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RHN Satellite Power User Tricks and Tips

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September 3rd, 2009

presented by



This Presentation

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<http://people.redhat.com/tcameron>

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Agenda

Red Hat and RHN Satellite

Spacewalk

Assumptions

There is a method to the madness!

Setting up configuration file management

Example of advanced use cases including configuration
file macros

Setting up System Groups

Channel cloning

Creating channels "locked" at a certain update

Agenda

Custom channels for third party or internally developed content

Using activation keys for highly flexible group assignment, configuration file deployment, and pre-installation and post-installation software provisioning

Setting up kickstart profiles to perform automated installations

Example of advanced kickstart options like partitioning and activation keys

Setting up a DHCP/PXE/tftp environment to enable automated installations

Red Hat and RHN Satellite

RHN Satellite is the best-in-breed systems management platform for Red Hat products.

Mature, robust product with hundreds of thousands of servers under management at customers in practically every vertical you can imagine.

Red Hat and RHN Satellite

As Fedora is the upstream, community project for Red Hat Enterprise Linux, Spacewalk is the upstream, community project for RHN Satellite.

<http://www.redhat.com/spacewalk/>



Assumptions

You are already familiar with RHN Satellite/Fedora Spacewalk

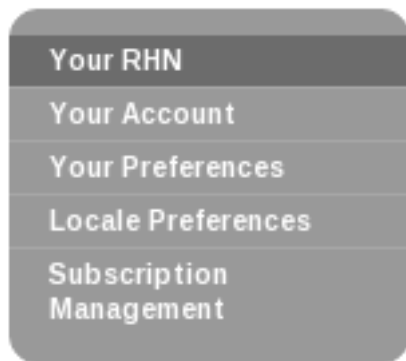
This is **not** an introduction, I will be moving rather quickly.
When I talk about the Navigation Bar, I mean the tabs at the top of the screen:



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

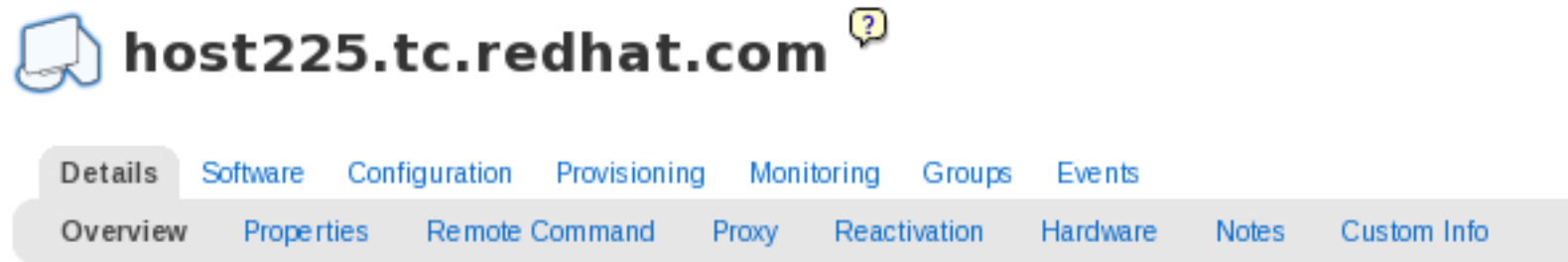
Assumptions

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



Assumptions

When I talk about sub-tabs, I am talking about the tabs in the middle of each page:



There is a method to the madness!

Well, ok, maybe... :-)



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 me as I show you how to set up some prerequisite components which will make kickstart fly!

Configuration File Management

Go to the configuration tab at the top of the page, then
Configuration Channels on the left nav bar.

Click on “create new config channel”

Fill out the required information

Red Hat Network - Configuration - Overview - Mozilla Firefox

File Edit View History Bookmarks Tools Help

redhat.com https://satellite.tc.redhat.com/rhn/configuration/Overview.do

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RED HAT NETWORK SATELLITE

Systems

Search

Your RHN Systems Errata Channels **Configuration** Schedule Users Monitoring Satellite Tools 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. 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:

No deployment actions.

Done

Red Hat Network - Configuration - Configuration Channels - Mozilla Firefox

File Edit View History Bookmarks Tools Help

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

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Systems

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Your RHN Systems Errata Channels Configuration Schedule Users Monitoring Satellite Tools 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 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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Red Hat Network release 5.2.0

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

Red Hat Network - Configuration - Mozilla Firefox

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

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Your RHN Systems Errata Channels Configuration Schedule Users Monitoring Satellite Tools Help

NO SYSTEMS SELECTED MANAGE CLEAR

Overview Configuration Channels Configuration Files Systems

New Config Channel

You must enter the configuration channel details below.

Name*: Red Hat Config Channel 1

Label*: rht-cfg-1

Description*: This is the first configuration channel for the Red Hat lab in Austin.

Create Config Channel

Done

Red Hat Network - Configuration - Overview - Mozilla Firefox

File Edit View History Bookmarks Tools Help

redhat.com https://satellite.tc.redhat.com/rhn/configuration/ChannelOverview.do?ccid=41

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RED HAT NETWORK SATELLITE

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Your RHN Systems Errata Channels **Configuration** Schedule Users Monitoring Satellite Tools Help

NO SYSTEMS SELECTED MANAGE CLEAR

Overview Configuration Channels Configuration Files Systems

Red Hat Config Channel 1 ? delete channel

Overview Add Files Systems

Channel Properties (Edit Properties)

Name: Red Hat Config Channel 1

Label: rht-cfg-1

Description: This is the first configuration channel for the Red Hat lab in Austin.

Channel Information

Number of Files: No files found

Systems: No systems subscribed

Most-Recently Subscribed System: No systems subscribed

Configuration Actions

Add/Create Files

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

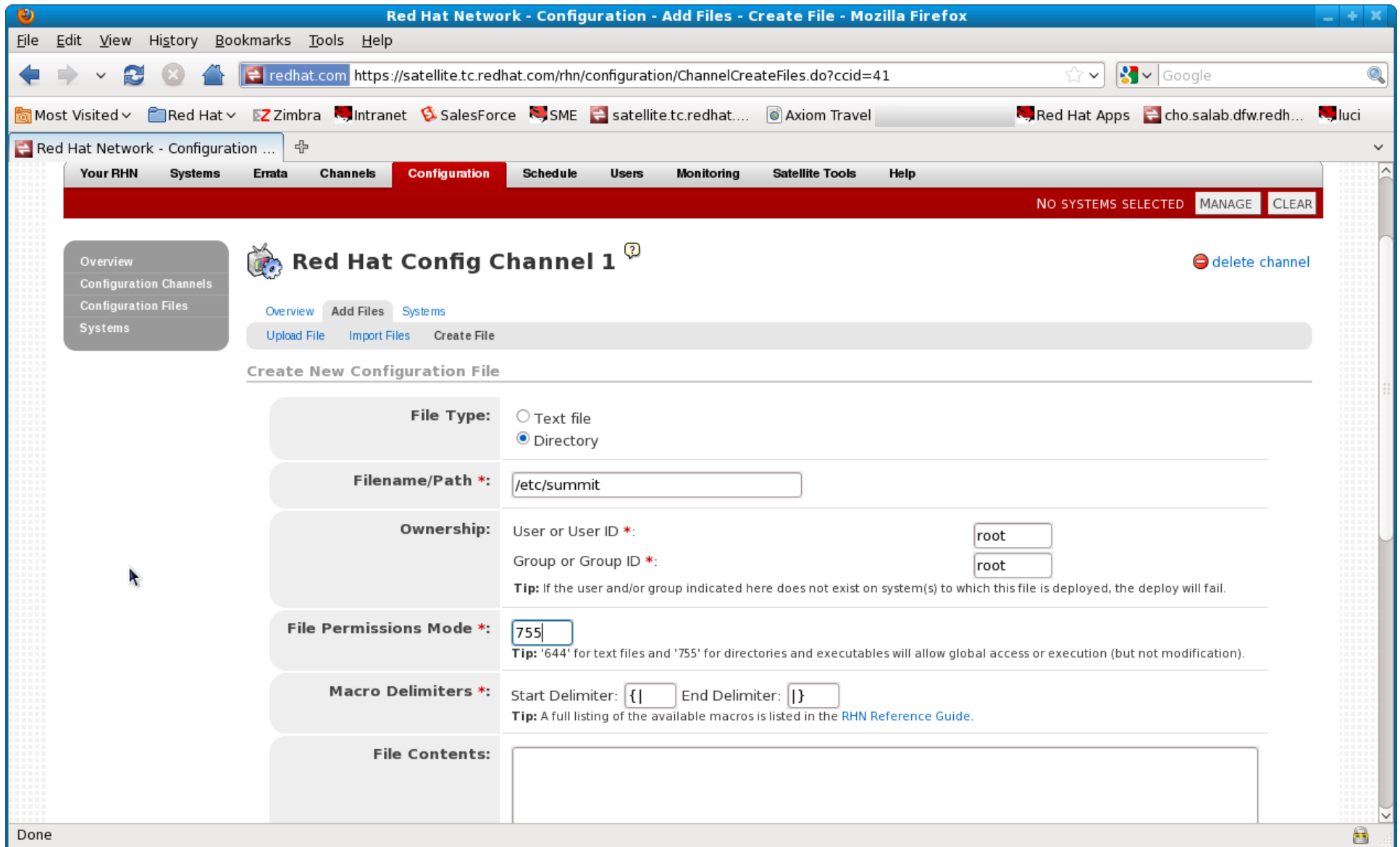
Done

Configuration File Management

Click “Add Files” in the sub-tabs

Upload, import or create a file in the sub-tab

In this example, I'll create a new directory called `/etc/summit` owned by `root:root` and with permissions `rwxr-xr-x`



Red Hat Network - Configuration - Configuration Files - Details - Mozilla Firefox

File Edit View History Bookmarks Tools Help

redhat.com https://satellite.tc.redhat.com/rhn/configuration/file/FileDetails.do?cfid=41

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Your RHN Systems Errata Channels **Configuration** Schedule Users Monitoring Satellite Tools Help

NO SYSTEMS SELECTED MANAGE CLEAR

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Revision 1 of /etc/summit from channel Red Hat Config Channel 1 delete this file revision

Details Manage Revisions Deploy File Copy File Compare File

File Details

Configuration Channel:	Red Hat Config Channel 1
Revision:	1 (view other revisions)
Creation Date:	0 seconds ago
Last Modified:	0 seconds ago by satadmin
File Type:	Directory

File Properties

Filename/Path *:	/etc/summit
Ownership:	User or User ID *: root Group or Group ID *: 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 *:	755 Tip: '644' for text files and '755' for directories and executables will allow global access or execution (but not modification).

Update Configuration File

Done

Configuration File Management

Now add a new config file in /etc/summit

Click on the config channel name (“Red Hat Config Channel 1”)

Click on Add Files sub-tab

Click on Create File subtab

Create the file - path, owner, permissions, content

Note the macro example

See section 6.7.5.1 of the RHN Reference Guide for details about macros (<http://tinyurl.com/pjndxr>)

Red Hat Network - Configuration - Configuration Files - Details - Mozilla Firefox

File Edit View History Bookmarks Tools Help

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Your RHN Systems Errata Channels **Configuration** Schedule Users Monitoring Satellite Tools Help

NO SYSTEMS SELECTED MANAGE CLEAR

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Revision 1 of /etc/summit from channel [Red Hat Config Channel 1](#) delete this file revision

Details Manage Revisions Deploy File Copy File Compare File

File Details

Configuration Channel:	Red Hat Config Channel 1
Revision:	1 (view other revisions)
Creation Date:	0 seconds ago
Last Modified:	0 seconds ago by satadmin
File Type:	Directory

File Properties

Filename/Path *:	/etc/summit
Ownership:	User or User ID *: root Group or Group ID *: 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 *:	755 Tip: '644' for text files and '755' for directories and executables will allow global access or execution (but not modification).

Update Configuration File

https://satellite.tc.redhat.com/rhn/configuration/ChannelOverview.do?ccid=41

Red Hat Network - Configuration - Overview - Mozilla Firefox

File Edit View History Bookmarks Tools Help

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Your RHN Systems Errata Channels **Configuration** Schedule Users Monitoring Satellite Tools Help

NO SYSTEMS SELECTED MANAGE CLEAR

Overview Configuration Channels Configuration Files Systems

Red Hat Config Channel 1 ?

Overview List/Remove Files **Add Files** Systems

Channel Properties (Edit Properties)

Name:	Red Hat Config Channel 1
Label:	rht-cfg-1
Description:	This is the first configuration channel for the Red Hat lab in Austin.

Channel Information

Number of Files:	0 files, 1 directories (1 total)
Systems:	No systems subscribed
Most-Recently Subscribed System	No systems subscribed

Configuration Actions

Add/Create Files

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

delete channel

https://satellite.tc.redhat.com/rhn/configuration/ChannelUploadFiles.do?ccid=41

Red Hat Network - Configuration - Add Files - Upload File - Mozilla Firefox

File Edit View History Bookmarks Tools Help

redhat.com https://satellite.tc.redhat.com/rhn/configuration/ChannelUploadFiles.do?ccid=41

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Your RHN Systems Errata Channels **Configuration** Schedule Users Monitoring Satellite Tools Help

NO SYSTEMS SELECTED MANAGE CLEAR

Overview Configuration Channels Configuration Files Systems

Red Hat Config Channel 1 delete channel

Overview List/Remove Files **Add Files** Systems

Upload File Import Files Create File

Upload New Configuration File

File to Upload *: Browse...

File Type: ☒ Text file ☐ Binary file

Filename/Path *:

Ownership: User or User ID *: root Group or Group ID *: root

File Permissions Mode *: 644

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

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.

https://satellite.tc.redhat.com/rhn/configuration/ChannelCreateFiles.do?ccid=41

Red Hat Network - Configuration - Add Files - Create File - Mozilla Firefox

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Red Hat Network - Configuration ...

Create New Configuration File

File Type: ☒ Text file ☐ Directory

Filename/Path *: /etc/summit/summit.conf

Ownership: User or User ID *: root
Group or Group ID *: 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).

Macro Delimiters *: Start Delimiter: {} End Delimiter: {}
Tip: A full listing of the available macros is listed in the [RHN Reference Guide](#).

File Contents:

```
systemid={|rhnsystem.sid|}
profile_name={|rhnsystem.profile_name|}
system_description={|rhnsystem.description|}
hostname={|rhnsystem.hostname|}
ip_address={|rhnsystem.ip_address|}
eth0={|rhnsystem.net_interface.ip_address(eth0)|}
netmask={|rhnsystem.net_interface.netmask(eth0)|}
broadcast={|rhnsystem.net_interface.broadcast(eth0)|}
mac_addr={|rhnsystem.net_interface.hardware_address(eth0)|}
nic_driver={|rhnsystem.net_interface.driver_module(eth0)|}
# this is a comment by Thomas Cameron <thomas@redhat.com>
|
```

Done

Red Hat Network - Configuration - Configuration Files - Details - Mozilla Firefox

File Edit View History Bookmarks Tools Help

redhat.com https://satellite.tc.redhat.com/rhn/configuration/file/FileDetails.do?cfid=42

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Your RHN Systems Errata Channels **Configuration** Schedule Users Monitoring Satellite Tools Help

NO SYSTEMS SELECTED MANAGE CLEAR

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Revision 1 of /etc/summit/summit.conf from channel Red Hat Config Channel 1 delete this file revision download file

Details Manage Revisions Deploy File Copy File Compare File

File Details

Configuration Channel: Red Hat Config Channel 1

Revision: 1 (view other revisions)

Creation Date: 0 seconds ago

Last Modified: 0 seconds ago by satadmin

File Type: Text File
Click here for more information on the differences between text and binary files.

File Properties

Filename/Path *: /etc/summit/summit.conf

Ownership:
User or User ID *: root
Group or Group ID *: 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).

Additional File Details

Done

Madness break!

Now that we've got a config channel defined, we're going to let it simmer over a Bunsen burner for a while...



Set up System Groups

Click on Systems Tab

Click on System Groups in the left nav bar

Click on “create a new group”

Red Hat Network - Systems - System Groups - Mozilla Firefox

File Edit View History Bookmarks Tools Help

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

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RED HAT NETWORK SATELLITE

Systems

Search

Your RHN **Systems** Errata Channels Configuration Schedule Users Monitoring Satellite Tools Help

NO SYSTEMS SELECTED MANAGE CLEAR

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

System Groups ?

[create new group](#)

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

[Download CSV](#)

Work With Union Work With Intersection

System Group Legend

- ☒ OK
- Warning
- Critical

Find: config Previous Next Highlight all Match case

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

Red Hat Network - Systems - System Groups - Mozilla Firefox

File Edit View History Bookmarks Tools Help

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

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RED HAT NETWORK SATELLITE

Systems

Search

Your RHN Systems Errata Channels Configuration Schedule Users Monitoring Satellite Tools Help

NO SYSTEMS SELECTED MANAGE CLEAR

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

Create System Group

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

* - Required Field

Name*: summit-group

Description*: This is a group for all machines managed during Red Hat Summit 2009.

Create Group

Find: config Previous Next Highlight all Match case

Done

Red Hat Network - Systems - System Groups - Mozilla Firefox

File Edit View History Bookmarks Tools Help

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

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RED HAT NETWORK SATELLITE

Systems

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Your RHN **Systems** Errata Channels Configuration Schedule Users Monitoring Satellite Tools Help

NO SYSTEMS SELECTED MANAGE CLEAR

System group **summit-group** created.

System Groups create new group

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

Filter by System Group Name: Go Display 500 items per page 1 - 1 of 1 (0 selected)

Updates	Health	Group Name	Systems	Use in SSM
☐	☒	summit-group	0	Use in SSM

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

Download CSV

Work With Union Work With Intersection

Find: config Previous Next Highlight all Match case

Done

Madness break!

Now that we've defined a system group, we'll leave it in the cyclotron for a while...



Channel Cloning

Channels Tab

Manage Software Channels in the left nav bar

Click “clone channel”

Channel to clone

Clone State

Current state

Original state

Select errata

Click “Create Channel”

Channel Cloning - note...

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 5.2, RHEL 4.6, and so on.

For now I'll demonstrate cloning dev, qa and production channels at the current state - we'll come back to setting up a “locked” channel later.

Red Hat Network - Channels - Manage Software Channels - Details - Mozilla Firefox

File Edit View History Bookmarks Tools Help

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

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Red Hat Network - Channels - Ma...

Software Channels
Package Search
Manage Software Channels
Manage Software Packages

Software Channel: New Channel

Details

Clone Channel

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

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

Clone From: Red Hat Enterprise Linux (v. 5 for 32-bit x86)

Clone:

- ☒ Current state of the channel (all errata)
- ☐ Original state of the channel (no errata)
- ☐ Select errata

Create Channel

Find: config Previous Next Highlight all Match case

Done

Red Hat Network - Channels - Manage Software Channels - Details - Mozilla Firefox

File Edit View History Bookmarks Tools Help

redhat.com https://satellite.tc.redhat.com/network/software/channels/manage/edit.pxt?clone_from=101&clone_type

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Red Hat Network - Channels - Ma...

Channel summary is also required.

Clone From:	Red Hat Enterprise Linux (v. 5 for 32-bit x86)
Clone Type:	Current state of the channel
Parent Channel:	None
Channel Name*:	DEV Red Hat Enterprise Linux (v. 5 for 32-bit x86) Ex: Custom Channel
Channel Label*:	dev-rhel-i386-server-5 Ex: custom-channel
Base Channel Architecture*:	IA-32
Channel Package Summary:	n/a
Channel Summary*:	Red Hat Enterprise Linux (v. 5 for 32-bit x86 Server)
GPG key URL:	file:///etc/pki/rpm-gpg/RPM-GPG-KEY-redhat-release
GPG key ID:	 Ex: DB42A60E
GPG key Fingerprint:	

Find: config Previous Next Highlight all Match case

Done

Channel Cloning

This will take some time depending on the processing power and disk speed of your Satellite server.

Each of the package entries in the database from the Red Hat provided channel (in this case RHEL 5 i386) will be cloned and show up as part of the newly cloned channel

The packages themselves are not copied - it's just the entries in the database. This minimizes disk usage.

Red Hat Network - Channels - Manage Software Channels - Details - Mozilla Firefox

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redhat.com https://satellite.tc.redhat.com/network/software/channels/manage/edit.pxt?cid=561

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Your RHN Systems Errata **Channels** Configuration Schedule Users Monitoring Satellite Tools Help

NO SYSTEMS SELECTED MANAGE CLEAR

Software Channels
Package Search
Manage Software Channels
Manage Software Packages

Red Hat Enterprise Linux (v. 5 for 32-bit x86) has been cloned as DEV Red Hat Enterprise Linux (v. 5 for 32-bit x86).

 **Software Channel: DEV Red Hat Enterprise Linux (v. 5 for 32-bit x86)** [delete software channel](#)

[Details](#) [Managers](#) [Errata](#) [Packages](#)

Edit Software Channel

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.

Cloned From: Red Hat Enterprise Linux (v. 5 for 32-bit x86)

Find: config Previous Next Highlight all Match case

Done

Channel Cloning

Take a look at the Errata sub-tab and the the List/Remove sub-tab to see that all of the errata have been cloned.

RHBA (Red Hat Bug Advisory) becomes CLBA

RHSA (Red Hat Security Advisory) becomes CLSA

RHEA (Red Hat Enhancement Advisory) becomes CLEA

Red Hat Network - Channels - Manage Software Channels - Errata - List / Remove - Mozilla Firefox

File Edit View History Bookmarks Tools Help

redhat.com https://satellite.tc.redhat.com/network/software/channels/manage/errata/list.pxt?manage_channel_navi_

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Red Hat Network - Channels - Ma...

NO SYSTEMS SELECTED MANAGE CLEAR

Software Channels
Package Search
Manage Software Channels
Manage Software Packages

 **Software Channel: DEV Red Hat Enterprise Linux (v. 5 for 32-bit x86)**  delete software channel

[Details](#) [Managers](#) [Errata](#) [Packages](#)

[List / Remove](#) [Add](#) [Clone](#)

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

 Remove Errata

1 - 50 of 987 (0 selected) << < > >>

Type	Advisory	Synopsis	Updated
	CLBA-2009:1215	net-snmp bug fix update	2009-08-17
	CLSA-2009:1222	Important: kernel security and bug fix update	2009-08-23
	CLSA-2009:1232	Moderate: gnutls security update	2009-08-25
	CLSA-2009:1206	Moderate: libxml and libxml2 security update	2009-08-09
	CLSA-2009:1209	Moderate: curl security update	2009-08-12
	CLEA-2009:1214	tzdata enhancement update	2009-08-16
	CLSA-2009:1219	Important: libvorbis security update	2009-08-17
	CLSA-2009:1201	Important: java-1.6.0-openjdk security and bug fix update	2009-08-05
	CLBA-2009:1202	glibc bug fix update	2009-08-06
	CLSA-2009:1203	Important: subversion security update	2009-08-09

Find: config Previous Next Highlight all Match case

Done

Channel Cloning

Clone the child channels appropriate for your environment. In this example, RHN Tools for RHEL 5 i386:

Red Hat Network - Channels - Manage Software Channels - Mozilla Firefox

File Edit View History Bookmarks Tools Help

redhat.com https://satellite.tc.redhat.com/network/software/channels/manage/index.pxt

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Software Channels
Package Search
Manage Software Channels
Manage Software Packages

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.

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

Channel Name	Actions	Packages
DEV Red Hat Enterprise Linux (v. 5 for 32-bit x86)		5519

1 - 1 of 1

1 - 1 of 1

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Red Hat Network release 5.2.0

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

Red Hat Network - Channels - Manage Software Channels - Details - Mozilla Firefox

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

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Red Hat Network - Channels - Ma...

NO SYSTEMS SELECTED MANAGE CLEAR

Software Channels
Package Search
Manage Software Channels
Manage Software Packages

Software Channel: New Channel

Details

Clone Channel

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

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

Clone From: Red Hat Network Tools for RHEL Server (v.5 32-bit x86)

Clone:

- ☒ Current state of the channel (all errata)
- ☐ Original state of the channel (no errata)
- ☐ Select errata

Create Channel

Find: config Previous Next Highlight all Match case

Done

Red Hat Network - Channels - Manage Software Channels - Details - Mozilla Firefox

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redhat.com https://satellite.tc.redhat.com/network/software/channels/manage/edit.pxt?clone_from=145&clone_type= Google

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Clone From: Red Hat Network Tools for RHEL Server (v.5 32-bit x86)

Clone Type: Current state of the channel

Parent Channel: DEV Red Hat Enterprise Linux (v. 5 for 32-bit x86)

Channel Name*: DEV Red Hat Network Tools for RHEL Server (v.5 32-bit x86)
Ex: Custom Channel

Channel Label*: dev-rhn-tools-rhel-i386-server-5
Ex: custom-channel

Base Channel Architecture*: IA-32

Channel Package Summary: n/a

Channel Summary*: Red Hat Network Tools for RHEL 5 Server (i386)

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

Find: config Previous Next Highlight all Match case

Done

Red Hat Network - Channels - Manage Software Channels - Details - Mozilla Firefox

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redhat.com https://satellite.tc.redhat.com/network/software/channels/manage/edit.pxt?cid=562

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Red Hat Network - Channels - Ma...

Software Channels
Package Search
Manage Software Channels
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Red Hat Network Tools for RHEL Server (v.5 32-bit x86) has been cloned as DEV Red Hat Network Tools for RHEL Server (v.5 32-bit x86).

 **Software Channel: DEV Red Hat Network Tools for RHEL Server (v.5 32-bit x86)** [delete software channel](#)

[Details](#) [Managers](#) [Errata](#) [Packages](#)

Edit Software Channel

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.

Cloned From:	Red Hat Network Tools for RHEL Server (v.5 32-bit x86)
Parent Channel:	DEV Red Hat Enterprise Linux (v. 5 for 32-bit x86)
Channel Name*:	DEV Red Hat Network Tools for RHEL Server (v.5 32-bit x86) Ex: Custom Channel
Channel Label*:	dev-rhn-tools-rhel-i386-server-5
Base Channel Architecture*:	IA-32

Find: config [Previous](#) [Next](#) [Highlight all](#) ☐ Match case

Done

Channel Cloning

Lather, rinse, repeat for each of the child channels which make sense. In this example, I've done Clustering, Cluster-Storage, Optional Productivity Apps, Supplementary and Virtualization.

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redhat.com https://satellite.tc.redhat.com/network/software/channels/manage/index.pxt

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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.

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

Channel Name	Actions	Packages
DEV Red Hat Enterprise Linux (v. 5 for 32-bit x86)		5519
DEV Red Hat Network Tools for RHEL Server (v.5 32-bit x86)		417
DEV RHEL Cluster-Storage (v. 5 for 32-bit x86)		176
DEV RHEL Clustering (v. 5 for 32-bit x86)		118
DEV RHEL Optional Productivity Apps (v. 5 for 32-bit x86)		1011
DEV RHEL Supplementary (v. 5 for 32-bit x86)		411
DEV RHEL Virtualization (v. 5 for 32-bit x86)		152

1 - 7 of 7

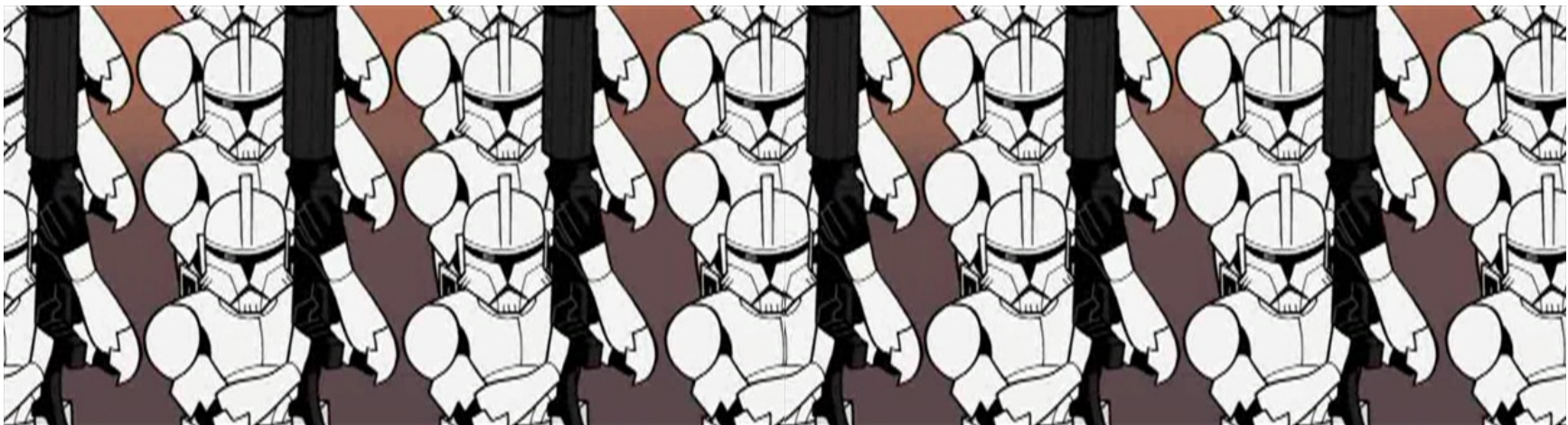
Find: [Previous](#) [Next](#) [Highlight all](#) ☐ Match case

Done

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

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Software Channels
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Software Channel: New Channel

Details

Clone Channel

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

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

Clone From: QA Red Hat Enterprise Linux (v. 5 for 32-bit x86)

Clone:

- ☒ Current state of the channel (all errata)
- ☐ Original state of the channel (no errata)
- ☐ Select errata

Create Channel

Find: config Previous Next Highlight all Match case

Done

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redhat.com https://satellite.tc.redhat.com/network/software/channels/manage/index.pxt

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Manage Software Packages

Software Channel Management

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

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Channel Name	Actions	Packages
DEV Red Hat Enterprise Linux (v. 5 for 32-bit x86)		5519
DEV Red Hat Network Tools for RHEL Server (v.5 32-bit x86)		417
DEV RHEL Cluster-Storage (v. 5 for 32-bit x86)		176
DEV RHEL Clustering (v. 5 for 32-bit x86)		118
DEV RHEL Optional Productivity Apps (v. 5 for 32-bit x86)		1011
DEV RHEL Supplementary (v. 5 for 32-bit x86)		411
DEV RHEL Virtualization (v. 5 for 32-bit x86)		152
QA Red Hat Enterprise Linux (v. 5 for 32-bit x86)		5519
QA Red Hat Network Tools for RHEL Server (v.5 32-bit x86)		417
QA RHEL Cluster-Storage (v. 5 for 32-bit x86)		176
QA RHEL Clustering (v. 5 for 32-bit x86)		118
QA RHEL Optional Productivity Apps (v. 5 for 32-bit x86)		1011
QA RHEL Supplementary (v. 5 for 32-bit x86)		411
QA RHEL Virtualization (v. 5 for 32-bit x86)		152
PROD Red Hat Enterprise Linux (v. 5 for 32-bit x86)		5519
PROD Red Hat Network Tools for RHEL Server (v.5 32-bit x86)		417

Find: config Previous Next Highlight all Match case

https://satellite.tc.redhat.com/network/software/channels/manage/index.pxt

Creating a “locked” channel

Justin Sherrill (ridiculously smart guy) of the Spacewalk/Satellite team (ridiculously smart team) came up with a peach of a script

Currently not part of RHN Satellite, hosted at <https://fedorahosted.org/spacewalk/wiki/channel-to-update>

This is **not** supported by Red Hat. The only promise we make is that if it breaks... you get to keep all the pieces.

See Appendix A of this slide deck on how to use it. Time permitting I'll show Appendix A.

Madness break!

Now that we've cloned channels, we'll leave them in the test tube for a while...



Custom Channels

For internally developed or other non-Red Hat packages.

Custom Channels - web UI actions

Channels tab

Manage Software Channels

“Create new channel” link on the right

Custom Channels - web UI actions

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 channel for the utilities I need to manage my iPod. I'll make it a child channel of the standard RHEL 5 server i386 parent.

I'm going to talk about GPG signatures later

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redhat.com https://satellite.tc.redhat.com/network/software/channels/manage/index.pxt

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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.

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

1 - 26 of 26

Channel Name	Actions	Packages
DEV Red Hat Enterprise Linux (v. 5 for 32-bit x86)		5514
... DEV Red Hat Network Tools for RHEL Server (v.5 32-bit x86)		417
... DEV RHEL Cluster-Storage (v. 5 for 32-bit x86)		176
... DEV RHEL Clustering (v. 5 for 32-bit x86)		118
... DEV RHEL Optional Productivity Apps (v. 5 for 32-bit x86)		1011
... DEV RHEL Supplementary (v. 5 for 32-bit x86)		411
... DEV RHEL Virtualization (v. 5 for 32-bit x86)		152
QA Red Hat Enterprise Linux (v. 5 for 32-bit x86)		5514
... QA Red Hat Network Tools for RHEL Server (v.5 32-bit x86)		417
... QA RHEL Cluster-Storage (v. 5 for 32-bit x86)		176

https://satellite.tc.redhat.com/network/software/channels/manage/edit.pxt

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redhat.com https://satellite.tc.redhat.com/network/software/channels/manage/edit.pxt

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Red Hat Network - Channels - Ma...

Software Channels
Package Search
Manage Software Channels
Manage Software Packages

Software Channel: New Channel

Details

Edit Software Channel

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.

Parent Channel: Red Hat Enterprise Linux (v. 5 for 32-bit x86)

Channel Name*: iPod Tools for RHEL 5 Server i386
Ex: Custom Channel

Channel Label*: ipod-tools-rhel-5-i386
Ex: custom-channel

Base Channel Architecture*: IA-32

Channel Package Summary: n/a

Channel Summary*: iPod Tools for RHEL 5 Server i386

GPG key URL:

Done

Red Hat Network - Channels - Manage Software Channels - Details - Mozilla Firefox

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redhat.com https://satellite.tc.redhat.com/network/software/channels/manage/edit.pxt?cid=602

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Software Channels
Package Search
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Channel iPod Tools for RHEL 5 Server i386 created.

 **Software Channel: iPod Tools for RHEL 5 Server i386**  [delete software channel](#)

[Details](#) [Managers](#) [Errata](#) [Packages](#)

Edit Software Channel

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.

Parent Channel:	Red Hat Enterprise Linux (v. 5 for 32-bit x86)
Channel Name*:	iPod Tools for RHEL 5 Server i386 Ex: Custom Channel
Channel Label*:	ipod-tools-rhel-5-i386
Base Channel Architecture*:	IA-32
Globally Subscribable:	☒ All users in your organization may subscribe to this channel.
Channel Package Summary:	n/a
Channel Summary*:	iPod Tools for RHEL 5 Server i386

Done

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redhat.com https://satellite.tc.redhat.com/network/software/channels/manage/index.pxt

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

Software Channels
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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.

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

1 - 28 of 28

Channel Name	Actions	Packages
Red Hat Enterprise Linux (v. 5 for 32-bit x86)		5519
iPod Tools for RHEL 5 Server i386		0
DEV Red Hat Enterprise Linux (v. 5 for 32-bit x86)		5514
DEV Red Hat Network Tools for RHEL Server (v.5 32-bit x86)		417
DEV RHEL Cluster-Storage (v. 5 for 32-bit x86)		176
DEV RHEL Clustering (v. 5 for 32-bit x86)		118
DEV RHEL Optional Productivity Apps (v. 5 for 32-bit x86)		1011
DEV RHEL Supplementary (v. 5 for 32-bit x86)		411
DEV RHEL Virtualization (v. 5 for 32-bit x86)		152

Find: [Previous](#) [Next](#) [Highlight all](#) ☐ Match case

Done

Custom Channels - shell actions

For security those packages must be GPG signed before you upload

I recommend a secure signing process - have an account somewhere where only trusted admins can sign packages

Multi-factor/checks and balances is not a bad thing - one person or group can sign packages but a separate person or group has to upload them to the Satellite

The GPG information should also be uploaded to the Satellite server

Once this is done, you can upload the packages to the channel from the command line

Setting up GPG

Define your package signer. In this example, we have a system ***other than the Satellite server*** which has all the development/build tools installed on it. It also has an account on it called “rpmadmin” which can build/sign packages

rpmadmin creates a GPG key and exports it.

```
gpg --gen-key
```

```
gpg --export -a [name] > [public key]
```

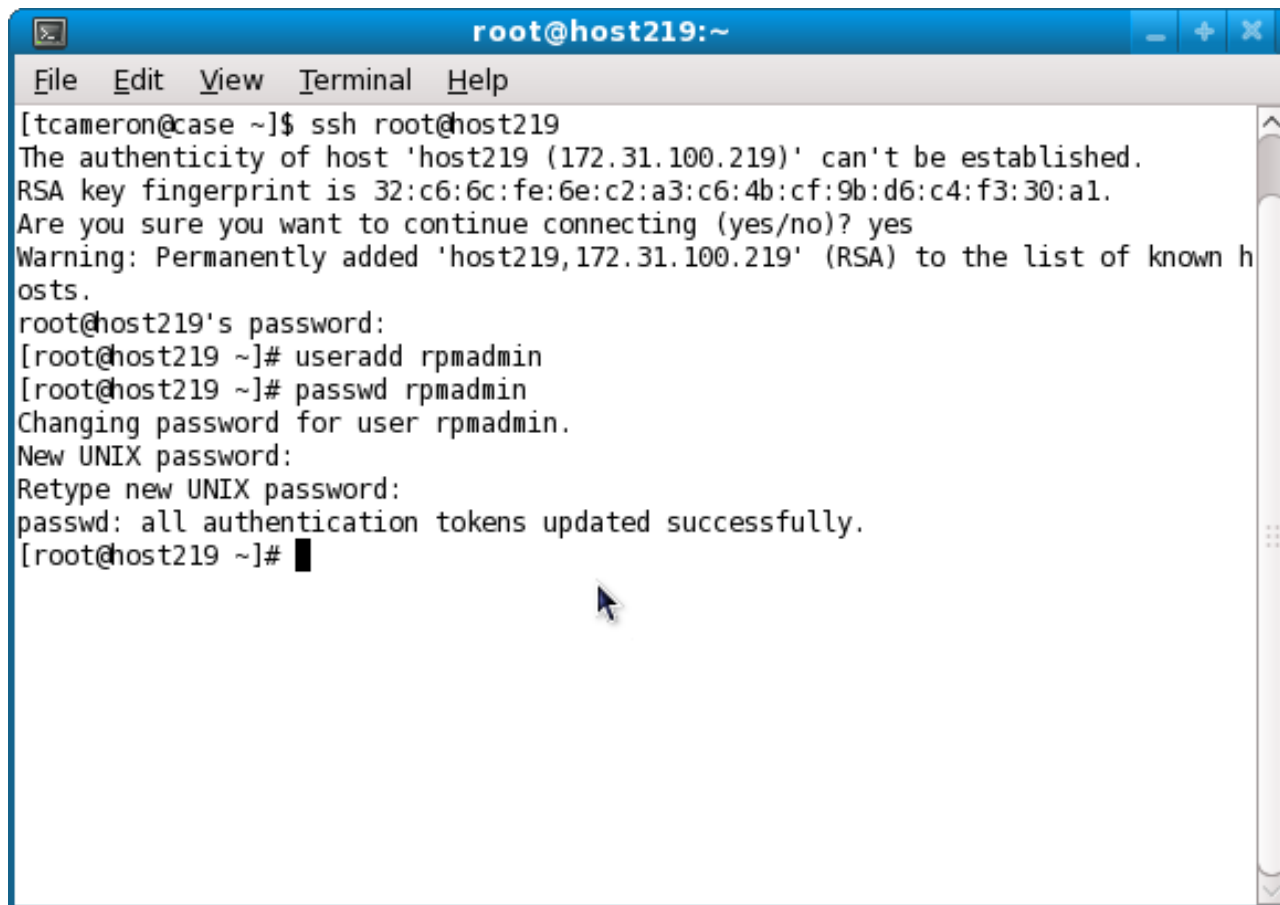
Add lines to /home/rpmadmin/.rpmmacros

```
%_signature gpg
```

```
%_gpg_name [your key ID]
```

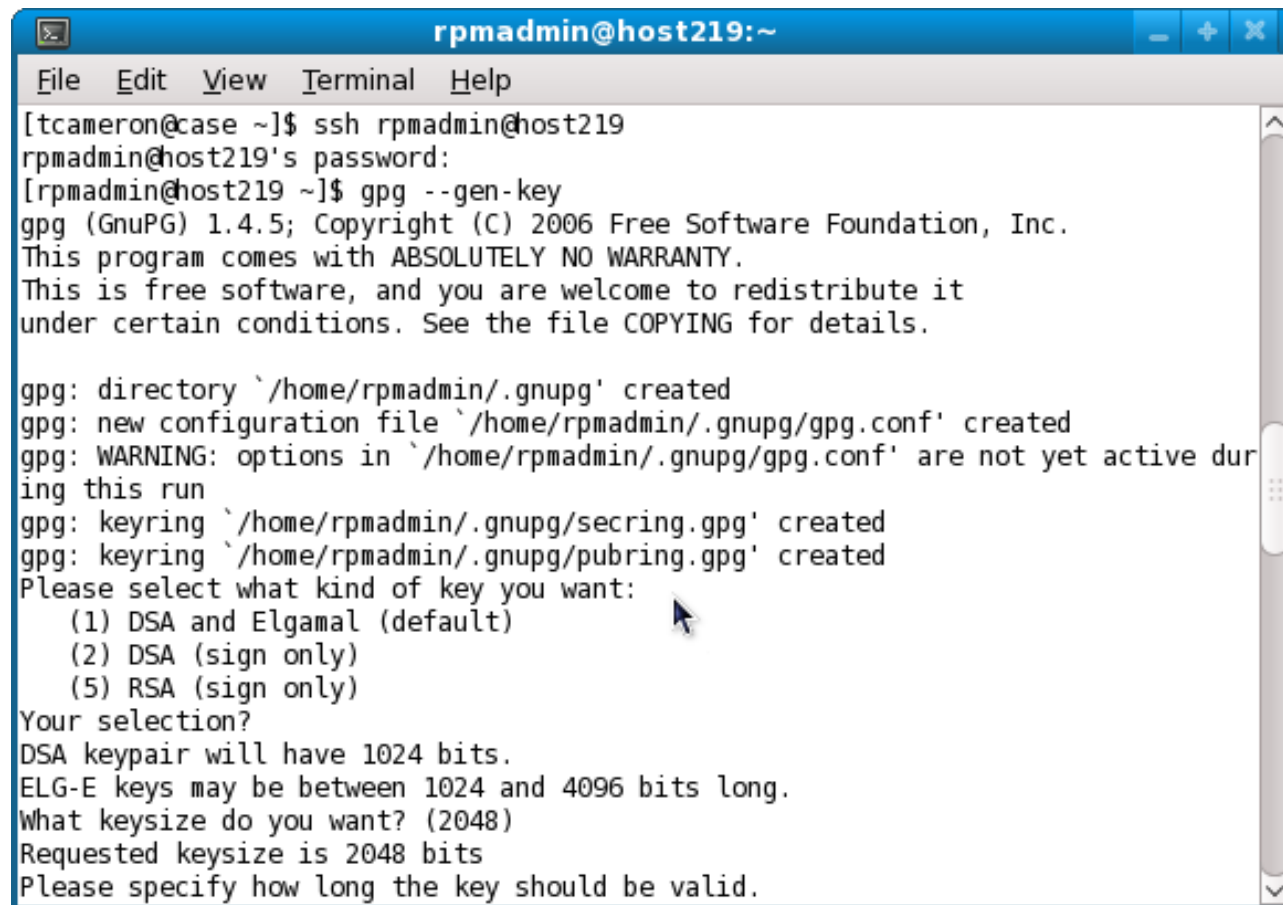
Setting up GPG

Once the packages are built and signed, upload them to a directory on the Satellite server and upload them using the `rhnpush` command



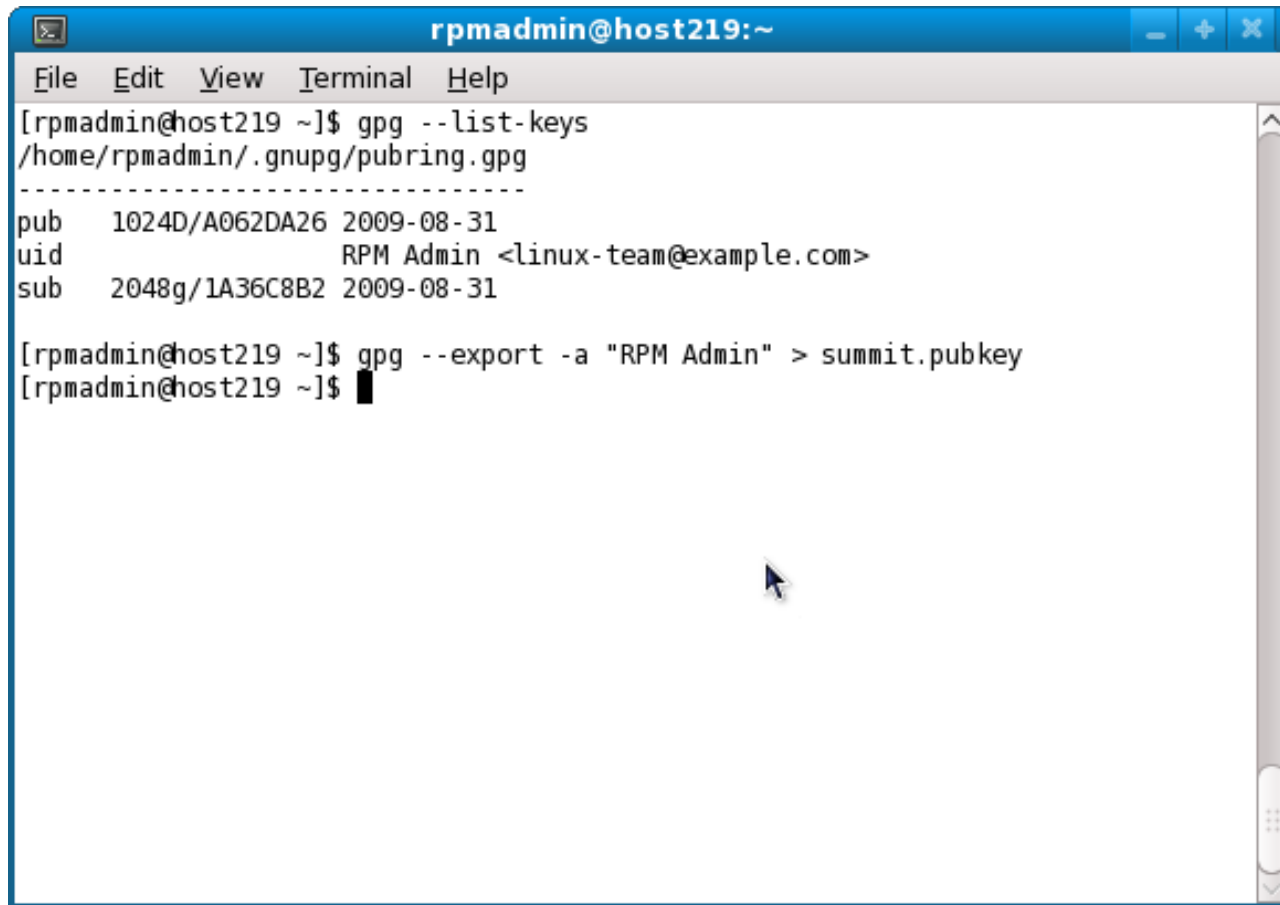
A terminal window titled "root@host219:~" with a menu bar (File, Edit, View, Terminal, Help). The terminal shows the following commands and output:

```
[tcameron@case ~]$ ssh root@host219
The authenticity of host 'host219 (172.31.100.219)' can't be established.
RSA key fingerprint is 32:c6:6c:fe:6e:c2:a3:c6:4b:cf:9b:d6:c4:f3:30:a1.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added 'host219,172.31.100.219' (RSA) to the list of known hosts.
root@host219's password:
[root@host219 ~]# useradd rpadmin
[root@host219 ~]# passwd rpadmin
Changing password for user rpadmin.
New UNIX password:
Retype new UNIX password:
passwd: all authentication tokens updated successfully.
[root@host219 ~]#
```

A terminal window titled 'rpmadmin@host219:~' with a menu bar (File, Edit, View, Terminal, Help). The terminal shows a user logging in via SSH and running 'gpg --gen-key'. It displays the GnuPG version (1.4.5), copyright notice, and directory creation. It then prompts for key type selection, showing options (1) DSA and Elgamal (default), (2) DSA (sign only), and (5) RSA (sign only). The user selects (1), and the terminal shows the key size (1024 bits) and the requested key size (2048 bits).

```
rpmadmin@host219:~  
File Edit View Terminal Help  
[tcameron@case ~]$ ssh rpmadmin@host219  
rpmadmin@host219's password:  
[rpmadmin@host219 ~]$ gpg --gen-key  
gpg (GnuPG) 1.4.5; Copyright (C) 2006 Free Software Foundation, Inc.  
This program comes with ABSOLUTELY NO WARRANTY.  
This is free software, and you are welcome to redistribute it  
under certain conditions. See the file COPYING for details.  
  
gpg: directory `/home/rpmadmin/.gnupg' created  
gpg: new configuration file `/home/rpmadmin/.gnupg/gpg.conf' created  
gpg: WARNING: options in `/home/rpmadmin/.gnupg/gpg.conf' are not yet active during this run  
gpg: keyring `/home/rpmadmin/.gnupg/secring.gpg' created  
gpg: keyring `/home/rpmadmin/.gnupg/pubring.gpg' created  
Please select what kind of key you want:  
  (1) DSA and Elgamal (default)  
  (2) DSA (sign only)  
  (5) RSA (sign only)  
Your selection?  
DSA keypair will have 1024 bits.  
ELG-E keys may be between 1024 and 4096 bits long.  
What keysize do you want? (2048)  
Requested keysize is 2048 bits  
Please specify how long the key should be valid.
```

```
rpmadmin@host219:~  
File Edit View Terminal Help  
    0 = key does not expire  
    <n> = key expires in n days  
    <n>w = key expires in n weeks  
    <n>m = key expires in n months  
    <n>y = key expires in n years  
Key is valid for? (0)  
Key does not expire at all  
Is this correct? (y/N) y  
  
You need a user ID to identify your key; the software constructs the user ID  
from the Real Name, Comment and Email Address in this form:  
    "Heinrich Heine (Der Dichter) <heinrichh@duesseldorf.de>"  
  
Real name: RPM Admin  
Email address: linux-team@example.com  
Comment:  
You selected this USER-ID:  
    "RPM Admin <linux-team@example.com>"  
  
Change (N)ame, (C)omment, (E)mail or (O)kay/(Q)uit? o  
You need a Passphrase to protect your secret key.  
  
We need to generate a lot of random bytes. It is a good idea to perform  
some other action (type on the keyboard, move the mouse, utilize the
```

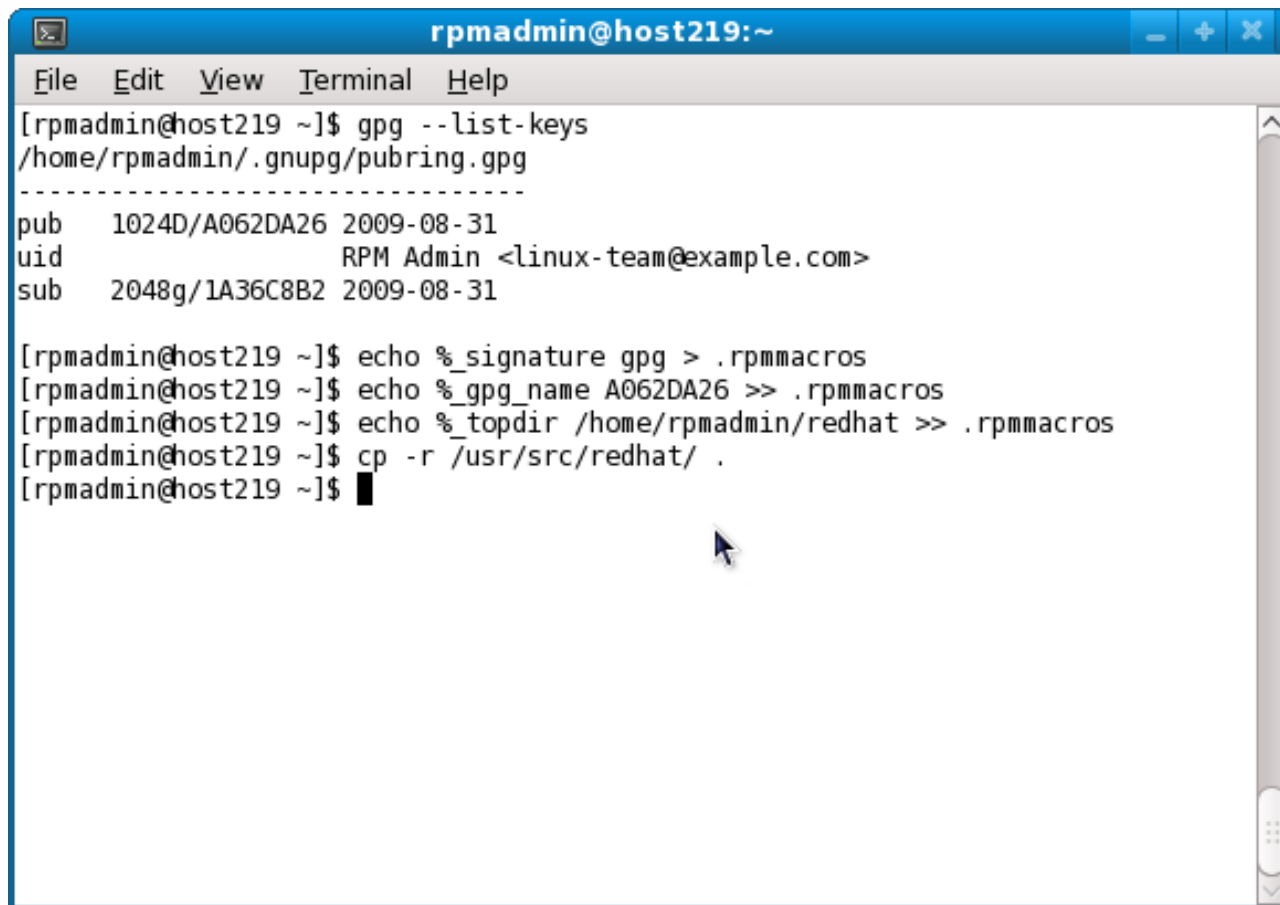



A terminal window titled "rpmadmin@host219:~" with a menu bar (File, Edit, View, Terminal, Help). The terminal shows the execution of two GPG commands. The first command, "gpg --list-keys /home/rpmadmin/.gnupg/pubring.gpg", lists a public key (1024D/A062DA26) and a subkey (2048g/1A36C8B2) for "RPM Admin <linux-team@example.com>". The second command, "gpg --export -a 'RPM Admin' > summit.pubkey", is entered and the cursor is at the end of the line.

```
rpmadmin@host219:~  
File Edit View Terminal Help  
[rpmadmin@host219 ~]$ gpg --list-keys  
/home/rpmadmin/.gnupg/pubring.gpg  
-----  
pub   1024D/A062DA26 2009-08-31  
uid           RPM Admin <linux-team@example.com>  
sub    2048g/1A36C8B2 2009-08-31  
  
[rpmadmin@host219 ~]$ gpg --export -a "RPM Admin" > summit.pubkey  
[rpmadmin@host219 ~]$
```

```
[rpmadmin@host219 ~]$ cat summit.pubkey
-----BEGIN PGP PUBLIC KEY BLOCK-----
Version: GnuPG v1.4.5 (GNU/Linux)
```

```
mQGIBEqbm4ARBACLEMqDDHuSeTBKjefLEHM/ezMp7r6HqgRhoVSCX0wfHHuxp3xp
uA67i7MAFFdoxI71wRvN0sKQuARayTCnTl2yvPX1AlLCmAAMDgjhT4ibj8k5xj3t
NHQoch2btp6hKWnkwZMNMG2fi0KfRmgZUs+b6V9H0EPQELGgdEw4PwdCbwCgtipz
f0IL1+UR72L9qPvVj42V+L0D/3/LtTQz1cakoXLSbaKRtlQs8w9Zm/UKgKyjUHXv
KLvmShZ5p1fcKrpGnckK2WNwR3YiW70UG4G7lTLcT6cM0rNhQWjPtz2rtiZefvsA
nFqGe7Sp4S0MnFh0VKYpyFCSWUISxtZW02hvjzzwRjFp10ZWhFgvrVQujGGxf8qN
PhfUBACDuXEk7CJ5kNSg0qlL1+QEMsYrw5VG1HG2nlVfdiS6EhBRbqRd9vz4NNYw
NiE3/0fssi/jAryaxd0cqZpTe7eqeTxvHBrfNYS7g0x2rYE/pgTBaegzBteVuCOr
E4lYlcm74m+35uIncvFyvQQu15BAaqnImA2wCAjWQ/VMY7oXUbQiUlBNIEFkbWlu
IDxsaw51eC10ZWftQGV4YW1wbGUuY29tPohgBBMRagAgBQJKmz0AAhsDBgsJCAcD
AgQVAggDBBYCAwECHgECF4AACgkQt8cCyKBi2iZLlQCgikCoEXTHHMeWyKr2cTIG
7BysuuEAmwWIrmQcRW2vAw2qT1URM2IG4ACpuQINBEqbM74QCAD0cRPWe8mtv6AM
lk2E3iR0jZiQcnQcZyFCRC6sC9bYtQj0/Pwls4qo30KNLf9IqQkcGDnn3dH6JoJx
WmJtAD6I1lN+m1Jxs74zu9HNqb4S528I6aMs/TiBC0vYyMsS3d0YtBqR+1Y2UpLI
+AUK0rPqC06jxVESQf/LIOvkdzKJvZoYsX0l5IzWdltd0u0aL8Lbd7FDTH52Ig6H
5MYF6zXjPjrbzm91GjQKKVAoD14w7UGJEvFG4dKDGCljRivWm2iB68La2I/rAhIJ
B1yxzI8mbERXW5wHe1Dv20n6JPP6sw1lJKCZtph7c6k3DREWMIIXAC/KuDa3cjp1
MQPih1l3AAURB/od5V9CeibG0pPC7C2WWCpgdD00e4BCtj0i2RDYuiRP5VxrCXnR
6XU9rztg+vaz0+znliqprQ9nmoLqBxc0j2lnLQIKYemXH0DyyT4TpdSxfG2ho0ZC
n3d1k88e4GCw+YdGw1UEDF236o+mKwBbtFAJYovZy3sfh9otd4SI/pV/o9Fke0o1
aiC7/1fUw2dvPCrtgUcdLdLNVpkN5Uyb0NPU7GLsPZUCIeob/9AMoVin2rw4etYY
VbPBmWdqrkn431YQvE7RbXiQlRXwLbRDM2//iGPu0aACLJrNRff+1qTqItj/MprD
Wl0DXeo0q7bcFRj0HuqEZCPg0tdzSq7wk7XliEkEGBECAAKFAkqbM74CGwwACgkQ
t8cCyKBi2iYL7QCdHU6vvyMT88rrehqX3Er134WLWjoAoKyaF6k6InZ8tkdDdwz0
be0X2oub
=JAE+
-----END PGP PUBLIC KEY BLOCK-----
```

A terminal window titled 'rpmadmin@host219:~' with a menu bar (File, Edit, View, Terminal, Help). The terminal shows the following commands and output:

```
[rpmadmin@host219 ~]$ gpg --list-keys  
/home/rpmadmin/.gnupg/pubring.gpg  
-----  
pub 1024D/A062DA26 2009-08-31  
uid RPM Admin <linux-team@example.com>  
sub 2048g/1A36C8B2 2009-08-31  
  
[rpmadmin@host219 ~]$ echo %_signature gpg > .rpmmacros  
[rpmadmin@host219 ~]$ echo %_gpg_name A062DA26 >> .rpmmacros  
[rpmadmin@host219 ~]$ echo %_topdir /home/rpmadmin/redhat >> .rpmmacros  
[rpmadmin@host219 ~]$ cp -r /usr/src/redhat/ .  
[rpmadmin@host219 ~]$
```

Sign the RPMs

In this example, there are four packages needed. I used the ones from Fedora Core 6.

gtkpod

libgpod

libid3tag

libmp4v2

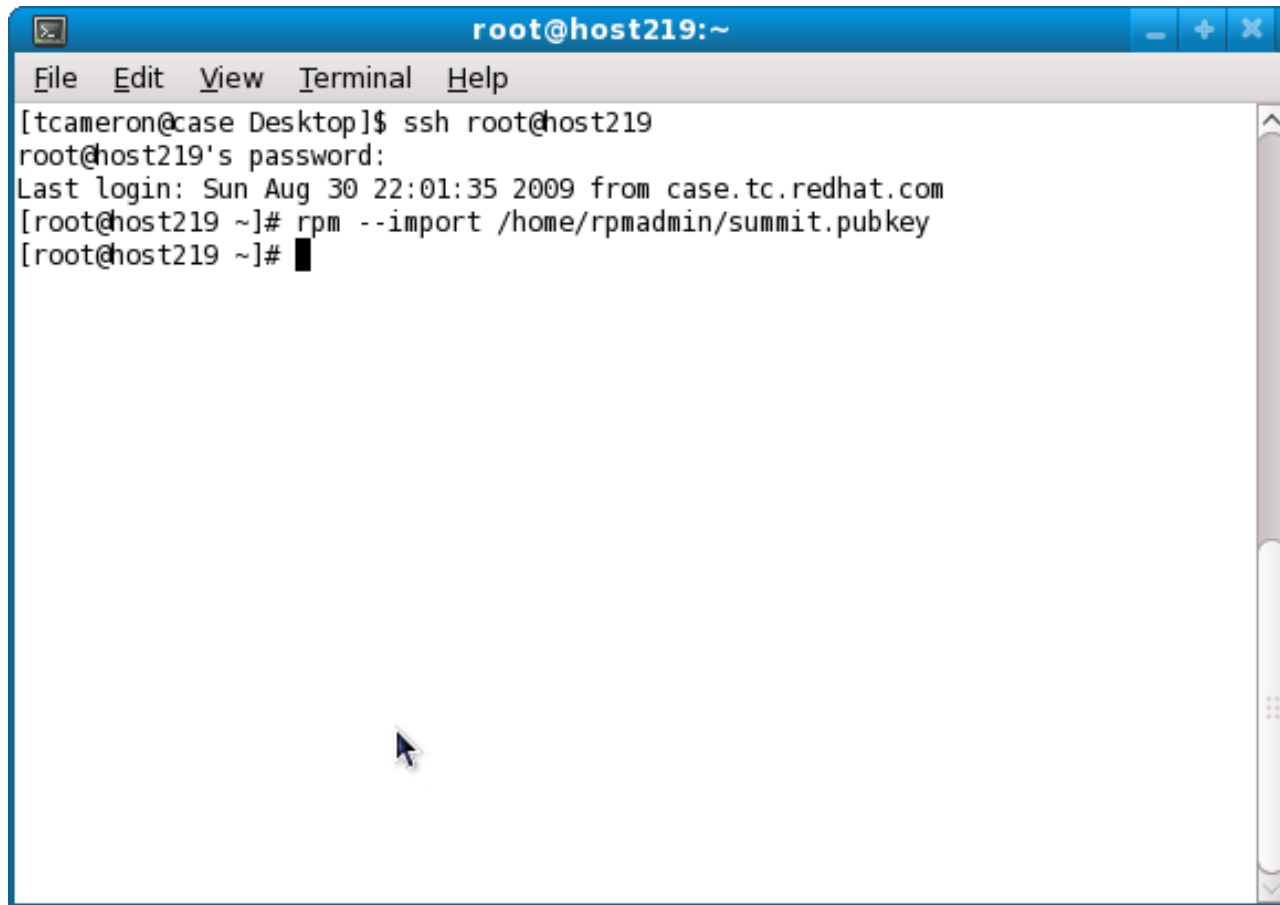
Have the root user of the rpm signing station import rpmadmin's gpg key

Copy the packages to the rpm signing station

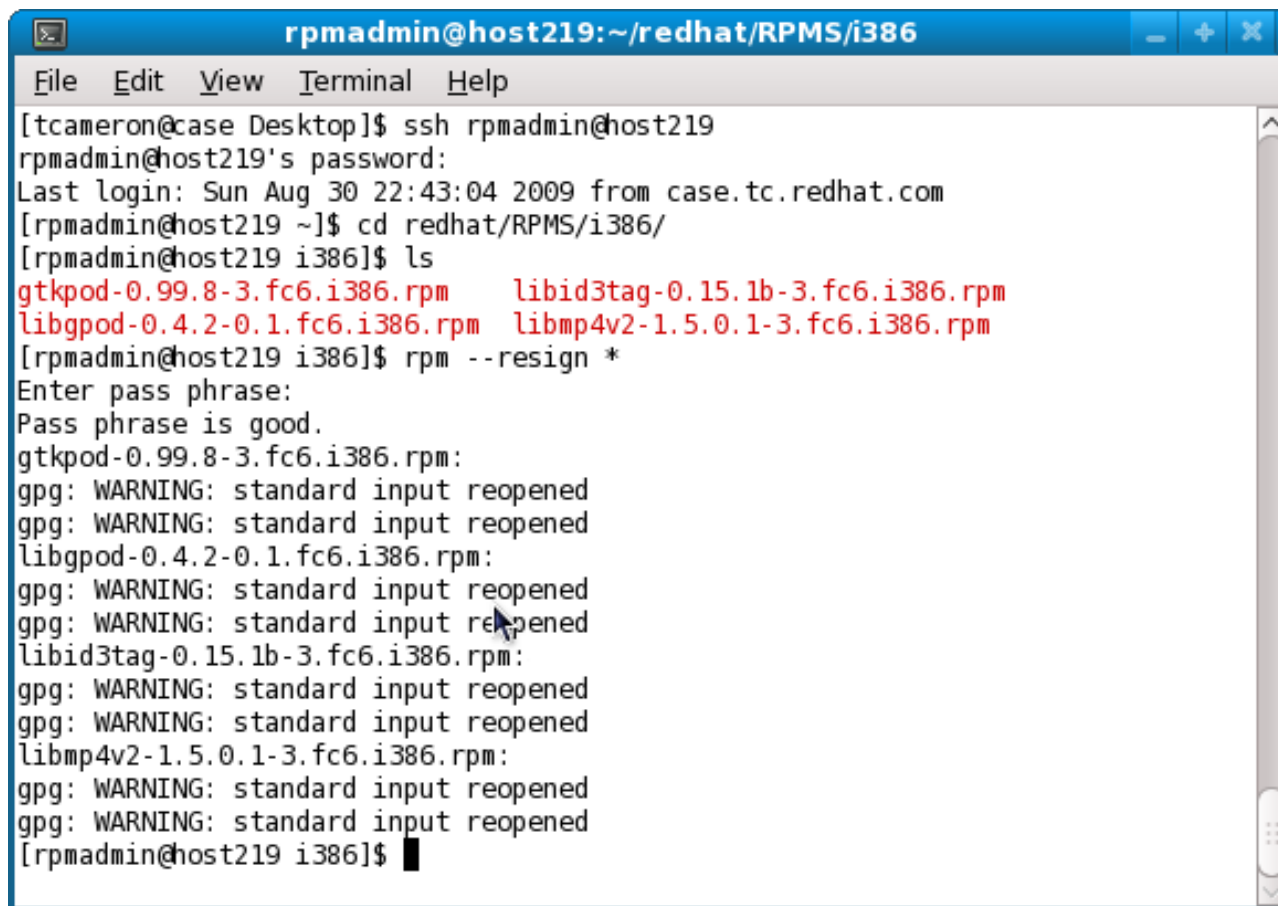
Sign the RPMs

Have the rpmsadmin account sign them with `rpm --resign`

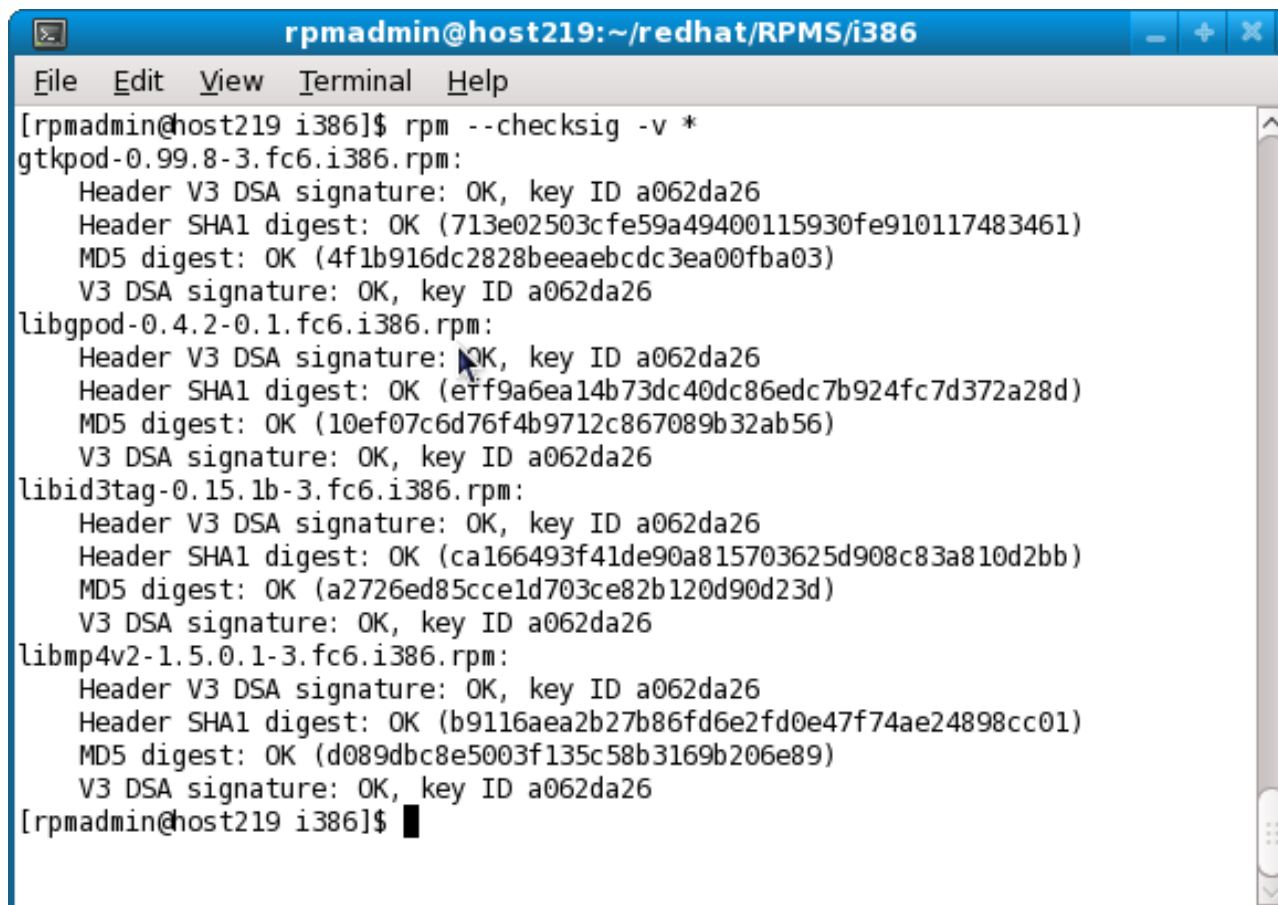
Check the signature with `rpm --checksig`

A terminal window titled "root@host219:~" with a menu bar (File, Edit, View, Terminal, Help). The terminal shows a user logging in via SSH and running an RPM command.

```
root@host219:~  
File Edit View Terminal Help  
[tcameron@case Desktop]$ ssh root@host219  
root@host219's password:  
Last login: Sun Aug 30 22:01:35 2009 from case.tc.redhat.com  
[root@host219 ~]# rpm --import /home/rpadmin/summit.pubkey  
[root@host219 ~]#
```

A terminal window titled 'rpmadmin@host219:~/redhat/RPMS/i386' with a menu bar (File, Edit, View, Terminal, Help). The terminal shows a user logging in via SSH, navigating to the directory, listing files, and running 'rpm --resign *'. The output shows the resigning of four RPM packages with GPG warnings. The window has standard Linux window controls and a scrollbar on the right.

```
rpmadmin@host219:~/redhat/RPMS/i386
File Edit View Terminal Help
[tcameron@case Desktop]$ ssh rpmadmin@host219
rpmadmin@host219's password:
Last login: Sun Aug 30 22:43:04 2009 from case.tc.redhat.com
[rpmadmin@host219 ~]$ cd redhat/RPMS/i386/
[rpmadmin@host219 i386]$ ls
gtkpod-0.99.8-3.fc6.i386.rpm      libid3tag-0.15.1b-3.fc6.i386.rpm
libgpod-0.4.2-0.1.fc6.i386.rpm  libmp4v2-1.5.0.1-3.fc6.i386.rpm
[rpmadmin@host219 i386]$ rpm --resign *
Enter pass phrase:
Pass phrase is good.
gtkpod-0.99.8-3.fc6.i386.rpm:
gpg: WARNING: standard input reopened
gpg: WARNING: standard input reopened
libgpod-0.4.2-0.1.fc6.i386.rpm:
gpg: WARNING: standard input reopened
gpg: WARNING: standard input reopened
libid3tag-0.15.1b-3.fc6.i386.rpm:
gpg: WARNING: standard input reopened
gpg: WARNING: standard input reopened
libmp4v2-1.5.0.1-3.fc6.i386.rpm:
gpg: WARNING: standard input reopened
gpg: WARNING: standard input reopened
[rpmadmin@host219 i386]$
```



```
rpmadmin@host219:~/redhat/RPMS/i386
File Edit View Terminal Help
[rpmadmin@host219 i386]$ rpm --checksig -v *
gtkpod-0.99.8-3.fc6.i386.rpm:
  Header V3 DSA signature: OK, key ID a062da26
  Header SHA1 digest: OK (713e02503cfe59a49400115930fe910117483461)
  MD5 digest: OK (4f1b916dc2828beeaebcdc3ea00fba03)
  V3 DSA signature: OK, key ID a062da26
libgpod-0.4.2-0.1.fc6.i386.rpm:
  Header V3 DSA signature: OK, key ID a062da26
  Header SHA1 digest: OK (e1f9a6ea14b73dc40dc86edc7b924fc7d372a28d)
  MD5 digest: OK (10ef07c6d76f4b9712c867089b32ab56)
  V3 DSA signature: OK, key ID a062da26
libid3tag-0.15.1b-3.fc6.i386.rpm:
  Header V3 DSA signature: OK, key ID a062da26
  Header SHA1 digest: OK (ca166493f41de90a815703625d908c83a810d2bb)
  MD5 digest: OK (a2726ed85cceld703ce82b120d90d23d)
  V3 DSA signature: OK, key ID a062da26
libmp4v2-1.5.0.1-3.fc6.i386.rpm:
  Header V3 DSA signature: OK, key ID a062da26
  Header SHA1 digest: OK (b9116aea2b27b86fd6e2fd0e47f74ae24898cc01)
  MD5 digest: OK (d089dbc8e5003f135c58b3169b206e89)
  V3 DSA signature: OK, key ID a062da26
[rpmadmin@host219 i386]$
```

Transfer RPMs to Satellite Server and upload

scp the packages to the Satellite server and upload them

In this example, there is an rpmadmin account on the Satellite server as well, so it is a simple matter to scp them over to /home/rpmadmin/incoming.

Upload the packages to the channel using:

```
rhnpush -d [directory] -c [channel] \  
-u [satellite user] --server [server]
```

Red Hat Network - Channels - Manage Software Channels - Mozilla Firefox

File Edit View History Bookmarks Tools Help

redhat.com https://satellite.tc.redhat.com/network/software/channels/manage/index.pxt

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RED HAT NETWORK SATELLITE

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Your RHN Systems Errata **Channels** Configuration Schedule Users Monitoring Satellite Tools Help

NO SYSTEMS SELECTED MANAGE CLEAR

Software Channels
Package Search
Manage Software Channels
Manage Software Packages

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.

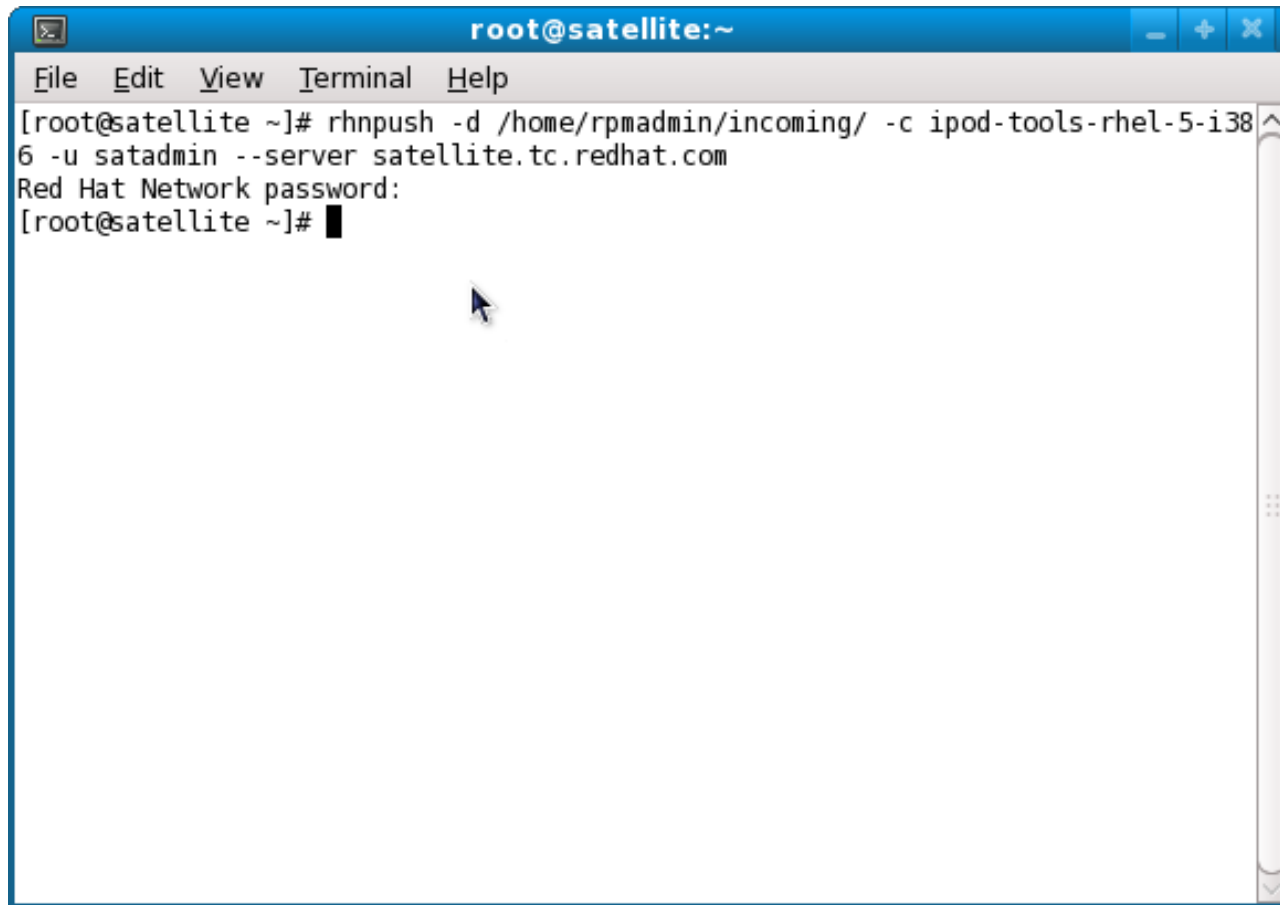
[clone channel](#) | [create new channel](#)

1 - 28 of 28

Channel Name	Actions	Packages
Red Hat Enterprise Linux (v. 5 for 32-bit x86)		5519
iPod Tools for RHEL 5 Server i386		0
DEV Red Hat Enterprise Linux (v. 5 for 32-bit x86)		5514
DEV Red Hat Network Tools for RHEL Server (v.5 32-bit x86)		417
DEV RHEL Cluster-Storage (v. 5 for 32-bit x86)		176
DEV RHEL Clustering (v. 5 for 32-bit x86)		118
DEV RHEL Optional Productivity Apps (v. 5 for 32-bit x86)		1011
DEV RHEL Supplementary (v. 5 for 32-bit x86)		411
DEV RHEL Virtualization (v. 5 for 32-bit x86)		152

Find: libgpod Previous Next Highlight all Match case

Done



A terminal window titled "root@satellite:~" with a menu bar containing "File", "Edit", "View", "Terminal", and "Help". The terminal shows the following text:

```
[root@satellite ~]# rhnpush -d /home/rpadmin/incoming/ -c ipod-tools-rhel-5-i386 -u satadmin --server satellite.tc.redhat.com
Red Hat Network password:
[root@satellite ~]#
```

A mouse cursor is visible in the terminal area.

Red Hat Network - Channels - Manage Software Channels - Mozilla Firefox

File Edit View History Bookmarks Tools Help

redhat.com https://satellite.tc.redhat.com/network/software/channels/manage/index.pxt

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Your RHN Systems Errata **Channels** Configuration Schedule Users Monitoring Satellite Tools Help

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Package Search
Manage Software Channels
Manage Software Packages

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.

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

1 - 28 of 28

Channel Name	Actions	Packages
Red Hat Enterprise Linux (v. 5 for 32-bit x86)		5519
iPod Tools for RHEL 5 Server i386		4
DEV Red Hat Enterprise Linux (v. 5 for 32-bit x86)		5514
DEV Red Hat Network Tools for RHEL Server (v.5 32-bit x86)		417
DEV RHEL Cluster-Storage (v. 5 for 32-bit x86)		176
DEV RHEL Clustering (v. 5 for 32-bit x86)		118
DEV RHEL Optional Productivity Apps (v. 5 for 32-bit x86)		1011
DEV RHEL Supplementary (v. 5 for 32-bit x86)		411
DEV RHEL Virtualization (v. 5 for 32-bit x86)		152

Find: libgpod Previous Next Highlight all Match case

Done

Import the GPG Key into the Satellite Server

Systems Tab

Kickstart in left nav

GPG and SSL Keys in left nav

Create new stored key/cert

Red Hat Network - Systems - Kickstart - GPG and SSL Keys - Mozilla Firefox

File Edit View History Bookmarks Tools Help

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

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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 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 - 1 of 1

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

1 - 1 of 1

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Find: libgpod Previous Next Highlight all Match case

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

Red Hat Network - Systems - Kickstart - GPG and SSL Keys - Mozilla Firefox

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

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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*	Summit GPG Key
Type	GPG
Select file to upload: *	/on/Desktop/summit.pubkey Browse...
Key contents:	Neither a GPG or SSL Certificate is currently attached to this cryptokey. Please attach a GPG key or SSL Certificate to this crypto key using the form above.

Create Key

Find: libgpod Previous Next Highlight all Match case

Done

Red Hat Network - Systems - Kickstart - GPG and SSL Keys - Mozilla Firefox

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Bare Metal
GPG and SSL Keys
Distributions
File Preservation

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 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 - 2 of 2

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

1 - 2 of 2

Find: Previous Next Highlight all Match case

Done

Put the public key in `/var/www/html/pub`

Or anywhere else that everyone on the network can get to it.

Since we've added it to the Satellite Server it is available for all machines installed in the future. For existing machines it is simply a matter of having them run a command like:

```
rpm --import \
```

```
https://satellite.tc.redhat.com/pub/summit.pubkey
```

Index of /pub - Mozilla Firefox

File Edit View History Bookmarks Tools Help

redhat.com https://satellite.tc.redhat.com/pub/

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Index of /pub

Index of /pub

Name	Last modified	Size	Description
Parent Directory		-	
RHN-ORG-TRUSTED-SSL-CERT	21-Apr-2009 14:20	5.2K	
bootstrap/	04-Jun-2009 12:21	-	
cameron/	27-Jun-2009 17:34	-	
rhn-org-trusted-ssl-cert-1.0-1.noarch.rpm	21-Apr-2009 14:20	4.7K	
rhn-solaris-bootstrap-5.2.0-2-i386-sol9.tar.gz	11-Aug-2008 06:28	9.9M	
rhn-solaris-bootstrap-5.2.0-2-i386-sol10.tar.gz	11-Aug-2008 06:28	9.9M	
rhn-solaris-bootstrap-5.2.0-2-sparc-sol8.tar.gz	11-Aug-2008 06:29	14M	
rhn-solaris-bootstrap-5.2.0-2-sparc-sol9.tar.gz	11-Aug-2008 06:29	14M	
rhn-solaris-bootstrap-5.2.0-2-sparc-sol10.tar.gz	11-Aug-2008 06:29	14M	
summit.pubkey	30-Aug-2009 23:13	1.6K	

Apache/2.2.3 (Red Hat) Server at satellite.tc.redhat.com Port 443

Find: Previous Next Highlight all Match case

Done

Madness break!

Now that we've created a custom channel, we'll let it clean in the autoclave for a while...



Set up an activation key

Go to the Systems tab

Click on Activation Keys in left nav bar

Click on “create new key”

Description

Key (note the 1-[key] format)

Usage

Base Channels

Add-on Entitlements (note virt vs virt-platform!)

Universal Default

Click “Create Activation Key”

Red Hat Network - Systems - Activation Keys - Mozilla Firefox

File Edit View History Bookmarks Tools Help

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

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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
No activation keys available		

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

Find: config Previous Next Highlight all Match case

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

Red Hat Network - Systems - Activation Keys - Mozilla Firefox

File Edit View History Bookmarks Tools Help

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

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Red Hat Network - Systems - Acti...

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Create Activation Key

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

Description	Summit 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:	1- summit-key Tip: Leave blank for automatic key generation. Note that the prefix is an indication of the Satellite organization the key is associated with.
Usage:	 Tip: Leave blank for unlimited use.
Base Channels:	Red Hat Default Tip: Choose "Red Hat Default" to allow systems to register to the default Red Hat provided channel that corresponds to their installed version of Red Hat Enterprise Linux. You may also choose particular Red Hat provided channels or custom base channels here, but please note if a system using this key is not compatible with the selected channel, it will fall back to its Red Hat default channel.
Add-On Entitlements:	☒ Monitoring ☒ Provisioning ☒ Virtualization ☐ Virtualization Platform
Universal Default:	☐ Tip: Only one universal default activation key may be set for this organization. By setting this key as universal default, you will remove universal default status from the current universal default key if it exists. If this key is set as universal default, then newly-registered systems to your organization will inherit the properties of this key.

Create Activation Key

Find: Previous Next Highlight all Match case

Done

Note about Base Channel

“Default” just means use the channel which is the default for the distro installed on disk.

If you want to use one of the cloned channels we created earlier, change it here.

In this example, I've created a channel locked at RHEL 5.2 and when the system registers to the Satellite server using the “RHEL 5.2 Key” it will subscribe to that locked channel.

Red Hat Network - Systems - Activation Keys - Details - Mozilla Firefox

File Edit View History Bookmarks Tools Help

redhat.com https://satellite.tc.redhat.com/rhn/activationkeys/Edit.do?tid=165

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Red Hat Network - Systems - Activation Keys

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 **RHEL 5.2 Key**   delete key

Details Child Channels Packages Configuration Groups Activated Systems

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

Description	RHEL 5.2 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:	1- rhel-5.2-i386-server-key Tip: Leave blank for automatic key generation. Note that the prefix is an indication of the Satellite organization the key is associated with.
Usage:	 Tip: Leave blank for unlimited use.
Base Channels:	rhel-5.2-i386-server Tip: Choose "Red Hat Default" to allow systems to register to the default Red Hat provided channel that corresponds to their installed version of Red Hat Enterprise Linux. You may also choose particular Red Hat provided channels or custom base channels here, but please note if a system using this key is not compatible with the selected channel, it will fall back to its Red Hat default channel.
Add-On Entitlements:	☒ Monitoring ☒ Provisioning ☐ Virtualization ☐ Virtualization Platform
Universal Default:	☐ Tip: Only one universal default activation key may be set for this organization. By setting this key as universal default, you will remove universal default status from the current universal default key if it exists. If this key is set as universal default, then newly-registered systems to your organization will inherit the properties of this key.

Done

Red Hat Network - Systems - Activation Keys - Mozilla Firefox

File Edit View History Bookmarks Tools Help

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

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Red Hat Network - Systems - Acti...

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Kickstart

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

 **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.

Filter by Description: **1 - 1 of 1 (1 selected)**

Enabled?	Description	Key	Usage
☒	Summit Activation Key	1-summit-key	(unlimited)

1 - 1 of 1 (1 selected)

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

Find: config ☐ Match case

Done

Customize the activation key

Click on the key name (it's a hyperlink)

Go through Details, Child Channels, Packages, Configuration, Groups and Activated Systems sub-tabs

Red Hat Network - Systems - Activation Keys - Details - Mozilla Firefox

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 **Summit Activation Key** 

 delete key

Details Child Channels Packages Configuration Groups Activated Systems

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

Description	Summit 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:	1- summit-key Tip: Leave blank for automatic key generation. Note that the prefix is an indication of the Satellite organization the key is associated with.
Usage:	 Tip: Leave blank for unlimited use.
Base Channels:	Red Hat Default Tip: Choose "Red Hat Default" to allow systems to register to the default Red Hat provided channel that corresponds to their installed version of Red Hat Enterprise Linux. You may also choose particular Red Hat provided channels or custom base channels here, but please note if a system using this key is not compatible with the selected channel, it will fall back to its Red Hat default channel.
Add-On Entitlements:	☒ Monitoring ☒ Provisioning ☒ Virtualization ☐ Virtualization Platform
Universal Default:	☐ Tip: Only one universal default activation key may be set for this organization. By setting this key as universal default, you will remove universal default status from the current universal default key if it exists. If this key is set as universal default, then newly-registered systems to your organization will inherit the properties of this key.

Find: config Previous Next Highlight all Match case

Done

Red Hat Network - Systems - Activation Keys - Child Channels - Mozilla Firefox

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Summit Activation 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 Network Tools for RHEL Server (v. 5 32-bit x86)
- RHEL Cluster-Storage (v. 5 for 32-bit x86)
- RHEL Clustering (v. 5 for 32-bit x86)
- RHEL FasTrack (v. 5 for 32-bit x86)
- RHEL Hardware Certification (v. 5 for 32-bit x86)
- RHEL Optional Productivity Apps (v. 5 for 32-bit x86)

Update Key

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Red Hat Network release 5.2.0

Find: config Previous Next Highlight all Match case

Done

Customize the activation key

Make sure you add the channel for your custom content!

Madness from the method!

Note that by default there are no packages listed in the packages sub-tab. We'll come back to that in a second.



This image is listed as free clip art at from <http://www.cksinfo.com/cartoons/miscellaneous/people/page2.html>

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 **Summit Activation Key** 

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

Any system registered with this activation key will have the following packages installed, if those packages are available. List packages by name only, one per line.

Enter package names below

Update Key

Find: config Previous Next Highlight all Match case

Done

Red Hat Network - Systems - Activation Keys - Configuration - Mozilla Firefox

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NO SYSTEMS SELECTED MANAGE CLEAR

 **Summit Activation Key**   delete key

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

Configuration Channels

Any systems registered with this activation key will be associated with the following list of configuration channels.

Rank 1 will override rank 2, and ranks must be distinct.

If you enter two ranks of 3, one will be assigned rank 3 and one will be assigned rank 4.

If no rank is given to a config channel, it will not be associated with this key.

Rank	Name
No ranked config channels	
1	Red Hat Config Channel 1

Deploy Configuration 

☒ Schedule a deploy action for all of the configuration files in the channels listed above upon system registration.

This action will fail unless configuration management is enabled on the system.

Update

Find: config Previous Next Highlight all Match case

Done

Madness! Go back to the “Packages” sub-tab

Since we associated the activation key with a config file channel and scheduled a deploy action, this key will auto-install the required packages for that to happen

rhncfg

rhncfg-actions

rhncfg-client

I also recommend adding the osad package to allow remote commands to work nearly instantly



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<http://www.cksinfo.com/cartoons/miscellaneous/>

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 **Summit Activation Key** 

delete key

Details Child Channels Packages Configuration Groups Activated Systems

Any system registered with this activation key will have the following packages installed, if those packages are available. List packages by name only, one per line.

Enter package names below

rhncfg
rhncfg-actions
rhncfg-client

Update Key

Find: config Previous Next Highlight all Match case

Done

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Activation Key Summit Activation Key has been modified.

Summit Activation Key delete key

Details Child Channels Packages Configuration Groups Activated Systems

Any system registered with this activation key will have the following packages installed, if those packages are available. List packages by name only, one per line.

Enter package names below

osad
rhncfg
rhncfg-actions
rhncfg-client

Update Key

Find: config Previous Next Highlight all Match case

Done

Red Hat Network - Systems - Activation Keys - Groups - Mozilla Firefox

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 **Summit Activation Key**  delete key

Details Child Channels Packages Configuration Groups Activated Systems

Any system registering with this activation key will be added to the selected groups.

summit-group

Update Key

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Find: config Previous Next Highlight all Match case

Done

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 **Summit Activation Key** 

delete key

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

Systems Registered Using This Key

No systems exist which have been registered using this key.

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Find: config Previous Next Highlight all Match case

Done

Note about Base Channel

In the next slide I've created activation keys for each of the cloned channels we discussed earlier

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Red Hat Network - Systems - Activation Keys

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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.

Filter by Description: [Go](#) **1 - 5 of 5 (5 selected)**

Enabled?	Description	Key	Usage
☒	DEV key	1-dev-key	(unlimited)
☒	PROD Key	1-prod-key	(unlimited)
☒	QA Key	1-qa-key	(unlimited)
☒	RHEL 5.2 Key	1-rhel-5.2-i386-server-key	(unlimited)
☒	Summit Activation Key	1-summit-key	(unlimited)

[Update List](#) [Select All](#) [Unselect All](#) **1 - 5 of 5 (5 selected)**

Done

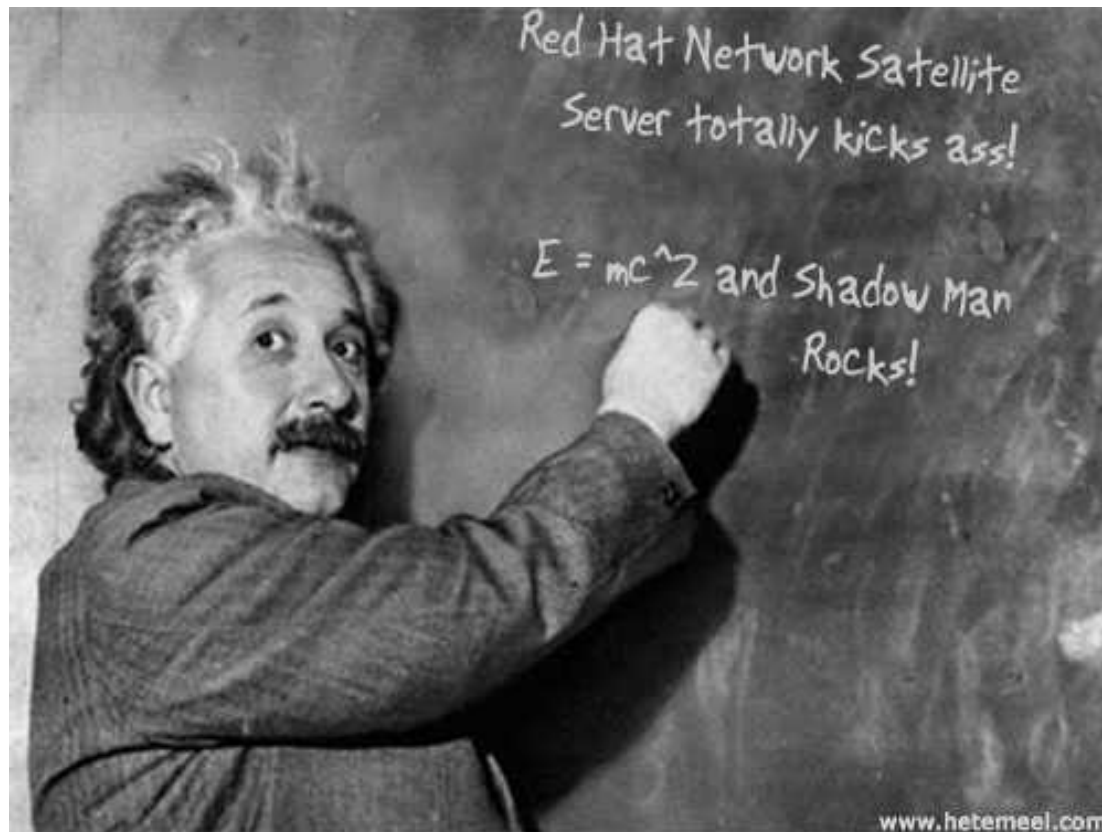
Madness break!

Now that the activation key is set up, we'll leave it in the centrifuge for a bit...



Sanity! Tying it all together

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



Kickstart

System Tab

Kickstart in left nav

Create a new kickstart

- Kickstart Profile Label

- Base Channel

- Kickstartable Tree

- Virtualization Type

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 **Kickstart Overview**

[+ create new kickstart profile](#)

Kickstart Summary

No kickstart profiles available

Kickstart Actions

[View a List of Kickstart Profiles](#)

[Create a New Kickstart Profile](#)

Systems Currently Kickstarting

Kickstarting Systems	Boot Image	Status	Last Change
There are no systems currently kickstarting			

Systems Scheduled to be Kickstarted

Find: gpg-key-1 Previous Next Highlight all Match case

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

Kickstart

In this example I will be kickstarting a paravirtualized virtual machine to RHEL 5.1 Server, i386

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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.

Kickstart Profile Label*:

Base Channel*:

Kickstartable Tree*:

Virtualization Type:

Next

Find: **Previous** **Next** **Highlight all** ☐ Match case

Done

Kickstart

Next you get the kickstart URL. You can jot this down or get it later under Bare Metal Kickstart.

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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: ☒ http://satellite.tc.redhat.com/rhn/kickstart/ks-rhel-i386-server-5-u1

Custom Download Location: ☐

Previous Next

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Find: gpg-key-1 Previous Next Highlight all Match case

Done

Kickstart

Set the password for the root user of any machine built using this kickstart definition.

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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

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Find: gpg-key-1 Previous Next Highlight all Match case

Done

Kickstart Details/Details

Now you're presented with the details page for the kickstart.

Uncheck “Active” to disable if desired

I typically check the box for “Log custom post scripts”

Red Hat Network - Systems - Kickstart - Profiles - Kickstart Details - Details - Mozilla Firefox

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Red Hat Network - Systems - Kickstart

Kickstart: summit-kickstart clone kickstart delete kickstart

Kickstart Details System Details Software Activation Keys Scripts Kickstart File

Details Operating System 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*: summit-kickstart
Tip: The label field should not be easily guessable, since it could be used to expose information about this kickstart profile to a 3rd party.

Operating System: Red Hat Enterprise Linux (v. 5 for 32-bit x86) (Change)

Virtualization Type: Para-Virtualized Guest
NOTE: Changing the Virtualization Type may require changes to the kickstart profile's bootloader and partition options, potentially overwriting user customizations. Please visit the [Partitioning](#) tab to verify the new settings.

Active: ☒ You cannot kickstart a system registered to Satellite using an inactive kickstart profile. However, the kickstart files for inactive kickstart profiles are still available for manual download and may be used for bare metal kickstarts.

Log custom post scripts: ☐ If selected, all output of custom post scripts will be logged to /root/ks-post.log.

Organization Default Profile: ☐ The Organization Default Profile setting can be used with manually-created or bare-metal kickstart files. Select this option to indicate which profile in your Organization is used when the URL from [this link](#) is specified in the ks= section of your kickstart file. The link will not work unless an Organization Default is specified.

Comments:

Find: gpg-key-1 Previous Next Highlight all Match case

Done

Kickstart Details/Operating System

Base Channel

Child Channels

Available Trees

Red Hat Network - Systems - Kickstart - Profiles - Kickstart Details - Operating System - Mozilla Firefox

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Red Hat Network - Systems - Kic...

Kickstart: summit-kickstart [clone kickstart](#) [delete kickstart](#)

Kickstart Details System Details Software Activation Keys Scripts Kickstart File

Details Operating System Advanced Options Bare Metal Kickstart

Modify Operating System

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

Base Channel*: Red Hat Enterprise Linux (v. 5 for 32-bit x86)
 Tip: Changing the base channel will require you to reselect any child cannels that may be associated with this profile.

Child Channels*:

- ☐ jbappplatform-4-i386-server-5-rpm
- ☐ jbappplatform-4.3.0-i386-server-5-rpm
- ☐ redhat-rhn-proxy-5.2-server-i386-5
- ☐ rhel-i386-server-5-appstk-2
- ☐ rhel-i386-server-5-mrg-grid-1
- ☐ rhel-i386-server-5-mrg-management-1
- ☐ rhel-i386-server-5-mrg-messaging-1
- ☐ rhel-i386-server-5-mrg-messaging-base-1
- ☐ rhel-i386-server-5-mrg-realtime-1
- ☐ rhel-i386-server-5-rhcmsys-7.3
- ☐ rhel-i386-server-5-rhdirserv-8
- ☐ rhel-i386-server-5-rheipa-1
- ☐ rhel-i386-server-5-rheipa-1-beta
- ☒ rhel-i386-server-cluster-5
- ☒ rhel-i386-server-cluster-storage-5
- ☐ rhel-i386-server-fastrack-5
- ☐ rhel-i386-server-lt-5

Find: gpg-key-1 Previous Next Highlight all Match case

Done

Red Hat Network - Systems - Kickstart - Profiles - Kickstart Details - Operating System - Mozilla Firefox

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- ☐ rhel-i386-server-5-mrg-management-1
- ☐ rhel-i386-server-5-mrg-messaging-1
- ☐ rhel-i386-server-5-mrg-messaging-base-1
- ☐ rhel-i386-server-5-mrg-realtime-1
- ☐ rhel-i386-server-5-rhcmsys-7.3
- ☐ rhel-i386-server-5-rhdirserv-8
- ☐ rhel-i386-server-5-rheipa-1
- ☐ rhel-i386-server-5-rheipa-1-beta
- ☒ rhel-i386-server-cluster-5
- ☒ rhel-i386-server-cluster-storage-5
- ☐ rhel-i386-server-fastrack-5
- ☐ rhel-i386-server-hts-5
- ☒ rhel-i386-server-productivity-5
- ☒ rhel-i386-server-supplementary-5
- ☒ rhel-i386-server-vt-5
- ☒ rhn-tools-rhel-i386-server-5
- ☐ rhx-alfresco-enterprise-2.0-rhel-i386-server-5
- ☐ rhx-amanda-enterprise-backup-2.6-rhel-i386-server-5
- ☐ rhx-centriccrm-4.1-rhel-i386-server-5
- ☐ rhx-compiere-enterprise-2.6-rhel-i386-server-5
- ☐ rhx-enterprisedb-adv-svr-8.1-rhel-i386-server-5
- ☐ rhx-groundwork-monitor-for-rhx-5.0-rhel-i386-server-5
- ☐ rhx-jasperserverpro-rhx-edition-1.2-rhel-i386-server-5
- ☐ rhx-mysql-enterprise-5.0-rhel-i386-server-5
- ☐ rhx-openfire-enterprise-3.3-rhel-i386-server-5
- ☐ rhx-pentaho-report-pack-rhx-1.2-rhel-i386-server-5
- ☐ rhx-sugar-open-source-4.5-rhel-i386-server-5
- ☐ rhx-supplementary-rhel-i386-server-5
- ☐ rhx-zenoss-enterprise-1.2-rhel-i386-server-5
- ☐ rhx-zimbra-network-professional-4.5-rhel-i386-server-5
- ☐ ipod-tools-rhel-5-i386

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*:

File Location: No files found for selected kickstart tree

Done

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Kickstart Details/Operating System

Note that you do not need to add in the custom channel for the installation – it will only be available after the system is registered with the activation key

Kickstart Details/Advanced Options

Anything you can do in `ks.cfg` is an option here

Use caution - you have a gun and a foot here!

Red Hat Network - Systems - Kickstart - Profiles - Kickstart Details - Advanced Options - Mozilla Firefox

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Kickstart: summit-kickstart clone kickstart delete kickstart

Kickstart Details System Details Software Activation Keys Scripts Kickstart File

Details Operating System Advanced Options Bare Metal Kickstart

Advanced Options

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

autostep: ☐

interactive: ☐

install: ☒

upgrade: ☐

text: ☒

network: ☒

Find: gpg-key-1 Previous Next Highlight all Match case

Done

Kickstart Details/Bare Metal Kickstart

This is where you can go back and find the URL to your kickstart “file.” Remember that there is not actually a physical file - it is just a web representation of entries in the database.

You can also associate kickstarts with a range of IP addresses in this interface

Red Hat Network - Systems - Kickstart - Profiles - Kickstart Details - Bare Metal Kickstart - Mozilla Firefox

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redhat.com https://satellite.tc.redhat.com/rhn/kickstart/KickstartIpRangeEdit.do?ksid=121

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Red Hat Network - Systems - Kickstart

Kickstart: summit-kickstart clone kickstart delete kickstart

Kickstart Details System Details Software Activation Keys Scripts Kickstart File

Details Operating System Advanced Options Bare Metal Kickstart

Bare Metal Kickstart

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

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

<http://satellite.tc.redhat.com/kickstart/ks/org/1x1288a065bb614f6f92ababd3acf03e2b/label/summit-kickstart>

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://satellite.tc.redhat.com/kickstart/ks/org/1x1288a065bb614f6f92ababd3acf03e2b/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:

IP Address Range: 0 . 0 . 0 . 0 - 0 . 0 . 0 . 0

Add IP Range

Find: gpg-key-1 Previous Next Highlight all Match case

Done

System Details/Details

“Kickstart Network Connection” is only used for auto-kickstart

SELinux (Please see my “SELinux for Mere Mortals” presentation and set it to Enforcing)

Enable RHN Configuration Management

Enable RHN Remote Commands

Root password

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Red Hat Network - Systems - Kickstart

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Distributions
File Preservation

Kickstart: summit-kickstart

clone kickstart delete kickstart

Kickstart Details System Details Software Activation Keys Scripts Kickstart File

Details Locale Partitioning File Preservation GPG & SSL Troubleshooting

Hardware Considerations

Kickstart Network Connection:

☒ Use DHCP from interface

☐ Use static IP from interface

Software Preferences

SELinux:

☒ Enforcing - SELinux policy enforced

☐ Permissive - SELinux prints warnings instead of enforcing

☐ Disabled - SELinux is fully disabled

RHN Preferences

Enable RHN Configuration Management: ☒

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

Enable RHN Remote Commands: ☒

Tip: Enabling this will allow you to execute commands remotely from RHN 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.

Root Password

New Root

Find: Previous Next Highlight all Match case

Done

System Details/Locale

Time zone and whether clock uses UTC

Red Hat Network - Systems - Kickstart - Profiles - System Details - Locale - Mozilla Firefox

File Edit View History Bookmarks Tools Help

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

Kickstart: summit-kickstart clone kickstart delete kickstart

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Details Locale Partitioning File Preservation GPG & SSL Troubleshooting

Locale

You can modify the following options to specify Locale options:

Timezone: America/Chicago Hardware Clock uses UTC: ☐

Update Locale Preferences

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Find: gpg-key-1 Previous Next Highlight all Match case

Done

System Details/Partitioning

You can do LVM, RAID, etc. here.

I strongly recommend you cheat - set up one system by hand and then grab the partitioning info which was written in `/root/anaconda-ks.cfg`

Red Hat Network - Systems - Kickstart - Profiles - System Details - Partitioning - Mozilla Firefox

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Edit Hard Drive Partitions

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

Partition Details:

```
partition pv.00 --size=0 --grow --ondisk=xvda
volgroup VolGroup00 --pesize=32768 pv.00
logvol / --fstype ext3 --name=LogVol00 --vgname=VolGroup00 --size=1024 --grow
logvol swap --fstype swap --name=LogVol01 --vgname=VolGroup00 --size=272 --grow
--maxsize=544
```

Update Partitions

Find: gpg-key-1 Previous Next Highlight all Match case

Done

System Details/GPG & SSL

Here is where you can add in the GPG key you defined earlier

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File Edit View History Bookmarks Tools Help

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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.

	Description	Type
☒	RHN-ORG-TRUSTED-SSL-CERT	SSL
☒	Summit GPG Key	GPG

1 - 2 of 2 (2 selected)

Update List Select All Unselect All

1 - 2 of 2 (2 selected)

Update keys

Find: gpg-key-1 Previous Next Highlight all Match case

Done

Software/Package Groups

Add individual files by name

Add package groups with @ [group]

Get groups via “yum grouplist” or look at the comps*.xml files in each repository on the installation media

/Server, /Cluster, ClusterStorage and /VT

Skip files by using “-name”

Note that if you “-name” a package which is a prerequisite for another package, the prerequisite file **will** get installed.

Software/Package Groups

Note that we can't add the iPod packages at kickstart time, we have to do it in %post once the system is registered using the activation key.

Red Hat Network - Systems - Kickstart - Profiles - Software - Package Groups - Mozilla Firefox

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https://satellite.tc.redhat.com/rhn/kickstart/KickstartPackagesEdit.do?ksid=121

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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 software channels, please associate an appropriate activation key with this kickstart profile in the *Activation Keys* tab.

@ Office/Productivity
 @ X Window System
 @ Base
 @ GNOME Desktop Environment
 @ Graphical Internet
 @ Sound and Video
 -kernel
 @ Text-based Internet

Update Packages

Done

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Software/Package Profiles

You can capture a profile of a “golden image” system and then use it as a template.

We'll come back to this in the section on package profiles.

Activation Keys

Here you can associate the keys you defined earlier with your kickstart.

You can associate multiple keys to “stack” or mix-n-match capabilities.



Scripts

You can add %pre, %post and %post --nochroot scripts here.

You can choose your interpreter - bash, perl, python, etc.

%pre scripts are run before partitioning or installation.
Great place to write logic for partitioning.

%post --nochroot scripts are run while the target disk is still mounted under /mnt/sysimage

%post scripts are run after the installer chroot's /mnt/sysimage to /

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Kickstart: summit-kickstart clone kickstart delete kickstart

Kickstart Details System Details Software Activation Keys Scripts Kickstart File

Kickstart Script Details delete kickstart script

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

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

Kickstart Script Scripting Language

Scripting Language

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

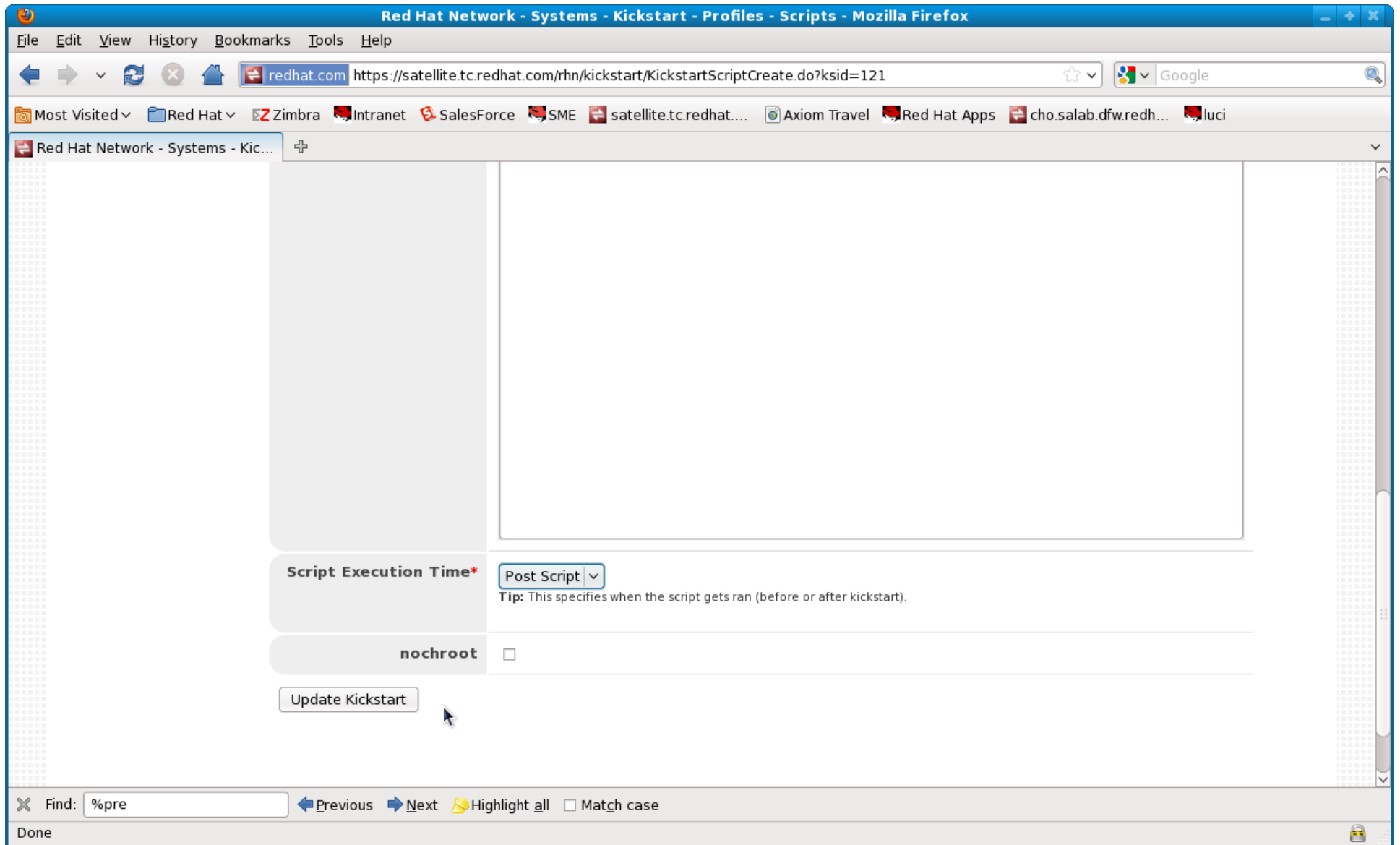
Kickstart Script

Script Contents*

```
/sbin/chkconfig microcode_ctl off
useradd tcameron
echo badpass | passwd --stdin tcameron
chage -E 1 tcameron
yum -y install gtkpod
```

Done

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Kickstart File

This is **not** the URL for kickstart, this is merely a way for you to check out what the final product looks like. The URL to the kickstart “file” can be gotten under Kickstart Details/Bare Metal Kickstart

```
# Kickstart config file generated by RHN Config Management
#
# Profile Name : summit-kickstart
# Profile Label : summit-kickstart
# Date Created : 2009-08-31 00:52:31.0
#
install
text
network --bootproto dhcp
url --url http://satellite.tc.redhat.com/ty/nFQjZug3
lang en_US
langsupport --default en_US en_US
keyboard us
mouse none
zerombr yes
clearpart --all
part /boot --fstype ext3 --size=100 --ondisk=xvda
part pv.00 --size=0 --grow --ondisk=xvda
volgroup VolGroup00 --pesize=32768 pv.00
logvol / --fstype ext3 --name=LogVol00 --vgname=VolGroup00 --size=1024 --grow
logvol swap --fstype swap --name=LogVol01 --vgname=VolGroup00 --size=272 --grow --maxsize=544
bootloader --location mbr --driveorder=xvda --append=
timezone America/Chicago
auth --enablemd5 --enableshadow
rootpw --iscrypted $1$eKjoBEKV$JZOm/3tgAQp/weF9MWU9I1
selinux --enforcing
reboot
firewall --disabled
skipx
repo --name=Cluster --baseurl=http://satellite.tc.redhat.com/kickstart/dist/ks-rhel-i386-server-5-u1/Cluster
repo --name=ClusterStorage --baseurl=http://satellite.tc.redhat.com/kickstart/dist/ks-rhel-i386-server-5-u1/ClusterStorage
repo --name=VT --baseurl=http://satellite.tc.redhat.com/kickstart/dist/ks-rhel-i386-server-5-u1/VT
repo --name=Workstation --baseurl=http://satellite.tc.redhat.com/kickstart/dist/ks-rhel-i386-server-5-u1/Workstation
key --skip
%packages --resolvedeps
@ Office/Productivity
@ X Window System
gtkpod
@ Base
@ GNOME Desktop Environment
@ Graphical Internet
@ Sound and Video
-kernel
@ Text-based Internet
```



```
%post --nochroot
mkdir /mnt/sysimage/tmp/ks-tree-copy
if [ -d /oldtmp/ks-tree-shadow ]; then
cp -fa /oldtmp/ks-tree-shadow/* /mnt/sysimage/tmp/ks-tree-copy
elif [ -d /tmp/ks-tree-shadow ]; then
cp -fa /tmp/ks-tree-shadow/* /mnt/sysimage/tmp/ks-tree-copy
fi
cp /etc/resolv.conf /mnt/sysimage/etc/resolv.conf
%post
( # Log %post errors
# --Begin RHN command section--
cat > /tmp/gpg-key-1 <<'EOF'
-----BEGIN PGP PUBLIC KEY BLOCK-----
Version: GnuPG v1.4.5 (GNU/Linux)
mQGIBEqbm4ARBACLEMqDDHuSeTBKjefLEHM/ezMp7r6HqgRhoVSCX0wfHHuxp3xp
uA67i7MAFFdoxI71wRvN0sKQuARayTCnTl2yvPX1A1LCmAAMDgjhT4ibj8k5xj3t
NHQoch2btp6hKwnkwZMNmG2fi0KfRmgZUS+b6V9H0EPQELGgdEw4PwDCbwCgtipz
fOIL1+UR72L9qPvVj42V+L0D/3/LtTQz1cakoXLSbaKRtlQs8w9Zm/UKgKyjUHXv
KLvmShZ5p1fcKrpGnckK2WNwR3YiW70UG4G71TLcT6cM0rNhQWjPtz2rtiZefvsA
nFqGe7Sp4S0MnFh0VKYpyFCSWUISxtZwo2hvjzzwRJFp10ZWWhFgvrVQujGGxf8qN
PhfUBACDuXEk7CJ5kNSg0q1L1+QEMsYrw5VG1HG2n1VfdiS6EhBRbqRd9vz4NNYw
NiE3/0fssi/jAryaxd0cqZpTe7eqeTxvHBrfNYS7g0x2rYE/pgTBaegzBteVuC0r
E4lYlcm74m+35uIncvFyvQQul5BAaqnImA2wCAjWQ/VMY7oXUbQiUlBNIEFkbWlu
IDxsaw51eC10ZWftQGV4YW1wbGUuY29tPohgBBMRagAgBQJKmz0AAhsDBgsJCAcD
AgQVAggDBBYCAwECHgECF4AACgkQt8cCyKBi2iZLlQCgikCoEXTHHMewyKr2cTIG
7BysuuEAmwWirmQcRW2vAw2qT1URM2IG4ACpuQINBEqbM74QCAD0cRPWe8mtv6AM
lk2E3iR0jZiQcnQcZyFCRC6sC9bYtQj0/Pwls4qo30KNLf9IqQkcGDnn3dH6JoJx
WmJtAD6I1lN+m1Jxs74zu9HNqb4S528I6aMs/TiBC0vYyMsS3d0YtBqR+1Y2UpLI
+AUK0rPqC06jxVESQf/LIOvkdzKJvZoYsX015IzWdltD0u0aL8Lbd7FDTH52Ig6H
5MYF6zXjPjrbzm91GjQKKVAoD14w7UGJEvFG4dKDGCljRivWm2iB68La2I/rAhIJ
B1yxzI8mbERXW5wHe1Dv20n6JPP6sw1lJKCZtph7c6k3DREWMIIXAC/KuDa3cjp1
MQPih1l3AAURB/od5V9CeibG0pPC7C2WWCpgdD00e4BCtj0i2RDYuiRP5VxrCXnR
6XU9rztg+vaz0+znliqPRQ9nmoLqBXc0j2lnLQIKYemXH0DyyT4TpdSxfG2ho0ZC
n3d1k88e4GCw+YdGw1UEDF236o+mKwBbtFAJYoVzy3sfh9otd4SI/pV/o9Fke0o1
aiC7/1fUw2dvPCrtgUcdLdLNVpkN5Uyb0NPU7GLsPZUCieob/9AMoVin2rW4etYY
VbPBmwDqrkn431YQvE7RbXiQlRXwLbRDM2//iGPu0aACLJrNRff+1qTqItj/MprD
Wl0DXeo0q7bcFRj0HuqEZCPg0tdzSq7wk7XliEkEGBECAAKFAkqbM74CGwwACgkQ
t8cCyKBi2iYL7QCdHU6vvyMT88rrehqX3Er134WLWjoAoKyaF6k6InZ8tkdDdwz0
beOX2oub
=JAE+
-----END PGP PUBLIC KEY BLOCK-----
EOF
# gpg-key1
rpm --import /tmp/gpg-key-1
```



```
cat > /tmp/ssl-key-1 <<'EOF'
Certificate:
  Data:
    Version: 3 (0x2)
    Serial Number:
      88:bd:85:f0:7d:90:d6:40
    Signature Algorithm: sha1WithRSAEncryption
    Issuer: C=US, ST=Texas, L=Austin, O=Red Hat, OU=satellite.tc.redhat.com, CN=satellite.tc.redhat.com
    Validity
      Not Before: Apr 21 19:20:51 2009 GMT
      Not After : Apr 14 19:20:51 2036 GMT
    Subject: C=US, ST=Texas, L=Austin, O=Red Hat, OU=satellite.tc.redhat.com, CN=satellite.tc.redhat.com
    Subject Public Key Info:
      Public Key Algorithm: rsaEncryption
      RSA Public Key: (2048 bit)
        Modulus (2048 bit):
          00:c6:15:f1:0f:7a:89:21:ba:89:10:67:0c:b1:d7:
          09:16:a6:ab:3b:a3:b0:6a:be:b7:a9:e5:de:cf:6a:
          8a:8e:9d:d2:ef:8d:c7:77:c4:e6:a3:5f:fb:e6:69:
          98:e5:7d:45:8a:1c:e4:1b:d5:87:cc:57:66:94:f0:
          62:24:19:f5:55:fe:4a:42:2d:89:6b:88:d7:9d:c7:
          8a:b3:82:d3:34:e7:a9:ce:e8:3c:09:31:73:aa:96:
          c7:7e:b7:b8:63:e9:37:b0:1b:fc:14:71:cc:ff:70:
          69:61:0f:88:41:57:5c:15:d5:43:15:02:46:2d:f2:
          db:73:6e:68:5e:1f:76:45:75:27:be:0d:6e:e6:8b:
          33:ff:28:a7:07:a4:91:1b:11:2f:b6:ec:dc:e0:6f:
          32:3d:33:83:48:5f:0f:6d:8c:31:80:3f:7c:fa:66:
          ad:d1:a3:52:db:2f:39:17:ee:a9:7b:7d:1e:34:3b:
          fc:18:b3:d1:e4:10:72:9b:63:7c:d6:58:60:55:a3:
          11:6f:c4:c7:1d:5f:1d:1a:77:46:7b:fb:88:1f:df:
          29:1b:47:d0:c5:e0:dc:4e:a1:04:35:2a:d7:fa:40:
          31:6d:9a:fe:56:b2:e6:be:2c:4d:7a:8a:25:64:d0:
          6d:0e:6b:b8:eb:f0:69:bd:b5:c5:31:bd:c4:04:7e:
          be:27
        Exponent: 65537 (0x10001)
    X509v3 extensions:
      X509v3 Basic Constraints:
        CA:TRUE
      X509v3 Key Usage:
        Digital Signature, Key Encipherment, Certificate Sign
      X509v3 Extended Key Usage:
        TLS Web Server Authentication, TLS Web Client Authentication
```



Netscape Comment:
RHN SSL Tool Generated Certificate
X509v3 Subject Key Identifier:
E6:3A:23:07:BA:E2:D1:13:95:A6:0A:F1:61:5C:7E:9F:B2:F2:CE:20
X509v3 Authority Key Identifier:
keyid:E6:3A:23:07:BA:E2:D1:13:95:A6:0A:F1:61:5C:7E:9F:B2:F2:CE:20
DirName:/C=US/ST=Texas/L=Austin/O=Red Hat/OU=satellite.tc.redhat.com/CN=satellite.tc.redhat.com
serial:88:BD:85:F0:7D:90:D6:40

Signature Algorithm: sha1WithRSAEncryption
10:56:69:31:29:50:39:ea:65:2a:3e:06:a5:7a:26:c3:fd:82:
2c:bb:73:51:19:a0:dc:e0:56:44:93:f1:2b:a1:3b:8f:f9:20:
0c:b8:31:39:d5:61:e2:b3:39:8e:c2:f7:a0:2f:72:1d:cf:1e:
3b:4f:85:c5:fc:71:f0:5f:20:72:c7:51:0a:09:31:76:a6:c5:
4c:f4:6a:63:e4:a5:a8:e2:3c:6b:72:04:ab:cc:72:c0:90:3b:
06:89:47:2f:f0:b6:11:87:53:ca:59:00:24:97:aa:d3:90:d5:
b6:a2:38:d7:b8:07:b9:90:9d:04:7a:d2:71:fa:6a:fb:ab:49:
99:84:e9:13:bf:7b:ea:d2:86:66:ce:c2:8a:a9:b1:e6:75:ce:
fc:87:35:79:c0:d3:40:9c:cd:4e:9f:64:41:cf:87:76:26:88:
52:9b:43:76:2f:ed:4e:34:b8:c5:00:de:9e:e6:d2:25:de:17:
9f:38:bf:d9:7b:db:62:86:18:f7:d1:8c:71:c9:77:d2:e4:ce:
f8:24:51:e5:71:cc:c5:ee:5f:a6:1e:6e:56:13:2f:c4:5b:f2:
1d:b6:b5:94:b7:52:b9:02:a2:52:48:48:7c:28:30:e7:ef:3b:
31:26:db:2d:3d:29:fb:b5:50:9d:c7:e9:69:94:84:14:2a:b4:
62:fb:ea:a9

-----BEGIN CERTIFICATE-----
MIIE2zCCA80gAwIBAgIJAIi9hfB9KNZAMA0GCSqGSIb3DQEBBQUAMIGEMQswCQYD
VQQGEwJVUzE0MAwGA1UECBMFVGV4YXMxDzANBgNVBACTBKF1c3RpbjEQA4GA1UE
ChMHUmVkJIEhhdDEgMB4GA1UECXMxc2F0ZWxsaXRlLnRjLnJlZGhhdC5jb20xIDAe
BgNVBAMTF3NhdGVsbGl0ZS50Yy5yZWRoYXQuY29tMB4XDTA5MDQyMTE5MjA1MVoX
DTM2MDQxNDE5MjA1MVowgYQxCzAJBgNVBAYTA1VTMQ4wDAYDVQQIEwVUZXhhczEP
MA0GA1UEBxMGQXVzdGluMRAwDgYDVQQKEwdSZWQgSGF0MSAwHgYDVQQLExdzYXRl
bGxpdGUudGMucmVkaGF0LnVnbTEgMB4GA1UEAxMXc2F0ZWxsaXRlLnRjLnJlZGhh
dC5jb20wgGElMA0GCSqGSIb3DQEBAQUAA4IBDwAwggEKAoIBAQDGFfEPeokhuokQ
Zwyx1wkWpqs7o7Bqvrep5d7PaoqOndLvJcd3x0ajX/vmaZjlfUWKHOQb1YfMV2aU
8GIkGfVV/kpCLYlriNedx4qzgtM056n06DwJMX0qlsd+t7hj6TewG/wUccz/cGlh
D4hBV1wV1UMVAkYt8ttzbmheH3ZFdSe+DW7mizP/KKcHpJEbES+27NzgbzI9M4NI
Xw9tjDGAP3z6Zq3Ro1LbLzkX7q17fR400/wYs9HkEHKbY3zWWGBVoxFvxMcdXx0a
d0Z7+4gf3ykbR9DF4Nx0oQQ1Ktf6QDFtmv5Wsua+LE16iiVkJ0G00a7jr8Gm9tcUx
vcQEfr4nAgMBAAGjggFMMIIBSDAMBgNVHRMEBTADAQH/MASGA1UdDwQEAwICpDAd
BgNVHSUEFjAUBggrBgEFBQcDAQYIKwYBBQUHAWIwMQYJYIZIAyB4QgENBCQWI1JI
TiBTU0wgVG9vbCBHZW51cmF0ZWQgQ2VydGluamWnhdGUwHQYDVIR0BBYEF0Y6Iwe6
4tETlaYK8WFcfp+y8s4gMIG5BgNVHSMEgbEwga6AF0Y6Iwe64tETlaYK8WFcfp+y
8s4goYGKpIGHMIGEMQswCQYDVQQGEwJVUzE0MAwGA1UECBMFVGV4YXMxDzANBgNV

```

BACtBkF1c3RpbjEQMA4GA1UEChMHUmVkiEhhdDEgMB4GA1UECzMxMjc2F0ZWxsaXRl
LnRjLnJlZGhhdC5jb20xIDAeBgNVBAMTF3NhdGVsbGl0ZS50Yy5yZWRoYXQuY29t
ggkAiL2F8H2Q1kAwDQYJKoZIhvcNAQEFBQADggEBABBWaTEpUDnqZSo+BqV6JsP9
giy7c1EZoNzgVkst8Suh04/5IAy4MTnVYeKz0Y7C96Avch3PHjtPhcX8cfBfIHLH
UQoJMXamxUz0amPkpaJiPGtyBKvMcsCQ0waJRy/wthGHU8pZACsXqt0Q1bai0Ne4
B7mQnQR60nH6avurSZmE6R0/e+rShmb0woqpseZ1zvyHNXnA00CczU6fZEHP3Ym
iFKbQ3Yv7U40uMUA3p7m0iXeF584v9l722KGGPfRjHHJd9LkzvvgkUeVxzMXuX6Ye
blyTL8Rb8h22tZS3UrKColJISHwoM0fv0Zem2y09Kfu1UJ3H6WmUhBQqtGL76qk=
-----END CERTIFICATE-----
EOF
# ssl-key1
cat /tmp/ssl-key-* > /usr/share/rhn/RHN-ORG-TRUSTED-SSL-CERT
perl -npe 's/RHNS-CA-CERT/RHN-ORG-TRUSTED-SSL-CERT/g' -i /etc/sysconfig/rhn/*

mkdir -p /tmp/rhn_rpms/optional
cd /tmp/rhn_rpms/optional
wget -P /tmp/rhn_rpms/optional
http://satellite.tc.redhat.com/download/1251746499/e3eb000922320f2d70ab331208e5329a0fffd8e8a/0/0/redhat/NULL/libxml2-
python/2.6.26-2.1.2.8/i386/libxml2-python-2.6.26-2.1.2.8.i386.rpm
http://satellite.tc.redhat.com/download/1251746499/fcb7ce9a5e0e1a41d67c0e3263d3159c258751cd/0/0/redhat/NULL/pyOpenSSL/0.6-1.p24.7.
2.2/i386/pyOpenSSL-0.6-1.p24.7.2.2.i386.rpm
http://satellite.tc.redhat.com/download/1251746499/9396114f632928abbd2db51538cac21c5aa39e03/0/0/redhat/NULL/rhnlib/2.2.6-2.el5/noa
rch/rhnlib-2.2.6-2.el5.noarch.rpm
cd /tmp/rhn_rpms
wget -P /tmp/rhn_rpms
http://satellite.tc.redhat.com/download/1251746499/c8db93643a2e187acdc7905eb85faa4abd6be10f/0/0/redhat/NULL/pirut/1.3.28-13.el5/no
arch/pirut-1.3.28-13.el5.noarch.rpm
http://satellite.tc.redhat.com/download/1251746499/541ff6190509c52b146bef700e2bb06f0f56f200/0/0/redhat/NULL/yum/3.2.19-18.el5_3.1/
noarch/yum-3.2.19-18.el5_3.1.noarch.rpm
http://satellite.tc.redhat.com/download/1251746499/df40fded627a3f76830b3c3d95e9b877266ad587/0/0/redhat/NULL/yum-rhn-
plugin/0.5.3-30.el5/noarch/yum-rhn-plugin-0.5.3-30.el5.noarch.rpm
rpm -Uvh --replacepkgs --
replacefiles /tmp/rhn_rpms/optional/pyOpenSSL* /tmp/rhn_rpms/optional/rhnlib* /tmp/rhn_rpms/optional/libxml2-python*
rpm -Fvh /tmp/rhn_rpms/*rpm
rpm --import /etc/pki/rpm-gpg/RPM-GPG-KEY-redhat-release

perl -npe 's/xmlrpc.rhn.redhat.com/satellite.tc.redhat.com/' -i /etc/sysconfig/rhn/up2date

mkdir -p /etc/sysconfig/rhn/allowed-actions/script
touch /etc/sysconfig/rhn/allowed-actions/script/all
mkdir -p /etc/sysconfig/rhn/allowed-actions/configfiles
touch /etc/sysconfig/rhn/allowed-actions/configfiles/all
# now copy from the ks-tree we saved in the non-chroot checkout
cp -fav /tmp/ks-tree-copy/* /
rm -Rf /tmp/ks-tree-copy

```

```
# --End RHN command section--
rhnreg_ks --activationkey=1-summit-key
rhn_check
rhn_check
) >> /root/ks-post.log 2>&1
# MOTD
echo >> /etc/motd
echo "RHN kickstart on $(date +%Y-%m-%d'" >> /etc/motd
echo >> /etc/motd
# end of generated kickstart file
%post
(
/sbin/chkconfig microcode_ctl off
useradd tcameron
echo badpass | passwd --stdin tcameron
chage -E 1 tcameron
yum -y install gtkpod
) >> /root/ks-post.log 2>&1
```



Setting up DHCP/PXE/tftp for Kickstart

Required packages:

dhcp

tftp-server

xinetd

Packages to make your life a heck of a lot easier:

system-config-netboot

xorg-x11-xauth

bitmap-fonts

Setting up DHCP/PXE/tftp for Kickstart

Turn on tftp so you can serve up the installer bootloader:

```
chkconfig tftp on
```

Turn on xinetd:

```
chkconfig xinetd on
```

```
service xinetd restart
```

Setting up DHCP/PXE/tftp for Kickstart

Populate the tftp tree with the kernel (vmlinuz) and initial ramdisk (initrd.img) for the distribution you want to kickstart.

Easy way: system-config-netboot

Network Install

OS Identifier

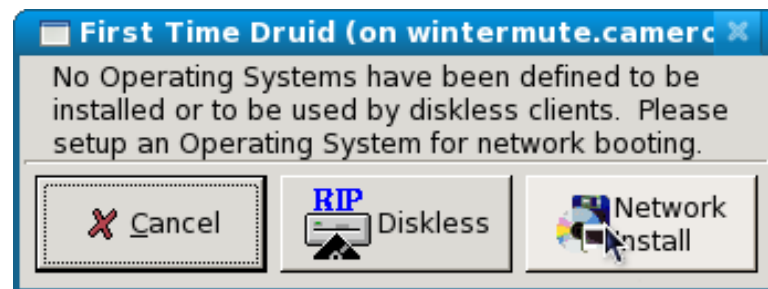
Description

Protocol

kickstart URL

Server IP

Path on server



Network Installation Dialog (on wintermute.can)

Operating system identifier: rhel-5.1-server-i386

Description: Summit Kickstart

Select protocol for installation: HTTP

Kickstart:

Software:

Server IP Address:

Location:

☒ Anonymous FTP

User: Password:

 Cancel  OK

Red Hat Network - Systems - Kickstart - Profiles - Kickstart Details - Bare Metal Kickstart - Mozilla Firefox

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redhat.com https://satellite.tc.redhat.com/rhn/kickstart/KickstartIpRangeEdit.do?ksid=121

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RED HAT NETWORK SATELLITE

Systems

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Distributions
File Preservation

Kickstart: summit-kickstart clone kickstart delete kickstart

Kickstart Details System Details Software Activation Keys Scripts Kickstart File

Details Operating System Advanced Options Bare Metal Kickstart

Bare Metal Kickstart

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

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

<http://satellite.tc.redhat.com/kickstart/ks/org/1x1288a065bb614f6f92ababd3acf03e2b/label/summit-kickstart>

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://satellite.tc.redhat.com/kickstart/ks/org/1x1288a065bb614f6f92ababd3acf03e2b/mode/ip_range

Find: pxelinux.0 Previous Next Highlight all Match case Reached end of page, continued from top

Done

Network Installation Dialog (on wintermute.can)

Operating system identifier: rhel-5.1-server-i386

Description: Summit Kickstart

Select protocol for installation: HTTP

Kickstart: 2b/label/summit-kickstart

Software:

Server IP Address: 172.31.100.10

Location:

☒ Anonymous FTP

User: Password:

 Cancel  OK

Red Hat Network - Systems - Kickstart - Profiles - Kickstart File - Mozilla Firefox

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redhat.com https://satellite.tc.redhat.com/rhn/kickstart/KickstartFileDownload.do?ksid=121

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Red Hat Network - Systems - Kickstart

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File Preservation

 **Kickstart: summit-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 Config Management
#
# Profile Name : summit-kickstart
# Profile Label : summit-kickstart
# Date Created : 2009-08-31 00:52:31.0
#
install
text
network --bootproto dhcp
url --url http://satellite.tc.redhat.com/ty/BQzubZTz
lang en_US
langsupport --default en_US en_US
keyboard us
mouse none
zerombr yes
clearpart --all
part /boot --fstype ext3 --size=100 --ondisk=xvda
part pv.00 --size=0 --grow --ondisk=xvda
volgroup VolGroup00 --pesize=32768 pv.00
```

Find: pxelinux.0 Previous Next Highlight all Match case Reached end of page, continued from top

Done

Network Installation Dialog (on wintermute.can)

Operating system identifier: rhel-5.1-server-i386

Description: Summit Kickstart

Select protocol for installation: HTTP

Kickstart: 2b/label/summit-kickstart

Software:

Server IP Address: 172.31.100.10

Location: /ty/YBnREhrp

☒ Anonymous FTP

User: Password:

 Cancel  OK

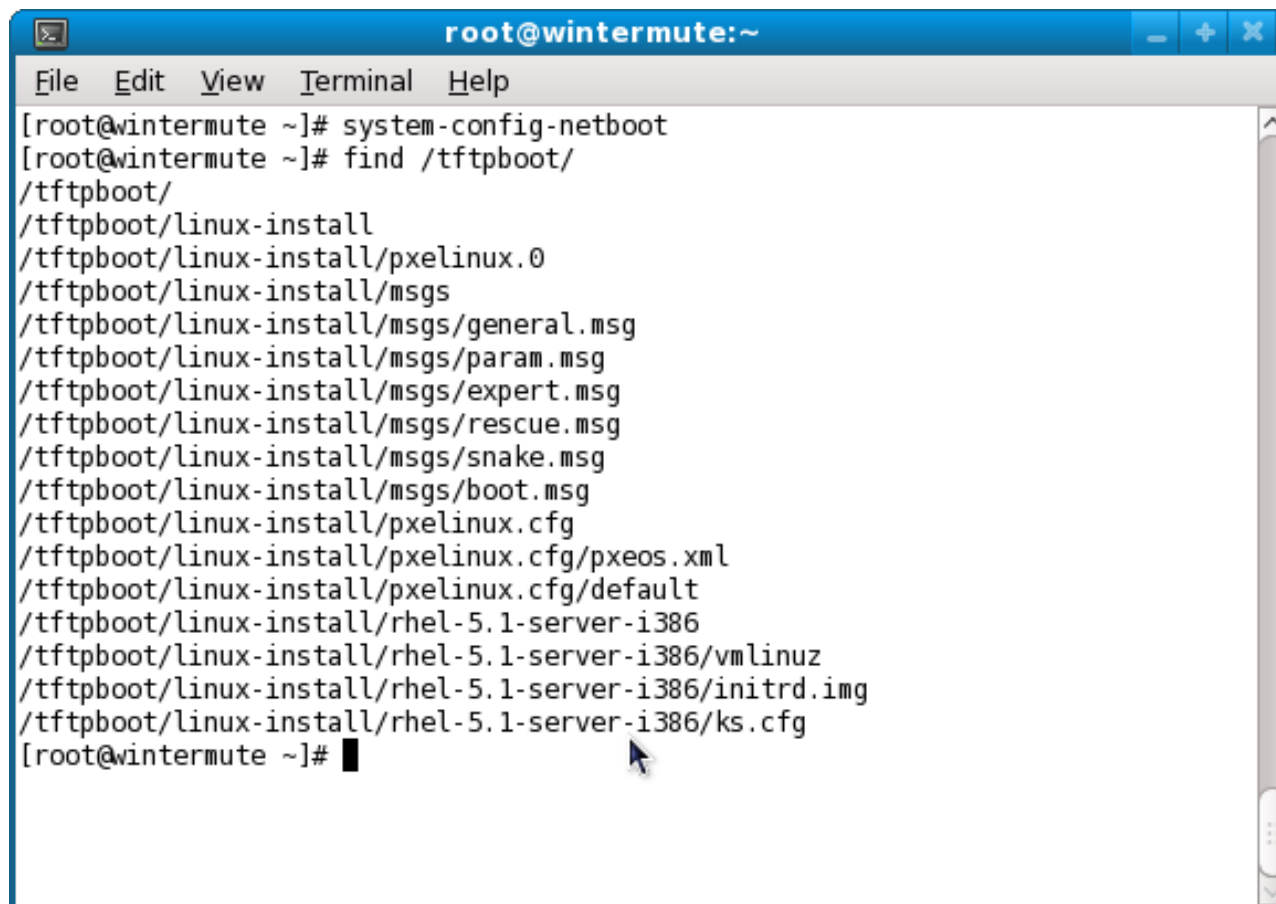
Setting up DHCP/PXE/tftp for Kickstart

Now a quick check of the /tftpd directory shows that system-config-network:

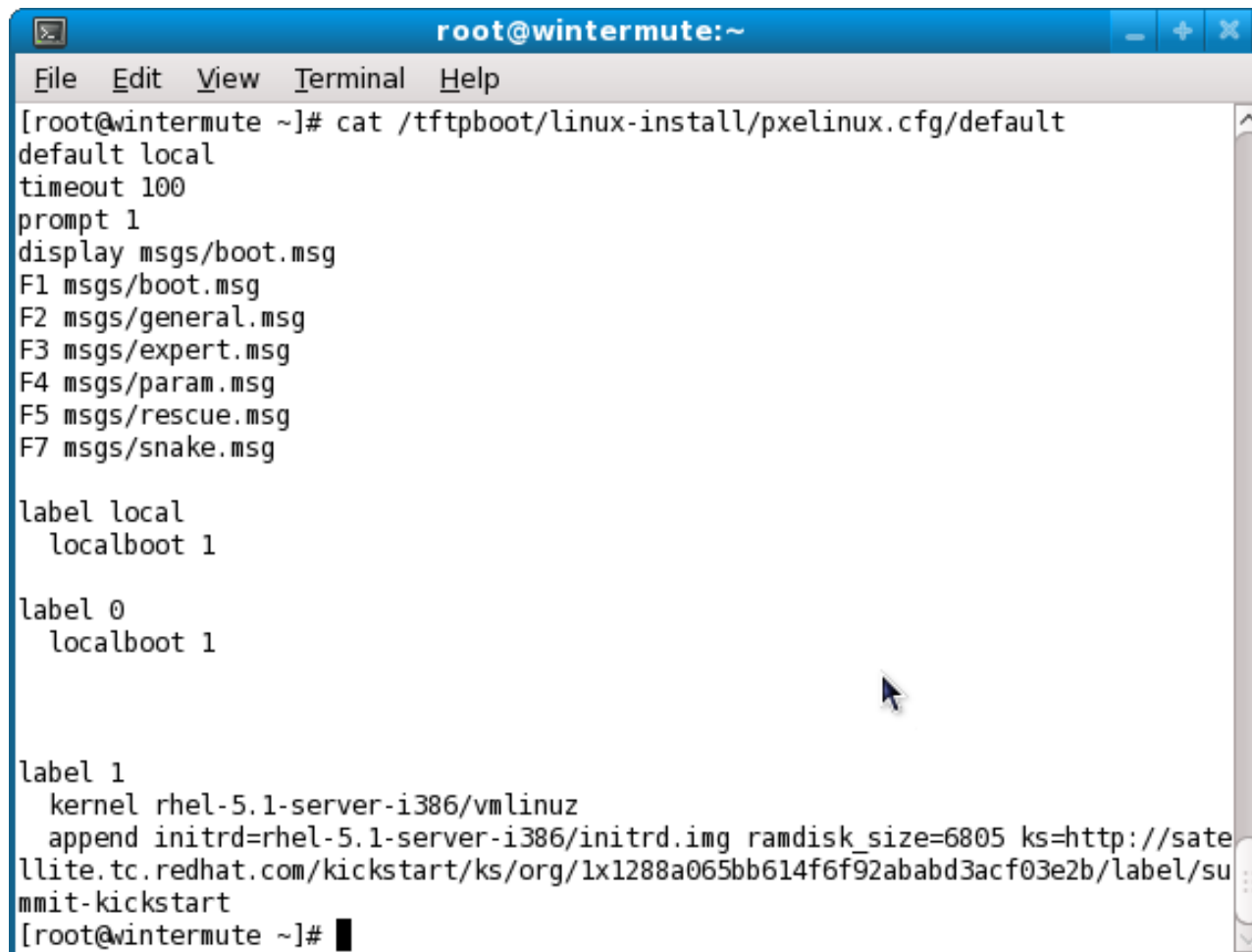
- Created the directory structure for the distro you defined

- Copied the vmlinuz, initrd.img and ks.cfg files to that directory

- Edited the /tftpboot/linux-install/pxelinux.cfg/default file



```
root@wintermute:~  
File Edit View Terminal Help  
[root@wintermute ~]# system-config-netboot  
[root@wintermute ~]# find /tftpboot/  
/tftpboot/  
/tftpboot/linux-install  
/tftpboot/linux-install/pxelinux.0  
/tftpboot/linux-install/messages  
/tftpboot/linux-install/messages/general.msg  
/tftpboot/linux-install/messages/param.msg  
/tftpboot/linux-install/messages/expert.msg  
/tftpboot/linux-install/messages/rescue.msg  
/tftpboot/linux-install/messages/snake.msg  
/tftpboot/linux-install/messages/boot.msg  
/tftpboot/linux-install/pxelinux.cfg  
/tftpboot/linux-install/pxelinux.cfg/pxeos.xml  
/tftpboot/linux-install/pxelinux.cfg/default  
/tftpboot/linux-install/rhel-5.1-server-i386  
/tftpboot/linux-install/rhel-5.1-server-i386/vmlinuz  
/tftpboot/linux-install/rhel-5.1-server-i386/initrd.img  
/tftpboot/linux-install/rhel-5.1-server-i386/ks.cfg  
[root@wintermute ~]#
```



```
root@wintermute:~  
File Edit View Terminal Help  
[root@wintermute ~]# cat /tftpboot/linux-install/pxelinux.cfg/default  
default local  
timeout 100  
prompt 1  
display msgs/boot.msg  
F1 msgs/boot.msg  
F2 msgs/general.msg  
F3 msgs/expert.msg  
F4 msgs/param.msg  
F5 msgs/rescue.msg  
F7 msgs/snake.msg  
  
label local  
    localboot 1  
  
label 0  
    localboot 1  
  
label 1  
    kernel rhel-5.1-server-i386/vmlinuz  
    append initrd=rhel-5.1-server-i386/initrd.img ramdisk_size=6805 ks=http://sate  
llite.tc.redhat.com/kickstart/ks/org/1x1288a065bb614f6f92ababd3acf03e2b/label/su  
mmit-kickstart  
[root@wintermute ~]#
```

Setting up DHCP/PXE/tftp for Kickstart

Set up `/etc/dhcpd.conf` per the instructions in Chapter 21 of the Red Hat Enterprise Linux Deployment guide

Add a section to the `/etc/dhcpd.conf` which looks like this:

```
next-server 172.31.100.1;  
filename "/linux-install/pxelinux.0";
```

Now PXE boot a machine

You should get the anaconda logo and OS choices

Welcome to Red Hat Network Installer!



Enter number of the Operation System you wish to install:

- 0. Local Machine
- 1. rhel-5.1-server-i386 - Summit Kickstart

[F1-Main] [F2-General] [F3-Expert] [F4-Kernel] [F5-Rescue]

boot: _

Welcome to Red Hat Network Installer!



Enter number of the Operation System you wish to install:

- 0. Local Machine
- 1. rhel-5.1-server-i386 - Summit Kickstart

[F1-Main] [F2-General] [F3-Expert] [F4-Kernel] [F5-Rescue]

boot: 1

Loading rhel-5.1-server-i386/vmlinuz.....

Loading rhel-5.1-server-i386/initrd.img.....

....._

Check the server status

In this case, I installed the system at RHEL 5.1 and then subscribed it to a “locked” RHEL 5.2 channel

Note that it has updates available, but only those updates to get it updated to RHEL 5.2

Red Hat Network - Systems - Overview - Mozilla Firefox

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

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RED HAT NETWORK SATELLITE

Systems

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No SYSTEMS SELECTED MANAGE CLEAR

Overview

System Overview

Systems (View System Groups)

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

Filter by System Name: Go Display 500 items per page 1 - 4 of 4 (0 selected)

☐	Updates	Health	Errata	Packages	System	Base Channel	Entitlement
☐			0	209	host252.tc.redhat.com	rhel-5.2-i386-server	Management, Monitoring, Provisioning
☐			1	1	ml110.tc.redhat.com	Red Hat Enterprise Linux (v. 5 for 32-bit x86)	Management, Monitoring, Provisioning, Virtualization Platform
☐			1	1	molly.tc.redhat.com	Red Hat Enterprise Linux (v. 5 for 32-bit x86)	Management, Monitoring, Provisioning, Virtualization Platform
☐			1	1	wintermute.camerontech.com	Red Hat Enterprise Linux (v. 5 for 32-bit x86)	Management, Monitoring, Provisioning, Virtualization Platform

Update List Select All

1 - 4 of 4 (0 selected)

satellite.tc.redhat.com

System Legend

- OK
- Critical
- Warning
- Unknown
- Locked
- Kickstarting
- Pending Actions
- Unentitled
- Monitoring Status

QUESTIONS?

**TELL US WHAT YOU THINK:
[REDHAT.COM/SUMMIT-SURVEY](https://redhat.com/summit-survey)**

Appendix A - channel-to-update script

Grab the tarball from

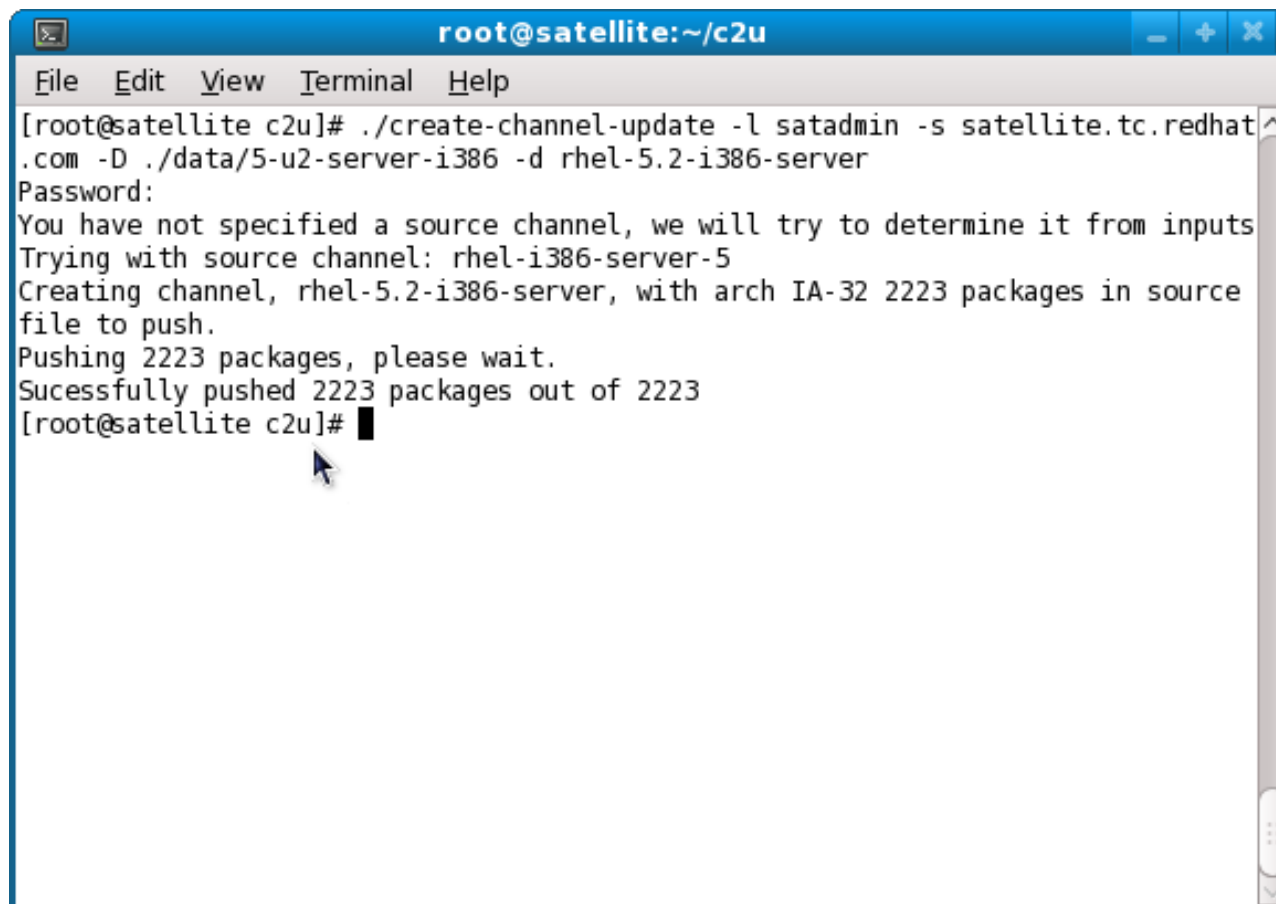
<https://fedorahosted.org/spacewalk/wiki/channel-to-update>
to a temporary directory.

Unpack it on your Satellite server

Read **T**he **F**ine **M**anual - see the README file in that directory.

Create a parent channel with syntax like:

```
./create-channel-update -l satadmin \  
-s satellite.tc.redhat.com -D ./data/5-u2-server-i386 \  
-d rhel-5.2-i386-server
```



```
root@satellite:~/c2u
File Edit View Terminal Help
[root@satellite c2u]# ./create-channel-update -l satadmin -s satellite.tc.redhat
.com -D ./data/5-u2-server-i386 -d rhel-5.2-i386-server
Password:
You have not specified a source channel, we will try to determine it from inputs
Trying with source channel: rhel-i386-server-5
Creating channel, rhel-5.2-i386-server, with arch IA-32 2223 packages in source
file to push.
Pushing 2223 packages, please wait.
Sucessfully pushed 2223 packages out of 2223
[root@satellite c2u]#
```

Appendix A - channel-to-update script

Create any child channels. For example, here is the syntax for creating the clustering child channel:

```
./create-channel-update -s satellite.tc.redhat.com \  
-l satadmin -D ./data/5-u2-server-i386-Clusterstorage \  
-c rhel-i386-server-cluster-storage-5 \  
-d rhel-5.2-i386-cluster-storage -P rhel-5.2-i386-server
```



```
root@satellite:~/c2u
File Edit View Terminal Help
[root@satellite c2u]# ./create-channel-update -l satadmin -s satellite.tc.redhat
.com -D ./data/5-u2-server-i386 -d rhel-5.2-i386-server
Password:
You have not specified a source channel, we will try to determine it from inputs
Trying with source channel: rhel-i386-server-5
Reusing rhel-5.2-i386-server as destination channel
2223 packages in source file to push.
Pushing 2223 packages, please wait.
Sucessfully pushed 2223 packages out of 2223
[root@satellite c2u]# ./create-channel-update -s satellite.tc.redhat.com -l sata
dmin -D ./data/5-u2-server-i386-Clusterstorage -c rhel-i386-server-cluster-stora
ge-5 -d rhel-5.2-i386-cluster-storage -P rhel-5.2-i386-server
Password:
Trying with source channel: rhel-i386-server-cluster-storage-5
Reusing rhel-5.2-i386-cluster-storage as destination channel
37 packages in source file to push.
Pushing 37 packages, please wait.
Sucessfully pushed 37 packages out of 37
[root@satellite c2u]#
```

Appendix A - channel-to-update script

Repeat for each other child channel you want.

Take a peek in ./data for the names of the channels available.

Note that this does not clone package groups - yum grouplist, yum groupinstall and yum groupremove will not work.

Red Hat Network - Channels - Manage Software Channels - Mozilla Firefox

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redhat.com https://satellite.tc.redhat.com/network/software/channels/manage/index.pxt

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QA RHEL Cluster-Storage (v. 5 for 32-bit x86)	176
QA RHEL Clustering (v. 5 for 32-bit x86)	118
QA RHEL Optional Productivity Apps (v. 5 for 32-bit x86)	1011
QA RHEL Supplementary (v. 5 for 32-bit x86)	411
QA RHEL Virtualization (v. 5 for 32-bit x86)	152
PROD Red Hat Enterprise Linux (v. 5 for 32-bit x86)	5519
PROD Red Hat Network Tools for RHEL Server (v.5 32-bit x86)	417
PROD RHEL Cluster-Storage (v. 5 for 32-bit x86)	176
PROD RHEL Clustering (v. 5 for 32-bit x86)	118
PROD RHEL Optional Productivity Apps (v. 5 for 32-bit x86)	1011
PROD RHEL Supplementary (v. 5 for 32-bit x86)	411
PROD RHEL Virtualization (v. 5 for 32-bit x86)	152
rhel-5.2-i386-server	3023
rhel-5.2-i386-cluster	32
rhel-5.2-i386-cluster-storage	37
rhel-5.2-i386-supplementary	66
rhel-5.2-i386-vt	32

1 - 26 of 26

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Red Hat Network release 5.2.0

Find: config Previous Next Highlight all Match case

https://satellite.tc.redhat.com/network/software/channels/manage/packages/package_list.pxt?pxt:trap=rhn:empty_set&set_label=packages_to_remove&cid=592