HOME
GET STARTED 👻
GET HELP 👻
GET INVOLVED 🗸
NEWS -

3.2 🔻

1.1 Katello

1.2 Capsule

1.3 Clients

2. Upgrade

- 2.1 Katello
- 2.2 Capsule
- 2.3 Clients
- 2.4 Puppet
- 3. Release Notes
- 4. CLI
- 5. User Guide
 - 5.1 Activation Keys
 - 5.2 Backup
 - 5.3 Capsules
 - 5.4 Content
 - 5.5 Content Hosts
 - 5.6 Content Views
 - 5.7 Disconnected
 - 5.8 Docker Management
 - 5.9 Email Notifications
 - 5.10 Errata
 - 5.11 Glossary
 - 5.12 GPG Keys
 - 5.13 Host Collections
 - 5.14 Lifecycle Environments
 - 5.15 Provisioning
 - 5.16 Puppet Integration
 - 5.17 Red Hat Content
- 6. Troubleshooting

Katello 3.2 Installation

These instructions are for installing Katello 3.2, but the latest stable is 3.18.

Note: After installation of Katello, be sure to trust Katello's CA certificate on your system. This is required for the encrypted

NoVNC connections. You will find katello-server-ca.crt in the /pub directory of your Katello server (e.g. http://katello.example.com/pub/katello-server-ca.crt).

Hardware Requirements

Katello may be installed onto a baremetal host or on a virtual guest. The minimum requirements are:

- Two Logical CPUs
- 8 GB of memory (12 GB highly recommended)
- The filesystem holding /var/lib/pulp needs to be large, but may vary depending on how many different Operating Systems you wish to syncronize:
 - Allocate 30 GB of space for each operating system. Even though an operating system may not take up this much space now, this allows space for future updates that will be syncronized later.
- The path /var/spool/squid/ is used as a temporary location for some types of repository syncs and may grow to consume 10s of GB of space before the files are migrated to /var/lib/pulp. You may wish to put this on the same partition as /var/lib/pulp.
- The filesystem holding /var/lib/mongodb needs at least 4 GB to install, but will vary depending on how many different Operating Systems you wish to syncronize:
 - Allocate around 40% of the capacity that has been given to the /var/lib/pulp filesystem
- The root filesystem needs at least 20 GB of Disk Space

Required Ports

The following ports need to be open to external connections:

- 80 TCP HTTP, used for provisioning purposes
- 443 TCP HTTPS, used for web access and api communication
- 5647 TCP qdrouterd used for client and capsule actions
- 9090 TCP HTTPS used for communication with the smart proxy

Production

Katello provides a puppet based installer for deploying production installations. Production installations are supported on the following OSes:

OS	
CentOS 6	Х
CentOS 7	Х
RHEL 6	Х
RHEL 7	Х

Katello can only run on an x86_64 operating systems.

Installation may be done manually or via our recommended approach of using forklift.

Required Repositories

Select your Operating System: Red Hat Enterprise Linux 6



yum -y update yum -y localinstall https://fedorapeople.org/groups/katello/releases/yum/3.2/katello/el6/x86_64/katello-repos-latest.rpm yum -y localinstall https://fedorapeople.org/groups/katello/releases/yum/foreman/1.13/el6/x86_64/foreman-release.rpm yum -y localinstall https://yum.puppetlabs.com/puppetlabs-release-pc1-el-6.noarch.rpm # will install with Puppet 4 #yum -y localinstall https://yum.puppetlabs.com/puppetlabs-release-el-6.noarch.rpm # use this instead if you prefer Puppet 3 yum -y localinstall https://dl.fedoraproject.org/pub/epel/epel-release-latest-6.noarch.rpm yum -y install foreman-release-scl

Installation

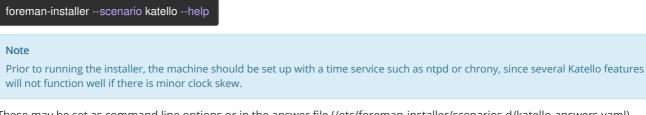
After setting up the appropriate repositories, update your system:



Then install Katello:

yum -y install katello

At this point the **foreman-installer** should be available to setup the server. The installation may be customized, to see a list of options:



These may be set as command line options or in the answer file (/etc/foreman-installer/scenarios.d/katello-answers.yaml). Now run the options:

foreman-installer --scenario katello <options>

Forklift

Foreman provides a git repository designed to streamline setup by setting up all the proper repositories. Forklift provides the ability to deploy a virtual machine instance via Vagrant or direct deployment on an already provisioned machine. For details on how to install using forklift, please see the README.

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HOME
GET STARTED 👻
GET HELP 🗸
GET INVOLVED 🗸
NEWS -

3.2 🔻

1. Installation

1.1 Katello

1.2 Capsule

1.3 Clients

2. Upgrade

2.1 Katello

2.2 Capsule

2.3 Clients

2.4 Puppet

3. Release Notes

4. CLI

5. User Guide

5.1 Activation Keys

5.2 Backup

5.3 Capsules

5.4 Content

5.5 Content Hosts

5.6 Content Views

5.7 Disconnected

5.8 Docker Management

5.9 Email Notifications

5.10 Errata

5.11 Glossary

5.12 GPG Keys

5.13 Host Collections

5.14 Lifecycle Environments

5.15 Provisioning

5.16 Puppet Integration

5.17 Red Hat Content

6. Troubleshooting

Capsule Installation

Hardware Requirements

The Capsule server is only supported on x86_64 Operating Systems

- 2 Two Logical CPUs
- 8 GB of memory
- Disk space usage is similar to that of the main Katello server Installation

Required Ports

At a minimum, the following ports need to be open to external connections for installation:

- 80 TCP HTTP, used for provisioning purposes
- 443 TCP HTTPS, used for web access and api communication
- 9090 TCP HTTPS used for communication with the smart proxy

See the User Guide for additional information about Capsule services and required ports.

Installation

Install needed packages:

The same yum repositories need to be configured on the Capsule server as the main Katello server. See the installation guide for the list of required repositories.

Once you get the repositories configured, install the katello-capsule package on the capsule

yum install -y katello-capsule

Generate Certificates for the Capsules

Prior to installing the Capsule, we need to generate certificates on the main Katello server:

capsule-certs-generate --capsule-fqdn "mycapsule.example.com"\ --certs-tar "~/mycapsule.example.com-certs.tar"

In the above example, replace 'mycapsule.example.com' with your Capsule's fully qualified domain name. This will generate a tar file containing all the needed certificates. You will need to transfer those certificates to the server that you will install your Capsule on using whatever method you prefer (e.g. SCP).

The capsule-certs-generate command will output an example installation command. For example:

Installing Success!	Done	[100%] []			
To finish the ir	To finish the installation, follow these steps:				
 Ensure that the foreman-installer-katello package is installed on the system. Copy ~/mycapsule.example.com-certs.tar to the system mycapsule.example.com Run the following commands on the capsule (possibly with the customized parameters, see foreman-installerscenario capsulehelp and documentation for more info on setting up additional services): 					
Subscription-m foreman-instal p re rr tr tr 0 0 0 0 0	anager registero lerscenario capsi arent-fqdn "k egister-in-foreman oreman-base-url usted-hosts "k usted-hosts "r auth-consumer-key auth-consumer-sec ulp-oauth-secret	atello.example.com"\ "true"\ "https://katello.example.com"\ katello.example.com"\ nycapsule.example.com"\ ("UVrAZfMaCfBiiWejoUVLYCZHT2xhzuFV"\ cret "ZhH8p7M577ttNU3WmUGWASag3JeXKgUX"\ "TPk42MYZ42nAE3rZvyLBh7Lxob3nEUi8"\ nycapsule.example.com-certs.tar"			

Install Capsule

Use the provide installation command from capsule-certs-generate, and tailor for your own purposes as needed. The defaults will give you a Capsule ready for Content-related services.

See the User Guide to learn about setting up provisioning related services, as well as the Foreman manual

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HOME
GET STARTED 👻
GET HELP 🗸
GET INVOLVED 🗸
NEWS -

3.2 🔻

1.1 Katello

1.2 Capsule

1.3 Clients

2. Upgrade

2.1 Katello

- 2.2 Capsule
- 2.3 Clients
- 2.4 Puppet
- 3. Release Notes
- 4. CLI
- 5. User Guide
 - 5.1 Activation Keys
 - 5.2 Backup
 - 5.3 Capsules
 - 5.4 Content
 - 5.5 Content Hosts
 - 5.6 Content Views
 - 5.7 Disconnected
 - 5.8 Docker Management
 - 5.9 Email Notifications
 - 5.10 Errata
 - 5.11 Glossary
 - 5.12 GPG Keys
 - 5.13 Host Collections
 - 5.14 Lifecycle Environments
 - 5.15 Provisioning
 - 5.16 Puppet Integration
 - 5.17 Red Hat Content
- 6. Troubleshooting

Client Installation

Client machines can be added in one of two ways: manually or via a provisioned host.

Manual

Install the appropriate Katello client release packages. For CentOS 6, you will also need to enable the COPR repository for subscription-manager.

Select your Operating System: Enterprise Linux 5 (CentOS, etc.) 🔻

yum install -y https://fedorapeople.org/groups/katello/releases/yum/3.2/client/el5/x86_64/katello-client-repos-latest.rpm yum -y install https://dl.fedoraproject.org/pub/epel/epel-release-latest-5.noarch.rpm

Now you are ready to install the katello-agent:

yum install katello-agent

Provisioned

In order to install the katello-agent package on a host you are provisioning, you will need to make the appropriate client repository available within your Katello. The first step is to either create a new product or add to an existing product, the appropriate client repository from the dropdown in the manual section above. After you create the new repositories, they will need to be synced locally. Next, you will then need to add them to the relevant content view(s) for the hosts you are wanting to provision. At this point, a new version of the content view can be published and promoted to the appropriate environments that you are wanting to provision a host into. At this point, you can go provision a host and the host will install the katello-agent package during setup.

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HOME
GET STARTED 👻
GET HELP 👻
GET INVOLVED -
NEWS -

3.2 🔻

1. Installation

1.1 Katello

1.2 Capsule

1.3 Clients

- 2. Upgrade
 - 2.1 Katello
 - 2.2 Capsule
 - 2.3 Clients
 - 2.4 Puppet
- 3. Release Notes
- 4. CLI
- 5. User Guide
 - 5.1 Activation Keys
 - 5.2 Backup
 - 5.3 Capsules
 - 5.4 Content
 - 5.5 Content Hosts
 - 5.6 Content Views
 - 5.7 Disconnected
 - 5.8 Docker Management
 - 5.9 Email Notifications
 - 5.10 Errata
 - 5.11 Glossary
 - 5.12 GPG Keys
 - 5.13 Host Collections
 - 5.14 Lifecycle Environments
 - 5.15 Provisioning
 - 5.16 Puppet Integration
 - 5.17 Red Hat Content
- 6. Troubleshooting

Katello Upgrade

Katello supports upgrades from version 2.0. For users transitioning from 1.4, please see - Transition Guide.

Pre-upgrade considerations

Before you upgrade, you need to run the upgrade check script that will check for any active tasks, your version of Katello, and if there are any content hosts that will be deleted (see below). This script is included in Katello 2.4.3.

To run the script:

foreman-rake katello:upgrade_check

Step 1 - Backup

If Katello is running on a Virtual Machine, we recommend to take a snapshot prior to upgrading. Otherwise, take a backup of the relevant databases by following the instructions here.

Step 2 - Operating System

Ensure your operating system is fully up-to-date:

yum -y update

NOTE: If kernel packages are updated here (e.g. upgrading el 6.6 to 6.7), you must reboot and ensure the new kernel and SELinux policy is loaded before upgrading Katello.

Step 3 - Repositories

Update the Foreman and Katello release packages:

• RHEL6 / CentOS 6:

yum update -y https://fedorapeople.org/groups/katello/releases/yum/3.2/katello/el6/x86_64/katello-repos-latest.rpm yum update -y https://fedorapeople.org/groups/katello/releases/yum/foreman/1.13/el6/x86_64/foreman-release.rpm

• RHEL7 / CentOS 7:

yum update -y https://fedorapeople.org/groups/katello/releases/yum/3.2/katello/el7/x86_64/katello-repos-latest.rpm yum update -y https://yum.theforeman.org/releases/1.13/el7/x86_64/foreman-release.rpm

Step 4 - Update Packages

Clean the yum cache



Update the required packages:

yum -y update

Step 5 - Run Installer

The installer with the –upgrade flag will run the right database migrations for all component services, as well as adjusting the configuration to reflect what's new in Katello 3.2

foreman-installer --scenario katello --upgrade

Congratulations! You have now successfully upgraded your Katello to 3.2 For a rundown of what was added, please see release notes.!

If for any reason, the above steps failed, please review /var/log/foreman-installer/katello.log – if any of the "Upgrade step" tasks failed, you may try to run them manaully below to aid in troubleshooting.

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HOME
GET STARTED 🗸
GET HELP 🗸
GET INVOLVED -
NEWS -

3.2 💌

- 1. Installation
 - 1.1 Katello
 - 1.2 Capsule
- 1.3 Clients
- 2. Upgrade
 - 2.1 Katello
 - 2.2 Capsule
 - 2.3 Clients
 - 2.4 Puppet
- 3. Release Notes
- 4. CLI
- 5. User Guide
 - 5.1 Activation Keys
 - 5.2 Backup
 - 5.3 Capsules
 - 5.4 Content
 - 5.5 Content Hosts
 - 5.6 Content Views
 - 5.7 Disconnected
 - 5.8 Docker Management
 - 5.9 Email Notifications
 - 5.10 Errata
 - 5.11 Glossary
 - 5.12 GPG Keys
 - 5.13 Host Collections
 - 5.14 Lifecycle Environments
 - 5.15 Provisioning
 - 5.16 Puppet Integration
 - 5.17 Red Hat Content
- 6. Troubleshooting

Capsule Upgrade

Step 1 - Operating System

Ensure your operating system is fully up-to-date:

NOTE: If kernel packages are updated here (e.g. upgrading el 6.6 to 6.7), you must reboot and ensure the new kernel and SELinux policy is loaded before upgrading Katello.

Step 2 - Repositories

Update the Foreman and Katello release packages:

RHEL6 / CentOS 6 Foreman packages are not available yet:

yum update -y https://fedorapeople.org/groups/katello/releases/yum/3.2/katello/el6/x86_64/katello-repos-latest.rpm yum update -y https://fedorapeople.org/groups/katello/releases/yum/foreman/1.13/el6/x86_64/foreman-release.rpm

• RHEL7 / CentOS 7:

yum update -y https://fedorapeople.org/groups/katello/releases/yum/3.2/katello/el7/x86_64/katello-repos-latest.rpm yum update -y https://yum.theforeman.org/releases/1.13/el7/x86_64/foreman-release.rpm

Step 3 - Update Packages

Clean the yum cache



yum install katello-capsule

Step 4 - Regenerate Certificates

On the Katello server, regenerate the certificates tarball for your capsule:



Step 5 - Run Installer

The installer with the –upgrade flag will run the right database migrations for all component services, as well as adjusting the configuration to reflect what's new in Katello 3.2



Congratulations! You have now successfully upgraded your Capsule to 3.2 For a rundown of what was added, please see release notes.!

If for any reason, the above steps failed, please review /var/log/foreman-installer/capsule.log – if any of the "Upgrade step" tasks failed, you may try to run them manaully below to aid in troubleshooting.

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HOME
GET STARTED 🗸
GET HELP 🗸
GET INVOLVED -
NEWS -

3.2 💌

1.1 Katello

1.2 Capsule

1.3 Clients

2. Upgrade

2.1 Katello

2.2 Capsule

2.3 Clients

2.4 Puppet

3. Release Notes

4. CLI

- 5. User Guide
 - 5.1 Activation Keys
 - 5.2 Backup

5.3 Capsules

5.4 Content

5.5 Content Hosts

5.6 Content Views

5.7 Disconnected

5.8 Docker Management

5.9 Email Notifications

5.10 Errata

- 5.11 Glossary
- 5.12 GPG Keys
- 5.13 Host Collections

5.14 Lifecycle Environments

5.15 Provisioning

- 5.16 Puppet Integration
- 5.17 Red Hat Content
- 6. Troubleshooting

Client Upgrade

When upgrading clients there are 2 scenarios: manually added clients and provisioned clients.

Step 1 - Update Repositories

Manually Added Clients

Update the Katello client release packages:

Select your Operating System: Enterprise Linux 5 (CentOS, etc.) 🔻

yum update -y https://fedorapeople.org/groups/katello/releases/yum/3.2/client/el5/x86_64/katello-client-repos-latest.rpm yum -y install https://dl.fedoraproject.org/pub/epel/epel-release-latest-5.noarch.rpm

Provisioned Clients

If the katello-agent was setup during provisioning from a locally synced repository then you will need to go through some initial setup to add the 3.2 client repositories to your Katello for each version needed. After you create the new repositories, they will then need to be added to the relevant content view(s) and the older versions removed. At this point, a new version of the content view can be published and promoted to the appropriate environments. Once the new package is available the clients can be updated following the next steps.

Step 2: Update Packages

Clean the yum cache



Update packages:

yum update katello-agent

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HOME
GET STARTED 👻
GET HELP 👻
GET INVOLVED -
NEWS -

3.2 🔻

1.1 Katello

1.2 Capsule

1.3 Clients

2. Upgrade

2.1 Katello

2.2 Capsule

2.3 Clients

2.4 Puppet

3. Release Notes

4. CLI

- 5. User Guide
 - 5.1 Activation Keys
 - 5.2 Backup

5.3 Capsules

5.4 Content

5.5 Content Hosts

5.6 Content Views

5.7 Disconnected

- 5.8 Docker Management
- 5.9 Email Notifications

5.10 Errata

- 5.11 Glossary
- 5.12 GPG Keys
- 5.13 Host Collections

5.14 Lifecycle Environments

5.15 Provisioning

- 5.16 Puppet Integration
- 5.17 Red Hat Content
- 6. Troubleshooting

Puppet Upgrade

This document outlines how to upgrade from Puppet 3 to Puppet 4.

Overview

Puppet 4 support was added to Foreman in version 1.12, and in Katello in 3.2. Puppet 4 is a major upgrade from Puppet 3; the changes are too numerous for this document. More information can be found in the Puppet 3.x to 4.x: Get upgrade-ready document and the Puppet 4.0 release notes.

Running Puppet 3 and Puppet 4 on the same server is not possible. However, it is possible to run one version of Puppet on your Katello server, and another version of Puppet on one or more capsules. For example, you could have Puppet 4 on your Katello server, Puppet 3 on two capsules, and Puppet 4 on another capsule. The same would work vice-versa, with Puppet 3 on your Katello server and a mix of Puppet 3 and 4 on your capsules.

The upgrade to Puppet 4 will require an outage to your Katello server or capsule, but does not have any long-running data migrations.

Client Support

When planning your upgrade, keep in mind the following compatbility matrix:

	Puppet 3 client	Puppet 4 client
Puppet 4 server	Compatible	Compatible
Puppet 3 server	Compatible	Not compatible

Detailed information about Puppet client support is available in the Puppet documentation.

Syntax changes in Puppet 4

Some older Puppet modules will require syntax updates to be compatible with Puppet 4. For example, if you find that some configuration values on clients are blank after running the Puppet agent, you may need to update your Puppet modules.

Upgrading

There are two styles of upgrade. You can either stand up a new capsule that's Puppet 4 and have clients start using it, or upgrade an existing Puppet 3 capsule to Puppet 4. If you do not have an existing capsule and only use the main Katello server, you'll need to upgrade it in-place to take advantage of Puppet 4.

In either upgrade scenario, be sure that you have access to the Puppet Labs packages.

In-place migration

If you plan on upgrading an existing Katello server or capsule to Puppet 4, the the process is straightforward.

- Take backup or VM snapshot of server
- run katello-service stop to stop all services
- run foreman-installer --upgrade-puppet . This will perform the upgrade.

The --upgrade-puppet option will also restart services. Once it's done, you can either log in again via the web UI, or run hammer ping to check service status. If you run puppet --version on the server, it should show 4.6.0 or similar.

Note that you cannot use --upgrade-puppet and --upgrade at the same time. If you need to do both, run the --upgrade first to pull in the latest bugfixes, ensure all services are working as expected, take a new backup, and run --upgrade-puppet.

New Capsule

If you would rather leave your existing infrastructure in place, you can create a new Puppet 4 capsule, register it to your Katello server, and then have new or existing clients start using that. As long as the Yum repo for Puppet points to the Puppet 4 location, it should automatically pull in Puppet 4. More information is available on the About Puppet Collections and packages page.

Special considerations for "self-registered" Katello installations

Some users have "self-registered" Katello installations, where the system registers to itself to pull content. In this case, you will need to ensure you have synced down the relevant Puppet 4 repositories and subscribed the server to the correct products before starting the upgrade.

The upgrade process will perform any needed package upgrades before commencing configuration changes, so the Katello server should be able to obtain packages from itself before shutting down.

Further reading

The Foreman upgrade notes contains further notes, including a great "Further reading" area. The Katello installer will automate many of the manual steps, but the Foreman document is a good reference to see what is happening under the covers.

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HOME
GET STARTED 👻
GET HELP 👻
GET INVOLVED 🗸
NEWS -

3.2 🔻

1.	Installation	

1.1 Katello

1.2 Capsule

1.3 Clients

2. Upgrade

2.1 Katello

2.2 Capsule

2.3 Clients

2.4 Puppet

3. Release Notes

4. CLI

5. User Guide

5.1 Activation Keys

5.2 Backup

5.3 Capsules

5.4 Content

5.5 Content Hosts

5.6 Content Views

5.7 Disconnected

5.8 Docker Management

5.9 Email Notifications

5.10 Errata

5.11 Glossary

5.12 GPG Keys

5.13 Host Collections

5.14 Lifecycle Environments

5.15 Provisioning

5.16 Puppet Integration

5.17 Red Hat Content

6. Troubleshooting

Katello 3.2 (Malt Liquor) Release Notes

For the full release notes, see the Changelog.

Notable Features

Puppet 4 Support

Puppet 4 is now supported by Katello. For more information, visit the Puppet upgrade page

Content Host Subscriptions Bulk Actions

Users can now attach Subscriptions to multiple Content Hosts in the UI via bulk actions. Similar functionality is also available via hammer under hammer host subscriptions subcommands.

File type repository updates

In Katello 3.1, the file repository type was added for storing generic files in Katello. The 3.2 release brings with it the ability to add those file repositories to a content view. Now you can you snapshot your generic files into views and push them through environments just as you would for RPM or Puppet content. This can be used to create a production set of Python packages, Rubygems, tarballs or even Debian repositories. In addition, an API has been added for viewing file content in your Katello just as you would any other content type.

Searchable ostree repos

Adds a new menu item 'Content -> OSTree Branches' that enables one to search OSTree branches across different content views/lifecycle environments.

Create/update Composite Content View by Content View names in hammer

Versions of published content views can be added or removed from a composite content view via hammer. The version number and content view ID can now be used to identify the content view version to add to the composite content view. For example, to add version 1.2 of content view with ID 1 to composite view composite_cv:

hammer content-view add-version --name composite_cv --content-view-version 1.2 --content-view-version-content-view-id 1 -- organization 'Default Organization'

You can remove a version in a similar way:

hammer content-view remove-version --name composite_cv --content-view-version 1.2 --content-view-version-content-view-id 1 -- organization 'Default Organization'

Features

Capsule

- [RFE] make it possible to run capsule-remove unattended (#16003, 010d458f)
- Content Hosts: UI should have some indicator as if/which capsule is providing content (#15818, 69df0ec0)

Tooling

• Update to foreman-tasks 0.8.0 (#16171, d385d8ac, 2145ea4e)

Tests

- Enable HoundCl for checking rubocop cops (#16242, da866bef)
- Add a coverage report to Katello (#15288, 407d3ae3)
- Turn on AssignmentInCondition cop (#15483, a7228ec6)
- Add code climate and build status badges to Katello README (#15608, d51e0587)

Errata Management

• add a way to manually generate applicability for a host (#16295, f9ea2ba2)

Content Views

- Add content-view published status to "hammer -u admin -p changeme content-view list" (#16302, 60ed450e)
- [RFE] Content View package filter version field too short for length of typical version strings (#16332, f6930f84)
- Allow adding file type repositories to content views (#13661, 94e8f780)

Hammer

- "hammer content-host info" command should have information related to "Content Host Status" (#14829, 29520f64)
- Create/update composite content-view by content-view Names (#14604, fa2c5214)
- Test with Ruby 2.3 (#15691, 725801c8)
- Listing product content for an activation key does not show correct state in Hammer (#16000, 41584f75, 028bd011)
- Hostgroup info should show associated cv and lifecycle-environment (#15990, 5b617f3b)

Subscriptions

• As a UI user i like to select hosts to attach subscriptions (#10431, 95d7b249)

Atomic

• UI - As a user I want to be able to search rpm-ostree repos (#13953, 67d0bd27)

Web UI

• Upgrade katello to new angular/jasmin (#15085, 35879d13)

Backup & Restore

• Fully online backup (#15454, 46e44353)

API

- [Sat6] allow multiple rpms to be added via content-view filter rule create API endpoint (#15536, ad75723f)
- Use parameter_filter instead of attr_accessible (#15741, 328ee19a)

Repositories

- Provide API for file type content (#15630, 8fac5bed)
- Need a quick way to allow "insecure" syncs (#15802, 810cc603, 34824f25)

Documentation

• Remove YARD from Katello (#15670, 37ff67b3)

Bug Fixes

Installer

• Add rubocop to katello-installer (#16354, 0743b788, 34d01ec2)

Upgrades

• Create a preupgrade script to check systems before upgrades (#15611, fea48380)

Puppet

- Support cleaning empty puppet envs with puppet 4 (#16523, f7b70e71, 58469817)
- katello installer does not allow for upgrading puppet (#16053, 8db5561d, b192d5e7)
- –clear-puppet-environments does not handle puppet 4 env dir (#16011, 6cbb35d5)
- empty puppet environments are left behind in /etc/puppet/environments (#15845, 13189a68)

Hammer

- Support large file uploads in the CLI (#16457, f060a2b3)
- Following the README in setting up hammer-cli-katello, you get a gem dependency conflict (#16101, f46fbd64, 8f19345a)
- [Sat6.2] command "hammer activation-key add-host-collection" fails if using option "-host-collection" with organization_id set to default 1 (#16034, 34ae3d3d)
- Drop support for Ruby 2.0.0 (#15949, 44a80a49)
- Fix the broken link to Travis in the Readme (#15934, 5fbe0fab)
- Adjust coverage settings in hammer-cli-katello (#15927, 03f06430)
- Hammer doesn't handle removal of required :organization_id param on content_view and lifecycle_environment

(#15830, e0bea267)

- Allow Foreman objects to resolve using create_search_options_creators_without_katello_api (#15701, 18926cd6, d270200b)
- Organization options for content-view and lifecycle-environment should fail gracefully for hammer hostgroups create/update (#15693, 101e9666)
- hammer content-view create fails when component-ids are specified (#15678, d9551dc8)
- Cannot create new content view (#15604, 6feaf353)
- Remove Ruby 1.9.3 support from hammer-cli-katello Travis tests (#15593, 7b95d443)
- Remove hammer content-host update New command is hammer host update (#15589, 2597aaef)
- [Sat6] allow multiple rpms to be added via hammer content-view filter rule create (#15537, 6dce9a75)
- Use fully qualified object ::Foreman in #15420 (#15443, 39117d81)
- Update test data with new API (#15436, a9fa1808)
- Only require hammer_cli and hammer_cli_foreman from git in development and production (#15419, 650bb22e)
- hammer hostgroup update or create command fails when using –organization-ids option fails (#15313, 2c7c6b6f)
- hammer host-collection add-host/remove-host always return success (#15291, 2e3e5edf)
- 'hammer activation-key subscriptions' shows already removed subscriptions (#15272, 9e72e0c8)
- unable to remove 'version' parameter from command (#13636)
- need way to attach a subscription to a content host w/ hammer (#9669, 14c96768)

Installer

- capsule-certs-generate fails for missing parser cache (#16455, 95eea445)
- Installer should support Puppet 3 and Puppet 4 cache directory (#16334, e7177df5)
- katello-certs-check output should display a absolute path to certs (#16280, e03bc400)
- Generate katello-installer's parser cache for kafo and include in the source bundle (#15938, 7e43a9d2, 9fa93e0a)
- Do not use facter anywhere in katello-installer (#15911, 57814d72)
- Look at AIO data path for cached data (#15910, 3edf7534)
- puppet-certs doesn't support puppet 4 aio paths for SSL certificates (#15882, 55b0911f)
- katello-installer may fail on machines with low RAM (#15696, 33f41e6d)
- rake setup_local creates ./modules/modules (#15511, ce810a94)
- Install fails if host puppet certs have already been generated (#15241, b54acb74)
- Select Puppet::server_implementation from installer (#14602)
- katello-certs-check should print absolute paths to certificates (#15775, b57b21e4)
- The installer should check that the cert rpms installed on the system are corresponding to those present in ~/ssl-build (or in the capsule certs tar.gz) (#15538, df36e803, e1f168d7)
- Making Upgrade from 3.1 RC2 to 3.1 Release (#16433, 4ea05178)

Repositories

- Handle import upload errors from pulp (#16451, f58088de)
- Unable to upload large RPM files from Satellite UI (#16344, 0127b0ad)
- look for treeinfo files when enabling a repo (#16278, 821d936d)
- The refresh_repositsory file is misspelled as refresh_repostiory (#16157, be6cc4be)
- Unable to sync Docker Containers to Satellite if repository already exists (#15971, 4f30704e)
- Repository > Details: "Last Synced" for an unsynced repo looks silly. (#15933, 9cff370e)
- Cannot add/remove repositories to a content view (#15869, a7dcac7e)
- Enabling a repository needs to fail on pulp error (#15824, 236caa38)
- Syncing a PULP_MANIFEST puppet repo over file:// fails with No such file or directory: u'///dir/modules.json' (#15812, d72f8c10)
- Incremental update task name should have more info (#15808, 133a4dde)
- Opening Red Hat Repositories link without an uploaded manifest provides the user with a dead link (#15803, c7eb8c52)

Documentation

- doc change for updated memory specs (#16427, e3b1057f)
- Fix README references to YARD and praise (#15669, 4e21fa41)
- Fix broken link in the README (#15609, 1a6e0477)
- katello disconnected instructions fail to work due to vhost configuration (#15702, 3913669a)

GPG Keys

• Inconsistent with capitalization of GPG keys across navigation, page title, and button (#16409, e77758e2)

Errata Management

• Environment and content view not displayed for content host (#16399, d157380f)

- dashboard latest errata shows untranslated strings (#15929, 3f888f37)
- Cannot apply large sets of errata on errata page because the host search returns a 414 (#15376, d099e609)
- Incremental Update fails with –update-all-systems (#16232, d715a3f1)

Client/Agent

- Removing katello-ca-consumer rpm should revert rhsm.conf (#16388, 8d75e8c8)
- Large virt-who json may cause performance issue (#16228, a0ec0f2b)
- calling enabled_repos always forces an errata applicability regeneration (#16209, 184c966c)
- provide option to delete host with subscription-manager unregister (#15455, 71bf4797)
- Re-Registering host with uppercase hostname errors 'Name has already been taken' (#15891, 54e881bf)
- Facts updated twice by checkin (#16368, fb6aaf92)
- unable to process virt-who data, fails with error: "Validation failed: Name is invalid, Name is invalid" (#16248, fdecd6dc)

Web UI

- Content host detail page says "RAM (GB): 1024 MB" which is bit confusing ("GB" vs. "MB") (#16370, 21c9750b)
- Update All button is grayed out unless a package is selected. (#16341, 2062d106)
- Javascript tests are failing on Jenkins (#16282, 11d70ff4)
- Make manifest upload link on RH repositories page point to the actual manage manifest page. (#16078, 069e742a)
- Search functionality stop to work after selecting Activation Key Association tab (#16033, 8ec1a101)
- Free up space in content view version UI (#15986, 4c02361b)
- Red Hat Repositories page not loading (#15832, a6008343)
- Cron weekly katello-remove-orphans warnings sending mail (#15823, 0b7806c6)
- Handle 'use latest' correctly when removing puppet modules from CVs (#15817, 8de4f8a9)
- Update katello details page to use bastion nutupane action panel loading screen (#15545, 1de7a9dd)
- Content host details page should be explicit about unregistered clients (#15456, e550e639)
- When search results is zero, message returned is misleading (#14271, 20bac1b0)
- guest subscriptions have incorrect link to hypervisor (#14218, 6eaa32d8)
- no change in status color when assigning subscription to content host (#12569, d31947e0)

API

- Error undefined method inject' for nil:NilClass when no subscriptions are provided to bulk add/remove APi (#16369, d684dd81)
- /api/v2/hosts/:id does not expose content_source_id (#15697, e6a7ba59)
- Do not require organization_id when searching in content_views#index and katello/environments#index (#15672, b2640c53)
- API ping don't return information for foreman_auth service (#15582, 95d7b906)
- API Missing route /organizations/:orgid/repositories to list all repos in an organization (#15487, 1de1c034)
- full_results parameter is improperly defined in the API documentation (#15420, 49469e2e)

Hosts

- Breaking change in inherited_attributes method (#16359, f4dae3ca)
- strong params filter incorrect for subscription_facet_attributes cannot update hypervisor_guest_uuids or installed_products (#16173, c282e562)
- Unregistering a Content Host can pause ListenOnCandlepinEvents with Candlepin::Consumer: 410 Gone error (#16170, 883c8066)
- visiting new host page has js error of "KT is not defined" (#15512, 2ab1d40b)
- Helper rake tasks not fully updated for Host Unification and Scoped search (#15721, 5f624ad3)

Content Views

- Unpublished content views displayed in the content view list on the composite content view page [Web/UI] (#16346, eb439b09, a5ccff01)
- Do not wrap description field in the Content View version listing (#16331, 1e332614)
- The "Remove View" button for deleting a content view should say "Delete View" to match the confirmation submit button (#16271, b5e80512)
- User shouldn't be allowed to add same package in content-view filter repeatedly (#16186, a43dc492)
- Probably should condense the list of puppet modules (and maybe other associations) for content view info (#15987, dd4aaadf)
- Cannot delete a RedHat Product or Products with Repositories published in a Content View error does not help user (#15811, 63d1d08f)
- hammer content-view version list ignores –organization{-id} options (#15796, 8e39aac8, c2956945)
- Not able to select/publish "Use Latest Version" of puppet module in content view (#15579, 57eaec9b)

Atomic

• Containers hosted on Atomic host not able to access Katello yum repos (#16343)

Foreman Integration

- need script to unify hosts with shortname and fqdn (#16270, 3fb17a34)
- Remove System and Hypervsior models/controllers/tests/actions (#12556, f5dcf970, df4bc4d7, 440b51d5, 37fa1d79)

Tests

- Tests are failing with 'LoadError: cannot load such file polyglot' (#16213, 1ce49302)
- Test failures under Rails 4.2.7.1 (#16088, db95d867)
- Reduce warnings when running katello tests (#15588, 4e5d97dc)
- katello_fixtures directory not cleaned up in /tmp (#15042, f3713906)

Activation Key

• attaching subscription to an activation key causes UI error (#16189, db12c23b)

Capsule

- Update Katello to synchronize puppet content to capsule based on capsules puppet path. (#16456, c7a3b4f1)
- Capsule auto-synchronization fails with an error 'PLP0034' (Katello::Errors::PulpError) after publishing content view on satellite 6.2.0 (#16177, fd79377c)
- Pulp storage error (#16064, 2bb06e19)

Subscriptions

- Add API Bulk Actions for add/remove/auto-attach subscriptions (#16038, e51d11fe)
- hammer activation-key add-subscription/host subscription attach must accept pool ids (#16036, a66ae300)
- Package upload action logs whole input as Parameters (#15940, 59e9f514)

Docker

- Enable katello docker registries to use other ports (#16037, 7be5d7f2)
- docker tag view page shows empty alert (#15759, a78a3ee8)

Tooling

• Carry patched version of urrlib3 for lazy sync (#15982, b60f4e83)

Upgrades

- upgrade_check fails because of running tasks (#15945, a0aeaa25)
- Apache has 7x number of open files on capsule with satellite 6.2 compare to satellite 6.1 (#15841, b4ed05ec)
- upgrade_check does not correctly determine active tasks (#15694, d12e6e67)
- update_subscription_facet_backend_data step fails on upgrade (#16117, dfa26d40)
- hypervisors are deleted upon upgrade to 3.0 (#15726, 93a2d186)
- Error rendering info message in migration due to missed escaping (#15683, 70e6cf78)
- Upgrade from Katello 3.0 to Katello 3.1 fails on apipie:cache task (#16441, a812f1f1)

Dashboard

•

Content dashboard has wrong links to [InvalidInsufficientCurrent] Subscriptions (#15941, 73cc4243)

Candlepin

- Katello not receiving messages from candlepin (#15727, 72ad0375)
- virt-who checkin should use default org view and should not overwrite existing registration (#15725, 6a9661b5)
- Deleting a product with multiple repos results in candlepin error (#15482, 7e64292a)
- undefined method [] for nil:NilClass related to activation_key pool association (#15749, 946f3c77)
- VDC guest subscriptions showing as null in activation key (#16398, fe268976)

Roles and Permissions

• 03-roles.rb seeds katello view_* filters for Viewer role multiple times (#15427, 7c71d45d)

Pulp

- Out of Memory error while syncing repo (#15101)
- incremental export should be in same format as full export (#14915, b261110a)
- Users should be warned during upgrade of long running Pulp migrations (#15660, ba43845f)
- Errata Install to Content Host takes too long and doesn't scale well (#15366, ab45b88e)

Orchestration

- ListenOnCandlepinEvents pauses during manifest import (#15648, 66e98cb7)
- katello 3.0 RC failing content promotion but can be resumed manually (#15428)

Other

- Cannot create new hostgroup via API/CLI (#16484, 5608b835)
- katello-installer exclude build dirs from from rubocop checking (#16469, 1e99296f)
- Large files can't be uploaded through content upload APIs (#16429, 68c5d7d1)
- katello-service tool is missing smart_proxy_dynflow_core (#16373, d323d1c3)
- Cannot create new organization via the web ui (#16304, f867be09)
- Add description of remove-content to hammer repository help (#16247, 28ba5d4f)
- Incorrect Next Sync date calculation in weekly Sync Plan (#16035, 08e85148)
- Adjust coverage settings in Katello (#15998, 6fce27a8)
- Autocomplete is not working. (#15917, 6c5b6f1e)
- Content view version in progress tasks should take me to the task itself (#15892, 935afb3f)
- capsule pulp disk usage is not available on rhel6 (#15673, 71b1a3b4)
- New hammer host-collection hosts command does not expose any options (#15429, 8a8057e2)
- Add a Readme for test/data directory on how to generate JSON api (#15305, 1e876e57)
- migrate_content_hosts fails with unique constraint violation (#16137, 7c6a0017)
- No proper subscriptions created for custom products (#15981, 54c453cd)
- Migrate shouldn't ping backends when there are no systems present (#15826, f70b73a8)
- sync and publish emails are never sent (#16303, 319c4650)

Deprecation Warnings

• host status .relevant? deprecation warning (#15398, 6cc8e2f6)

Contributors

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HOME
GET STARTED 🗸
GET HELP 👻
GET INVOLVED -
NEWS -

3.2 💌

1. Installation

1.1 Katello

1.2 Capsule

1.3 Clients

2. Upgrade

2.1 Katello

2.2 Capsule

2.3 Clients

2.4 Puppet

3. Release Notes

4. CLI

5. User Guide

5.1 Activation Keys

5.2 Backup

5.3 Capsules

5.4 Content

5.5 Content Hosts

5.6 Content Views

5.7 Disconnected

5.8 Docker Management

5.9 Email Notifications

5.10 Errata

5.11 Glossary

5.12 GPG Keys

5.13 Host Collections

5.14 Lifecycle Environments

5.15 Provisioning

5.16 Puppet Integration

5.17 Red Hat Content

6. Troubleshooting

Hammer

What is the CLI?

The Hammer CLI provides users with a command-line interface for interacting with Katello. It's our goal to make all

functionality that's accessible through Katello's Web UI also available through Hammer so that users may use Hammer for their entire Katello workflow.

Installation

The first step to install the CLI is to setup the appropriate repositories: foreman, katello and epel.



After setting up the appropriate repositories, install Katello:

yum -y install rubygem-hammer_c	li_katello

How do I use Hammer?

To get started with hammer, view the help:

hammer -u <user> -p <password> --help

How do I contribute to Hammer?

See the Katello Hammer CLI project if you want to get setup for contributing to the hammer code.

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GET HELP 👻
GET INVOLVED 🗸
NEWS ~

3.2 🔻

1. Installation

1.1 Katello

1.2 Capsule

1.3 Clients

2. Upgrade

2.1 Katello

2.2 Capsule

2.3 Clients

2.4 Puppet

3. Release Notes

4. CLI

5. User Guide

5.1 Activation Keys

5.2 Backup

5.3 Capsules

5.4 Content

5.5 Content Hosts

5.6 Content Views

5.7 Disconnected

5.8 Docker Management

5.9 Email Notifications

5.10 Errata

5.11 Glossary

5.12 GPG Keys

5.13 Host Collections

5.14 Lifecycle Environments

5.15 Provisioning

5.16 Puppet Integration

5.17 Red Hat Content

6. Troubleshooting

Activation Keys

Activation Keys provide a mechanism to define properties that may be applied to Content Hosts during registration. This includes properties such as:

• Lifecycle Environment

- Content View
- Subscriptions
- Repository Enablement
- Host Collections

Definitions

- Content Host
- Host Collection A statically defined group of Content Hosts.
- Subscription The right to receive the associated content from Katello.

General Features

The following is a high-level summary of the Activation Key features:

- Create an Activation Key
- Add subscriptions to an Activation Key
- Change repository enablement for an Activation Key
- Add Host Collections to an Activation Key
- Register a Content Host using an Activation Key

Create an Activation Key

To create a new key,

- navigate to: Content > Activation Keys
- click New Activation Key

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Default_Organi	ization - Monitor -	Content -	Hosts +	Configure -	Infrastructure -	Administer 🗸
Activation Keys						
Search	Q Showing 0 of 0 (0	Total)				+ New Activation Key
Name	New Activatio	on Key				× Close
	Name*	research				
	Content Host Limit	Unlimited Conter	it Hosts: 🕑			
	Description	This is the activation	on key used by th	e research departme	nt.	
	Environment	Library	🔲 dev	🔲 test		
	Content View	Default Organizati	on View		¥	

- Name: This required option is used to identify the activation key to command line tools, such as subscription-manager.
- *Content Host Limit*: This option will control how many Content Hosts may be registered using the key. An "unlimited" value will not place any limits on usage. Specifying a quantity will limit the number of registered content hosts. Registering with an activation key consumes one of the available limit quantity, while unregistering makes it available again. (i.e. this quantity is not a usage counter but a limit of actively registered content hosts)
- Description: A free form text field that can be used to store a description of the key for later reference or for pseudo-

tagging that can be used to search.

• *Environment* and *Content View*: Although optional, at least one activation key used during registration must specify a content view. Activation keys are used in the order specified to *subscription-manager* meaning the last activation key with a content view takes precedence.

The following example would use CV_B's content view:

subscription-manager register --org Default_Organization --activationkey NO_CV --activationkey CV_A --activationkey CV_B

Or equivalently:

subscription-manager register --org Default_Organization --activationkey NO_CV,CV_A,CV_B

For registration to succeed, at least one activation key must be successfully applied. For an activation key to succeed, at least one of the listed subscriptions must be successfully attached to the registering content host.

Add Subscriptions to an Activation Key

To add subscriptions to a key:

- navigate to: Content > Activation Keys
- select the desired key from the list
- click Subscriptions
- click Add
- select the Subscriptions you would like to add
- click Add Selected

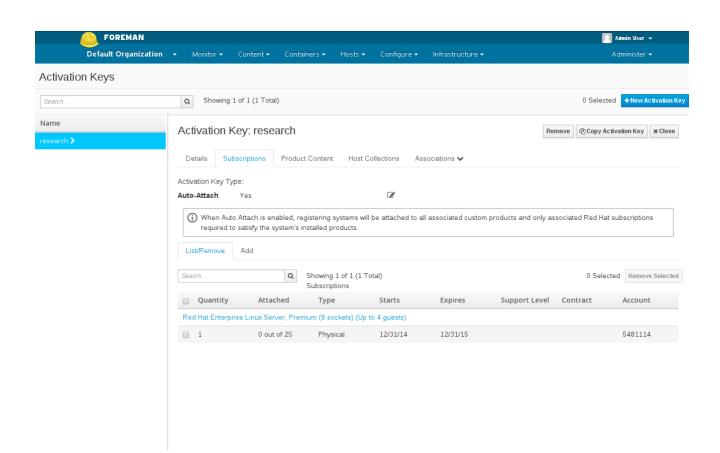
The Auto-Attach setting controls how the group of subscriptions are processed during registration.

When 'Auto-Attach' is enabled but no subscriptions are added to the activation key, subscriptions will be automatically added to cover the installed products. This is equivalent to passing the '–auto-attach' flag to the subscription-manager command:

subscription-manager register --org=Default_Organization --auto-attach

When 'Auto-Attach' is enabled and subscriptions are listed for the activation key, two things will happen. First all subscriptions for custom products will be attached to the registering content host. Second, the group of Red Hat subscriptions will be attached as needed to cover the content host's installed Red Hat products. This is most commonly used when there is a group of similar subscriptions (eg. several Red Hat Enterprise Linux from different contracts, or guest subscriptions from different hypervisors) and which one used is not important. Katello's subscription tooling, Candlepin, will automatically choose the minimal proper subscriptions from the group.

Finally, when 'Auto-Attach' is disabled, all subscriptions on the activation key will attached to the registering content host, regardless of whether needed to cover an installed product or not. For example, adding an OpenStack Platform subscription would then allow that product to be installed after registration.



Change Repository Enablement for an Activation Key

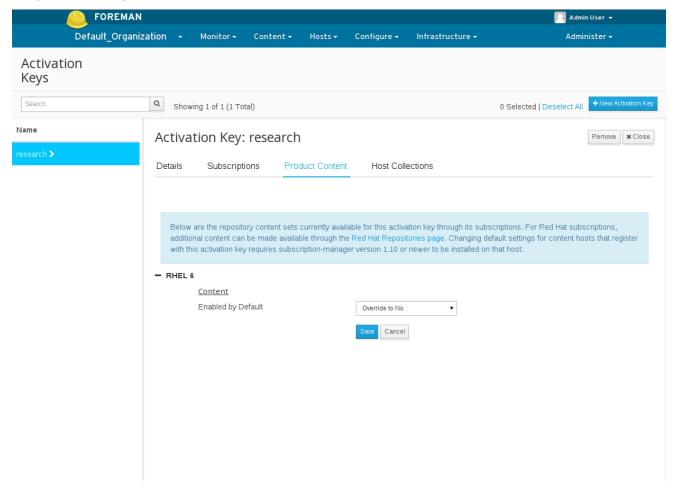
To change repository enablement settings using a key:

- navigate to: Content > Activation Keys
- select the desired key from the list
- click Product Content
- click the edit icon for the repository content set that you would like to modify
- select the desired value (e.g. 'Override to Yes', 'Override to No', 'Defaults to Yes', 'Defaults to No')
- click Save

View current settings:

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Activation Keys							
Search	۹ Showin	g 1 of 1 (1 Tota	al)				0 Selected Deselect All
Name	Activat	ion Key:	research				Remove × Close
research >	Details	Subscriptio		luct Content	Host Colle	ections	
	addition	al content can l	be made availab	ole through th	e Red Hat Reposit		ubscriptions. For Red Hat subscriptions, default settings for content hosts that register on that host.
		<u>Content</u> Enabled by De	fault		Defaults to Yes	ľ	

Change current settings:



Add Host Collections to an Activation Key

To add Host Collections to a key:

- navigate to: Content > Activation Keys
- select the desired key from the list
- click Host Collections
- click Add
- select the Host Collections you would like to add
- click Add Selected

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		🗹 developr						0 / Unlimited	
		🔲 finance						0 / Unlimited	
		🗹 research	1					0 / Unlimited	

Register a Content Host using an Activation Key

The simplest form of registering a content host with an activation key is this:

subscription-manager register --org=Default_Organization --activationkey=\$KEY_NAME

Click here for more information

Note that modifying an activation key does not change anything on content hosts previously registered with the key.

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NEWS -

3.2 🔻

- 1. Installation
 - 1.1 Katello
 - 1.2 Capsule
 - 1.3 Clients
- 2. Upgrade
 - 2.1 Katello
 - 2.2 Capsule
 - 2.3 Clients
 - 2.4 Puppet
- 3. Release Notes
- 4. CLI
- 5. User Guide
 - 5.1 Activation Keys
 - 5.2 Backup
 - 5.3 Capsules
 - 5.4 Content
 - 5.5 Content Hosts
 - 5.6 Content Views
 - 5.7 Disconnected
 - 5.8 Docker Management
 - 5.9 Email Notifications
 - 5.10 Errata
 - 5.11 Glossary
 - 5.12 GPG Keys
 - 5.13 Host Collections
 - 5.14 Lifecycle Environments
 - 5.15 Provisioning
 - 5.16 Puppet Integration
 - 5.17 Red Hat Content
- 6. Troubleshooting

Backup

In the following sections, these assumptions are being made with respect to making the backup:

- /tmp/backup will be used as the target for backups
- All commands are executed as root

Option One: Offline repositories backup

By default, the whole Katello instance will be turned off completely for the entire backup.

katello-backup /tmp/backup

Option Two: Online repositories backup

Backing up the repositories can take an extensive amount of time. You can perform a backup while online. In order for this procedure to succeed, you must not change or update the repositories database until the backup procedure is complete. Thus, you must avoid publishing, adding, or deleting content views, promoting content view versions, adding, changing, or deleting sync-plans, and adding, deleting, or syncing repositories during this time. To perform an online-backup of the repositories, run:

katello-backup --online-backup /tmp/backup

Option Three: Skip repositories backup

There may be situations in which you want to see a system without its repository information. You can skip backing up the Pulp database with the following option:

katello-backup --skip-pulp /tmp/backup

Please note you would not be able to restore a Katello instance from a directory where the Pulp database was skipped.

Option Four: Incremental backup

Incremental backups can be used to only store the changes since the last backup:

First take a full backup:

katello-backup /tmp/backup/full

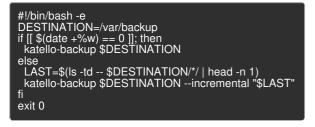
Take 1st incremental backup

katello-backup /tmp/backup/incremntal1 --incremental /tmp/backup/full

Take 2nd incremental backup

katello-backup /tmp/backup/incremntal2 --incremental /tmp/backup/incremntal1

An example with full backup on Sunday and incremental backup for all other weekdays would look like:



Final check-up

After a successful backup, the backup directory should have the following files:



Additionally, if you ran the backup without skipping the Pulp database, you will see the additional file:

pulp_data.tar

Katello instance should be up and running. Next chapter is dedicated to restoring a backup.

Restore

Full restore

All the following commands are executed under root system account.

Please note only backups that include the Pulp database can be restored. To verify that your backup directory is usable, make sure it has the following files:



Once verified, simply run:

katello-restore /tmp/backup

This command will require verification in order to proceed, as the method will destruct all databases before restoring them. Once the procedure is finished, all processes will be online, and all databases and system configuration will be reverted to the state and the time of the backup.

Check log files for errors, such as /var/log/foreman/production.log and /var/log/messages .

Incremental restore

Incremental backups need to be restored sequentially starting with the oldest:

katello-restore /tmp/backup/full
katello-restore /tmp/backup/incremntal1
katello-restore /tmp/backup/incremntal2

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Katello 3.2 Documentation

3.2 🔻

1. Installation

1.1 Katello

1.2 Capsule

1.3 Clients

2. Upgrade

2.1 Katello

2.2 Capsule

2.3 Clients

2.4 Puppet

3. Release Notes

4. CLI

5. User Guide

5.1 Activation Keys

5.2 Backup

5.3 Capsules

5.4 Content

5.5 Content Hosts

5.6 Content Views

5.7 Disconnected

5.8 Docker Management

5.9 Email Notifications

5.10 Errata

5.11 Glossary

5.12 GPG Keys

5.13 Host Collections

5.14 Lifecycle Environments

5.15 Provisioning

5.16 Puppet Integration

5.17 Red Hat Content

6. Troubleshooting

Capsules

What are Capsules?

The Capsule server is a Katello component that provides federated services to discover, provision, control, and configure hosts.

Each Katello server includes a Default Capsule, and you may deploy additional Capsules to remote data centers. A Capsule server provides the following features:

- Content features, including:
 - Repository synchronization
 - Content delivery
 - Host action delivery (package installation updates, etc)
 - Subscription management proxy (RHSM)
- Foreman Smart Proxy features, including:
 - DHCP, including ISC DHCP servers
 - DNS, including Bind and MS DNS servers
 - Realm, including FreeIPA
 - Any UNIX-based TFTP server
 - Puppet Master servers
 - Puppet CA to manage certificate signing and cleaning
 - Baseboard Management Controller (BMC) for power management
 - Provisioning template proxy

The Katello Capsule server is a means to scale out the Katello installation. Organizations can create various capsules in different geographical locations. These are centrally managed through the Katello server. When a Katello user promotes content to a particular environment, the Katello server will push the content to each of the Capsule servers subscribed to that environment. Hosts pull content and configuration from the Katello Capsule servers in their location and not from the central server.

In a fully configured capsule, communication is completely isolated between hosts and the Katello server.

How do Capsules differ from Smart Proxies?

A Katello Capsule is a Foreman Smart Proxy with the addition of content-related services.

Deployment

In the simplest use case, a user may only want to use the Default Capsule. Larger deployments would have a single Katello server with multiple Capsules attached, with these remote Capsules deployed to various datacenters. Capsules can also be used to scale the number of hosts attached to a single Katello server.

Installation

See Capsule Installation

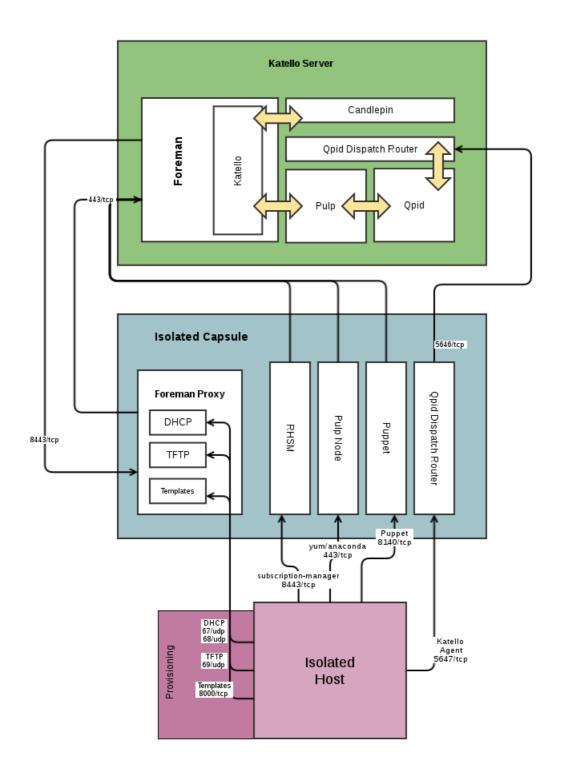
Removal

To stop all services and remove all Katello and Foreman related packages, run the following command as root on the capsule:

capsule-remove

Capsule Isolation

The goal of Capsule Isolation is to provide a single endpoint for all of a client's communication, so that in remote network segments, you need only open Firewall ports to the Capsule itself. The following section details the communication clients need to have with a Capsule. The installation options mentioned are the default starting with Katello 2.2.



Content and Configuration Services

There are five primary areas that require client communication:

1 - Content Delivery

That is, yum. Katello Capsules by default have the Pulp feature, which mirrors content for the selected Lifecycle Environments. Install Option:

• --pulp=true

Required Connectivity:

• Clients need to be able to communicate with the Capsule on port 443/tcp.

2 - Katello Agent

The Katello agent is a goferd plugin which allows you to schedule remote actions on hosts such as package installation, updates, etc. A capsule must be running the Qpid Dispatch Router service for this feature to work.

Install Option:

--qpid-router=true

Required Connectivity:

• Clients need to be able to communicate with the Capsule on port 5647/tcp

3 - Puppet & Puppet CA

By default, the Puppet CA feature on the Capsule is an independent CA which will manage the certificates for all the clients registered against the Capsule. Simply select the Puppetmaster and Puppet CA to be the Capsule when creating a host.

Install Option:

• --puppet=true --puppetca=true .

Required Connectivity:

• Clients need to communicate with the Capsule on port 8140/tcp.

4 - Subscription Management

Content Hosts utilize Subscription Manager for registration to Katello and enabling/disabling specific repositories.

Install Option:

• --reverse-proxy=true

Required Connectivity:

• Clients need to talk to the Capsule on port 8443/tcp.

5 - Provisioning Services

When provisioning a host using DHCP/PXE, you will need, at a minimum, the TFTP feature enabled on the capsule, and a DHCP server available. While not required, the Capsule can provide the DHCP service. In order for the installer to obtain its kickstart template from the Capsule, you should enable the templates feature.

If a TFTP proxy has the Templates feature as well, Foreman will automatically make the communication isolated. Your clients need to talk to the Capsule on port 67/udp and 68/udp for DHCP, 69/udp for TFTP, and 8000/tcp for Templates.

Consult the installer's --help for the full range of provisioning options.

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Katello 3.2 Documentation

3.2 🔻

1.1 Katello

1.2 Capsule

1.3 Clients

2. Upgrade

2.1 Katello

- 2.2 Capsule
- 2.3 Clients
- 2.4 Puppet
- 3. Release Notes
- 4. CLI
- 5. User Guide
 - 5.1 Activation Keys
 - 5.2 Backup
 - 5.3 Capsules
 - 5.4 Content
 - 5.5 Content Hosts
 - 5.6 Content Views
 - 5.7 Disconnected
 - 5.8 Docker Management
 - 5.9 Email Notifications
 - 5.10 Errata
 - 5.11 Glossary
 - 5.12 GPG Keys
 - 5.13 Host Collections
 - 5.14 Lifecycle Environments
 - 5.15 Provisioning
 - 5.16 Puppet Integration
 - 5.17 Red Hat Content
- 6. Troubleshooting

Content

Katello can currently host two different types of content, RPMs and puppet modules. RPMs and Puppet Modules can be synced from an external resource or can be uploaded directly.

The advantages to using Katello to mirror your local content are:

- Reduce bandwith usage and increase download speed by having client machines pull updates from Katello
- Provision hosts using local Repositories covered HERE TODO
- Customize content locally, covered HERE TODO

Definitions

- Repository Collection of content (either RPM or puppet)
- Product Collection of Repositories, Content Hosts subscribe to a product
- Library A special pre-created Lifecycle Environment where Repositories are created and content is synced or uploaded to. A Content Host can subscribe to library and receive content as soon as the content is synced or uploaded.

Creating a Product

From the web UI, navigate to:

Content > Products > New Product (top right)

New Product ×				- • ×
🚱 →> 🥃 🗋 192.168.122.	75:3000/katello/product	ts#/products/new		☆ ⊌ 🗞 🗉
FOREMAN				📃 Admin User 👻
MyCompany - Moni	tor 👻 Content 👻 Hosi	ts ▼ Configure ▼ Infrastructure ▼		Administer 🗸
Products				
Search	Q Showing 0 of 0 (0	Total)	0 Selected Deselect All	Discovery How Product
📄 Name	New Product			¥ Close
	Name*	Epel		
	Label*	Epel		
	GPG Key		•	
	Sync Plan	+ New Sync Plan	T	
	Description			
		Cancel Save		

Creating a Repository

From the web UI, navigate to:

Content > Products > Select desired product > Create Repository (right hand side)

Note the following options:

- Publish via HTTP: allows access to the Repository without any restriction. Unless you desire to restrict access to your content in this Repository, we recommended to leave this checked.
- URL: If you are syncing from an external Repository (yum or puppet), this would be filled in. This can be changed, added, or removed later. For example if you are wanting to create a mirror of EPEL, you would set this to 'https://dl.fedoraproject.org/pub/epel/6/x86_64/'.

🔒 New Repository 🛛 🗙				
🚱 🛷 🥃 🗋 192.168.12	2.75:3000/katello/product	s#/products/127/repositories/new		☆ ಅ 🗞 =
6 FOREMAN				🎦 Admin User 👻
MyCompany 👻 мо	onitor - Content - Host	s → Configure → Infrastructure →		Administer 🗸
Products				
Search	Q Showing 1 of 1 (1	Fotal)	0 Selected Deselect All	Discovery Hew Product
🔲 Name	Product Epel			Remove Product Close
🔲 Epel 🗲				
	Details Repositor	ies Tasks		
	« Add New Reposito	bry		
	Name*	Epel x86_64		
	Label*	Epel_x86_64		
	Type*	yum		
	URL	http://download-i2.fedoraproject.org/pub/epel/6/x86_64/		
	Publish via HTTP			
	GPG Key		•	
		Cancel Save		

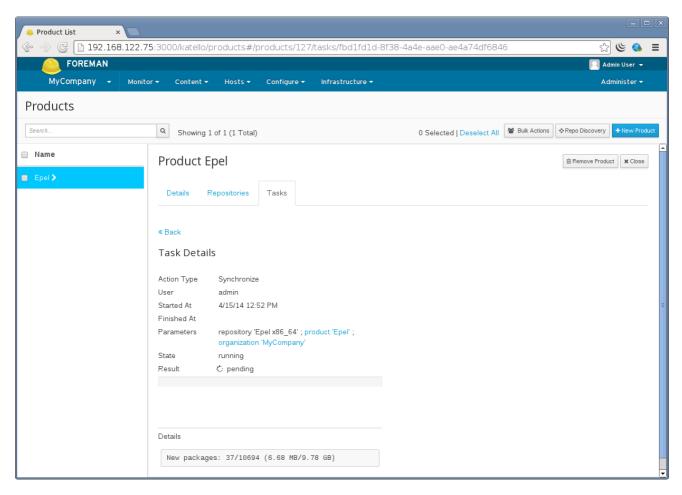
Syncing a Repository

From the web UI, navigate to:

Content > Products > Select desired product > Select the Repository > Sync Now

Repository: Epel x86_6 × 8 0 C 192.168.12	2.75:3000/katello/r	products#/products/127/repositories/80		 දූ ල 🗞
FOREMAN				Admin User 🚽
	onitor 👻 Content 👻	Hosts 🔹 Configure 👻 Infrastructure 👻		Administer 🗸
Products				
Search	۹ Showing 1	. of 1 (1 Total)	0 Selected Deselect	t All Bulk Actions Arepo Discovery + New Product
Name	Product E	·		Remove Product X Close
	« Back to Repo Basic Informati Name Label		Content Counts Content Type	C Sync Now Remove Repository
	Type URL	yum http://download- i2.fedoraproject.org/pub/epel/6/x86_64/ 🕼	Packages Errata	0
	Publish via HTTPS Publish via	true	Package Groups	0
	HTTP Published At	http://centos.installer/pulp/repos/MyCompany/ Library/custom/Epel/Epel_x86_64		
	GPG Key Sync Status	ß		

The progress will be displayed:



Syncing multiple repositories

To easily sync multiple repositories at once and track their progress, navigate to:

Content > Sync Status

From here you can expand the desired products, and select multiple repositories to sync.

ository: Epel x86_6 ×	🖲 Sync Sta	itus	×						-
	ersys.redha	at.com:3000)/katello/sy	/nc_managem	nent#!=) ٹ ا
FOREMAN									📃 Admin Usei
MyCompany 👻	Monitor -	Content 👻	Hosts 🕶	Configure 👻	Infrastructure	-			Administe
Sync Statu	IS			Collapse A	All Expand Al	I Select None	Select All	Only show syncing].
PRODUCT		ST	ART TIME		DURATION	SIZE (F	ACKAGES)	RES	SULT
▼ Epel						0 Bytes			
🗹 Epel i386						0 Bytes	(0)		
🗹 Epel x86_64						0 Bytes	(0)		
									Synchronize N
									Synchronize

Uploading RPM Content

Uploading RPM content directly is not currently supported. You will need to build a custom yum Repository. TODO Provide instructions on creating a custom yum repo

Uploading Puppet Content

To upload puppet modules, first create a Repository with type puppet (similarly to creating a yum Repository above):

New Repository ×				
🚱 🛷 🥃 🗋 abed.user	sys.redhat.com:3000/katell	lo/products#/products/175/reposit	ories/new	☆ ৬ 🗞 🗉
FOREMAN				🌅 Admin User 👻
MyCompany 🗸 I	Monitor 🕶 Content 🕶 Host	:s ▼ Configure ▼ Infrastructure ▼		Administer 👻
Products				
Search	Q Showing 2 of 2 (2	Total)	0 Selected Deselect All	Repo Discovery Hew Product
🔲 Name	Product Config	guration		⊞ Remove Product
Configuration >				
Epel	Details Repositor	ies Tasks		
	« Add New Reposito Name* Label* Type* URL Publish via HTTP GPG Key	Puppet Puppet Puppet		

When creating this Repository the URL field can be left blank.

Puppet modules can be uploaded via the Web UI, navigate to:

Content > Repositories > Products > Select desired Product > Select desired Puppet Repository > Select file on the right

🐣 Repository: Puppet 🛛 🗙 🦲			
🚱 💮 🥃 🗋 abed.usersys.	.redhat.com:3000/katello/p	products#/products/175/reposite	pries/30 😪 😫
FOREMAN			🌅 Admin User 👻
MyCompany - Monit	tor → Content → Hosts →	Configure 👻 Infrastructure 👻	Administer 👻
Products			
Search	Q Showing 2 of 2 (2 Tota	al)	0 Selected Deselect All 🛛 🖉 Bulk Actions 🗍 💠 Repo Discovery 🕇 New Product
📄 Name	Product Configu	ration	Remove Product X Close
Configuration >	Details Repositories	Tasks	
Epel		1 (355)	Sync Now Remove Repository
	Basic Information		Content Counts
	Name Puppet		Content Type
	Label Puppet		=
	Type puppet URL	đ	Puppet Modules 0
	Publish via true HTTPS		
	Publish via HTTP	I	Upload Puppet Module
	Published At http://loca	lhost/pulp/repos/MyCompany/Librar Configurati/Puppet	Choose File No file chosen Upload
	GPG Key	đ	
	Sync Status		
	All dates and times belo	w are relative to this server.	

Subscribing a System to a Product for yum content

To read about registering systems and subscribing them to the Product click TODO.

Scheduling Repository Synchronization

Sync plans give you the ability to schedule Repository synchronization on a hourly, daily or weekly basis. Sync Plans are applied to Products and thus all Repositories within a Product will be synchronized according to the products plan.

Creating a Sync Plan

If you would like to schedule certain repositories to sync on a hourly, daily or weekly basis, Sync Plans give you this capability.

To create a Sync Plan, navigate to:

Content > Sync Plans > click "New Sync Plan" on the upper right

The *Start Date* and *Start Time* fields are used as the day of the week/month and time of the day to run the re-occuring syncs.

For example a sync plan that starts on Sunday 2014-04-06 at 2:30 will occur every Sunday at 2:30 every week if it has a weekly interval. If on a daily interval it would sync every day at 2:30.

🔒 New Sync Plan 🛛 🗙 💽		- O X
📀 📎 🥃 🗋 abed.usersys.redhat.com:300	0/katello/sync_plans#/new	යි ම 😵 ≡
		🎦 Admin User 👻
MyCompany - Monitor - Content -	Hosts ▼ Configure ▼ Infrastructure ▼	Administer 🗸
Sync Plans		
Search Q Showing	of 0 (0 Total)	0 Selected Deselect All 🕘 New Sync Plan
New Synd	Plan	¥ Close
	Name* Weekly Sync	
Des	sription	
		4
	weekly	•
Sta	t Date* 2014-04-06	
Start Time (-0400	GMT)*	
	02 : 30	
	Cancel Save	

Assigning a Sync Plan to a Product

Navigate to:

Content > Sync Plans > Select your Sync Plan > Products > Add

Then select the Products you want to add and click "Add Selected" in the upper right.

🐣 Sync Plans 🛛 🗙 📃				
🚱 📎 🧭 🗋 abed.usersys.	redhat.com:3000/katello/sync_pla	ans#/sync-plans/2/produ	cts/add	☆ ৬ 🗧
FOREMAN				📃 Admin User 👻
MyCompany 👻 Monit	or	figure 👻 Infrastructure 👻		Administer 🕶
Sync Plans				
Search	Q Showing 1 of 0 (0 Total)			0 Selected Deselect All New Sync Plan
🔲 Name	Sync Plan Weekly Sync	:		Remove Sync Plan X Close
Weekly Sync >				
	Details Products			
	Product Management List/Remove Add			
	Filter			1 Selected Deselect All Add Selected
	🗌 Name	Description	Sync Status	Repositories
	Configuration		Never synced	1
	🖉 Epel			2

GPG Keys

To learn about securing your packages and Repositories with GPG Keys click here. TODO

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NEWS ~

Katello 3.2 Documentation

3.2 🔻

1. Installation

1.1 Katello

1.2 Capsule

1.3 Clients

2. Upgrade

2.1 Katello

2.2 Capsule

2.3 Clients

2.4 Puppet

3. Release Notes

4. CLI

5. User Guide

5.1 Activation Keys

5.2 Backup

5.3 Capsules

5.4 Content

5.5 Content Hosts

5.6 Content Views

5.7 Disconnected

5.8 Docker Management

5.9 Email Notifications

5.10 Errata

5.11 Glossary

5.12 GPG Keys

5.13 Host Collections

5.14 Lifecycle Environments

5.15 Provisioning

5.16 Puppet Integration

5.17 Red Hat Content

6. Troubleshooting

Content Hosts

What is a Host?

A Host is a Foreman concept that represents a server/host/system/computer (whatever you want to call it). In addition to

holding facts about the system, it:

- Stores which operating system the system should be running
- Stores which puppet classes should be assigned
- Stores which parameters apply to which puppet classes
- Allows you to re-provision the machine

What are Content Hosts?

Content Hosts are the part of a host that manages Content and Subscription related tasks. As time goes on more and more of this functionality will be moved to the Host object. A Host's Content Host:

- Stores which Products are assigned (i.e. which Repositories will the system pull content from)
- Initiates package install/upgrade/removal
- Determines which errata apply to a system
- Initiates errata installation

How is a Content Host registered?

Subscription Manager is the client for Katello that handles registration.

Installing Subscription Manager

Depending on your Operating System, for:

- RHEL, subscription-manager is installed by default
- Fedora, subscription-manager is available from the Everything repo for its release: yum install subscription-manager
- CentOS 7, subscription-manager is available in the 'os' repo for its release: yum install subscription-manager
- CentOS 5/6, enable the upstream subscription-manager repo and then install subscription-manager (be sure to change '6' to '5' if you're on EL5, as the version from 6 will not work):

wget -O /etc/yum.repos.d/subscription-manager.repo http://copr.fedoraproject.org/coprs/dgoodwin/subscription-manager/repo/epel-6/dgoodwin-subscription-manager-epel-6.repo

yum install subscription-manager -y

Registering with Subscription Manager

First install the bootstrap rpm from your Katello server:

rpm -Uvh http://\$KATELLO_HOSTNAME/pub/katello-ca-consumer-latest.noarch.rpm

Then register:

subscription-manager register --org=Default_Organization --environment=Library

Subscription manager will prompt for your username and password. You can also specify --username \$USER --password \$PASS on the command line.

Registering to a Content View

To register to Content View "MyView" in a "Devel" Lifecycle Environment:

subscription-manager register --org=Default_Organization --environment=Devel/MyView

Registering without using a username and password

Activation Keys allow you to register and consume content without using a username and password. To create an Activation Key see the Activation Key Guide

Once you have created an activation key, register with:

subscription-manager register --org=Default_Organization --activationkey=\$KEY_NAME

Actions with registered Content Hosts

To see the list of your Content Hosts, navigate to Hosts > Content Hosts

						📃 Admin User 👻
	ooration - Monitor -	Content → Hosts →	Configure - Infrastructure	•		Administer 👻
Content Hosts						
Search	Q Showing	5 of 5 (5 Total)		() Selected Deselect All	Bulk Actions Register Content Host
🔲 Name	Subscription Status	os	Environment	Content View	Registered	Last Checkin
Client.devel	•	Red Hat Enterprise Linux Server 6.4		Default Organization View	7/3/14 10:02 AM	7/3/14 10:02 AM
dhcp129-73.rdu.redhat.com	•	Red Hat Enterprise Linux Server 6.5		Default Organization View	6/19/14 10:30 AM	7/10/14 12:56 PM
dhcp129-81.rdu.redhat.com	•	Red Hat Enterprise Linux Server 7.0		Default Organization View	6/18/14 3:16 PM	6/23/14 7:15 PM
testks.rdu.redhat.com	•	Red Hat Enterprise Linux Server 6.5		MyDistro	6/19/14 4:45 PM	6/20/14 4:47 PM
testks.rdu.redhat.com	•	Red Hat Enterprise Linux Server 6.5		ErrataTest	6/19/14 4:26 PM	6/19/14 4:30 PM

Changing the Lifecycle Environment and Content View of a Content Host:

Navigate to the Content Host Details page, Host > Content Hosts > Click the name of the desired Content Host

E FOREMAN		🌅 Admin User 👻
ACME_Corporation	0N + Monitor + Content + Hosts + Configure + Infrastructure +	Administer 🗸
Content Hosts		
Search	Showing 5 of 5 (5 Total) O Selected	Deselect All 👹 Bulk Actions 🗨 Register Content
Name	Content Host dhcp129-73.rdu.redhat.com	Unregister Content Host 🛛 🕱 Close
client.devel		
dhcp129-73.rdu.redhat.com >	Details Provisioning Details Subscriptions Host Collections Tasks Packages Errata	Product Content
dhcp129-81.rdu.redhat.com		
testks.rdu.redhat.com	Basic Information Content Host Content Name dhcp129-73.rdu.redhat.com Image: Content Host Content	3 ×
testks.rdu.redhat.com	UUID 2df6452c-852d-4a58-b6ac-728362f913c1 Content View Default Organiz	ation View 🕼
	Description Initial Registration Params <i>&</i> Environment Type Virtual Guest	
	Library Dev	
	Subscriptions	
	Subscription invalid Status Content Host Status	
	Details Red Hat Enterprise Linux Server - Not supported by a valid subscription. Registered 6/19/14 10:30 /	M
	Auto-Attach Yes Checkin 7/10/14 12:56 F	'M
	Service Level 🖉 🗙	
	Activation Keys None Networking	
	Hostname dhcp129-73.rdd	i.redhat.com
	IPv4 Address 10.13 129.73 Content Host Properties IPv6 Address ::1	
	OS Red Hat Enterprise Linux Server Interfaces 🕇 eth0	
	Release 2.6.32-431.el6 x86_64 + Io	

Look in the upper right corner for the "Content Host Content":

Content Host Content					
Release Version		Z ×			
Content View	Default Organization View	ľ			
Environment					
Library	Dev				
	Dev				

Then select the new Lifecycle Environment you desire, select the new Content View you desire, and click save.

Assigning a Content Host to a Product

In order for a Content Host to receive package updates and access Repositories hosted on Katello, it needs to be subscribed to a product.

Navigate to Hosts > Content Hosts > Select Content Host > Subscriptions > Click the "Add" tab

Soreman							🔍 Admin User 👻
ACME_Corporation	✓ Monitor ✓	Content - Hosts -	Configure - In	frastructure 👻			Administer 🗸
Content Hosts							
Search	Q Showing 2	0 of 35 (35 Total)			0 Selected	Deselect All	ulk Actions Register Content Host
🔲 Name	Content H	ost dhcp129-73	3.rdu.redhat.c	om			Unregister Content Host X Close
Client.devel							
dhcp129-73.rdu.redhat.com >	Details Pro	ovisioning Details Su	ubscriptions Host C	ollections Tasks	Packages Errata	Product Content	
dhcp129-81.rdu.redhat.com	Successfully	removed 1 subscriptions.					×
test1.devel.example.com							
test10.devel.example.com	Subscription Deta	ails					Run Auto-Attach
test11.devel.example.com	Status Details	 invalid Rod Hat Enterprise 	Linux Server - Not supp	orted by a			
test12.devel.example.com		valid subscription.	Linux Server - Not supp				
test13.devel.example.com	Auto-Attach Service Level	Yes		ľ			
test14.devel.example.com							
test15.devel.example.com	List/Remove	Add					
test16.devel.example.com	Search	Q	Showing 2 of 2 (2 Total)	Cubacuistiana		1 Selector	d Deselect All Add Selected
test17.devel.example.com	Quantity	Attached	Showing 2 of 2 (2 Total)	Expires	Support Loval	I Selecter	Account
test18.devel.example.com		Attached	Starts	Expires	Support Level	contract	Account
test19.devel.example.com	cds	0	ited 6/18/14	6/10/44			
test2.devel.example.com	☑ 1	0 out of Unlim	itea 6/18/14	6/10/44			
test20.devel.example.com	testProduct						
■ test21 devel example com	1	1 out of Unlim	ited 6/4/14	5/27/44			

Check the checkbox under the Products you want to add and select "Add Selected" in the upper right.

To see existing attached Products, click the "List/Remove" tab. To remove a Product, select the checkbox under the desired Product in this list and click "Remove Selected".

Package Management

To perform package actions on a singleContent Host, navigate to: Hosts > Content Hosts > Select Content Host > Packages

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Content Hosts		
Search	Q Showing 5 of 5 (5 Total)	0 Selected Deselect All 🖉 Bulk Actions 📣 Register Content H
Name	Content Host dhcp129-73.rdu.redhat.com	Unregister Content Host
client.devel	Details Provisioning Details Subscriptions Host Collections Tasks Package	s Errata Product Content
dhcp129-73.rdu.redhat.com 🕽		
dhcp129-81.rdu.redhat.com	Package Actions	
testks.rdu.redhat.com	Package Install V Package/Group Hame Perform	
testks.rdu.redhat.com		
	Installed Packages	
	Filter Showing 416 Packages	Update All
	Installed Package	Remove
	aci-2.2.49-6.el6.x86_64	O
	aic94xx-firmware-30-2.el6.noarch	Ø
	apr-1.3.9-5.el6_2 x86_64	0
	apr-util-1.3.9-3.el6_0.1.x86_64	0
	apr-util-Idap-1.3.9-3.el6_0.1.x86_64	0
	atmel-firmware-1.3-7.el6.noarch	Ø
	attr-2.4.44-7.el6 x86_64	0
	audit-2.2-4.eI6_5.x86_64	o

From here you can:

- See a list of installed packages
- Perform a yum install/update/remove of a Package or Package Group
- Update all packages (equivalent of running 'yum update')

View and Install Applicable Errata

If your synced Repositories contain Errata, you can use Katello's Errata management to track and install Errata.

Navigate to: Hosts > Content Hosts > Select Content Host > Errata

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	Default Organization + Monitor + Content +	Containers 🕶 Hosts 👻 Configu	re 👻 Infrastructure 🗝	Administer 🗸		
Content Hosts						
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Name	Content Host client.deve	l.foo6		Unregister Content Host X Close		
■ client devel foo6 > Details Provisioning Details Subscriptions ✓ Host Collections Tasks Packages Errata Product Content						
	Applicable Errata Show from: Current Environment (devinor	emental test) V				
	Search	Q Showing 231 of 23	1 (231 Total)	0 Selected Apply Selected		
	🔲 Туре	Id	Title	Issued		
	Bug Fix Advisory	RHBA-2014:1909	lvm2 bug fix update	11/25/14		
	🔲 🗯 Bug Fix Advisory	RHBA-2014:1734	yum-rhn-plugin bug fix upda	ite 10/29/14		
	Product Enhancement Advisory	RHEA-2014:1733	tzdata enhancement update	10/28/14		
	🔲 🚊 Bug Fix Advisory	RHBA-2014:1666	gcc enhancement update	10/19/14		
	Security Advisory - Moderate	RHSA-2014:1671	Moderate: rsyslog5 and rsys update	slog security 10/19/14		
	📄 🛦 Security Advisory - Moderate	RHSA-2014:1655	Moderate: libxml2 security u	pdate 10/15/14		

To apply errata, search for the errata you want and select the checkbox beside each errata. Then click "Apply Selected" at the top right.

The "Show From" filters what applicable errata to show:

- Current Environment Shows only Applicable Errata available in the Host's Content View & Lifecycle Environment.
- Previous Environment Shows Applicable Errata that are available from the Host's Content View but in the previous Lifecycle Environment. Promoting the Content View Version from that previous Lifecycle Environment to the current Lifecycle Environment for this Host would cause all Applicable Errata shown to then be available.
- Library Synced Content Shows Applicable Errata which have been synced to the Library. This shows you what is applicable even when the Errata have not been published into a Content View. All applicable Errata are shown regardless of availability to the Content Host.

Change Host Collection Asssignments

To change Host Collection assignments for a Content Host, navigate to: Hosts > Content Hosts > Select Content Host > Host Collections

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Content Hosts			
Search	Q Showing 5 of 5 (5 Total)	0 Selected Deselect All 🛛 📽 Bulk Actions 🌒 Register Content Host	
🔲 Name	Content Host dhcp129-73.rdu.red	dhat.com	Unregister Content Host X Close
Client.devel			
dhcp129-73.rdu.redhat.com >	Details Provisioning Details Subscriptions	Host Collections Tasks Packages	Errata Product Content
dhcp129-81.rdu.redhat.com			
testks.rdu.redhat.com	Host Collection Management		
testks.rdu.redhat.com	List/Remove Add		
	Filter		0 Selected Deselect All Remove Selected
	📄 Name	Description	Capacity
	Database Servers		1 / Unlimited

Bulk Actions

Katello provides the ability to perform actions on many Content Hosts at once such as:

- Package installation/upgrade/removal
- Listing and applying applicable errata
- Assigning Host Collections
- Changing Lifecycle Environment and Content View assignments

In order to use the bulk actions, perform whatever search you desire and select which Content Hosts you want to modify. If you want to select all Content Hosts from a search result, click the 'checkbox' above the table:

test15.devel.example.com

test16.devel.example.com

test17.devel.example.com

test18.devel.example.com

test19.devel.example.com

•

•

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•

•

Never checked in

C	Content Hosts							
2	Search	Q Showing	g 20 of 35 (35 Total)			0 Selected Deselect All	Bulk Actions Register Content Host	
	Name	Subscription Status	os	Environment	Content View	Registered	Last Checkin	
	client devel	•	Red Hat Enterprise Linux Server 6.4	Library	Default Organization View	7/3/14 10:02 AM	7/3/14 10:02 AM	
	dhcp129- 73.rdu.redhat.com	•	Red Hat Enterprise Linux Server 6.5	Library	Default Organization View	6/19/14 10:30 AM	7/11/14 12:56 PM	
	dhcp129- 81.rdu.redhat.com	×	Red Hat Enterprise Linux Server 7.0	Library	Default Organization View	6/18/14 3:16 PM	6/23/14 7:15 PM	
	test1.devel.example.com	•		Dev	StableOS	7/11/14 4:23 PM	Never checked in	
	test10.devel.example.com	•		Dev	StableOS	7/11/14 4:32 PM	Never checked in	
	test11.devel.example.com	•		Dev	StableOS	7/11/14 4:32 PM	Never checked in	
	test12.devel.example.com	•		Dev	StableOS	7/11/14 4:32 PM	Never checked in	
	test13.devel.example.com	•		Dev	StableOS	7/11/14 4:32 PM	Never checked in	
	test14.devel.example.com	•		Dev	StableOS	7/11/14 4:32 PM	Never checked in	

This will select all Content Hosts on that page (only the ones that are visible). To select all that correspond to that search query, notice a bar has now appeared:

StableOS

StableOS

StableOS

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7/11/14 4:32 PM

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Content Hosts						
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🕑 Name	Subscription Status	os	Environment	Content View	Registered	Last Checkin
		All 20 items	s on this page are selected. Se	ect all 35.		
2 client.devel	•	Red Hat Enterprise Linux Server 6.4	Library			
dhcp129-73.rdu.redhat.com	•	Red Hat Enterprise Linux Server 6.5	Library		6/19/14 10:30 AM	7/11/14 12:56 PM
dhcp129-81.rdu.redhat.com	•	Red Hat Enterprise Linux Server 7.0	Library		6/18/14 3:16 PM	6/23/14 7:15 PM
2 test1.devel.example.com			Dev		7/11/14 4:23 PM	
test10.devel.example.com					7/11/14 4:32 PM	
test11.devel.example.com					7/11/14 4:32 PM	
test12.devel.example.com					7/11/14 4:32 PM	
test13.devel.example.com					7/11/14 4:32 PM	
test14.devel.example.com					7/11/14 4:32 PM	
test15.devel.example.com					7/11/14 4:32 PM	
test16.devel.example.com					7/11/14 4:32 PM	
test17.devel.example.com					7/11/14 4:32 PM	
test18.devel.example.com					7/11/14 4:33 PM	
test19.devel.example.com					7/11/14 4:33 PM	

Next select the 'Bulk Actions' button in the top right.

From here you can select the tab corresponding to any action you wish to perform.

Foreman 2.3.3 has been released! Follow the quick start to install it. Foreman 2.2.2 has been released! Follow the quick start to install it.

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GET HELP 👻
GET INVOLVED 🗸
NEWS -

Katello 3.2 Documentation

3.2 🔻

1. Installation

1.1 Katello

1.2 Capsule

1.3 Clients

2. Upgrade

2.1 Katello

2.2 Capsule

2.3 Clients

2.4 Puppet

3. Release Notes

4. CLI

5. User Guide

5.1 Activation Keys

5.2 Backup

5.3 Capsules

5.4 Content

5.5 Content Hosts

5.6 Content Views

5.7 Disconnected

5.8 Docker Management

5.9 Email Notifications

5.10 Errata

5.11 Glossary

5.12 GPG Keys

5.13 Host Collections

5.14 Lifecycle Environments

5.15 Provisioning

5.16 Puppet Integration

5.17 Red Hat Content

6. Troubleshooting

Content Views

What can a Content View be used for?

- To stage content through environments (Dev, Test, Production).
- To filter the contents of a repository (include a package or exclude certain errata, for example).

• To have multiple snapshots of the same repository and/or puppet modules.

Definitions

- Content View snapshot of one or more repositories and/or puppet modules.
- Composite Content View a Content View that contains a collection of other Content Views.
- Filter provides finer grained control over content in a Content View. Can be used to include or exclude specific packages, package groups, or errata.
- Publishing Content Views are 'published' in order to lock their contents in place. The content of the Content View is cloned and all filters applied. Publishing creates a new version of the Content View.
- Promoting Content Views can be cloned to different Lifecycle Environments (Dev, Test, Production).

General Workflow

First create a product and repository in the library environment and populate the repository with content (by syncing it or uploading content). A Content Host can now register directly to library and be attached to the content therein. Updates will be available as soon as new content is synced or uploaded.

To utilize Content Views for filtering and snapshoting:

- 1. Create a Content View
- 2. Add the desired repository and/or puppet modules to the Content View
- 3. Optionally create one or more Filters to fine tune the content of the Content View.
- 4. Publish the Content View
- 5. Attach the Content Host to the Content View
- 6. Optionally promote the Content View to another environment

At this point the Content Host will no longer be getting content directly from Library, but from the Content View. Updates to library will not affect this Content Host.

Note that all of the actions below can also done with hammer, the CLI tool, and examples are given at the end of each section.

Creating a Content View

To create a Content View using the web UI, navigate to:

Content > Content Views

Click the Create New View button on the top right of the screen.

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content	t views 👻 Monitor	- Content - Hosts - Configure - Infr	astructure +	Administer -	
Content Views					
Search	Q Showing 3 of	3 (3 Total)		0 Selected Deselect All + Create N	lew View
Name	New Content	View		٢	x Close
COMPOSITE					
Puppet Modules	View Details				
Yum Repos	Name*	New Content View			
	Label*	New_Content_View			
	Description	This is my new content view, not sure what it will contain yet.			
	Composite View?	A composite view contains other content views.			
		Cancel Save			

From the CLI:



Creating a Composite Content View

To create a Composite Content View using the web UI follow the above steps for Creating a Content View but check the "Composite View?" checkbox.

From the CLI:



Adding Repositories

Adding a repository to a Content View means whenever a Content View is published, all of the content contained within the repository at that time is included in the Content View. If the repository is synced after publishing the Content View, the Content View will contain the state of the repository prior to syncing. A new version of the Content View must be published in order for the new version to get the contents of the newly synced repository.

To add a repository using the web UI, navigate to:

Content > Content Views > Select the desired Content View > Content (within sub navigation) > Repositories

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•	ontent views - Monitor - Content -	Hosts - Configure - Infrastructi	ure -	Administer	·•		
Content Views							
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Name	New Content View				Publish New Version X Close		
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Puppet Modules	Repository Selection						
Yum Repos	List/Remove Add All Products +)						
	All Products = Piller			+ Add Repositori			
	Name	Product	Last Sync	Sync State	Content		
	Red Hat Enterprise Linux 6 Server RPMs x86_64 6Server	Red Hat Enterprise Linux Server	N/A	N/A	0 Packages 0 Errata		
	Red Hat Enterprise Linux 6 Server - Supplementary RPMs i386 6Server	Red Hat Enterprise Linux Server	N/A	N/A	0 Packages 0 Errata		

From the CLI, adding a repository:

hammer content-view add-repository \ --organization="Default Organization" --name="New Content View" \ --repository="CentOS 6.5"

Adding a Puppet Module

Adding a puppet module to a Content View means that whenever the Content View is published the puppet module is locked to the version selected. If the "Use Latest" version is selected then the puppet module will be "frozen" at the latest version available when the Content View is published. A new version of the Content View must be published in order for the new version to get any updated puppet module.

To add a puppet module using the web UI, navigate to:

Content > Content Views > Select the desired Content View > Puppet Modules (within sub navigation)

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Content Views			
Search	Q Showing 4 of 4 (4 Total)		0 Selected Deselect All + Create New View
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New Content View >	Versions Content V Puppet Modules	s History Details Tasks	
Puppet Modules	Currently Selected Puppet Modules		
Yum Repos	Filter	Showing 0 of 0 (0 Total)	0 Selected Deselect All + Add New Module
	You currently don't have any Puppet Module	es included in this Content View, you can add puppet modules u	ising the button on the right.

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ent views - Monitor - Content - Hosts - Configure - Infrastructure -	Administer +		
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New Content View	K) Publish New Version X Close		
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Module List			
Select A New Puppet Module To Add			
Filter Showing 4 of 4 (4 Total)			
Name	Actions		
apache	Select a Version		
postgresql	Select a Version		
registry	Select a Version		
stdlib	Select a Version		
	nt views - Monitor Content Hosts Configure Infrastructure - G Showing 4 of 4 (4 Total) Versions Content View Versions Content Puppet Modules History Details Tasks Module List Select A New Puppet Module To Add Filter Showing 4 of 4 (4 Total) Name apache postgresql registry		

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Puppet Modules Module List / Select Module / apache								
Yum Repos	Select an Available Version of	fapache						
	Filter							
	Author	Version	Summary	Repositories	Actions			
	puppetlabs	Use Latest (currently 1.0.1)	Puppet module for Apache	Puppet	Select Version			
	puppetlabs	1.0.1	Puppet module for Apache	Puppet	Select Version			
	6 FOREMAN			📃 Admin User	•			
	content views - Monitor - Content -	Hosts - Configure - Infrastru	cture -	Administe	r*			
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Puppet Modules	Currently Selected Puppet Modules			
Yum Repos	Filter S	Showing 1 of 1 (1 Total)		0 Selected Deselect All + Add New Module
	Name	Author	Version	Actions
	apache	puppetlabs	Latest (Currently 1.0.1)	Select new version Remove Module

From the CLI, first find the UUID of your puppet module from the list:



Then add the puppet module:

hammer content-view puppet-module add \
--organization="Default Organization" \
--content-view="New Content View" \
--uuid=91cc9bb7-dbb3-4798-b50a-45173b763cbb

Adding Content Views to a Composite Content View

Adding a version of a Content View to a Composite Content View means whenever the Composite Content View is published, all of the content contained within the specific version of that Content View is contained in the Composite Content View. If the Content Views contained within the Composite Content View are updated (i.e. a new version is published) or if their content is

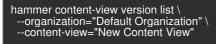
updated after publishing the Composite Content View, the Composite Content View will only contain the versions of the Content View(s) prior to syncing. A new version of the Composite Content View must be published in order for it to get the updated Content Views.

To add a Content View to a Composite Content View using the web UI, navigate to:

Content > Content Views > Select the desired Content View > Content (within sub navigation) > Repositories

Name Composite Content View COMPOSITE • CoMPOSITE > Versions • New Content View Content Views • Puppet Modules List/Remove • Yum Repos In order to add a content view to a composite view you must first publish an initial version of the content view.	FOF	REMAN			📃 Admin User	•	
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• Yum Repos In order to add a content view to a composite view you must first publish an initial version of the content view. • Name Version Environment Description Content • Puppet Modules 1 Library gdsfhsdth 0 Repositories of Puppet Modules • Yum Repos • Yum Repos • prod, test, Library Iterary 1 Repositories of Puppet Modules	New Content View	Versions Content Views History	Details Tasks				
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Name Version Environment Description Content v Puppet Modules 1 Library gdsfhadfh 0 Repositories o Puppet Modules v Yum Repos Image: Second Puppet Modules Prod, test, Library Image: Second Puppet Modules 1 Repositories		In order to add a content view to a com	nposite view you must first publish an initi	al version of the content view.			
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v Puppet Modules 1 Library gdsfhadfh 0 Repositories v Yum Repos Image: Constraint of the product state o		Filter			1 Selec	tted Deselect All + Add Content Views	
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		Puppet Modules		Library	gdsfhsdfh		
		Yum Repos	÷	prod, test, Library			

Find the Content View ID of the specific version of the Content View to add:



From the CLI, add a Content View to a composite Content View:



Creating a filter

If only using Content Views as snapshots, Filters are unnecessary. If the desire is to filter what content make it into the view, such as blacklisting a package by name or version, or blacklisting errata by date or type, Filters can help accomplish these tasks.

To create a new Content View Filter using the web UI, navigate to:

Content > Content Views > Select the desired Content View > Content (within sub navigation) > Filters > New Filter

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	content views - Mon	nitor - Content - Hosts -	- Configure - Infrastructure -	Administer -
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Search	Q Showing	g 4 of 4 (4 Total)		0 Selected Deselect All + Create New View
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Puppet Modules	Filters			
Yum Repos	Search	٩ و	Showing 0 of 0 (0 Total)	0 Selected Deselect All + New Filter
	You currently	v don't have any Filters included ir	n this Content View, you can add a new Filter by using	the button on the right.

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	content views - Monitor - Cont	ient - Hosts - Configure - Infrastructure	-	Administer +
Content Views				
Search	Q Showing 4 of 4 (4 Total)			0 Selected Deselect All + Create New View
Name	New Content View			1) Publish New Version X Close
COMPOSITE				
New Content View >	Versions Content V	Puppet Modules History Details Tasks		
Puppet Modules	« Filters List			
Yum Repos	Add New Filter			
	Name*	New Filter		
	Content Type*	Package	\$	
	Туре*	Exclude	\$	
	Description	Here is my new filter	*	
		Cancel		

	FOREMAN	👤 Admin User 👻	
	content views - Monitor - Content - Hosts - Configure - Infrastructu	re + Administer +	
Content Views			
Search	Q Showing 4 of 4 (4 Total)	0 Selected	Deselect All + Create New View
Name	New Content View		Publish New Version X Close
New Content View >	Versions Content V Puppet Modules History Details Tasks		
Puppet Modules	Filters / New Filter		
	New Filter (Exclude Packages) Packages Affected repositories () Filter Package Name	Detail	Remove Packages
	something-else	Equal To	+ Add
	httpd	All Versions	C Edit

From the CLI, adding a Content View Filter:



From the CLI, adding a Content View Filter rule:

hammer content-view filter rule create \ --organization="Default Organization" \ --content-view="New Content View" \ --content-view-filter="New Filter" \ --name="something-else" \ --max-version="10.0.0" \ --min-version="10.0.0"

Selecting which Repositories to Filter

By default a Filter applies to all repositories (present and future) in the Content View. It's possible to select which repositories within the Content View apply to the filter. This is useful, for example, if the desire is to exclude errata from only certain repositories in a view.

To select which repositories to Filter in the web UI, navigate to:

Content > Content Views > Select the desired Content View > Content (within sub navigation) > Filters > Select the desired Filter > Affected repositories (within sub navigation)

FC	DREMAN				📃 Admin User 👻	
conten	t views - Monitor - Conte	ent - Hosts - Configure -	Infrastructure -		Administer -	
Content Views						
Search	Q Showing 4 of 4 (4 Total)				0 Selec	ted Deselect All + Create New View
Name	New Content View					Publish New Version X Close
COMPOSITE						
New Content View >	Versions Content V	Puppet Modules History D	letails Tasks			
Puppet Modules	Filters / New Filter					
		the content view (current and future), oppositories in the content view.			Update Repositories	
	Affected?	Name	Product	Туре	Sync Status	Content
	٢	Red Hat Enterprise Linux 6 Server RPMs x86_64 6Server	Red Hat Enterprise Linux Server	yum	N/A	0 Packages 0 Errata
	D	Red Hat Enterprise Linux 6 Server - Supplementary RPMs 1386 6Server	Red Hat Enterprise Linux Server	yum	N/A	0 Packages 0 Errata

From the CLI, adding a Content View Filter:



Publishing a Content View

Publishing a Content View produces a new version of the content view that is subsequently promoted to the Library lifecycle environment. This newly published version of the content view is now available to any content host registered to Library.

To publish a Content View, in the web UI, navigate to:

Content > Content Views > Select the desired Content View > Publish New Version

F(OREMAN	📃 Admin User 👻
conter	nt views - Monitor - Content - Hosts - Configure - Infrastructure -	Administer -
Content Views		
Search	Q Showing 4 of 4 (4 Total)	0 Selected Deselect All + Create New View
Name	New Content View	Close X Close
COMPOSITE		
New Content View >	Versions Content V Puppet Modules History Details Tasks	
Puppet Modules	Publish New Version	
Yum Repos	A new version of New Content View and promoted to the Library environment. It can be promoted to other environments from the Versions tab of this Content View. Version Details Version 1 Comment Intel version Cencel Serve	

	FOREMAN				📃 Admin User 👻		
COT	ntent views - Monitor - Conte	nt - Hosts - Configure - I	nfrastructure -		Administer -		
Content Views							
Search	Q Showing 4 of 4 (4 Total)				0 Selected Deselect All	+ Create New View	
Name	New Content View				🗓 Publish Ne	w Version X Close	
COMPOSITE							
New Content View >	Versions Content V Pu	uppet Modules History Details	a Tasks				
Puppet Modules	Filter						
Yum Repos	Version	Status	Environments	Content	Author	Actions	
	Version 1	Publishing and promoting to 1 environment.	Library	0 Packages [] Errata (🋦 [] 資 [] 🕻 [])		← Promote	

From the CLI:

hammer content-view publish \ --organization="Default Organization" \ --name="New Content View"

Registering a Content Host

To register a Content Host that is not currently registered to the Content View, simply use subscription manager on the client Content Host and run:

subscription-manager register --org=ACME_Corporation --environment=Library/my_rhel_view

This would register the Content Host to the Library environment and the my_rhel_view Content View.

If the Content Host is already registered, from the UI:

Hosts > Content Hosts > Select the desired Content Host

	6 FOREMAN				📃 Admin User 👻	
	content views - Monitor -	- Content - Hosts - Configure - Inf	rastructure -		Administer -	
Systems						
Search	Q Showing 1 of	1 (1 Total)			0 Selected Deselect All	Bulk Actions Register System
Name	System dhcp1	29-211.rdu.redhat.com				Remove System X Close
dhcp129-211.rdu.redhat.com >	Details Subscrip		Packages Errata	ı.		
	Basic Information			System Content		
	Name	dhcp129-211.rdu.redhat.com	ľ	Release Version		8
	UUID Description	e1ee500b-be85-4f34-afa6-16f62a859756 Initial Registration Params	đ	Content View	Yum Repos	+
	Туре	Guest	8		Save Cancel	
				Environment		
				🗹 Library 🗌 te	st 📄 prod	
	Subscriptions Subscription Status	• valid				
	Auto-Attach	Valu	I			
	Service Level		ľ	System Status		
	Activation Keys	None		Registered	4/9/14 2:59 PM	
				Checkin	4/15/14 12:08 PM	
	System Properties					
	os	Red Hat Enterprise Linux Server		Networking		
	Release	2.6.32-431.el6.x86_64 x86_64		Hostname	dhcp129-211.rdu.redhat.com	
	Number of CPUs	1		IPv4 Address	10.13.129.211	
	Sockets	1		IPv6 Address Interfaces	::1 + eth0	
	Cores per Socket	1			+ lo	

From the CLI:

hammer content-host update \ --organization="Default Organization" \ --name="dhcp129-211.rdu.redhat.com" \ --content-view="New Content View" \ --lifecycle-environment="Library"

Promoting a Content View

Initially a Content View is published to Library as version 1. If there are Content Hosts in other environments that would like to consume this Content View, a version of the content view will need to be promoted to those environments. For example, given the Content View "New Content View", version 1 of which has been promoted to the Dev environment. Any Content Hosts in Dev attached to the Content View would remain at version 1 until a version 2 is both published and promoted to the Dev environment.

To promote a Content View in the Web UI, navigate to:

Content > Content Views > Select the desired Content View > Versions (within sub navigation) > Click promote for desired version

							🧾 Admin User 👻			
	content views 🕞	Monitor -	Content -	Hosts -	Configure -	Infrastructure -		Administer -		
Content Views										
Search	Q Sh	nowing 4 of 4 (4 Total)					0 Selected Deselect A	+ Create New View	
Name	New Co	ontent Vi	iew					🖒 Publish N	ew Version X Close	
COMPOSITE										
New Content View >	Versions	Content	 Puppe 	t Modules	History De	tails Tasks				
Puppet Modules	Filter									
Yum Repos	Version			Status		Environments	Content	Author	Actions	
	Version 1			Published. (4	/15/14 3:57 PM)	Library	487 Packages 112 Errata (🛦 44 賽 13 🖬 55)		Promote	
	FOREMAN content views	Monitor +	Content -	Hosts +	Configure +	Infrastructure ~		Admin User + Administer +		
Content Views										
Search	Q St	nowing 4 of 4 ((4 Total)					0 Selected Deselect A	+ Create New View	
O Name										

Search Q Showing 4 of 4 (4 Total)	0 Selected Deselect All + Create New View
Name New Content View	Publish New Version × Close
□ COMPOSITE	
New Content View > Versions Content Puppet Modules History Details Tasks	
Puppet Modules «Back to Version List	
Yum Repos Promote Version 1	
Choose one or more lifecycle environments from the existing promotion paths available in 'walden'.	
Library Ctest prod	
Promote Version Cancel	

	D FOREMAN				📃 Admin User 👻					
	content views - Monitor - Conten	t - Hosts - Configure - Inf	rastructure -		Administer -					
Content Views										
Search	Q Showing 4 of 4 (4 Total)				0 Selected Deselect All	+ Create New View				
Name	New Content View									
COMPOSITE										
New Content View >	Versions Content V Pu	Versions Content V Puppet Modules History Details Tasks								
Puppet Modules	Successfully initiated promotion	Successfully initiated promotion of New Content View version 1 to test.								
Yum Repos	Filtor									
	Pitter									
	Version	Status	Environments	Content	Author	Actions				
	Version 1	Promoting to 1 environment.	Library test	0 Packages 0 Errata (▲0 遼 0 🖬 0)		A Promote				

To promote a Content View in the CLI:

hammer content-view version promote \
--organization="Default Organization" \
--content-view="New Content View" \
--to-lifecycle-environment="Test" \
--version 1

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HOME
GET STARTED 👻
GET HELP 👻
GET INVOLVED -
NEWS -

Katello 3.2 Documentation

3.2 💌

1.1 Katello

1.2 Capsule

1.3 Clients

2. Upgrade

2.1 Katello

2.2 Capsule

2.3 Clients

2.4 Puppet

3. Release Notes

4. CLI

5. User Guide

5.1 Activation Keys

5.2 Backup

5.3 Capsules

5.4 Content

5.5 Content Hosts

5.6 Content Views

5.7 Disconnected

5.8 Docker Management

5.9 Email Notifications

5.10 Errata

5.11 Glossary

5.12 GPG Keys

5.13 Host Collections

5.14 Lifecycle Environments

5.15 Provisioning

5.16 Puppet Integration

5.17 Red Hat Content

6. Troubleshooting

Katello Inter-Server Sync

NOTE: This feature is intended to replace the 'katello-disconnected' script.

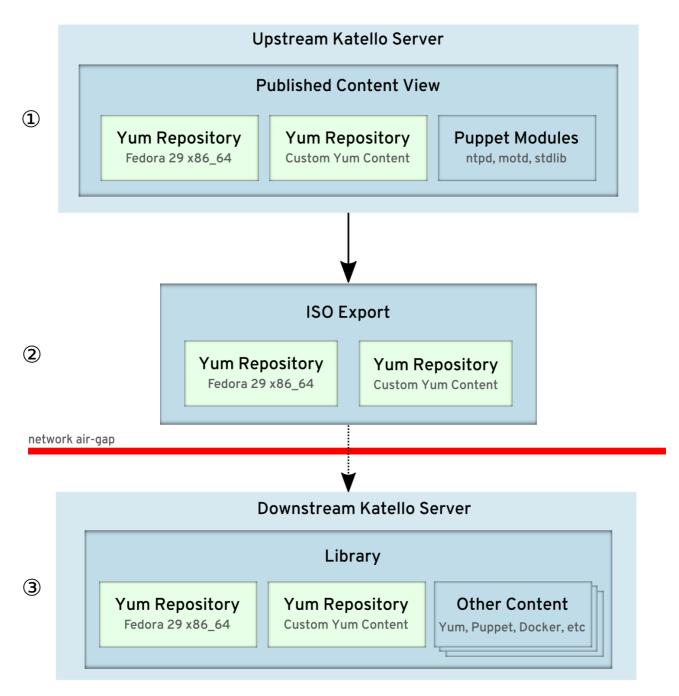
Intro

If you are working in an air-gapped network environment where some of your Katello servers do not have Internet connectivity, you may be interested in using the Katello Inter-Server Sync (ISS) feature. This allows you to export repos, including repos in content views, on your "upstream" Katello server, and then import said repos into your "downstream" server that does not have connectivity. Individual repos can be exported, or all of the repos in a content view.

List of currently supported repo content types:

• yum

Future releases will enable support for additional content types.



The diagram above shows an example scenario where a user wants to export all Yum content in a content view and then import to another Katello server. The ISO file is burned to media and then walked across the air-gap in the network.

Detailed Operation

Exporting

The ISS feature allows users to move Yum content from one Katello server to another, in a way that is compatible with airgapped networks. Typically users will set up an upstream server that is connected to the Internet, and then create a content view that contains Yum content that they would like to present to the downstream server (step 1). Content is exported via either hammer repository export or hammer content-view version export (step 2). It is exported to the location set in "pulp_export_destination" in the Settings page, under the Katello tab. This defaults to /var/lib/pulp/katello_export. Please be aware that the location needs to be readable and writable by the foreman user.

You can select to either export as a plain set of directories, or as a set of ISO files. The "iso_size_mb" parameter sets how large you would like each ISO file to be. It defaults to 4380 MB, which is the size of a single-side, single-layer DVD.

Importing

Importing (step 3) can be done in one of two ways. The first way is to make the export available via HTTP to the importing Katello instance. Simply put the export in /var/www/html/pub/export, either via copy or symlink. After that, edit your CDN location from the manifest import page to point to "http:///export/path/to/export" and the Red Hat Repos page will then work as expected, using your exported data. Please be sure to use 'http' and not 'https' when altering the CDN url. Katello by default only supports the CA certificate for `cdn.redhat.com`. This is a [known limitation] (http://projects.theforeman.org/issues/16392) that will be addressed in a future version.

The second way is to perform a repository sync via hammer, specifiying the source location. Please see the **hammer repository sync** command for more information. This method is the only way to import custom content, and is the only way to import incremental content.

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HOME
GET STARTED 👻
GET HELP 🗸
GET INVOLVED 🗸
NEWS -

3.2 🔻

1. Installation

1.1 Katello

1.2 Capsule

1.3 Clients

2. Upgrade

2.1 Katello

2.2 Capsule

2.3 Clients

2.4 Puppet

3. Release Notes

4. CLI

5. User Guide

5.1 Activation Keys

5.2 Backup

5.3 Capsules

5.4 Content

5.5 Content Hosts

5.6 Content Views

5.7 Disconnected

5.8 Docker Management

5.9 Email Notifications

5.10 Errata

5.11 Glossary

5.12 GPG Keys

5.13 Host Collections

5.14 Lifecycle Environments

5.15 Provisioning

5.16 Puppet Integration

5.17 Red Hat Content

6. Troubleshooting

Docker Management

Katello can be used to manage and deploy Docker content. Katello can retreive Docker content from a variety of sources such as Docker hub, private Docker registries, the Red Hat CDN, and so forth. Docker content can then be published and promoted via Content Views and then pulled or proivisioned to a server running Docker.

What is Docker?

Docker is a tool used to manage Linux containers. To read more about Docker, check out the official Docker site. Docker repositories, which contain images and tags, can be retrieved, stored, managed, and deployed from Katello.

How to sync a Docker repository

The easiest way to get Docker content into Katello is to sync it in. You can either sync Docker content from the Red Hat CDN (if you have subscriptions for the content) or from a registry such as Docker Hub.

Red Hat Docker Images

Content can be synced into Katello using a Red Hat manifest in much the same way as yum content. See our guide on how to manage Red Hat content for more information.

Docker Hub/Docker Registry

To sync content from a Docker registry such as Docker Hub (which is the official Docker-run registry), simply start by creating a new Repository.

E FOREMAN							🌅 Admin User 👻
Default Organiza	tion - Monitor-	Content -	Containers -	Hosts -	Configure -	Infrastructure	- Administer -
Products							
Search	Q Showing 2 of 2 (2	? Total)			0 5	Selected Bulk A	Ctions Repo Discovery New Produ
Name	Product Test	er					Clos
Red Hat Enterprise Linux Serv							
Tester >	Details Reposit	tories Task	S				
	Add New Reposite General Information Name* Label* Type* Sync Information URL Upstream Repository Name	docker URL of the registry https://registry.hub	eam repository you wan		¢		

On the new Repository screen, select "Docker" as the content type. Once you do that, you'll be given two options: upstream name and URL. The URL will be the registry URL; for Docker Hub, this would be https://registry.hub.docker.com.

For the upstream name, you want to use the fully qualified upstream name which also includes any namespace such as the username. This can be just "busybox" if the Repository is an official Docker Hub Repository or it can be something like "fedora/ssh" where "fedora" is the username/namespace.

Then click save and then sync the Repository as you normally would. Katello will fetch all the images and tags contained within that Repository.

How to Upload Docker Images

In versions of Katello prior to 3.0, Docker images could be uploaded directly via either the UI or CLI. However, Katello 3.0 only supports the Docker Registry v2 format, which is significantly different than the Docker Registry v1 format. The **docker save** command outputs a Docker image in v1 format, which cannot be uploaded directly to a v2 repository.

As a workaround, you can create a local Docker registry like so:

Note the :2 above, which specifies a v2 registry. Push your changes to your newly created local registry then follow the instructions in the section above to sync this registry to Katello. This will ensure that your Docker content stays in Docker's v2 registry format.

How to Publish and Promote Docker Content

Docker content can be published and promoted via Content Views much like yum or puppet content.

	OREMAN				🖸 Admin User 👻
Defaul	It Organization - Monitor -	Content - Containe	rs - Hosts - Configur	e – Infrastructure –	Administer -
ntent View	IS				
rch	Q Showing 2 of 2 (2	Total)			0 Selected Create New V
ame	Test			Publish New Version	Copy View Remove View Clo
st > it	Versions Yum C	Content Puppet Module	Docker Content H	istory Details Ta	isks
	Repository Selec				
	All Products S Filter				Add Repositor
		Product	10.000		
	Name	Product	Last Sync	Sync State	Content
	business	Tester	Last Sync	Sync State	Content
					Content Content 10 Docker Images 5 Docker Tags
	business	Tester	N/A	N/A	10 Docker Images
	 business busybox 	Tester Tester	N/A 2/2/15 1:18 PM	N/A Success	10 Docker Images 5 Docker Tags 179 Docker Images

After creating a Content View, visit the Docker Content tab. Here you can select any Docker repositories you want to add to your Content View. After you've added Docker Repositories to your view, you may proceed as normal. Visit the Content View user guide for more information.

How to View and Pull Docker Content

To view Docker content contained with Katello, visit the Docker Tags page. This can be accessed under the Content menu at the top of any page.

FOREMAN					📃 Admin User 👻		
Default Organization 👻	Monitor - Content -	Containers - Host	s - Configure -	Infrastructure -	Administer -		
Docker Tags							
Search Q Sho	owing 25 of 25 (25 Total)						
lame	Product Name		Rep	pository Name			
.8.14	Tester		redi	s			
.8.15	Tester		redi	is			
2.8.16	Tester		redi	s			
.8.17	Tester		redi	redis			
.8.18	Tester	Tester			redis		
.8.19	Tester	Tester			redis		
2.8.6	Tester		redi	s			
.8.7	Tester		redi	s			
.8.8	Tester		redi	s			
.8.9	Tester		redi	s			
puildroot-2013.08.1	Tester		bus	ybox			
puildroot-2014.02	Tester		bus	ybox			
atest	Tester		test	er			
atest	Tester		redi	s			
atest	Tester		bus	ybox			
buntu-12.04	Tester		bus	ybox			
buntu-14.04	Tester		bus	ybox			

On the Docker Tags page, you can see a list of Docker Tags grouped by Repository in Katello. This shows you Tags grouped across Content Views and Lifecycle Environments. Suppose I wanted to pull the latest Tag from my redis repository, I would click the latest row for my redis repository.

	N			📃 Admin User 👻	
Default Organi	zation - Monitor - Conte	ent - Containers - Hosts -	Configure - Infrastructure	e - Administer -	
Docker Tags					
Search	Q Showing 25 of 25 (25 Total)			
Name	redis:latest			× Close	
redis:2.8.14					
redis:2.8.15	Basic Information Product Tester				
redis:2.8.16	Repository redis				
redis:2.8.17	Environment	Content View Version	Image	Published At	
redis:2.8.18	Library	Default Organization View 1.0	3b7234aa3098129352dc	localhost:5000/default_organizatio	
redis:2.8.19		onan organization from fro		tester-redis:latest	
redis:2.8.6	Library	redisv 3.0	3b7234aa3098129352dc	localhost:5000/default_organizati	
redis:2.8.7				library-redisv-Tester- redis:latest	
redis:2.8.8					
redis:2.8.9					
busybox:buildroot-2013.08.1					
busybox:buildroot-2014.02					
ester:latest					
redis:latest >					
busybox:latest					
busybox:ubuntu-12.04					
ousybox:ubuntu-14.04				٨	

I can see here that my redis Repository has been added to a published Content View called redisv. If I want to use the tag from that Content View, I would just copy the Published At URL and then on my docker server I would run:

\$ docker pull localhost:5000/default_organization-library-redisv-Tester-redis:latest Pulling repository localhost:5000/default_organization-library-redisv-Tester-redis...

How to Provision Docker Content

See how to provision content in the documentation in the foreman-docker documentation. Provisioning content from Katello works in much the same way.

First, proceed to the new Container page by accessing it from the Containers menu at the top. Then, select the Local Content tab on the second step. This will allow you to select a Docker image from a published Katello repository which is in an environment/content view/capsule. Then just proceed in the wizard as per the Foreman Docker instructions. When you are finished, you should have a new container running from an image in Katello.

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HOME
GET STARTED 👻
GET HELP 🗸
GET INVOLVED 🗸
NEWS -

3.2 💌

1. Installation

1.1 Katello

1.2 Capsule

1.3 Clients

2. Upgrade

2.1 Katello

2.2 Capsule

2.3 Clients

2.4 Puppet

3. Release Notes

4. CLI

5. User Guide

5.1 Activation Keys

5.2 Backup

5.3 Capsules

5.4 Content

5.5 Content Hosts

5.6 Content Views

5.7 Disconnected

5.8 Docker Management

5.9 Email Notifications

5.10 Errata

5.11 Glossary

5.12 GPG Keys

5.13 Host Collections

5.14 Lifecycle Environments

5.15 Provisioning

5.16 Puppet Integration

5.17 Red Hat Content

6. Troubleshooting

Email Notifications

Types of Email Notifications

In addition to the Email Notifications that Foreman provides:

- Puppet run summary (Daily/Weekly/Monthly)
- Puppet errors

Katello provides a few addition reports:

- Katello Host Advisory (Daily/Weekly/Monthly) A report of all of the Errata applicable to all readable Content Hosts
- Katello Promote Errata A report generated at Content View promotion time showing what Errata applicable to the Content Hosts within that Content View.
- Katello Sync Errata A report generated after each Repository sync listing new Errata synced and how many Content Hosts are applicable.

Configuring the Foreman/Katello to send emails:

The configuration on how the Foreman/Katello service sends email is located in /etc/foreman/email.yaml:



For more information see: Email Configuration

Opting in to the emails

By default a user will receive no email notifications. Each notification must be opted into.

To opt in for your own user, at the very top right of the web interface, hover over your Username, click "My Account" and then click the "Mail Preferences" tab.

To opt in for other users, navigate to "Administer" > "Users" > Click the desired User > click the "Mail Preferences" tab.

Select which emails and frequency you would like the user to have and click "Submit".

FOREMAN					Admin User 👻
efault Organization 🗦	Monitor 👻 Content 🗸	Containers 👻 Hosts 🗸	- Configure - Inf	frastructure 👻	Administer 🗸
dit User					
User Mail Preference	s Locations Organ	nizations Roles			
General					
Mail enabled	•				
Notifications					
Katello host advisory	Weekly	•	A summary of availabl	le and applicable errata for your host	3
Katello promote errata	Subscribe	•	A post-promotion sum	mary of hosts with available errata	
Katello sync errata	Subscribe	T	A summary of new erra	ata after a repository is synchronized	1
Puppet error state	No emails	•	A notification when a h	host reports a puppet error	
Puppet summary	Weekly	T	A summary of eventful	l puppet reports	
Cancel Submit					

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HOME
GET STARTED 🗸
GET HELP 🗸
GET INVOLVED -
NEWS -

3.2 🔻

1. Installation

1.1 Katello

1.2 Capsule

1.3 Clients

2. Upgrade

2.1 Katello

2.2 Capsule

2.3 Clients

2.4 Puppet

3. Release Notes

4. CLI

5. User Guide

5.1 Activation Keys

5.2 Backup

5.3 Capsules

5.4 Content

5.5 Content Hosts

5.6 Content Views

5.7 Disconnected

5.8 Docker Management

5.9 Email Notifications

5.10 Errata

5.11 Glossary

5.12 GPG Keys

5.13 Host Collections

5.14 Lifecycle Environments

5.15 Provisioning

5.16 Puppet Integration

5.17 Red Hat Content

6. Troubleshooting

Errata

Errata are updates between major releases. An Erratum is metadata about a group of packages that explains the importance of the package updates. Errata may be released individually on an as-needed basis or aggregated as a minor release. There are three main types of errata:

- Enhancement: the new packages contain one or more added features
- Bugfix: the new packages contain one or more bug fixes
- Security: the new packages fix one or more security vulnerabilities

With regard to Content Hosts, Errata is divided into two distinct classifications depending on whether or not the Errata is present in the Content Host's Lifecycle Environment and Content View:

- Applicable: the errata applies to one or more Content Hosts
- Installable: the errata applies to one or more Content Hosts and is present in the Content Host's Lifecycle Environment and Content View

Definitions

- Content Host
- Content View
- Lifecycle Environment

General Features

The following is a high-level summary of the Errata features:

- View List of Errata
- View Errata Details
- View Affected Content Hosts
- View Repositories Containing Errata
- Applying Errata

View List of Errata

To view the list of Errata in the Organization:

• navigate to: Content > Errata

				📃 Admin User 👻	
	Default Organization - Monitor - Content -	Containers - Hosts -	Configure - Infrastructure -	Administer -	
Errata					
Search	Q Showing 40 of 2809 (2809 Total)				0 Selected + Apply Errata
Errata ID	Title	Туре	Affected Co	ntent Hosts Updated	
BHSA-2014:1984	Important: bind security update	A Security Advisory - Import	tant 0	12/11/14	
BHSA-2014:1983	Important: xorg-x11-server security update	Security Advisory - Import	tant 0	12/10/14	
BHBA-2014:1970	dovecot bug fix update	兼 Bug Fix Advisory	0	12/8/14	
BHSA-2014:1974	Important: rpm security update	A Security Advisory - Import	tant 0	12/8/14	
BHBA-2014:1964	selinux-policy bug fix update	賽 Bug Fix Advisory	0	12/7/14	
BHBA-2014:1965	curl bug fix update	賽 Bug Fix Advisory	0	12/7/14	
BHBA-2014:1967	sssd bug fix update	賽 Bug Fix Advisory	0	12/7/14	
BHBA-2014:1961	system-config-firewall bug fix update	賽 Bug Fix Advisory	0	12/4/14	
BHSA-2014:1919	Critical: firefox security update	A Security Advisory - Critica	u O	12/1/14	
RHSA-2014:1948	Important: nss, nss-util, and nss-softokn security, bug fix, and enhancement update	A Security Advisory - Import	tant O	12/1/14	
RHEA-2014:1918	oprofile enhancement update	Product Enhancement Ad	visory 0	11/30/14	
BHBA-2014:1909	lvm2 bug fix update	❀ Bug Fix Advisory	0	11/25/14	
BHSA-2014:1911	Moderate: ruby security update	A Security Advisory - Moder	rate 0	11/25/14	
BHBA-2014:1886	mdadm bug fix update	着 Bug Fix Advisory	0	11/23/14	
BHBA-2014:1884	cyrus-sasl bug fix update	斎 Bug Fix Advisory	0	11/19/14	
BHBA-2014:1883	webkitgtk and gimp bug fix update	斎 Bug Fix Advisory	0	11/19/14	
RHBA-2014:1875	device-mapper-multipath bug fix update	着 Bug Fix Advisory	1	11/18/14	
BHBA-2014:1867	nss-softokn bug fix update	斎 Bug Fix Advisory	0	11/17/14	
BHEA-2014:1869	new packages: kmod-oracleasm	Product Enhancement Ad	visory 0	11/19/14	
	Imaadanti libVfant aasudtu undata	A Casult, Advisor, Immed	tant 0	44147744	

View Errata Details

To view the details of an Errata:

- navigate to: Content > Errata
- Click on an Errata ID

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	Default Organization - Monitor -	Content - Container	+ Hosts +	Configure -	Infrastructure -	Administer -	
Errata							
Search	Q Showing 40 of 2809 (2	809 Total)					0 Selected + Apply Errat
Errata ID	Important: nss, nss	-util, and nss-soft	okn secur	ity, bug fix	, and enhancement u	pdate	× Close
RHSA-2014:1984	Details Content Hosts	Repositories					
RHSA-2014:1983							
RHBA-2014:1970	Advisory CVEs	RHSA-20	14:1948				
RHSA-2014:1974	Type	Security	dvisory				
RHBA-2014:1964	Severity	Importan 12/1/14					
RHBA-2014:1965	Last Updated On	12/1/14					
RHBA-2014:1967	Reboot Suggested?	No					
RHBA-2014:1961	Updated nss, nss-util, and nss-s	offelin peekages that contain	a patch to				
RHSA-2014:1919	mitigate the CVE-2014-3566 iss	ue, fix a number of bugs, and	dd various				
	enhancements are now available						
RHSA-2014:1948 >	Red Hat Product Security has ra security impact.	ited this update as having imp	ortant				
RHEA-2014:1918	Description						
RHBA-2014:1909	Network Security Services (NSS the cross-platform development						
RHSA-2014:1911	applications. Netscape Portable independence for non-GUI oper	Runtime (NSPR) provides plat					
RHBA-2014:1886	This update adds support for the		r Suito Valuo				
RHBA-2014:1884	(TLS_FALLBACK_SCSV), which attacks against applications whi	can be used to prevent protoc	ol downgrade				
RHBA-2014:1883	protocol version when the initial	connection indicating the high					
RHBA-2014:1875	supported protocol version fails.		- 001 0.0				
RHBA-2014:1867	This can prevent a forceful down The SSL 3.0 protocol was found attack when using black sinter	to be vulnerable to the paddi	g oracle				
RHEA-2014:1869	attack when using block cipher This issue is identified as CVE-2	014-3566, and also known un	ler the alias				
RHSA-2014:1870	POODLE. This SSL 3.0 protocol update; it is recommended that	users configure their application	ns to				
1010/02014.1070	require at least TLS protocol ver	sion 1.0 for secure communic	ition.				

View Affected Content Hosts

To view the Affected Content Hosts of an Errata:

- navigate to: Content > Errata
- Click on an Errata ID
- Click on the Content Hosts Tab

Note the following option:

• Checking the box limits the display of Content Hosts to those which already have the Errata available in their Lifecycle Environment and Content View.

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	Default Organization - Monitor -	Content - Containers	+ Hosts + Configure +	Infrastructure -	Administer 🗸	
Errata						
Search	Q. Showing 40 of 2809 (2809	9 Total)				0 Selected + Apply Errata
Errata ID	Important: nss, nss-u	util, and nss-softo	kn security, bug fix	, and enhancement updat	te	* Close
RHSA-2014:1984	Details Content Hosts	Repositories				
RHSA-2014:1983						
RHBA-2014:1970	Apply To Content Hosts					
BHSA-2014:1974	Filter by Environment	nt: nss, nss-util, and nss-sottokn sect		currently available in the host's Lifecycle Environment.		
RHBA-2014:1964	Search	٩				0 Selected + Apply to Hosts
BHBA-2014:1965	□ Name	os		Environment	Content View	
RHBA-2014:1967	walden-rhei7.rdu.redhat.com	Red Hat	t Enterprise Linux Server 7.0	Library	CV	
RHBA-2014:1961						
RHSA-2014:1919						
■ RHSA-2014:1948 >						
RHEA-2014:1918						
RHBA-2014:1909						
RHSA-2014:1911						
RHBA-2014:1886						
RHBA-2014:1884						
RHBA-2014:1883						
RHBA-2014:1875						
RHBA-2014:1867						
RHEA-2014:1869						
BHSA-2014:1870						

View Repositories Containing Errata

To view the Repositories Containing an Errata:

- navigate to: Content > Errata
- Click on an Errata ID
- Click on the Repositories Tab

Note that you can filter by Lifecycle Environment and Content View.

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De	afault Organization - Monitor - Conte	ent - Containers - Hosts -	Configure - Infrastructure -	Administer -
Errata				
Search	Q Showing 40 of 2809 (2809 Total)			0 Selected + Apply Errata
Errata ID	Important: nss, nss-util, a	ind nss-softokn securit	y, bug fix, and enhancement upda	te × Close
BHSA-2014:1984		sitories		
BHSA-2014:1983				
□ RHBA-2014:1970	Repositories Containing Errat			
□ RHSA-2014:1974	Library ¢ Default	Organization View \$		
□ RHBA-2014:1964	Search	Q Showing 1	of 1 (1 Total)	0 Selected
□ RHBA-2014:1965	Name	Product	Content View	Last Sync
□ RHBA-2014:1967	C RHEL6	Red Hat		Success 20 days ago
RHBA-2014:1961				
□ RHSA-2014:1919				
■ RHSA-2014:1948 >				
RHEA-2014:1918				
RHBA-2014:1909				
□ RHSA-2014:1911				
□ RHBA-2014:1886				
□ RHBA-2014:1884				
□ RHBA-2014:1883				
□ RHBA-2014:1875				
RHBA-2014:1867				
□ RHEA-2014:1869				
□ RHSA-2014:1870				

Applying Errata

How Errata is applied to a Content Host(s) depends on whether the Errata is installable.

- If the Errata is already installable then the Errata is applied to the Content Host(s).
- If the Errata is not installable then an Incremental Update is generated. An Incremental Update creates a point release of the Content View with the Errata included. The Errata can also be applied to the Content Host(s) as part of this process.

There are two ways to apply Errata:

- A single Errata can be applied to one or more Content Hosts
- Several Errata can be applied to one or more Content Hosts via a bulk operation

Applying a Single Errata

To apply a single Errata:

- Navigate to: Content > Errata
- Click on an Errata ID
- Click on the Content Host tab
- Select the desired Content Hosts
- Click "Apply to Hosts"
- Confirm the action

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	Default Organization	- Monitor -	Content -	Containers 🗸	Hosts - Configure -	Infrastructure 🗸	Administer -
Errata							
All Repositories	s	Applical	ble 🗌 Installab	le			
Search		Q Showing 1	9 of 19 (19 Total)				1 Selected Apply Errata
📄 Errata ID)	1			- Charles and a strend have been	6	
RHSA-20	014:1948 >	important: ne	ss, nss-util,	and nss-so	oπokn security, bu	g fix, and enhancem	ent update x close
RHBA-20	014:1875	Details Con	tent Hosts	Repositories			
RHEA-20	014:1866						
RHEA-20	014:1733	Apply To Conter		Important: nss_n	ss-util and pss-softokn se	surity bug fix and enhancemen	t update is currently available in the host's Lifecycle
RHBA-20	014:1637	Environment.					
RHBA-20	014:1515	Filter by Environmen	nt	\$			
RHBA-20	014:1426	Search		Q	Showing 1 of 1 (1 Total	1	1 Selected Apply to Hosts
RHBA-20	014:1378	Name		OS		Environment	Content View
RHBA-20	014:1376	valden-rhel7	7.rdu.redhat.com	Red H	lat Enterprise Linux Server	7.0 dev	RHEL
RHEA-20)14:1472						
RHEA-20)14:1532						
RHEA-20)14:1530						
RHBA-20	014:1384						
RHBA-20							
RHBA-20							
RHBA-20							
RHEA-20							
RHBA-20	014:1362						
							🎦 Admin User 👻
	FOREMAN Default Organization	→ Monitor →	Content -	Containers -	Hosts - Configure -	Infrastructure +	Admin User 👻 Administer 🗸
Errata		• Monitor •	Content -	Containers -	Hosts - Configure -	Infrastructure -	
Errata All Repositories	Default Organization		Content -		Hosts - Configure -	Infrastructure +	
	Default Organization	 Applical 		le	Hosts - Configure -	Infrastructure -	
All Repositories	Default Organization	 	ble 🔲 Installab 9 of 19 (19 Total)	le			Administer - 1 Selected Apply Errata
All Repositories Search Errata ID	Default Organization	 	ble 🔲 Installab 9 of 19 (19 Total)	le		Infrastructure -	Administer - 1 Selected Apply Errata
All Repositories Search Errata ID	Default Organization	Applical Applical Applical Applical Important: ns	ble 🔲 Installab 9 of 19 (19 Total)	le			Administer - 1 Selected Apply Errata
All Repositories Search Errata ID RHSA-20	Default Organization	Applical Applical Applical Applical Important: ns	ble 📄 Installab 19 of 19 (19 Total) SS, NSS-util,	and nss-se			Administer - 1 Selected Apply Errata
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All Repositories Search Errata ID RHSA-20 RHEA-20 RHEA-20 RHEA-20 RHBA-20	Default Organization	Applical Applical Applical Applical Applical Apply RHSA-207 These Errata are no created which will n	ble Installab I9 of 19 (19 Total) SS, NSS-util, ntent Hosts act Content Hosts 14:1948 ot Installable via y make this Errata	le and nss-so Repositories s > Confirm	oftokn security, bu ontent View versions runnir host's Environment. This n	g fix, and enhancem g on the selected hosts. The ne	Administer - 1 Selected Apply Errata
All Repositories Search Perrata ID RHSA-20 RHBA-20 RHEA-20 RHEA-20 RHBA-20 RHBA-20	Default Organization	Applical Showing 1 Important: na Details Con Errata List > Sele Apply RHSA-201 These Errata are no created which will i install these errata	ble Installab I9 of 19 (19 Total) SS, NSS-util, ntent Hosts act Content Hosts 14:1948 ot Installable via y make this Errata	and nss-so Repositories s > Confirm vour published C Installable in the wosts after publis	oftokn security, bu	g fix, and enhancem g on the selected hosts. The ne w version will replace the curre	Administer - 1 Selected Apply Errata ent update x Close ew Content View Versions (specified below) will be int version in your host's Lifecycle Environment. To
All Repositories Search Errata ID RHSA-20 RHEA-20 RHEA-20 RHEA-20 RHEA-20 RHEA-20 RHEA-20 RHEA-20	Default Organization	Applical Showing 1 Important: na Details Con Errata List > Sele Apply RHSA-201 These Errata are no created which will install these errata Content View	ble Installab I9 of 19 (19 Total) SS, NSS-util, ntent Hosts act Content Hosts 14:1948 ot Installable via y make this Errata	and nSS-S4 Repositories s > Confirm	oftokn security, bu ontent View versions runnir host's Environment. This n	g fix, and enhancem g on the selected hosts. The ne w version will replace the curre Environment	Administer - 1 Selected Apply Erreta ent update x Close ew Content View Versions (specified below) will be int version in your host's Lifecycle Environment. To Host Count
All Repositories Search Errata ID RHSA-20 RHEA-20 RHEA-20 RHBA-20 RHBA-20 RHBA-20 RHBA-20 RHBA-20 RHBA-20	Default Organization	Applical Showing 1 Important: na Details Con Errata List > Sele Apply RHSA-201 These Errata are no created which will i install these errata	ble Installab I9 of 19 (19 Total) SS, NSS-util, ntent Hosts act Content Hosts 14:1948 ot Installable via y make this Errata	and nss-so Repositories s > Confirm vour published C Installable in the wosts after publis	oftokn security, bu ontent View versions runnir host's Environment. This n	g fix, and enhancem g on the selected hosts. The ne w version will replace the curre	Administer - 1 Selected Apply Errata ent update x Close ew Content View Versions (specified below) will be int version in your host's Lifecycle Environment. To
All Repositories Search Errata ID RHSA-20 RHBA-20 RHEA-20 RHEA-20 RHBA-20 RHBA-20 RHBA-20 RHBA-20 RHBA-20 RHBA-20	Default Organization s p14:1948 > p14:1875 p14:1875 p14:1866 p14:1637 p14:1515 p14:1515 p14:1426 p14:1378 p14:1376 p14:1376 p14:1472	Applical Applical Applical Applical Apportant: ns Details Con Errata List > Sele Apply RHSA-207 These Errata are no created which will n install these errata Content View RHEL Apply Errata to	ble Installab I9 of 19 (19 Total) SS, NSS-util, ttent Hosts act Content Hosts 14:1948 ot Installable via y make this Errata I immediately on h	le and nSS-SG Repositories s > Confirm vour published C Installable in the iosts after publis Version 2.1	oftokn security, bu ontent View versions runnir host's Environment. This n hing check the box below.	g fix, and enhancem g on the selected hosts. The ne w version will replace the curre Environment	Administer - 1 Selected Apply Erreta ent update x Close ew Content View Versions (specified below) will be int version in your host's Lifecycle Environment. To Host Count
All Repositories Search Frrata ID Frrata ID RHSA-20 RHBA-20 RHBA-20 RHBA-20 RHBA-20 RHBA-20 RHBA-20 RHBA-20 RHBA-20 RHBA-20 RHBA-20 RHBA-20	Default Organization	 Applical Showing 1 Important: ns Details Con Errata List > Sele Apply RHSA-207 These Errata are no created which will install these errata Content View RHEL 	ble Installab I9 of 19 (19 Total) SS, NSS-util, ttent Hosts act Content Hosts 14:1948 ot Installable via y make this Errata I immediately on h	le and nSS-SG Repositories s > Confirm vour published C Installable in the iosts after publis Version 2.1	oftokn security, bu ontent View versions runnir host's Environment. This n hing check the box below.	g fix, and enhancem g on the selected hosts. The ne w version will replace the curre Environment	Administer - 1 Selected Apply Erreta ent update x Close ew Content View Versions (specified below) will be int version in your host's Lifecycle Environment. To Host Count
All Repositories Search Perrata ID RHSA-20 RHBA-20 RHBA-20 RHBA-20 RHBA-20 RHBA-20 RHBA-20 RHBA-20 RHBA-20 RHBA-20 RHBA-20	Default Organization	Applical Applical Applical Applical Apportant: ns Details Con Errata List > Sele Apply RHSA-207 These Errata are no created which will n install these errata Content View RHEL Apply Errata to	ble Installab I9 of 19 (19 Total) SS, NSS-util, ttent Hosts act Content Hosts 14:1948 ot Installable via y make this Errata I immediately on h	le and nSS-SG Repositories s > Confirm vour published C Installable in the iosts after publis Version 2.1	oftokn security, bu ontent View versions runnir host's Environment. This n hing check the box below.	g fix, and enhancem g on the selected hosts. The ne w version will replace the curre Environment	Administer - 1 Selected Apply Erreta ent update x Close ew Content View Versions (specified below) will be int version in your host's Lifecycle Environment. To Host Count
All Repositories Search Errata ID RHSA-20 RHEA-20 RHEA-20 RHBA-20 RHBA-20 RHBA-20 RHBA-20 RHBA-20 RHBA-20 RHBA-20 RHBA-20 RHBA-20 RHBA-20 RHBA-20 RHBA-20 RHBA-20	Default Organization	Applical Applical Applical Applical Apportant: ns Details Con Errata List > Sele Apply RHSA-207 These Errata are no created which will n install these errata Content View RHEL Apply Errata to	ble Installab I9 of 19 (19 Total) SS, NSS-util, ttent Hosts act Content Hosts 14:1948 ot Installable via y make this Errata I immediately on h	le and nSS-SG Repositories s > Confirm vour published C Installable in the iosts after publis Version 2.1	oftokn security, bu ontent View versions runnir host's Environment. This n hing check the box below.	g fix, and enhancem g on the selected hosts. The ne w version will replace the curre Environment	Administer - 1 Selected Apply Erreta ent update x Close ew Content View Versions (specified below) will be int version in your host's Lifecycle Environment. To Host Count
All Repositories Search Errata ID RHSA-20 RHBA-20 RHEA-20 RHEA-20 RHBA-20 RHEA-20	Default Organization	Applical Applical Applical Applical Apportant: ns Details Con Errata List > Sele Apply RHSA-207 These Errata are no created which will n install these errata Content View RHEL Apply Errata to	ble Installab I9 of 19 (19 Total) SS, NSS-util, ttent Hosts act Content Hosts 14:1948 ot Installable via y make this Errata I immediately on h	le and nSS-SG Repositories s > Confirm vour published C Installable in the iosts after publis Version 2.1	oftokn security, bu ontent View versions runnir host's Environment. This n hing check the box below.	g fix, and enhancem g on the selected hosts. The ne w version will replace the curre Environment	Administer - 1 Selected Apply Erreta ent update x Close ew Content View Versions (specified below) will be int version in your host's Lifecycle Environment. To Host Count
All Repositories Search Errata ID HISA-20 RHBA-20	Default Organization	Applical Applical Applical Applical Apportant: ns Details Con Errata List > Sele Apply RHSA-207 These Errata are no created which will n install these errata Content View RHEL Apply Errata to	ble Installab I9 of 19 (19 Total) SS, NSS-util, ttent Hosts act Content Hosts 14:1948 ot Installable via y make this Errata I immediately on h	le and nSS-SG Repositories s > Confirm vour published C Installable in the iosts after publis Version 2.1	oftokn security, bu ontent View versions runnir host's Environment. This n hing check the box below.	g fix, and enhancem g on the selected hosts. The ne w version will replace the curre Environment	Administer - 1 Selected Apply Erreta ent update x Close ew Content View Versions (specified below) will be int version in your host's Lifecycle Environment. To Host Count
All Repositories Search Errata ID HISA-20 RHBA-20 RHBA-20 <tr< td=""><td>Default Organization</td><td>Applical Applical Applical Applical Apportant: ns Details Con Errata List > Sele Apply RHSA-207 These Errata are no created which will n install these errata Content View RHEL Apply Errata to</td><td>ble Installab I9 of 19 (19 Total) SS, NSS-util, ttent Hosts act Content Hosts 14:1948 ot Installable via y make this Errata I immediately on h</td><td>le and nSS-SG Repositories s > Confirm vour published C Installable in the iosts after publis Version 2.1</td><td>oftokn security, bu ontent View versions runnir host's Environment. This n hing check the box below.</td><td>g fix, and enhancem g on the selected hosts. The ne w version will replace the curre Environment</td><td>Administer - 1 Selected Apply Erreta ent update x Close ew Content View Versions (specified below) will be int version in your host's Lifecycle Environment. To Host Count</td></tr<>	Default Organization	Applical Applical Applical Applical Apportant: ns Details Con Errata List > Sele Apply RHSA-207 These Errata are no created which will n install these errata Content View RHEL Apply Errata to	ble Installab I9 of 19 (19 Total) SS, NSS-util, ttent Hosts act Content Hosts 14:1948 ot Installable via y make this Errata I immediately on h	le and nSS-SG Repositories s > Confirm vour published C Installable in the iosts after publis Version 2.1	oftokn security, bu ontent View versions runnir host's Environment. This n hing check the box below.	g fix, and enhancem g on the selected hosts. The ne w version will replace the curre Environment	Administer - 1 Selected Apply Erreta ent update x Close ew Content View Versions (specified below) will be int version in your host's Lifecycle Environment. To Host Count

Applying Several Errata

To apply several Errata:

- Navigate to: Content > Errata
- Select the desired Errata
- Click "Apply Errata"
- Select the intended Content Hosts
- Click "Next"
- Confirm the action

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Default Organia	zation - Monitor - Content - Cont	ainers - Hosts - Configure -	Infrastructure -	Administer -
rrata				
All Repositories	Applicable Installable			
Search	Q Showing 19 of 19 (19 Total)			1 Selected Apply Err
Errata ID	Title	Туре	Content Host Counts	Updated
RHSA-2014:1948 >	Important: nss, nss-util, and nss- softokn security, bug fix, and	A Security Advisory - Important	1 Applicable, 0 Installable	12/1/14
RHBA-2014:1875	enhancement update device-mapper-multipath bug fix update	₩ Bug Fix Advisory	1 Applicable, 1 Installable	11/18/14
RHEA-2014:1866	tzdata enhancement update	Product Enhancement Advisory	1 Applicable, 1 Installable	11/16/14
RHEA-2014:1733	tzdata enhancement update	Product Enhancement Advisory	1 Applicable, 1 Installable	10/28/14
RHBA-2014:1637	at bug fix update	豪 Bug Fix Advisory	1 Applicable, 1 Installable	10/14/14
RHBA-2014:1515	audit bug fix and enhancement update	₩ Bug Fix Advisory	1 Applicable, 1 Installable	10/13/14
RHBA-2014:1426	openIdap bug fix and enhancement update	∄ Bug Fix Advisory	1 Applicable, 1 Installable	10/13/14
RHBA-2014:1378	nss bugfix and enhancement update	豪 Bug Fix Advisory	1 Applicable, 1 Installable	10/13/14
RHBA-2014:1376	xcb-util, xorg-x11-drivers, and mesa bug fix and enhancement update	ℜ Bug Fix Advisory	1 Applicable, 1 Installable	10/13/14
RHEA-2014:1472	elfutils bug fix and enhancement update	Product Enhancement Advisory	1 Applicable, 1 Installable	10/13/14
RHEA-2014:1532	libnl3 enhancement update	Product Enhancement Advisory	1 Applicable, 1 Installable	10/13/14
RHEA-2014:1530	new packages: json-c	Product Enhancement Advisory	1 Applicable, 1 Installable	10/13/14
RHBA-2014:1384	subscription-manager bug fix and	斎 Bug Fix Advisory	1 Applicable, 1 Installable	10/13/14
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Default Organiz	zation - Monitor - Content - Cont	ainers - Hosts - Configure -	infrastructure -	Administer -

Errata

-	Repositories arch	 Applicable Installable Showing 19 of 19 (19 Total) 				1 Se	ected Apply Errata
	Errata ID	Apply Errata					Close
	RHSA-2014:1948						
	RHBA-2014:1875	Errata List » Select Content Hosts					
	RHEA-2014:1866	Only show content hosts where is current	lv availa	ble in the host's Lifecycle Envir	onment.		
	RHEA-2014:1733	Filter by Environment	\$				
	RHBA-2014:1637	Search	Q	Showing 1 of 1 (1 Total)			1 Selected
	RHBA-2014:1515						
	RHBA-2014:1426	Name	OS		Environment	Content View	
	RHBA-2014:1378	walden-rhei7.rdu.redhat.com	Red Ha	at Enterprise Linux Server 7.0	dev	RHEL	
	RHBA-2014:1376	Cancel Next					
	RHEA-2014:1472						
	RHEA-2014:1532						
	RHEA-2014:1530						
	RHBA-2014:1384						
	RHBA-2014:1555						
	RHBA-2014:1459						
	RHBA-2014:1590						
	RHEA-2014:1500						
	RHBA-2014:1362						

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Default Organization	- Monitor - Co	ontent - Containers	- Hosts - Con	igure - Infrastruct	ure -	Administer -
Errata						
All Repositories	Applicable	Installable				
Search	Q Showing 19 of	f 19 (19 Total)				1 Selected Apply Errata
Errata ID	Apply Errata					Close
RHSA-2014:1948						
BHBA-2014:1875	Errata List » Select C	Content Hosts » Confirm	n			
RHEA-2014:1866	These Frrata are not In	stallable via vour publish	ed Content View versio	ns running on the selec	ted hosts. The new Content Vie	ew Versions (specified below) will be
RHEA-2014:1733	created which will mak	e this Errata Installable in	the host's Environme	t. This new version will		our host's Lifecycle Environment. To
RHBA-2014:1637		nediately on hosts after p	-			
RHBA-2014:1515	Content View	Ver	sion	Environr	nent	Host Count
RHBA-2014:1426	RHEL	2.1		dev		1
RHBA-2014:1378	Apply Errata to Cor	tent Hosts immediately a	after publishing.			
RHBA-2014:1376	Cancel Confirm					
RHEA-2014:1472						
RHEA-2014:1532						
RHEA-2014:1530						
RHBA-2014:1384						
RHBA-2014:1555						
RHBA-2014:1459						
BHBA-2014:1590						
RHEA-2014:1500						
RHBA-2014:1362						

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HOME
GET STARTED 👻
GET HELP 👻
GET INVOLVED 🗸
NEWS -

3.2 🔻

1. Installation

1.1 Katello

1.2 Capsule

1.3 Clients

2. Upgrade

2.1 Katello

2.2 Capsule

2.3 Clients

2.4 Puppet

3. Release Notes

4. CLI

5. User Guide

5.1 Activation Keys

5.2 Backup

5.3 Capsules

5.4 Content

5.5 Content Hosts

5.6 Content Views

5.7 Disconnected

5.8 Docker Management

5.9 Email Notifications

5.10 Errata

5.11 Glossary

5.12 GPG Keys

5.13 Host Collections

5.14 Lifecycle Environments

5.15 Provisioning

5.16 Puppet Integration

5.17 Red Hat Content

6. Troubleshooting

Glossary

The following terms are used throughout this document, and are important for the users understanding of Katello.

Activation Key

A registration token which can be used in a kickstart file to control actions at registration. These are similar to Activation Keys

in Spacewalk, but they provide a subset of features because after registration, Puppet takes control of package and configuration management.

Application Lifecycle Environment

Steps in a promotion path through the Software (Development) Life Cycle (SDLC). Content (packages, puppet modules) can be moved through lifecycle environments via content view publishing/promotion. Traditionally these environments are things like Development -> Test -> Production. Channel cloning was used to implement this concept for this in Spacewalk.

Attach

Associating a Subscription to a Host which provides access to RPM content.

Capsule

An additional "server" that can be used in a Katello deployment to facilitate content federation and distribution in addition to other localized services (Puppet master, DHCP, DNS, TFTP, and more).

Change Set

Set of packages and puppet modules which are promoted between Application Lifecycle Environments. Katello records the progress of changesets as they promoted. Katello also provides audit capabilities to review how environments have changed over time.

Compute Profile

Default attributes for new virtual machines on a compute resource.

Compute Resource

A virtual fabric, or cloud infrastructure, where hosts can be deployed by Katello. Examples include RHEV-M, OpenStack, EC2, and VMWare.

Content

Software packages (RPMS), Package Groups, Errata, and Puppet modules. These are synced into the Library and then promoted into Lifecycle Environments via Content Views in order to be used/consumed by Hosts.

Content Delivery Network (CDN)

The mechanism to deliver Red Hat content in a geographically co-located fashion. For example, content which is synced by a Katello in Europe will pull content from a source in Europe.

Content View

A definition of content that combines products, packages, errata and Puppet modules, with capabilities for intelligent filtering and snapshotting. Content Views are a refinement of the combination of channels and cloning from Spacewalk.

External Node Classifier

A Puppet construct that provides additional data for a Puppet master to be used for configuring Hosts. Foreman acts as an External Node Classifier to Puppet Masters in a Satellite deployment.

Facter

A program that provides information (facts) about the system on which it is run (eg: total memory, operating system version, architecture, etc.) Facter facts can be used in Puppet modules in order to enable specific configurations based on Host data. **Hammer**

The command line tool for Katello. Hammer can be used as a standard cli (and used in scripts) and can also be used as a shell in the same way that spacecmd, virsh and others work.

Host

A system, either physical or virtual, which is managed by Katello.

Host Group

A template for how a Host should be built. This includes the content view (which defines the available RPMs and Puppet modules), and the Puppet classes to apply (which determines the ultimate software and configuration).

Location

A collection of default settings which represent a physical place. These can be nested so that a user can set up defaults, for example, for Europe, which are refined by Tel Aviv, which are refined by DataCenter East, and then finally by Rack 22. **Library**

The Library is the single origin of all content which can be used. If you are an Information Technology Infrastructure Library (ITIL) shop, it is your definitive media library.

Manifest

The means of transferring subscriptions from a Subscription Provider (such as the Red Hat Customer portal) to Katello. This is similar in function to certificates used with Spacewalk.

Organization

A tenant in Katello. Organizations, or orgs, are isolated collections of hosts, content and other functionality within a Katello deployment.

Permission

The ability to perform an action.

Product

A collection of content repositories.

Promote

The act of moving content from one Application Lifecycle Environment to another.

Provisioning Template

User defined templates for Kickstarts, snippets and other provisioning actions. These provide similar functionality to Kickstart Profiles and Snippets in Katello.

Puppet Agent

An agent that runs on a Host that applies configuration changes to that Host.

Puppet Class

A Puppet Class is re-usable named block of puppet manifest, similar to a class in an object-oriented programming language. Puppet classes must be included/instantiated in order to use their functionality. Puppet Classes can be parameterized - they can take parameters when they are included/instantiated and those parameters may be used by the underlying manifest to affect the ultimate configuration.

Puppet Manifest

A Manifest is a simple set of Puppet instructions. Manifests typically have the .pp extension. A manifest is much like a procedure in programming terms.

Puppet Master

A Capsule component that provides Puppet manifests to Hosts for execution by the Puppet Agent.

Puppet Module

A Puppet Module is a set of Puppet manifests/classes, template files, tests and other components packaged together in a specific directory format. Puppet Modules are typically associated with specific software (eg: NTP, Apache, etc) and contain various classes used to assist in the installation and configuration of that software. Puppet Labs maintains a repository of official and user-contributed modules called the Puppet Forge.

Pulp Node

A Capsule component that mirrors content. This is similar to the Spacewalk Proxy in Spacewalk. The main difference is that content can be pre-staged on the Pulp Node before it is used by a Host.

Repository

A collection of content (yum repository, puppet repository).

Role

A collection of permissions that are applied to a set of resources (such as Hosts).

Smart Proxy

A Capsule component that can integrate with external services, such as DNS or DHCP.

Smart Variable

A configuration value that controls how a Puppet Class behaves. This can be set on a Host, a Host Group, an Organization, or a Location.

Standard Operating Environment (SOE)

A controlled version of the operating system on which applications are deployed.

Subscription

The right to receive content and service from Red Hat. This is purchased by customers.

Syncing

Mirroring content from external resources into an organization's Library.

Sync Plans

Scheduled execution of syncing content.

Usergroup

A collection of roles which can be assigned to a collection of users. This is similar to the Role in Spacewalk.

User

A human who works in Katello. Authentication and authorization can be done via built in logic, or using external LDAP or kerberos resources.

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HOME
GET STARTED 🗸
GET HELP 🗸
GET INVOLVED -
NEWS -

3.2 🔻

1. Installation

1.1 Katello

1.2 Capsule

1.3 Clients

2. Upgrade

2.1 Katello

2.2 Capsule

2.3 Clients

2.4 Puppet

3. Release Notes

4. CLI

5. User Guide

5.1 Activation Keys

5.2 Backup

5.3 Capsules

5.4 Content

5.5 Content Hosts

5.6 Content Views

5.7 Disconnected

5.8 Docker Management

5.9 Email Notifications

5.10 Errata

5.11 Glossary

5.12 GPG Keys

5.13 Host Collections

5.14 Lifecycle Environments

5.15 Provisioning

5.16 Puppet Integration

5.17 Red Hat Content

6. Troubleshooting

Managing Content Hosts using GPG Keys

GPG Keys provide a way to verify the integrity of packages found within a Repository and/or Product. Once one or more GPG Keys have been created, they can be associated with a Product or Repository during creation or by editing an existing Product or Repository.

For more information on GPG Keys see The GNU Privacy Guard.

General Features

The following is a high-level summary of GPG Key features:

- Create a GPG Key
- View Associated Products
- View Associated Repositories
- Assocate GPG Key with Product

Create a GPG Key

To create a new GPG Key:

- navigate to: Content > GPG Keys
- click New GPG Key

Note that you may either upload your GPG Key or simply paste in the contents.

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View Associated Products

To view all Products that have been assigned a GPG Key:

- navigate to: Content > GPG Keys
- select the desired GPG Key from the list
- click Products

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Gpg Keys		
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My New GPG Key	Details Products Repositories	
	Products Pitter	
	Name	Repositories
	Super Awesome Product	2
	Meh Product	0

View Associated Repositories

To view all Repositories that have been assigned a GPG Key:

- navigate to: Content > GPG Keys
- select the desired GPG Key from the list
- click Repositories

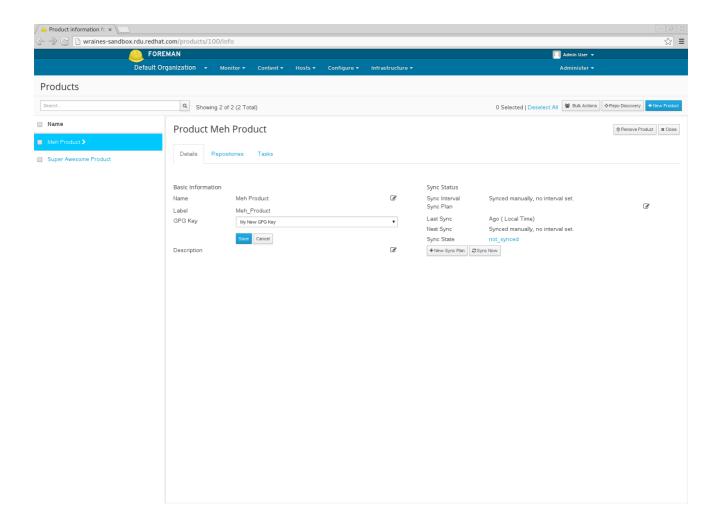
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Gpg Keys				
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	Name	Product	Туре	
	Another Not So Awesome Repository	Super Awesome Product	puppet	
	Super Awesome Repository	Super Awesome Product	yum	

Associate GPG Key with Product

To add a GPG to a Product:

Note that adding a GPG Key to a Product adds the GPG Key to all current and future repositories unless a repository already has a GPG Key assigned. This can also be overriden by assignming a GPG Key to an individual repository afterward as well.

- navigate to: Content > Products
- select the desired Product from the list
- click Details
- click the edit button on the GPG Key field
- select the desired GPG Key



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HOME
GET STARTED 👻
GET HELP 🗸
GET INVOLVED 🗸
NEWS -

3.2 🔻

1.1 Katello

1.2 Capsule

1.3 Clients

- 2. Upgrade
 - 2.1 Katello
 - 2.2 Capsule
 - 2.3 Clients
 - 2.4 Puppet
- 3. Release Notes
- 4. CLI
- 5. User Guide
 - 5.1 Activation Keys
 - 5.2 Backup
 - 5.3 Capsules
 - 5.4 Content
 - 5.5 Content Hosts
 - 5.6 Content Views
 - 5.7 Disconnected
 - 5.8 Docker Management
 - 5.9 Email Notifications
 - 5.10 Errata
 - 5.11 Glossary
 - 5.12 GPG Keys
 - 5.13 Host Collections
 - 5.14 Lifecycle Environments
 - 5.15 Provisioning
 - 5.16 Puppet Integration
 - 5.17 Red Hat Content
- 6. Troubleshooting

Managing Content Hosts using Host Collections

Host Collections provide a mechanism to statically group multiple Content Hosts. This enables administrators to group Content Hosts based on the needs of their organization. For example, Content Hosts could be grouped by function, department or business unit.

Once a Host Collection is created, it can be used to perform various actions on the Content Hosts contained within it. This includes actions such as the following:

- Package installation, removal and update
- Errata installation
- Changing of assigned Lifecycle Environment or Content View

Definitions

• Content Host

General Features

The following is a high-level summary of the Host Collection features:

- Create a Host Collection
- Add Content Hosts to a Host Collection
- Copy a Host Collection
- Perform actions on a Host Collection

Create a Host Collection

To create a new collection,

- navigate to: Hosts > Host Collections
- click New Host Collection

Note the following option:

• Content Host Limit. This option will control how many Content Hosts are allowed to be added to the collection.

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		Cancel Save				

Add Content Hosts to a Host Collection

To add Content Hosts to a collection:

• navigate to: Hosts > Host Collections

- select the desired collection from the list
- click Content Hosts
- click Add
- select the Content Hosts you would like to add
- click Add Selected

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research >	Details Content Hosts			
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	Search C	Showing 2 of 2 (2 Total) Content Hosts	2 Selected Deselect All Add Selected	
	🗌 Name	Environment	Content View	
	Most1.example.com	Library	Default Organization View	
	host2.example.org	Library	Default Organization View	

Copy a Host Collection

Copying a Host Collection allows a user to quickly create a new collection that is a copy of an existing one.

To copy a Host Collection:

- navigate to: Hosts > Host Collections
- select the desired collection from the list
- click Copy Collection
- enter a name for the new collection
- click Create

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host1.example.com	Library	Default Organization View
host2.example.org	Library	Default Organization View
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Perform Actions on a Host Collection

To perform an action on Content Hosts within a collection:

- navigate to: Hosts > Host Collections
- select the desired collection from the list
- click Collection Actions
- click on the action that you would like to perform

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Host Collections		
Search	Q Showing 2 of 2 (2 Total)	0 Selected Deselect All + New Host Collection
Name development	Host Collection: research	Remove Copy Collection Close
research >	Details Content Hosts Collection Actions	
	 The following actions can be performed on content hosts in this host collection: Package Installation, Removal, and Update Errata Installation Host Collection Membership Change assigned Environment or Content View 	

Note: clicking on an action will take the user to the appropriate Content Hosts Bulk Actions page, where all Content Hosts associated with the collection have been selected. Click here, for more information on performing Content Host Bulk Actions

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GET STARTED 👻
GET HELP 👻
GET INVOLVED 🗸
NEWS -

3.2 🔻

1. Installation

1.1 Katello

1.2 Capsule

1.3 Clients

2. Upgrade

2.1 Katello

2.2 Capsule

2.3 Clients

2.4 Puppet

3. Release Notes

4. CLI

5. User Guide

5.1 Activation Keys

5.2 Backup

5.3 Capsules

5.4 Content

5.5 Content Hosts

5.6 Content Views

5.7 Disconnected

5.8 Docker Management

5.9 Email Notifications

5.10 Errata

5.11 Glossary

5.12 GPG Keys

5.13 Host Collections

5.14 Lifecycle Environments

5.15 Provisioning

5.16 Puppet Integration

5.17 Red Hat Content

6. Troubleshooting

Lifecycle Environments

What can a Lifecycle Environments be used for?

Hold content view versions.

• To manage the lifecycle of Content Hosts.

• Establish workflow containers and promote content views.

Definitions

- Lifecycle Environment containers for content view versions which are consumed by content hosts.
- Library a special kind of Lifecycle Environment that does not have a parent. The library serves as the main container for synced content such as products, puppet modules, and published content views. Every organization has a library. Subsequent environments are derived from the library. The first node of an environment is the Library, all future environments are derived from the library and follow the library in promotion order.
- Lifecycle Environment Path Sequence of lifecycle environments that form the content promotion order.

General Workflow

First create a lifecycle environment connected to the library life cycle environment and promote content views to the new lifecycle environment. A Content Host can now register directly to the promoted content view in the promoted environment or library therein. Updates will be available as soon as new content is synced and promoted.

Viewing the list of lifecycle environments

From the web UI, navigate to:

Content -> Lifecycle Environments



Creating a lifecycle environment

Click on the + next to the Library or the prior environment to add a new path

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Environment Path							
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Label*	Prod						
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	Cancel Save						

Creating a lifecycle environment path

Click on the New Environment Path

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Environment Path					
Library +					
Create Environment					Close
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Label*	Dev2				
Description				<i>h</i>	
	Cancel Save				
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Library Dev QA Prod	+					

View/Updating environment name

Click on the name of the environment.

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Lifecycle Environment Pa	ths				+ New Environment Path
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HOME
GET STARTED 👻
GET HELP 🗸
GET INVOLVED -
NEWS -

3.2 💌

1. Installation

1.1 Katello

1.2 Capsule

1.3 Clients

2. Upgrade

2.1 Katello

2.2 Capsule

2.3 Clients

2.4 Puppet

3. Release Notes

4. CLI

- 5. User Guide
 - 5.1 Activation Keys
 - 5.2 Backup

5.3 Capsules

5.4 Content

5.5 Content Hosts

5.6 Content Views

5.7 Disconnected

5.8 Docker Management

5.9 Email Notifications

5.10 Errata

- 5.11 Glossary
- 5.12 GPG Keys
- 5.13 Host Collections

5.14 Lifecycle Environments

5.15 Provisioning

- 5.16 Puppet Integration
- 5.17 Red Hat Content
- 6. Troubleshooting

Provisioning

See the Foreman manual for general information on configuring provisioning.

Templates

Katello ships a number of templates in addition to the standard Foreman ones. When using these templates, if a host has a Host group with an Activation Key, it will register as a Content Host automatically.

- Katello Kickstart Default Kickstart template for Fedora, CentOS, RHEL, and other Red Hat-compatible operating systems.
- Katello Kickstart Default Finish image-based provisioning
- Katello Kickstart Default User Data cloud-init template for EC2 and OpenStack
- subscription_manager_registration Snippet for registering a host for content

To customize any of the above templates, simply clone them and add your changes.

When you synchronize a repository with a distribution such as Fedora or CentOS, Katello will automatically create the operating system and assign these default templates. You may change the defaults by going to Administer > Settings, and selecting the Katello tab.

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HOME
GET STARTED 👻
GET HELP 🗸
GET INVOLVED 🗸
NEWS -

Katello 3.2 Documentation

3.2 🔻

1. Installation

1.1 Katello

1.2 Capsule

1.3 Clients

2. Upgrade

2.1 Katello

2.2 Capsule

2.3 Clients

2.4 Puppet

3. Release Notes

4. CLI

5. User Guide

5.1 Activation Keys

5.2 Backup

5.3 Capsules

5.4 Content

5.5 Content Hosts

5.6 Content Views

5.7 Disconnected

5.8 Docker Management

5.9 Email Notifications

5.10 Errata

5.11 Glossary

5.12 GPG Keys

5.13 Host Collections

5.14 Lifecycle Environments

5.15 Provisioning

5.16 Puppet Integration

5.17 Red Hat Content

6. Troubleshooting

Managing Puppet Content

Importing the Puppet Forge

The Puppet Forge is a collection of puppet modules written by the community which can be used to manage hosts in Katello.

These modules can be used in content views as described in the content views guide in order to configure the running hosts.

To import the puppet forge navigate to

Content > Products

Click on the *+New Product* button.

Once the product is created, select the product and click the Create Repository button. Fill out the repositiory as shown:

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Default Organization	 Monitor	ucture 👻 Administer 👻
Products		
Search	Q Showing 1 of 1 (1 Total)	0 Selected Deselect All 🖉 Bulk Actions 🔤 Repo Discovery
🔲 Name	Product Puppet	Close
Puppet >	Details Repositories Tasks	
	« Add New Repository	
	Name* forge	
	Label* forge	
	Type* puppet	Y
	URL https://forge.puppetlabs.com/	
	Cancel Save	

This can be done via the CLI:

hammer product create organization "Default Organization" name Puppet
hammer repository create organization "Default Organization" product Puppet name forge content-type puppet url "https://forge.puppetlabs.com/"

The repository can now be synced.

Importing Puppet Modules from Git

In order to allow users to import puppet modules from Git repositories, Katello comes with a tool called 'pulp-puppet-modulebuilder' from the pulp-puppet-tools RPM. This utility will be available on the Katello server but it can also be installed on another machine if desired. By running the 'pulp-puppet-module-builder' against a Git repository, it will checkout the repository, build all of the modules, and publish them in a structure Katello can synchronize.

The most common method is to run the utility on the Katello server itself and publish to a local file system directory and sync against that directory.

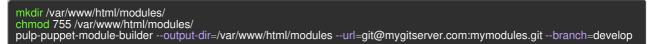


This will checkout the 'develop' branch of the Git repository located at 'git@mygitserver.com:mymodules.git' and publish them to the /modules directory. If you have SELinux enabled, in order to sync from the file system, you'll need to apply a label to the files in order for the system to access them. Two options are httpd_sys_r_content_t or pulp_tmp_t. Note: if you choose httpd_sys_r_content_t then the webserver can also read the files so that may or may not be good. One way to apply these

labels would be to use the chcon command.

Next, from within Katello, simply set the url on your Puppet Repository to 'file://modules'. You can now sync the Repository just like any other Repository.

If you are running this on a remote machine, you will need to publish the containing to folder to a location accessible by HTTP or HTTPS.



Then in Katello, simply enter 'http://HOSTNAME/modules/' for the Repository url and sync it like you normally would.

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HOME
GET STARTED 🗸
GET HELP 🗸
GET INVOLVED -
NEWS -

Katello 3.2 Documentation

3.2 🔻

1.1 Katello

1.2 Capsule

1.3 Clients

2. Upgrade

2.1 Katello

2.2 Capsule

2.3 Clients

2.4 Puppet

3. Release Notes

4. CLI

5. User Guide

5.1 Activation Keys

5.2 Backup

5.3 Capsules

5.4 Content

5.5 Content Hosts

5.6 Content Views

5.7 Disconnected

5.8 Docker Management

5.9 Email Notifications

5.10 Errata

5.11 Glossary

5.12 GPG Keys

5.13 Host Collections

5.14 Lifecycle Environments

5.15 Provisioning

5.16 Puppet Integration

5.17 Red Hat Content

6. Troubleshooting

Red Hat Content

Katello can be used to manage content associated with Red Hat products based upon available subscriptions. This includes content such as RPMs, package groups, errata and distributions.

Definitions

- Subscription Manifest An archive file containing certificates and data that represent the subscriptions that are available. A subscription manifest is created and downloaded from the Red Hat Customer Portal.
- Repository Collection of content (either rpm or puppet).
- Product Collection of repositories (content hosts attach to a product).
- Library The initial lifecycle environment where repositories are created. Content that is synced or uploaded lands in the library.

General Workflow

The following is a high-level summary of the workflow:

- Create a subscription manifest using the Red Hat Customer Portal
- Import the subscription manifest
- Enable Red Hat repositories
- Synchronize repositories
- Schedule repository synchronization
- Attach a content host to a product for Red Hat content

Create a Subscription Manifest Using the Red Hat Customer Portal

If you are a Red Hat customer, you should have access to the Red Hat Customer Portal to create and download a subscription manifest. Once created, the manifest can be imported in to a Katello Organization.

To access the Red Hat Customer Portal, click here

For details on how to create a subscription manifest, click here

Import the Subscription Manifest

Importing a subscription manifest will allow for Red Hat content associated with purchased subscriptions to be enabled and synchronized to Katello.

To import a manifest,

- navigate to: Content > Red Hat Subscriptions
- click Choose File
- navigate to the file containing the manifest (e.g. manifest.zip)
- click Open
- click Upload

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ECME Organizatio	ON ▼ Monitor▼ Content▼ Hosts▼ Configure▼ Infrastructure▼	Administer 🗸
Subscriptions		
Search	Q Showing 0 of 0 (0 Total)	Manage Manifest
Consumed	Subscription Manifest	¥ Close
	Details Actions Import History Red Hat Provider Details Repository https://cdn.redhat.com Red Fat Provider Details Import History URL Subscription Manifest Upstream No subscription manifest imported Subscription Managment Application Upload Upload Manifest.zip Upload Manifest History Message Time	

Enable Red Hat Repositories

Once a subscription manifest is imported, access is available to potentially hundreds of Red Hat Repositories (e.g. Red Hat Enterprise Linux Server, Red Hat Enterprise Virtualization...etc). This process allows you to select only those that you are interested in for your enterprise.

To enable Red Hat repositories,

- navigate to: Content > Red Hat Repositories
- select the content type: RPMs, Source RPMs, Debug RPMs, Beta, ISOs or Other
- select one or more Red Hat products (e.g. Red Hat Enterprise Linux Server)
- select one or more Repsitory Sets (e.g. Red Hat Enterprise Linux 6 Server (RPMs))
- select one or more Repositories (e.g. Red Hat Enterprise Linux 6 Server RPMs x86_64 6Server)

Note:

- When enabling a RHEL repository, Red Hat recommends selecting the Server repo (e.g. 6Server, 5Server) versus a specific release (e.g. 6.2). When a specific release is necessary, the preferred way is to create a Content View with filters that narrow the content to the desired version (e.g. 6.2)
- If you plan to provision content hosts, be sure to enable both the RPM and Kickstart repositories.

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	ECME Organizat	ion 🚽	Monitor 👻	Content 🗸	Hosts 🕶	Configure 🗸	Infrastructure 🗸	A	dminister -	
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Enable E	ed Hat Repositorie	26								
RPMs	Source RPMs	Debug R	PMs Be	ta ISOs	Other					
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▶ Red	l Hat Enterprise Linux F	Resilient Sta	orage for RHE	EL Server						
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		Red Hat Enterprise Linu	ıx 6 Server Kickstart i386	6.4	
		Red Hat Enterprise Linu	ıx 6 Server Kickstart i386	6.5	
		Red Hat Enterprise Linu	ıx 6 Server Kickstart i386	6Server	
		Red Hat Enterprise Linu	ıx 6 Server Kickstart x86_	64 6.1	
		Red Hat Enterprise Linu	ix 6 Server Kickstart x86_	64 6.2	
		Red Hat Enterprise Linu	ix 6 Server Kickstart x86_	64 6.3	
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		Red Hat Enterprise Linu	ıx 6 Server Kickstart x86_	64 6.5	
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		Red Hat Enterprise Linu	ix 6 Server RPMs x86_64	6.3	
		Red Hat Enterprise Linu	ix 6 Server RPMs x86_64	6.4	
		Red Hat Enterprise Linu	ix 6 Server RPMs x86_64	6.5	
		Red Hat Enterprise Linu	ix 6 Server RPMs x86_64	6Server	

Synchronize Repositories

Synchronizing a repository will retrieve all associated content and mirror the content in the Katello Library lifecycle environment.

To sync multiple repositories as well as track their progress,

- navigate to: Content > Sync Status
- expand the desired products
- select the repositories to sync
- click Synchronize Now

Sync Status 🗙 🗌								
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ECME Organiza	tion 👻 Monit	or 👻 Content 👻	Hosts 🗸	Configure -	- Infrastructu	re 🔻	Administer •	
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PRODUCT				ST	ART TIME	DURATION	SIZE (PACKAGES)	RESULT
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▼ 6Server								
▼ x86_64								
🗹 Red Hat Enterprise Lin	ux 6 Server Kickstart	x86_64 6Server					0 Bytes (0)	
🗹 Red Hat Enterprise Lin	ux 6 Server RPMs x8	6_64 6Server					0 Bytes (0)	
								Synchronize

Schedule Repository Synchronization

Creating a Sync Plan

Sync plans provide the ability to schedule repository synchronization on a daily, weekly or a monthly basis. Sync plans can be applied individually or to a set of repositories.

To create a Sync Plan:

- navigate to: Content > Sync Plans
- click New Sync Plan on the upper right

Note the following options:

• *Start Date* and *Start Time*: specify the day of the week/month and time of the day to run the recurring syncs. For example, a sync plan that starts on Sunday 2014-04-06 at 2:30 will occur every Sunday at 2:30 every week if it has a weekly interval. If on a monthly interval it would sync every month on the 6th day at 2:30.

New Sync Plan x	2		 	
📀 🚸 🧭 🗋 fortello.devel:3	3000/katello/sync_plans#/	new		값 🛛 🗮
ECME Organiz		Content - Hosts	Infrastructure 🗸	Administer 🗸
Sync Plans				
Search	Q Showing 0 of 0 (0	Total)		0 Selected Deselect All 🕘 New Sync Plan
Name	New Sync Plan	ı		× Close
	Name*	Weekly Sync		
	Description		1.	
	Interval	weekly	¥	
	Start Date*	2014-04-15		
	Start Time (-0400 GMT)*	17 : 06		
		Cancel Save		

Assigning a Sync Plan to a Red Hat Product

To assign a sync plan to a product,

- navigate to Content > Sync Plans
- select your Sync Plan
- click Products
- click Add
- select the products that you want to add
- click Add Selected on the upper right

Sync Plans ×				
	3000/katello/sync_plans#/sync-plans/1/	products/add		☆ 9 =
				🏳 Admin User 👻
ECME Organiz	zation - Monitor - Content -	Hosts 👻 Configure 👻	Infrastructure 👻	Administer 👻
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Search	Q Showing 1 of 0 (0 Total)			0 Selected Deselect All New Sync Plan
🗌 Name	Sync Plan Weekly Sync			窗 Remove Sync Plan X Close
Weekly Sync >	Details Products			
	Product Management			
	Filter			1 Selected Deselect All Add Selected
	🔲 Name	Description	Sync Status	Repositories
	Red Hat Enterprise Linux Server		Never synced	2

Attach a Content Host to a Product for Red Hat Content

To read about registering a content host and subscribing it to a product, click TODO.

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НОМЕ	
GET STARTED 👻	
GET HELP 👻	
GET INVOLVED 🗸	
NEWS 🗸	

Katello 3.2 Documentation

3.2 💌

1. Installation	
1.1 Katello	
1.2 Capsule	
1.3 Clients	
2. Upgrade	
2.1 Katello	
2.2 Capsule	
2.3 Clients	
2.4 Puppet	
3. Release Notes	
4. CLI	
5. User Guide	
5.1 Activation Keys	
5.2 Backup	
5.3 Capsules	
5.4 Content	
5.5 Content Hosts	
5.6 Content Views	
5.7 Disconnected	
5.8 Docker Management	
5.9 Email Notifications	
5.10 Errata	
5.11 Glossary	
5.12 GPG Keys	
5.13 Host Collections	
5.14 Lifecycle Environments	
5.15 Provisioning	
5.16 Puppet Integration	
5.17 Red Hat Content	
6. Troubleshooting	
Katello Troubleshootir	g

For general support information, see here.

Table of Contents

• Sub-service Status

- Tasks
- Debug Certificate
- FAQ

Sub-services status

Katello uses a set of back-end services to perform the actual job. The status of these services can negatively influence the whole system and it's one of the first things to check when some errors occur.

The status of back-end services can be found either from the Web UI on the /about page:

Abc			ttps://katello.examp	<u></u>	flow Console	×)	
<u>_</u> ••>>>	Default_Organiz		• Monitor •	Content -	Hosts -	Configure •	v Infrastructure v	☆ =
							System Information Version 1.6.0-RC1 © 2009-2014 Paul Ke Levy	lly and Ohad
	Backend Syste	em Statı	JS				Installed Packages	
	Component	Status	Message					
	candlepin	FAIL	Connection refus	ed - connect(2	<u>?</u>)			
	candlepin_auth	FAIL	A backend servic	e [Candlepin]] is unreacha	ible		ſ
	elasticsearch	ОК						
	foreman_tasks	ок						
	pulp	OK						
	pulp_auth	ок						

Alternatively, the hammer ping command can be used to get this information.

katello-service tool can be used to restart Katello related services. See man katello-service for more details.

Tasks

Katello uses Foreman Tasks for orchestration between the underlying services (local database, Pulp, Candlepin...). The tasks are modeled as Dynflow processes. When something goes wrong (and there might be many reasons for this happening), Dynflow gives us the tools to recover from these errors to get to the consistent state.

Health checking

There are two properties used for identifying issues with a task:

- state what phase of execution is the task in, possible values are:
 - **planning** the planning phase of the task is performed: the operations performed in this phase shouldn't modify anything outside Katello's database. The execution of this phase happens in the web-process thread and usually should not take more than few seconds
 - planned the planning phase finished and the task is waiting for the executor process (foreman-tasks service) to pick it up
 - **running** the executor is performing the orchestration action, modifying the state of external services to converge to the final state
 - paused something went wrong during running the task and it's waiting for the resolution (further details below)
 - stopped the execution of the task finished (the success is determined by the result value)
 - result how the task ended up (or is going to end up if we already know it)
 - pending task is in the process of executing
 - success no errors occurred during the execution
 - error unresolved errors occurred during the execution
 - **warning** there were errors during the execution, but they did not prevent the task from finishing or were skipped manually (further details below).

To see all the tasks in the system, one can go to /foreman_tasks/tasks page. To see all the tasks that failed, one can search on

ersions for Content \ x	result+%2	Dterror		
FOREMAN Default_Organization Monitor Content Hosts		astructure		nin User ▾ Iminister ▾
Tasks result = error × Q Search •				
Action	State	Result	▲ Started at	User
Publish content view 'My view'; organization 'Default_Organization'	paused	error	2014-09-12 08:51:02 UTC	admin
Synchronize repository 'zoo 1.0'; product 'Zoo'; organization 'Default_Organization'	stopped	error	2014-09-11 12:28:29 UTC	admin
Create	stopped	error	2014-09-10 17:18:23 UTC	admin
Create	stopped	error	2014-09-10 14:28:00 UTC	admin
Destroy organization 'test'	stopped	error	2014-09-10 12:24:40 UTC	admin
Destroy organization 'test'	stopped	error	2014-09-10 11:22:46 UTC	admin
Create	stopped	error	2014-09-03 19:23:00 UTC	admin

Failed tasks include those in the 'stopped' or 'paused' state. The stopped tasks are already considered as resolved, there is no risk of inconsistency. The tasks in the 'stopped' state and the 'error' result are usually those failed during the planning phase (usually locking error or bad input data).

To see all the tasks requiring further assistance, filter on state = paused :

× 🕒 Dynflow Console	×				
man_tasks/tasks?utf8=√	&search=state	+%3D+pai	ised	5	∃
				🛛 Admin User 👻	
Content 👻 Hosts 👻	Configure -	Infrastru	cture -	Administer -	
× Q Search -					
	State	Result	▲ Started at	User	
efault_Organization'	paused	error	2014-09-12 08:51:02 UTC	admin	
	man_tasks/tasks?utf8=✓ Content → Hosts → × Q Search →	x Q Search ▼ State	x Q Search Y Search	man_tasks/tasks?utf8=√&search=state+%3D+paused Content ▼ Hosts ▼ Configure ▼ Infrastructure ▼ × Q Search ▼ State Result ▲ Started at	x Dynflow Console man_tasks/tasks?utf8= & ddmin User Admin User Administer Content • Hosts • Configure • Infrastructure • Administer • X Q State Result Attried at User

Dealing with paused task

Once the paused task is identified, one can investigate the problem causing the errors:

Service Servic	s × Dynflow Console ×	- 0 X
📀 🗞 🕃 🕼 🗤 🖓 🚱	ple.com/foreman_tasks/tasks?utf8=√&search=state+%3D+paused	☆ =
FOREMAN	A 📃	dmin User 👻 📫
Default_Organization -	Monitor → Content → Hosts → Configure → Infrastructure → Ac	dminister 👻
ORGANIZATION Default_Organization ► Manage Organizations		
LOCATION Any Location Manage Locations Publish content view 'My view'; o	× Q. Search Task Running Steps Errors Locks	×
	Action: Actions::Pulp::Repository::CopyDistribution	
	<pre>Input: {</pre>	

The resolution of the problem is dependent on the error details. The task may be resolvable by resuming the task: make sure the sub-services are running (see Sub-services status for more details) and then click 'Resume' within the web interface.

If this still doesn't help, one possible step is going to a Dynflow console (the button from task details takes you there):

Versions for Content X Dynflow Console X Dynflow Console X	
🐨 🗞 🔀 🕼 🕼 🕼 🚱 🕼 🚱 🚱 🚱 🚱 Safed	☆ 〓
Ended at:	
Plan Run Finalize	
	- 1
sequence concurrence	
	_
5: Actions::Candlepin::Environment::Create (success) [0.20s / 0.20s]	
	=
9: Actions::Pulp::Repository::CreateInPlan (success) [0.03s / 0.03s]	
12: Actions::Pulp::Repository::CopyRpm (success) [2.15s / 1.14s]	
14: Actions::Pulp::Repository::CopyErrata (success) [0.69s / 0.69s]	
16: Actions::Pulp::Repository::CopyPackageGroup (success) [1.26s / 0.76s]	
18: Actions::Pulp::Repository::CopyYumMetadataFile (success) [71.72s / 3.56s]	
20: Actions::Pulp::Repository::CopyDistribution (error) [291.56s / 5.21s] Skip	
Started at: 2014-09-12 08:52:23 UTC	_
Ended at: 2014-09-12 08:57:14 UTC	
Real time: 291.56s	
Execution time (excluding suspended state): 5.21s	-

Caution: Dynflow console is considered a low-level tool and should be used very carefully, ideally discussing other options before using its features

If the failed task was taken care of by other means (performing the failed steps manually) or it was identified as not critical to the whole task, one can **skip** the failed step and **resume** the task to continue. These tasks end up with **warning** result at the end, to indicate there was some difficulty during the run.

Dealing with Long Running Tasks

In came cases, there might be an issue with sub-services that make it appear as if the task is running for too long without any obvious evidence that something is occurring withing the task.

The first place to look in this case is filtering the tasks on state = running and looking at Running Steps in the task details:

Publish Content View: ×		
· · · · · ·	ple.com/foreman_tasks/tasks/8cb306e7-91a9-49cc-8172-77fbd15	2e0c5 5
		📃 Admin User 👻
Default_Organization 👻	Monitor ▼ Content ▼ Hosts ▼ Configure ▼ Infrastructure ▼	Administer 🗸
Task Running Steps	Errors Locks Raw	
Cancel Action:		
Actions::Pulp::Repo	sitory::CopyDistribution	
Input:		
Output:		
"_href"=>"/pulp "task_id"=>"f25 "tags"=> ["pulp:reposit	anagers.repo.unit_association.associate_from_repo", /api/v2/tasks/f25da4ae-b974-43e1-b232-9671209a70fd/", da4ae-b974-43e1-b232-9671209a70fd", ory:Default_Organization-My_view-1-Foreman-nightly_el6_x86_64 ory:Default_Organization-Foreman-nightly_el6_x86_64", associate"],	t",

In this case, the "start_time" => nil indicates that the task was not picked up by Pulp, which usually means some issues with running the Pulp workers. See (see Sub-services status for more details).

One can also go to the Dynflow console for even more details: the **suspended** state means that the step is waiting for the external task to finish - the **suspended** state itself doesn't have to indicate any error:

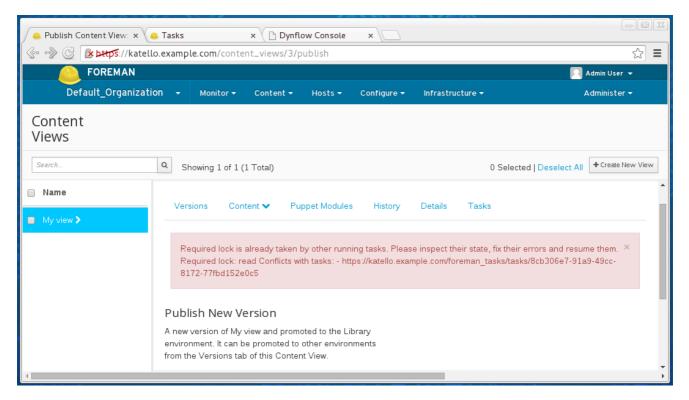
🗠 🛷 🕝 🕼 🕅 🚱 🚱 🚱 🚱 🚱 🏎 S.//katello.example.com/foreman_tasks/dynflow/d0fe4202-87f7-4218-9cbc-cd8bfb25afcd	
	☆
Status: running	
tesult: error	
tarted at: 2014-09-12 08:51:02 UTC	
inded at:	
Plan Run Finalize	
5: Actions::Candlepin::Environment::Create (success) [0.20s / 0.20s]	
9: Actions::Pulp::Repository::CreateInPlan (success) [0.03s / 0.03s]	
12: Actions::Pulp::Repository::CopyRpm (success) [2.15s / 1.14s]	
14: Actions::Pulp::Repository::CopyErrata (success) [0.69s / 0.69s]	
16: Actions::Pulp::Repository::CopyPackageGroup (success) [1.26s / 0.76s]	
18: Actions::Pulp::Repository::CopyYumMetadataFile (success) [71.72s / 3.56s]	
20: Actions::Pulp::Repository::CopyDistribution (suspended) [11976.09s / 6.20s] Cancel	

If you're sure the underlying services are running fine, depending on the type of task, there might be a possibility to cancel the running step and possibly following dealing with paused tasks instead.

Locking

Foreman tasks provides a locking mechanism which is important to prevent the possibility of operations colliding that are being performed concurrently on the same resource (such as synchronizing and deleting a repository at the same time).

When trying to run an operation on a resource that another task is already running, one can get Required lock is already taken by other running tasks. :



A locked resource is one where another task that is related to the same resource is already running. Thus, the task being attempted will result in that task being tried **in running or paused state**. This means that the error is triggered also in cases, where there is a task with unresolved failure (see dealing with paused tasks for more details).

In rare cases, it might be hard to get into the stopped state. There is a possibility to unlock the resource in the running / paused task. This will switch the task into stopped state, freeing the resources for other tasks. Caution: unlocking allows running other tasks to run on potentially inconsistent data, which might lead into further errors. It's still possible to go to the Dynflow console and resume the tasks, even after using the unlock feature. There are two unlock-related buttons: Unlock and Force Unlock . The only difference between these two is the second one is allowed even when the task is in running state, and therefore is potentially even more dangerous than the Unlock button. See dealing with tasks running too long before attempting to use the Force Unlock option.

Debug Certificate

Debug certificates (also called Ueber Certificates) can be used to unlock all the content for a given Organization. These are meant to be used by sysadmins who are debugging issues with the Katello install.

Generating a Debug Certificate

To generate a debug certificate for a given Organization from the UI, navigate to the organizations page and click on the organization for which you want a debug certificate. Click on the button to generate and download the certificate as highlighted below:

	FOREMAN						📃 Admin User 👻
An	y Context 👻	Monitor 🗸	Content 🗸	Hosts 🕶	Configure -	Infrastructure -	Administer 🗸

Edit Default Organization

Name *	Default Org	ganization						
Label *	Default_Or	ganization						
Description								
			1.					
Default System SLA	No Service	e Level Preference	•					
Debug certificate	Generate a	and Download		This certificate allow	ws a usei	r to view the repositorie	s in any environme	nt from a browser.
Users		All users						
Smart Proxies		All users						
		Select users	All items Filt	er H	t i	Selected items	_	
Subnets								
Compute Resources								
1. A. A. A.					4			
Media								

To generate a debug certificate using the API see the API docs located on your server running at /apidoc .

In either case, you will get the Private Key and Certificate returned to you in a format such as :



Using Firefox to browse content

If you wish to use the certificate to browse content via Firefox, do the following:

- 1. Copy the contents of the above file from -----BEGIN RSA PRIVATE KEY----- to -----END RSA PRIVATE KEY----- inclusive to a file called key.pem
- 2. Copy the contents of the above file from -----BEGIN CERTIFICATE----- to -----END CERTIFICATE----- inclusive to a file called cert.pem
- 3. Run the following command to create a pkcs12 file:

openssl pkcs12 -keypbe PBE-SHA1-3DES -certpbe PBE-SHA1-3DES -export -in cert.pem -inkey key.pem -out [NAME].pfx -name [N AME]

- 4. Provide a password when prompted.
- 5. Using the preferences tab, import the resulting pfx file into your browser (Edit->Preferences->Advanced Tab -> View Certificates -> Import)
- 6. Point your browser at http://[FQDN]/pulp/repos/[ORG_NAME]

To use curl to access the repository, you can provide –cert and –key options. Provided the cert is in ~/cert.pem and key in ~/key.cert, the following command will let you access any repository data in the organization. To check the access to a repository, checking the availability of repodata/repomd.xml is usually a good idea (make sure key.pem and cert.pem are "absolute paths" otherwise it silently fails):

curl -k --cert ~/cert.pem --key ~/key.pem https://katello.example.com/pulp/repos/test/Dev/custom/zoo/base-two/repodata/repond.xml

Frequently Asked Questions

Can I use pulp-admin with Katello?

We do not encourage the use of pulp-admin because it has the potential to get data out of sync. However, pulp-admin can be useful when troubleshooting Katello.

1. Install needed packages

yum install -y pulp-admin-client pulp-rpm-admin-extensions

- 2. Edit /etc/pulp/admin/admin.conf
- 3. Uncomment the 'host:' line and add your server's hostname:

host: katello-hostname.example.com

4. Run grep default_password /etc/pulp/server.conf to lookup the admin password

sudo grep default_password /etc/pulp/server.conf # default_password: default password for admin when it is first created; this default_password: rGox3G9QhfCRD8fTsNR7FxqdgbvfJfSJ

5. Use pulp-admin by specifying the admin username and password:

pulp-admin -u admin -p rGox3G9QhfCRD8fTsNR7FxqdgbvfJfSJ repo list

Using pulp-admin without password

Using the 'pulp-admin login' command does not function and is not supported with Katello in an attempt to limit access to the certificate authoriity generated at installation time.

Katello 3.0 generates a client cert at installation time which allows usage of pulp-admin without specifying the username and password. To use this:

- 1. mkdir ~/.pulp/
- 2. Copy the public client cert and private key to a file together:

sudo cat /etc/pki/katello/certs/pulp-client.crt /etc/pki/katello/private/pulp-client.key > ~/.pulp/user-cert.pem

3. Run pulp-admin without username and password:

pulp-admin repo list

How can I sync a repository like Katello does directly from the console?

Sometimes you want to debug why a synchronization of a repository from Katello is failing and rather than dig through log files and error messages it can often be easier to try to sync the repo with the "grinder" tool which is what Katello uses to download repositories. The tool can be ran from a terminal on your Katello server:

\$ grinder yum --label=sync-test --url=https://fedorapeople.org/groups/katello/releases/yum/1.0/RHEL/6Server/x86_64/
grinder.RepoFetch: INFO fetchYumRepo() repo_label = sync-test, repo_url =
https://fedorapeople.org/groups/katello/releases/yum/1.0/RHEL/6Server/x86_64/,
Calling RepoFetch: INFO sync-test, https://fedorapeople.org/groups/katello/releases/yum/1.0/RHEL/6Server/x86_64/,
Calling RepoFetch with: cacert=<None>, clicert=<None>, clikey=<None>, proxy_url=<None>, proxy_port=<3128>, proxy_user=<Non
e>,
proxy_pass=<NOT_LOGGED>, sslverify=<1>, max_speed=<None>, verify_options=<{}>, filter=<None>
...
grinder.ParallelFetch: INFO streads are active. 8 items left to be fetched
grinder.ParallelFetch: INFO thread sare active. 4 items left to be fetched
grinder.ParallelFetch: INFO 3 threads are active. 3 items left to be fetched
grinder.ParallelFetch: INFO 3 threads are active. 3 items left to be fetched
grinder.ParallelFetch: INFO 3 thread ending

You now have a directory called sync-test off of your current working directory:

\$ Is sync-test/ converge-ui-devel-0.8.3-1.el6.noarch.rpm elasticsearch-0.18.4-13.el6.noarch.rpm katello-10.6-1.el6.noarch.rpm katello-agent-1.0.6-1.el6.noarch.rpm katello-certs-tools-1.1.7-1.el6.noarch.rpm lucene3-contrib-3.4.0-2.el6.noarch.rpm repodata rubygem-actionmailer-3.0.10-3.el6.noarch.rpm Foreman 2.3.3 has been released! Follow the quick start to install it. Foreman 2.2.2 has been released! Follow the quick start to install it.

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