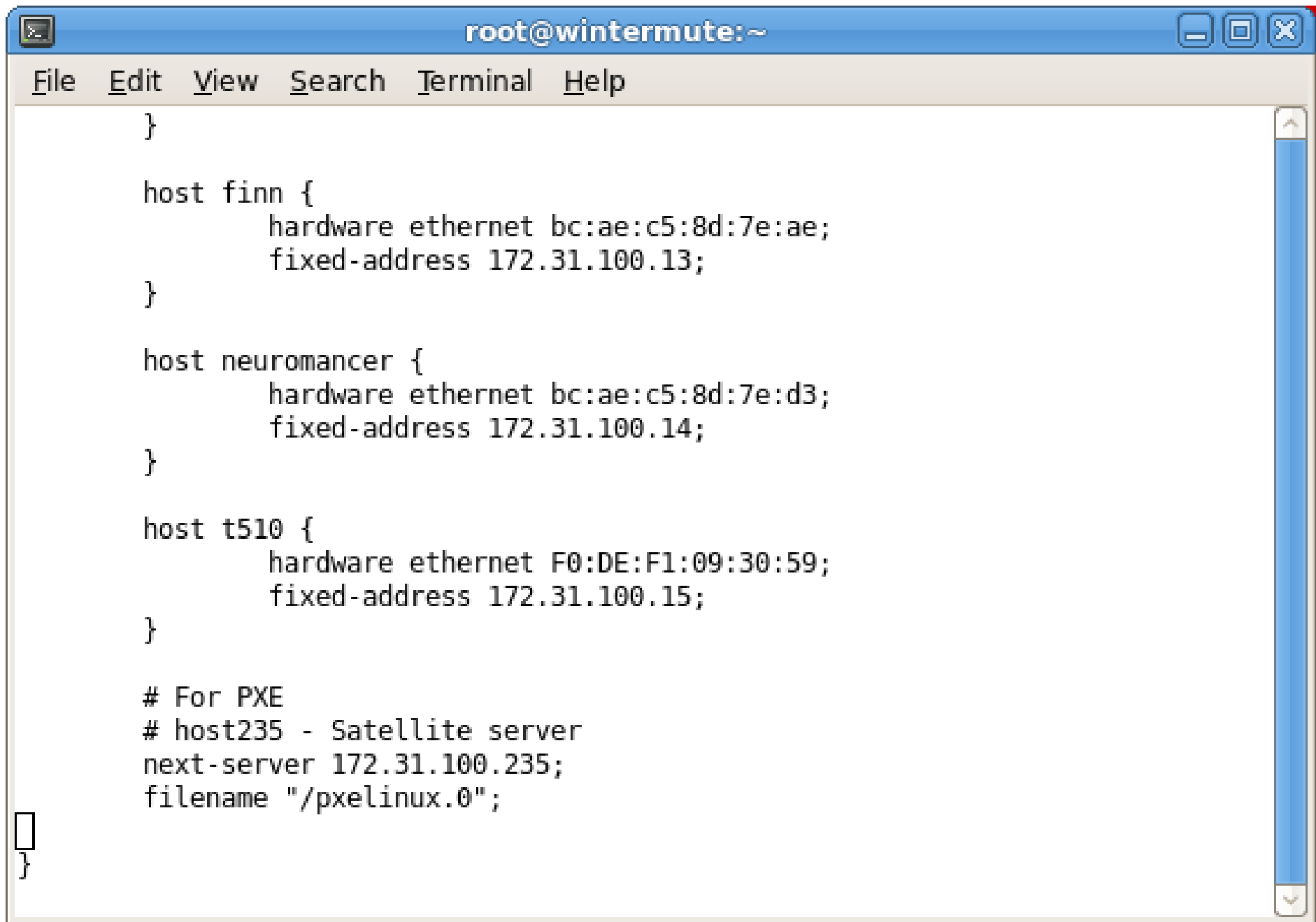
- Set up dhcpd.conf on your DHCP server has the following stanza:

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```
root@wintermute:~  
File Edit View Search Terminal Help  
}  
host finn {  
    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;  
}  
  
# For PXE  
# host235 - Satellite server  
next-server 172.31.100.235;  
filename "/pxelinux.0";  
}
```

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RHN Satellite - Systems - Overview - Mozilla Firefox

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RHN Satellite - Systems - Overview

English (change) Knowledgebase | Documentation

USER: widgetadmin | ORGANIZATION: Acme
Widget | Preferences | Sign Out

RED HAT NETWORK SATELLITE

Systems

Overview Systems Errata Channels Configuration Schedule Users Monitoring Help

NO SYSTEMS SELECTED MANAGE CLEAR

Overview
Systems
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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

Done

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DHCP/PXE

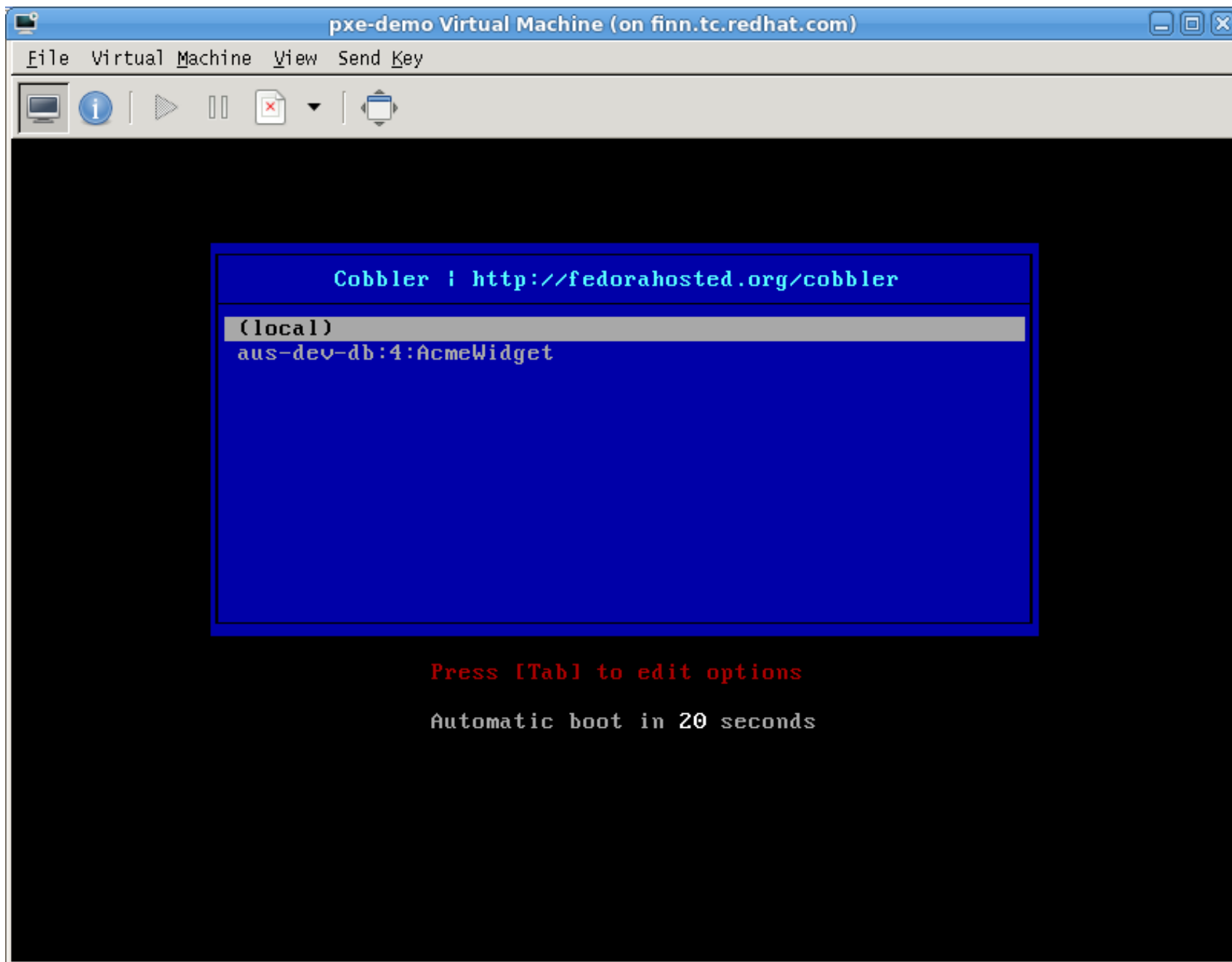
- Cobbler will build a PXE boot environment based on the kickstart we've defined:

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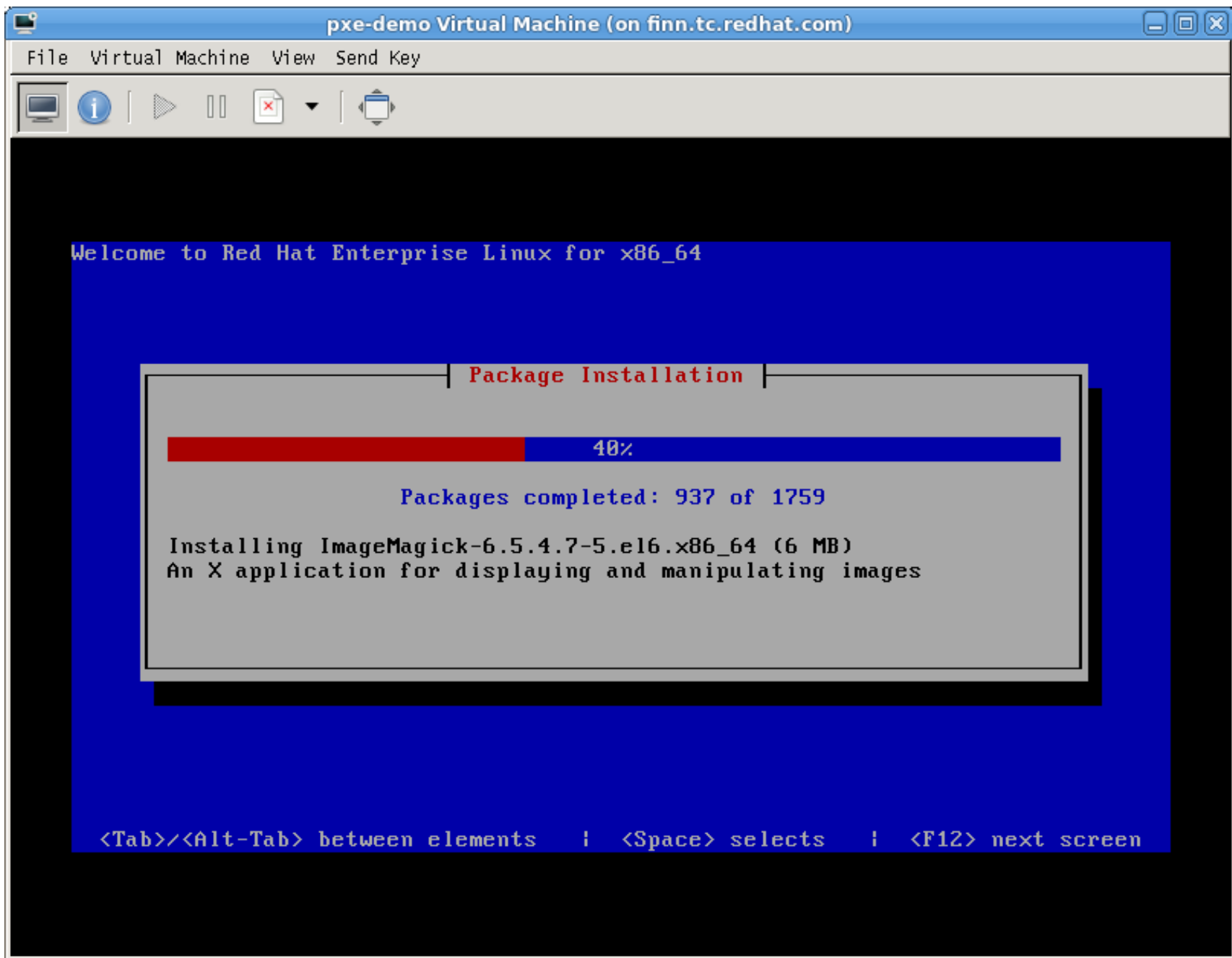


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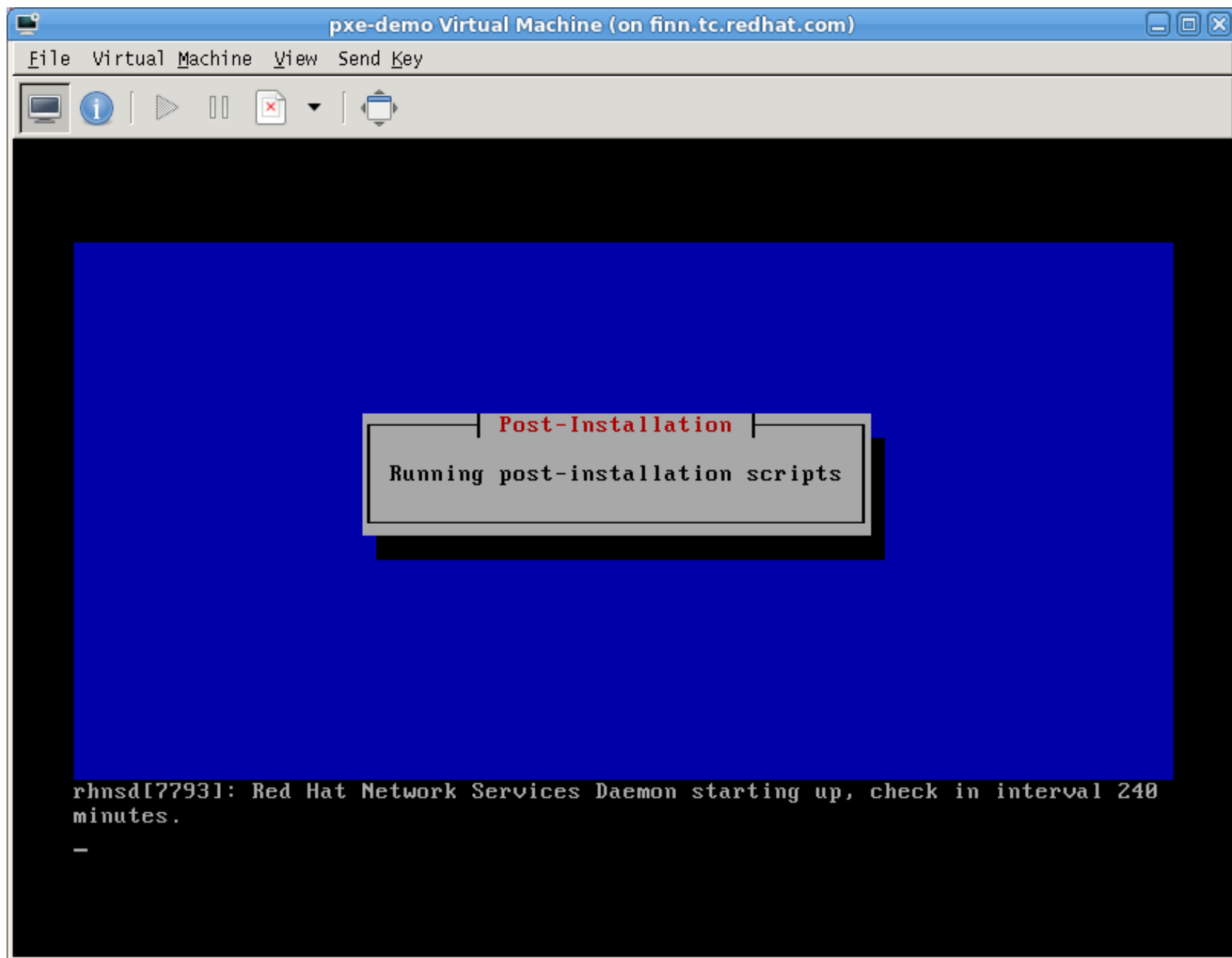


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RHN Satellite - Systems - Overview - Mozilla Firefox

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RHN Satellite - Systems - Overview

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

NO SYSTEMS SELECTED **MANAGE** **CLEAR**

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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: Display items per page **1 - 1 of 1 (0 selected)**

☐	System	Updates	Health	Errata	Packages	Configs	Base Channel	Entitlement
☐	host181.tc.redhat.com			42	68	0	DEV Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)	Management, Monitoring, Provisioning

1 - 1 of 1 (0 selected)

Done

System Legend

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

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RHN Satellite - Systems - Systems - Details - Overview - Mozilla Firefox

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RHN Satellite - Systems - Systems...

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Inactive
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Kickstart

host181.tc.redhat.com

add to ssm delete system

Details Software Configuration Provisioning Monitoring Groups Events
Overview Properties Remote Command Reactivation Hardware Migrate Notes Custom Info

System Status

Software Updates Available **Critical:** 24 **Non-Critical:** 18 **Packages:** 68

System Info System Events

Hostname:	host181.tc.redhat.com	Checked In:	5/1/11 12:47:26 AM EDT
IP Address:	172.31.100.181	Registered:	5/1/11 12:46:46 AM EDT
Virtualization:	KVM/QEMU	Last Booted:	5/1/11 12:43:00 AM EDT (Schedule System Reboot)
UUID:	2e7f8e8f5cf9b32a8bfa36199236cf94	OSA Status:	unknown
Kernel:	2.6.32-71.el6.x86_64	System Properties (Edit These Properties)	
RHN Satellite System ID:	1000010002	Entitlements:	[Management] [Provisioning] [Monitoring]
Lock Status:	System is unlocked (Lock system)		

Done

SUMMIT

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RHN Satellite - Systems - Systems - Details - Overview - Mozilla Firefox

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RHN Satellite - Systems - Systems...

Subscribed Channels [\(Alter Channel Subscriptions\)](#)

- DEV Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)
- DEV RHEL Server High Availability (v. 6 for 64-bit x86_64)
- DEV RHEL Server Optional (v. 6 64-bit x86_64)
- DEV RHEL Server Resilient Storage (v. 6 for 64-bit x86_64)
- DEV RHEL Server Supplementary (v. 6 64-bit x86_64)
- DEV RHN Tools for RHEL (v. 6 for 64-bit x86_64)

Notifications:	Daily Summary Errata Email
Auto Errata Update:	No
System Name:	host181.tc.redhat.com
Description:	Initial Registration Parameters: OS: redhat-release-server Release: 6Server CPU Arch: x86_64
Location:	(none)

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RHN Satellite release 5.4.0

Done

SUMMIT

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RHN Satellite - Systems - Systems - Groups - List / Leave - Mozilla Firefox

File Edit View History Bookmarks Tools Help

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host181.tc.redhat.com

add to ssm delete system

Details Software Configuration Provisioning Monitoring Groups 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: Display 500 items per page 1 - 3 of 3 (0 selected)

Go

☐	Group Name
☐	Austin
☐	Database Servers
☐	Development Systems

Update List Select All 1 - 3 of 3 (0 selected)

Leave Selected Groups

Done

SUMMIT

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RHN Satellite - Systems - Systems - Software - Software Channels - Mozilla Firefox

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RHN Satellite - Systems - Systems...

Overview

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Virtual Systems

Out of Date

Untitled

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Inactive

Recently Registered

Duplicate Systems

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System Groups

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Stored Profiles

Custom System Info

Kickstart

 **host181.tc.redhat.com** 

[add to ssm](#) | [delete system](#)

Details Software Configuration Provisioning Monitoring Groups Events

Errata Packages Software Channels

 **Software Channel Subscriptions**

This system is subscribed to the base channel, listed at top, and to the checked channels beneath, if any. Disabled checkboxes indicate channels that can't be manually subscribed or unsubscribed from.

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

- ☒ * **DEV RHEL Server High Availability (v. 6 for 64-bit x86_64)** (unlimited)
- ☐ * **DEV RHEL Server Load Balancer (v. 6 for 64-bit x86_64)** (unlimited)
- ☒ * **DEV RHEL Server Optional (v. 6 64-bit x86_64)** (unlimited)
- ☒ * **DEV RHEL Server Resilient Storage (v. 6 for 64-bit x86_64)** (unlimited)
- ☒ * **DEV RHEL Server Supplementary (v. 6 64-bit x86_64)** (unlimited)
- ☒ * **DEV RHN Tools for RHEL (v. 6 for 64-bit x86_64)** (unlimited)

* **NOTE:** These channels are not part of the Red Hat Enterprise Linux subscription for this guest's host. Subscribing to them will consume additional software entitlements. Applying a different virtual system entitlement to the host system will affect which channels have this mark.

[Change Subscriptions](#)

 **Base Software Channel**

Done

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RHN Satellite - Systems - Systems - Software - Software Channels - Mozilla Firefox

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RHN Satellite - Systems - Systems...

- Stored Profiles
- Custom System Info
- Kickstart

- ☒ * DEV RHEL Server Supplementary (v. 6 64-bit x86_64) (unlimited)
- ☒ * DEV RHN Tools for RHEL (v. 6 for 64-bit x86_64) (unlimited)

* **NOTE:** These channels are not part of the Red Hat Enterprise Linux subscription for this guest's host. Subscribing to them will consume additional software entitlements. Applying a different virtual system entitlement to the host system will affect which channels have this mark.

Change Subscriptions

 **Base Software Channel**

You can change the base software channel your system is subscribed to. The system will be unsubscribed from all software channels, and subscribed to the new base software channel.

(none, disable service)

Red Hat Channels

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

Custom Channels

- DEV Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)
- My Cloned RHEL 6 Server x86_64
- PROD Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)
- QA Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)

Confirm

Warning: 'FasTrack' and Beta child software channels are not available with Extended Update Support.

Done

SUMMIT

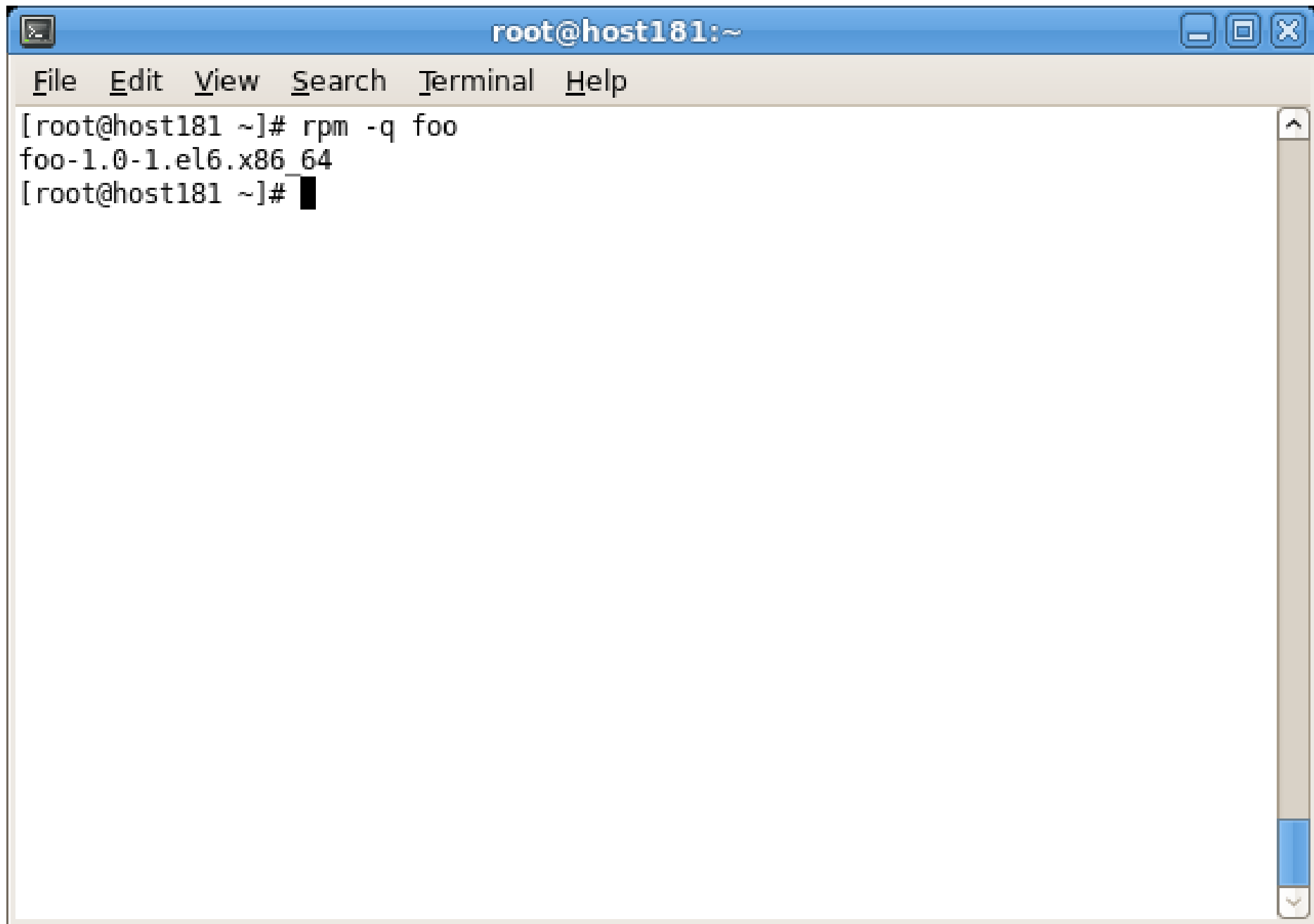
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```
root@host181:~  
File Edit View Search Terminal Help  
[tcameron@case ~]$ ssh root@host181  
The authenticity of host 'host181 (172.31.100.181)' can't be established.  
RSA key fingerprint is 3d:1e:b5:e5:fc:f9:7f:40:1f:37:4b:84:42:8b:00:77.  
Are you sure you want to continue connecting (yes/no)? yes  
Warning: Permanently added 'host181,172.31.100.181' (RSA) to the list of known h  
osts.  
root@host181's password:  
  
RHN Satellite kickstart on 2011-05-01  
  
[root@host181 ~]# cat /etc/acme/acme.cfg  
my_system_id=1000010003  
my_rhn_profile_name=host181.tc.redhat.com  
my_rhn_system_description=Initial Registration Parameters:  
OS: redhat-release-server  
Release: 6Server  
CPU Arch: x86_64  
my_rhn_system_hostname=host181.tc.redhat.com  
my_rhn_system_ip_address=172.31.100.181  
my_rhn_eth0_address=172.31.100.181  
my_rhn_eth0_netmask=255.255.255.0  
my_rhn_eth0_broadcast=172.31.100.255  
my_rhn_eth0_hardware=52:54:00:f0:80:df  
my_rhn_eth0_driver=Unknown  
[root@host181 ~]#
```





A terminal window titled "root@host181:~" with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows the command "rpm -q foo" being executed, resulting in the output "foo-1.0-1.el6.x86_64". The prompt "[root@host181 ~]#" is visible at the end of the line.

```
root@host181:~  
File Edit View Search Terminal Help  
[root@host181 ~]# rpm -q foo  
foo-1.0-1.el6.x86_64  
[root@host181 ~]#
```

SUMMIT

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```
root@host181:~  
File Edit View Search Terminal Help  
[root@host181 ~]# yum repolist  
Loaded plugins: rhnplugin  
repo id                                repo name                                status  
dev-rhel-x86_64-server-6               DEV Red Hat Enterprise Linux Serve 3,968  
dev-rhel-x86_64-server-ha-6            DEV RHEL Server High Availability    44  
dev-rhel-x86_64-server-optional-6      DEV RHEL Server Optional (v. 6 64- 2,999  
dev-rhel-x86_64-server-rs-6            DEV RHEL Server Resilient Storage   44  
dev-rhel-x86_64-server-supplementary-6 DEV RHEL Server Supplementary (v.    100  
dev-rhn-tools-rhel-x86_64-server-6     DEV RHN Tools for RHEL (v. 6 for 6  31  
repolist: 7,186  
[root@host181 ~]#
```

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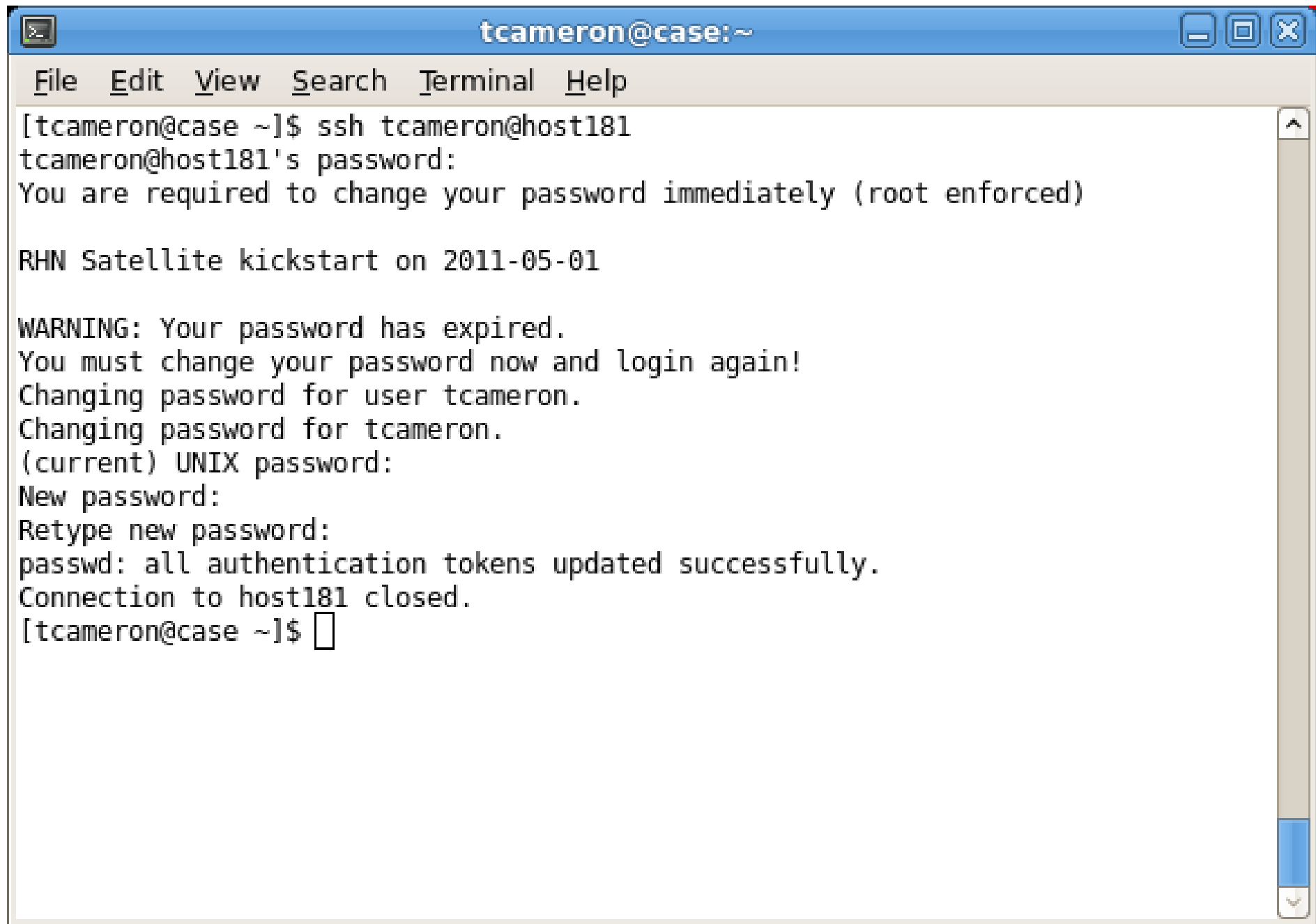
```
root@host181:~  
File Edit View Search Terminal Help  
[root@host181 ~]# yum grouplist  
Loaded plugins: rhnplugin  
Setting up Group Process  
dev-rhel-x86_64-server-6/group | 1.0 MB 00:00  
dev-rhel-x86_64-server-ha-6/group | 15 kB 00:00  
dev-rhel-x86_64-server-rs-6/group | 9.7 kB 00:00  
dev-rhel-x86_64-server-supplementary-6/group | 45 kB 00:00  
Installed Groups:  
  Base  
  E-mail server  
  Graphical Administration Tools  
  Hardware monitoring utilities  
  Large Systems Performance  
  Legacy UNIX compatibility  
  Network Infrastructure Server  
  Network file system client  
  Networking Tools  
  Performance Tools  
  Perl Support  
  System administration tools  
  Virtualization Platform  
  iSCSI Storage Client  
Available Groups:  
  Additional Development
```

SUMMIT

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```
tcameron@case:~  
File Edit View Search Terminal Help  
[tcameron@case ~]$ ssh tcameron@host181  
tcameron@host181's password:  
You are required to change your password immediately (root enforced)  
  
RHN Satellite kickstart on 2011-05-01  
  
WARNING: Your password has expired.  
You must change your password now and login again!  
Changing password for user tcameron.  
Changing password for tcameron.  
(current) UNIX password:  
New password:  
Retype new password:  
passwd: all authentication tokens updated successfully.  
Connection to host181 closed.  
[tcameron@case ~]$
```

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And that's it!

- All the seemingly disconnected parts come together to make a system which can be managed at first boot.
- There **is** a method to the madness!

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Questions?



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Thank you!

- If you liked today's presentation, please let us know!
- Rick's contact info:
 - spurgeon@redhat.com
- Thomas's contact info:
 - thomas@redhat.com
 - choirboy on #rhel on Freenode
 - thomasdcameron on Twitter
 - <http://people.redhat.com/tcameron>

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