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Katello 3.11 Installation

These instructions are for installing Katello 3.11, 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).

Important Note for Existing Installations

Katello does not currently support installation on existing Foreman deployments. **DO NOT attempt to install Katello on an existing Foreman deployment**, unless you are a Foreman developer and willing to debug the broken configuration that will result from attempting an install on existing system.

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 Smart Proxy 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 7	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 7



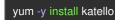
yum -y localinstall https://fedorapeople.org/groups/katello/releases/yum/3.11/katello/el7/x86_64/katello-repos-latest.rpm yum -y localinstall https://yum.theforeman.org/releases/1.21/el7/x86_64/foreman-release.rpm yum -y localinstall https://yum.puppetlabs.com/puppetlabs-release-pc1-el-7.noarch.rpm yum -y localinstall https://dl.fedoraproject.org/pub/epel/epel-release-latest-7.noarch.rpm yum -y install foreman-release-scl

Installation

After setting up the appropriate repositories, update your system:



Then 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:

foreman-installer --scenario katello --help

Note

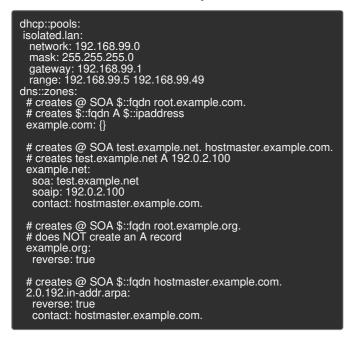
Prior to running the installer, the machine should be set up with a time service such as ntpd or chrony, since several Katello features will not function well if there is minor clock skew.

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>

Multiple subnets and domains

The installer only supports one subnet and one DNS domain via command line arguments. Multiple entries can be entered via /etc/foreman-installer/custom-hiera.yaml file:



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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Smart Proxy Installation

Hardware Requirements

The Smart Proxy 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 Smart Proxy services and required ports.

Installation

Install needed packages:

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

Once you get the repositories configured, install the formean-proxy-content package on the Smart Proxy

yum install -y foreman-proxy-content

Generate Certificates for the Smart Proxies

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

foreman-proxy-certs-generate --foreman-proxy-fqdn "myproxy.example.com"\ --certs-tar "~/myproxy.example.com-certs.tar"

In the above example, replace 'myproxy.example.com' with your Smart Proxy'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 Smart Proxy on using whatever method you prefer (e.g. SCP).

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

Installing Success!	Done	[100%] []
To finish the ir	stallation, follow the	ese steps:
 Copy ~/myp Run the foll parameters, 	proxy.example.com- owing commands o see foreman-instal	er-katello package is installed on the system. -certs.tar to the system myproxy.example.com in the Smart Proxy (possibly with the customized lerscenario foreman-proxy-contenthelp and setting up additional services):
subscription-m foreman-instal fc fc fc fc fc fc fc f	nanager registero lerscenario foren oreman-proxy-conte oreman-proxy-foren oreman-proxy-truste oreman-proxy-truste oreman-proxy-oauth oreman-proxy-oauth oreman-proxy-oauth erts-tar-file	kample.com/pub/katello-ca-consumer-latest.noarch.rpm rg "Default_Organization" nan-proxy-content\ ent-parent-fqdn "katello.example.com"\ ter-in-foreman "true"\ nan-base-url "https://katello.example.com"\ ed-hosts "katello.example.com"\ -consumer-key "UVrAZfMaCfBiiWejoUVLYCZHT2xhzuFV"\ n-consumer-secret "ZhH8p7M577ttNU3WmUGWASag3JeXKgUX" "/root/myproxy.example.com-certs.tar" -proxy-certs-generate.log

Install Smart Proxy

Use the provide installation command from **foreman-proxy-certs-generate**, and tailor for your own purposes as needed. The defaults will give you a Smart Proxy 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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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.

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

yum -y install https://dl.fedoraproject.org/pub/epel/epel-release-latest-5.noarch.rpm yum install -y https://yum.theforeman.org/client/1.21/el5/x86_64/foreman-client-release.rpm

Now you are ready to install the client package:

The **katello-host-tools** package reports errata & package profile information, but does not allow you to run remote actions on the clients.

yum install katello-host-tools

We generally recommend using Foreman Remote Execution or Ansible for remote actions, but we also offer a messaging bus based client that does have some limitations when used with a large number of clients.

yum install katello-agent

Optionally you can also install **katello-host-tools-tracer** and the client will report processes that need restarting after an update back to the Katello server.

yum install katello-host-tools-tracer

For Suse Clients, only katello-host-tools is supported:

zypper install katello-host-tools

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.

When provisioning new clients that should use Puppet 5, set a parameter called 'enable-puppet5' to 'true', so the templates know which package to install and where to place the configuration. This parameter can be placed at the host, host group, or another appropriate level of the hierarchy.

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Katello Upgrade

Katello supports upgrades from the previous two versions only. Upgrades should be performed sequentially without skipping versions in between.

Pre-upgrade

Before upgrading, run the upgrade check script that will check for any active tasks:

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

Step 3 - Repositories

Update the Foreman and Katello release packages:

• RHEL7 / CentOS 7:

yum update -y https://fedorapeople.org/groups/katello/releases/yum/3.11/katello/el7/x86_64/katello-repos-latest.rpm yum update -y https://yum.theforeman.org/releases/1.21/el7/x86_64/foreman-release.rpm yum update -y foreman-release-scl

Step 4 - Update Packages

Clean the yum cache

yum clean all

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 adjust the configuration to reflect what's new in Katello 3.11.

foreman-installer --scenario katello --upgrade

Step 6 - Reboot if necessary

If kernel packages are updated during Step 2 the system must be rebooted to ensure the new kernel and SELinux policy are loaded. If there are no kernel or selinux updates then this step can be omitted.

Congratulations!

You have now successfully upgraded your Katello to 3.11.

For a rundown of what was added, please see the release notes.

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Smart Proxy Upgrade

Step 1 - 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 2 - Repositories

Update the Foreman and Katello release packages:

• RHEL7 / CentOS 7:

yum update -y https://fedorapeople.org/groups/katello/releases/yum/3.11/katello/el7/x86_64/katello-repos-latest.rpm yum update -y https://yum.theforeman.org/releases/1.21/el7/x86_64/foreman-release.rpm

Step 3 - Update Packages

Clean the yum cache



Update packages:

yum update -y

yum install foreman-proxy-content

Step 4 - Regenerate Certificates

On the Katello server, regenerate the certificates tarball for your Smart Proxy:



And copy them to your Smart Proxy:

scp ~/myproxy.example.com-certs.tar myproxy.example.com:

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 3.11



Congratulations! You have now successfully upgraded your Smart Proxy to 3.11 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/foreman-proxy.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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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 (RHEL, CentOS, etc.)

yum update -y https://yum.theforeman.org/client/1.21/el5/x86_64/foreman-client-release.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 3.11 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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Katello 3.11 (Beautiful Disaster) Release Notes

Bug Fixes

This release contains a substantial set of bug fixes. Some notable ones include:

- hammer erratum list showing errata across Organizations when -organization-id is specified
- Vague errors given when publishing a Content View when Docker repositories have conflicting container names
- Capsule sync not being triggered when uploading a packing to a custom repository in Library
- Potential race condition when creating multiple repositories on the same Product
- Subscription Status widget showing incorrect information on the Dashboard

For the full release notes see the Changelog.

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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.

latest.rpm

Installation

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

Select your Operating System: Red Hat Enterprise Linux 7	
yum -ydisablerepo="*"enablerepo=rhel-7-server-rpms install yum-utils wget yum-config-managerdisable "*" yum-config-managerenable rhel-7-server-rpms yum-config-managerenable rhel-7-server-optional-rpms yum-config-managerenable rhel-7-server-extras-rpms	
yum -y localinstall https://fedorapeople.org/groups/katello/releases/yum/3.11/katello yum -y localinstall https://yum.theforeman.org/releases/1.21/el7/x86_64/foreman-re yum -y localinstall https://dl.fedoraproject.org/pub/epel/epel-release-latest-7.noarch	elease.rpm

After setting up the appropriate repositories, install Katello:

У	um -y install tfm-rubygem-hammer_cli_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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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

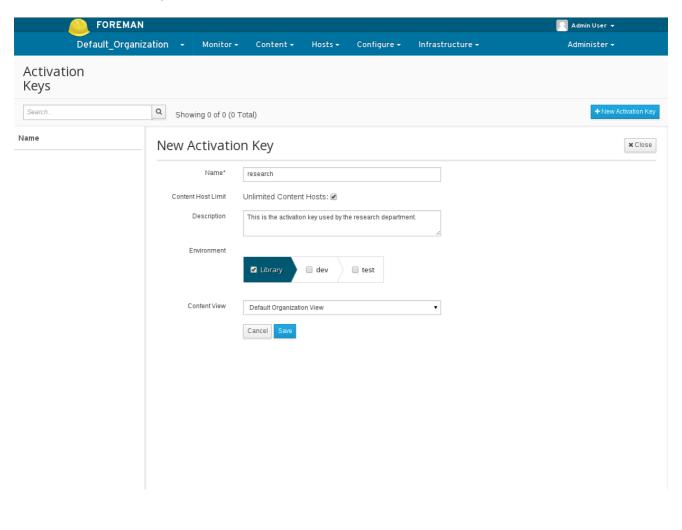
The following is a high-level summary of the Activation Key features:

- 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



- *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

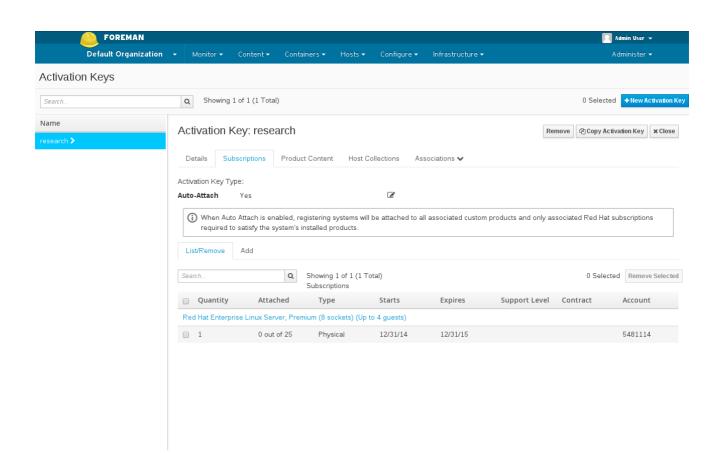
The Auto-Attach setting controls how the group of subscriptions are processed during registration.

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

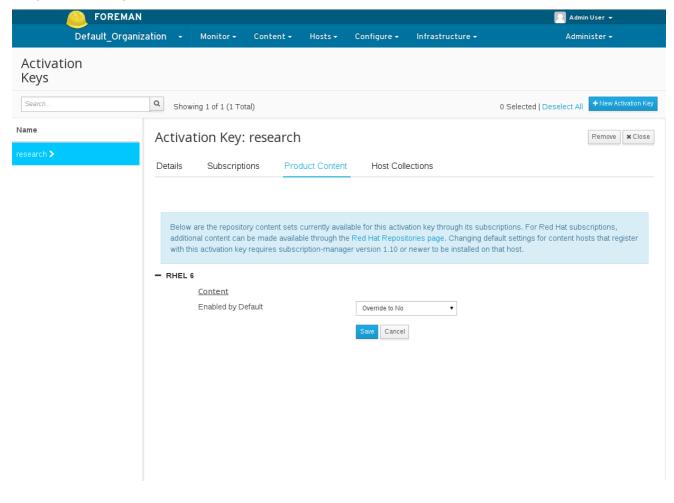
To change repository enablement settings using a key:

- 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:

E FOREMAN	I						📃 Admin User 👻	
Default_Organ	ization 🗸	Monitor -	Content -	Hosts 🗸	Configure -	Infrastructure -	Administer 🗸	
Activation Keys								
Search	Q Showin	ng 1 of 1 (1 Tot	al)				0 Selected Deselect All	
Name	Activat	ion Key:	research				Remove Close	
research >	Details	Subscripti		duct Content	Host Colle	ctions		
	addition with this	al content can activation key	be made availat	ble through th	e Red Hat Reposite		subscriptions. For Red Hat subscriptions, g default settings for content hosts that register d 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

	FOREMAN							🔽 Admi	n User 👻
	Default_Organiz	ation -	Monitor -	Content -	Hosts -	Configure -	Infrastructure -	Admi	nister -
Activatio Keys	n								
Search		Q Showin	ng 1 of 1 (1 Tot	al)				0 Selected Deselect All	+ New Activation Key
Name		Activat	ion Key:	research	ı				Remove X Close
research >		Details Host Collec List/Rem	Subscription ction Manager ove Add		duct Conten	t Host Colli	ections	2 Selected Deselect All	Add Selected
		🗌 Name			De	scription		Capacity	
		🗹 develo	pment					0 / Unlimited	
		🔲 finance	e					0 / Unlimited	
		🗹 resear	ch					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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Backup

Please use Foreman Maintain for backup and restore functionality. Foreman-maintain is a dependency of Katello starting in 3.7.

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Smart Proxies

What are Smart Proxies?

The Smart Proxy server is a Katello component that provides federated services to discover, provision, control, and configure hosts. Each Katello server includes a Default Smart Proxy, and you may deploy additional Smart Proxies to remote data centers. A Smart Proxy 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 Smart Proxy server is a means to scale out the Katello installation. Organizations can create various Smart Proxies 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 Smart Proxy servers subscribed to that environment. Hosts pull content and configuration from the Katello Smart Proxy servers in their location and not from the central server.

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

What is a Foreman Proxy with Content?

A Katello Smart Proxy 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 Smart Proxy. Larger deployments would have a single Katello server with multiple Smart Proxies attached, with these remote Smart Proxies deployed to various datacenters. Smart Proxies can also be used to scale the number of hosts attached to a single Katello server.

Installation

See Smart Proxy Installation

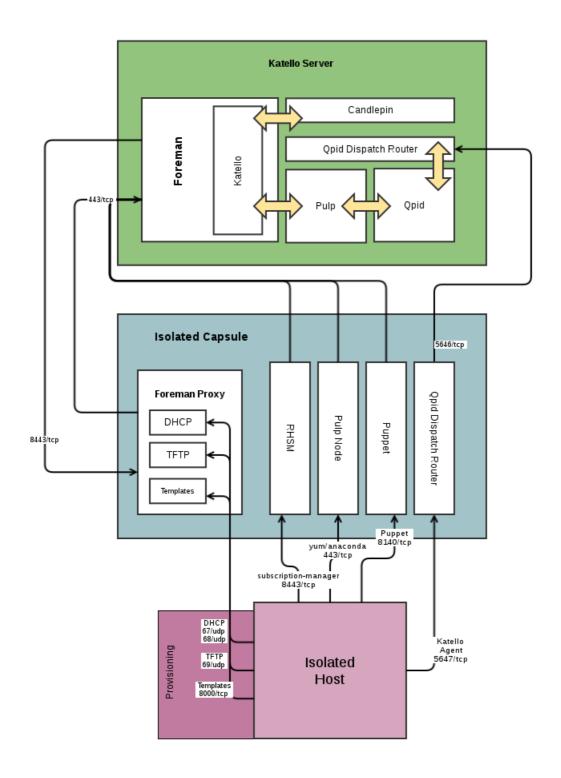
Removal

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

katello-remove

Smart Proxy Isolation

The goal of Smart Proxy 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 Smart Proxy itself. The following section details the communication clients need to have with a Smart Proxy. 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 Smart Proxies 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 Smart Proxy 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 Smart Proxy 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 Smart Proxy on port 5647/tcp

3 - Puppet & Puppet CA

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

Install Option:

• --puppet=true --puppetca=true .

Required Connectivity:

• Clients need to communicate with the Smart Proxy 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 Smart Proxy 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 Smart Proxy, and a DHCP server available. While not required, the Smart Proxy can provide the DHCP service. In order for the installer to obtain its kickstart template from the Smart Proxy, 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 Smart Proxy 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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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	s#/products/new			☆ 🏼 🕄
6 FOREMAN					🌅 Admin User 👻
MyCompany - Monitor		s 👻 Configure 👻	Infrastructure 🔫		Administer -
Products					
Search	Q Showing 0 of 0 (0	otal)		0 Selected Deselect All	Bulk Actions
Name	New Product				× Close
	Name*	Epel			
	Label*	Epel			
	GPG Key			T	
	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 🛛 🗙 📃				
🚱 📎 🥃 🗋 192.168.122.7	75:3000/katello/product	s#/products/127/repositories/new	ন্ধ্র 😉 🔕	≡
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Products				
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📄 Name	Product Epel			e
🔲 Epel 🗲				
	Details Repositor	ies Tasks		_
	« Add New Reposito	5		
	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		

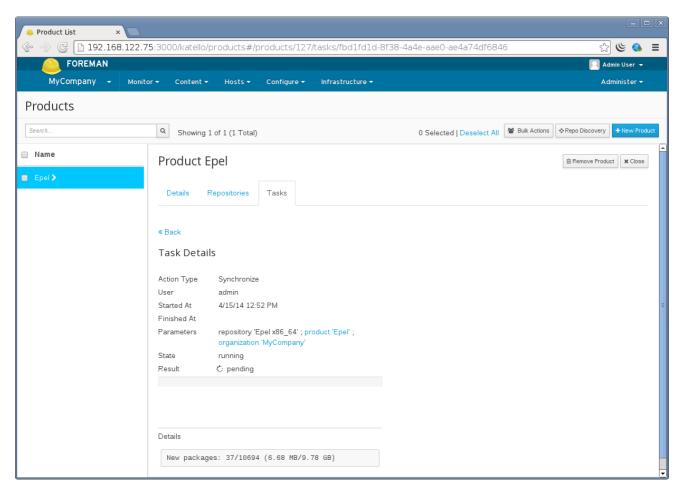
Syncing a Repository

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	×						-
) 🕝 🗋 abed.usersys.redhat.com:3000/katello/sync_management#!= 삶 🕲 🤇									
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
Name New Synd	Plan	¥ Close
	Name* Weekly Sync	
Des	sription	
	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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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

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

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ACM	ME_Corporation - Monitor -	Content 🕶 Hosts 🕶	Configure - Infrastructure -			Administer -
Content Hosts	S					
Search	Q Showing	5 of 5 (5 Total)			0 Selected Deselect All	Bulk Actions Register Content Hos
🗌 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.red	hat.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.red	hat.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.cor	m	Red Hat Enterprise Linux Server 6.5		MyDistro	6/19/14 4:45 PM	6/20/14 4:47 PM
testks.rdu.redhat.cor	m 🔸	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

Soreman		🦲 Admin User 👻
ACME_Corporation	✓ Monitor Content Hosts Configure Infrastructure	Administer -
Content Hosts		
Search	Q Showing 5 of 5 (5 Total) 0 Selected De	eselect All 📲 Bulk Actions 🗨 Register Content H
Name	Content Host dhcp129-73.rdu.redhat.com	Unregister Content Host X Close
] client.devel		
dhcp129-73.rdu.redhat.com >	Details Provisioning Details Subscriptions Host Collections Tasks Packages Errata Pro	oduct Content
dhcp129-81.rdu.redhat.com		
] testks.rdu.redhat.com	Basic Information Content Host Content Name dhcp129-73 rdu.redhat.com C Release Version	<i>⊠</i> ×
] testks.rdu.redhat.com	UUID 2df6452c-852d-4a58-b6ac-728362f913c1 Content View Default Organizati	on View 🛛 🗷
	Description Initial Registration Params C Environment Type Virtual Guest	
	Library Dev	
	Subscriptions	
	Subscription	
	Status Content Host Status Details Red Hat Enterprise Linux Server - Not supported by	
	a valid subscription. Registered 6/19/14 10:30 AM Auto-Attach Yes Checkin 7/10/14 12:56 PM	
	Auto-Attach Yes Crieckin 7/10/14/12.301 m	
	Activation Keys None	
	Networking	
	Hostname dhcp129-73.rdu.re	edhat.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 C			
Release Versio	r		I 🗙
Content View	Defa	ult Organization View	ſ
Environment			
🗹 Library	🗌 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

E FOREMAN							Admin User 👻
ACME_Corporatio	DN 👻 Monitor 👻 Co	ontent - Hosts - C	onfigure 👻 Infra	structure -			Administer -
Content Hosts							
Search	Q Showing 20 of	35 (35 Total)			0 Selected	Deselect All 🖉 Bu	Ik Actions Register Content Hose
Name	Content Hos	t dhcp129-73.rd	u.redhat.co	m			Unregister Content Host X Close
client.devel	Î						
dhcp129-73.rdu.redhat.com >	Details Provisi	oning Details Subscrip	tions Host Col	lections Tasks	Packages Errata	Product Content	
dhcp129-81.rdu.redhat.com	Successfully remo	oved 1 subscriptions.					×
test1.devel.example.com							
test10.devel.example.com	Subscription Details						Run Auto-Attach
test11.devel.example.com	Status Details	invalid Red Hat Enterprise Linux 9	Server - Not suppor	ted by a			
test12.devel.example.com	Auto-Attach	valid subscription. Yes		C			
test13.devel.example.com	Service Level	Tes		ľ			
test14.devel.example.com							
test15.devel.example.com	List/Remove A	dd					
test16.devel.example.com	Search	Q Showin	g 2 of 2 (2 Total) S	ubscriptions		1 Selected	Deselect All Add Selected
test17.devel.example.com	Quantity	Attached	Starts	Expires	Support Level	Contract	Account
test18.devel.example.com	cds			mole in ease	outpoir revel		Avvant
test19.devel.example.com	za 1	0 out of Unlimited	6/18/14	6/10/44			
test2.devel.example.com	testProduct		0/10/14	0/10/44			
test20.devel.example.com		A second the Back of the	C14/14	5/27/44			
test21.devel.example.com	• 1	1 out of Unlimited	6/4/14	5/2//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

Soreman		📃 Admin User 👻
ACME_Corporation	✓ Monitor ✓ Content ✓ Hosts ✓ Configure ✓ Infrastructure ✓	Administer 🗸
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.redhat.com	Unregister Content Host X Close
Client.devel	Details Provisioning Details Subscriptions Host Collections Tasks Packages	Errata Product Content
dhcp129-73.rdu.redhat.com >		
dhcp129-81.rdu.redhat.com	Package Actions	
testks.rdu.redhat.com	Package install Package/Group Name Perform	
testks.rdu.redhat.com		
	Installed Packages Filter Showing 416 Packages	Update All
	Installed Package	Remove
	acl-2.2.49-6.el6.x86_64	0
	aic94xx-firmware-30-2.el6.noarch	0
	apr-1.3.9-5.el6_2.x86_64	0
	apr-util-1.3.9-3.el6_0.1x86_64	0
	apr-util-ldap-1.3.9-3.el6_0.1.x86_64	0
	atmel-firmware-1.3-7.el6.noarch	0
	attr-2.4.44-7.el6 x86_64	0
	audit-2.2-4.el6_5.x86_64	0

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

	FOREMAN			📃 Admin User 👻
D	efault Organization + Monitor + Content + Cont	ainers 🗸 Hosts 👻 Configure 👻 Ir		Administer 🗸
Content Hosts				
Search	Q Showing 1 of 1 (1 Total)			0 Selected Bulk Actions 3 Register Content Host
Name	Content Host client.devel.fc	006		Unregister Content Host X Close
Client devel foo6 >	Details Provisioning Details Subsc Applicable Errata Show from: Current Environment (dev/increment)		Packages Errata Product Cor	
	Search	Q Showing 231 of 231 (231 Tot		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 update	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 rsyslog security update	10/19/14
	Security Advisory - Moderate	RHSA-2014:1655	Moderate: libxml2 security update	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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ACME_Corporation	✓ Monitor	Administer 🗸
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.redhat.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

•

•

.

•

•

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

StableOS

StableOS

7/11/14 4:32 PM

7/11/14 4:32 PM

7/11/14 4:32 PM

7/11/14 4:33 PM

7/11/14 4:33 PM

Dev

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ACME_Cor	poration - Monitor-	Content 🕶 Hosts 🕶	Configure - Infrastructure	•		Administer 👻
Content Hosts						
Search	Q Showing	20 of 35 (35 Total)		20) Selected Deselect All	Bulk Actions Register Conte
🕑 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 STARTED 👻	
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GET INVOLVED -	
NEWS -	

Katello 3.11 Documentation

3.11 🔻

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1.1 Katello

1.2 Smart proxy

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2. Upgrade

2.1 Katello

2.2 Smart proxy

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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.

F(OREMAN					🔝 Admin User 👻
conten	it views - Monitor	- Content -	Hosts -	Configure -	Infrastructure -	Administer +
Content Views						
Search	Q Showing 3 of	3 (3 Total)				0 Selected Deselect All + Create New View
Name	New Content	View				x Close
COMPOSITE						
Puppet Modules	View Details					
Yum Repos	Name*	New Content View				
	Label*	New_Content_View				
	Description	This is my new conte	nt view, not sure	what it will contain ye	d	
	Composite View?	A composite view con	tains other conte	nt 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

	FOREMAN			📃 Admin User	▼
	content views - Monitor - Content - H	losts – Configure – Infrastructu	ire -	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 >					
COMPOSITE	Versions Content V Puppet Mod	dules History Details Tasks	3		
Puppet Modules	Repository Selection				
Yum Repos	List/Remove Add				
	All Products				+ Add Repositories
	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:



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)

FC	DREMAN	🌅 Admin User 👻
conten	it 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	Publish New Version X Close
COMPOSITE		
New Content View >	Versions Content V Puppet Modules History Details Tasks	
Puppet Modules	Currently Selected Puppet Modules	
U Yum Repos	Filter Showing 0 of 0 (0 Total)	0 Selected Deselect All + Add New Module
	You currently don't have any Puppet Modules included in this Content View, you can add puppet modules using the button on the right.	

F	FOREMAN	📃 Admin User 👻
conte	ent views - Monitor - Content - Hosts - Configure - Infrastructure -	Administer -
Content Views		
Search	Q Showing 4 of 4 (4 Total)	0 Selected Deselect All + Create New View
O Name	New Content View	C) Publish New Version X Close
COMPOSITE		
New Content View >	Versions Content V Puppet Modules History Details Tasks	
Puppet Modules	Module List	
Yum Repos	Select A New Puppet Module To Add Film Film Anne apache postgresql registry stdlib	Actions Select a Version Select a Version Select a Version Select a Version

F	OREMAN			📃 Admin User	•
conten	nt views - MonItor - Content -	Hosts - Configure - Infrastruc	sture -	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
COMPOSITE					
New Content View >	Versions Content V Puppet	Modules History Details Tas	sks		
Puppet Modules	Module List / Select Module / apac	che			
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

	A FOREMAN			📃 Admin User 👻	
	content views - Monitor - Content - H	iosts + Configure + Infrastructure +		Administer +	
Content Views					
Search	Q Showing 4 of 4 (4 Total)			0 Selected Deselect All + Create New	
Name	New Content View			C Publish New Version X	
COMPOSITE					
New Content View >	Versions Content Versions	lules History Details Tasks			
Puppet Modules	Currently Selected Puppet Modules				
Yum Repos	Filter	Filmer Showing 1 of 1 (1 Total)			
	Name	Author	Version	Actions	
	apache	puppetlabs	Latest (Currently 1.0.1)	Select new version Remove Module	
	apache	puppetlabs	Latest (Currently 1.0.1)	Select new version Remove Mo	

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

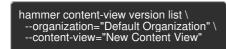
Adding a version of a Content View to a Composite Content View means whenever the Composite Content View is published, all of the content contained within the specific version of that Content View is contained in the Composite Content View. If the Content Views contained within the Composite Content 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

	6 FOREMAN					📃 Admin User	•	
	content views - Mo	onitor - Conte	nt - Hosts -	Configure - Infrastructi	ire -	Administer		
Content Views								
Search	Q Showin	ng 4 of 4 (4 Total)				0	Selected Deselect All + Create New View	
Name	Composit	e Content	view COM	POSITE			Dublish New Version X Close	
New Content View	Versions	Content Views	History Det	ails Tasks				
Puppet Modules	List/Remove	Add						
Yum Repos								
	In order to a	add a content view	to a composite vi	ew you must first publish an init	al version of the content view.			
	Filter					1 Selected Deselect All + Add Content Views		
	Name		Versio	n	Environment	Description	Content	
	Puppet Mo		1		Library	gdsfhsdfh	0 Repositories	
	Pupper Mo	Julies			Library	yusinsun	0 Puppet Modules	
	Yum Repose	s		:	prod, test, Library		1 Repositories 0 Puppet Modules	

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

	SOREMAN			🔲 Admin User 👻
	content views - Mon	nitor - Content - Hosts -	- Configure - Infrastructure -	Administer -
Content Views				
Search	Q Showing	g 4 of 4 (4 Total)		0 Selected Deselect All + Create New View
Name	New Conte	ent View		E Publish New Version X Close
COMPOSITE				
New Content View >	Versions	Content V Puppet Modules	History Details Tasks	
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.

	OREMAN			📃 Admin User 👻
	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		6
	UUID Description	e1ee500b-be85-4f34-afa6-16f62a859756 Initial Registration Params	C	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

	FOREMAN							🦲 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	w 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 /	+ Create New View
C Name									

Search	Showing 4 of 4 (4 Total)	0 Selected Deselect All + Create New View
Name	New Content View	C Publish New Version X Close
COMPOSITE		
New Content View >	Versions Content V 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 🖉 test prod	
	Promote Version Cancel	

	S FOREMAN				📃 Admin User 👻				
	content views - Monitor - Conten	nt - Hosts - Configure - Int	frastructure -		Administer -				
Content Views									
Search	Q Showing 4 of 4 (4 Total)				0 Selected Deselect All	+ Create New View			
Name	New Content View				🖒 Publish New	w Version X Close			
COMPOSITE									
New Content View >	Versions Content V	Versions Content V Puppet Modules History Details Tasks							
Puppet Modules	Successfully initiated promotion	n of New Content View version 1 to test.				×			
Yum Repos	Filter								
	PMBF								
	Version	Status	Environments	Content	Author	Actions			
	Version 1	Promoting to 1 environment.	Librarytest	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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Katello Inter-Server Sync

NOTE: This feature has been deprecated and will be removed in a future release of Katello. Please consider using Content View Import/Export instead.

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

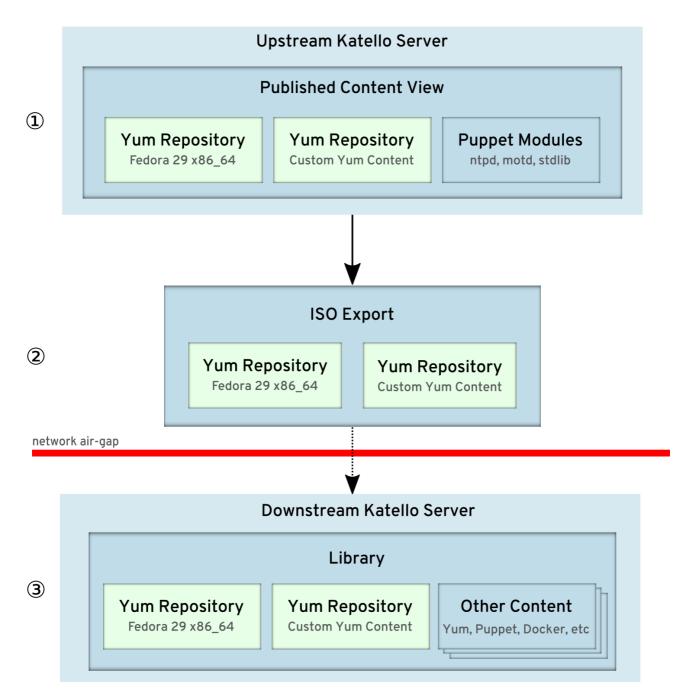
Intro

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. SELinux permissions also need to be set on the export location with the type httpd_sys_rw_content_t as well as foreman user and group ownership.

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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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 S	Bulk Actions	Repo Discovery New	Product
Name	Product Test	er						Close
Red Hat Enterprise Linux Serv								
Tester >	Details Reposit	tories Tasks						
	Add New Reposito General Information Name" Label" Type" Sync Information URL Upstream Repository Name	docker	u want to sync. Example ocker.com n repository you want to		c sybox			

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:

docker run -p 5030:5000 --name registry registry:2

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.

F0	DREMAN					📃 Admin User 👻
Default	t Organization	- Monitor -	Content - Conta	iners - Hosts - Con	figure - Infrastructure	e 🗸 🔹 Administer 🗸
Content View	S					
Search	Q	Showing 2 of 2 (2	Total)			0 Selected Create New 1
Name	Те	st			Publish New Versio	Copy View Remove View Cla
Test > wat	v	ersions Yum C	Content Puppet Mod	dules Docker Content	History Details	Tasks
	Pe	pository Selec	tion			
	Re	pository selec	lion			
	1	iet/Romovo Ad	id.			
	L	ist/Remove Ad	ld			
		I Products C Filter	ld			Add Repositor
			Product	Last Sync	Sync State	Add Repositor
		Products C Filter		Last Sync N/A	Sync State	
		I Products S Filter	Product			
		I Products 📀 Filter Name business	Product Tester	N/A	N/A Success	Content 10 Docker Images
		Products Filter Name business busybox	Product Tester Tester	N/A 2/2/15 1:18 PM	N/A Success Success	Content Content 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 -	Hosts - Configur	e - Infrastructure -	Administer -	
Docker Tags						
Search Q Show	wing 25 of 25 (25 Total)					
lame	Product Name			Repository Name		
.8.14	Tester			redis		
.8.15	Tester			redis		
2.8.16	Tester			redis		
.8.17	Tester			redis		
.8.18	Tester			redis		
.8.19	Tester			redis		
.8.6	Tester			redis		
.8.7	Tester			redis		
.8.8	Tester			redis		
.8.9	Tester					
puildroot-2013.08.1	root-2013.08.1 Tester			busybox		
puildroot-2014.02	Tester					
atest	Tester					
atest	Tester			redis		
atest	Tester		busybox			
buntu-12.04	Tester			busybox		
buntu-14.04	Tester			busybox		

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.

	١			📃 Admin User 👻	
Default Organi	zation - Monitor - Conte	nt - Containers - Hosts -	Configure - Infrastructur	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	Library.	bound organization from the	0072010000012000200	tester-redis:latest	
redis:2.8.6	Library	redisv 3.0	3b7234aa3098129352dc	localhost:5000/default_organization	
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					
pusybox:ubuntu-12.04					
busybox: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/Smart Proxy. 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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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 of how the Foreman/Katello service sends email is located in Adminster > Settings > Email .

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".

Default Organization Monitor Content Containers Hosts Configure Infrastructure Administer Edit User User Mail Preferences Locations Organizations Roles General Mail enabled Image: Content in the	📃 Admin User 👻			FOREMAN	
User Mail Preferences Locations Organizations Roles General	Administer 👻		onitor 👻 Content 👻 Containers 👻 Hosts	Default Organization 👻	
General				Edit User	
			Locations Organizations Roles	User Mail Preferences	
Mail enabled 🧭				General	
Notifications				Mail ellabled	
Katello host advisory A summary of available and applicable errata for your hosts 		A summary of available and applicable errata for your hosts	Weekly •	Katello host advisory	
Katello promote Subscribe A post-promotion summary of hosts with available errata		A post-promotion summary of hosts with available errata	Subscribe 🔻		
Katello sync errata Subscribe A summary of new errata after a repository is synchronized		A summary of new errata after a repository is synchronized	Subscribe •	Katello sync errata	
Puppet error state No emails A notification when a host reports a puppet error		A notification when a host reports a puppet error	No emails 🔹	Puppet error state	
Puppet summary Weekly A summary of eventful puppet reports		A summary of eventful puppet reports	Weekly •	Puppet summary	
Cancel				Cancel Submit	

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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

	POREMAN			📃 Admin User 👻	
	Default Organization - Monitor - Content -	Containers - Hosts - Configure -	Infrastructure -	Administer -	
Errata					
Search	Q Showing 40 of 2809 (2809 Total)			0 Selecte	d + Apply Errata
Errata ID	Title	Туре	Affected Content Hosts	Updated	
□ RHSA-2014:1984	Important: bind security update	A Security Advisory - Important	0	12/11/14	
BHSA-2014:1983	Important: xorg-x11-server security update	A Security Advisory - Important	0	12/10/14	
RHBA-2014:1970	dovecot bug fix update	棄 Bug Fix Advisory	0	12/8/14	
BHSA-2014:1974	Important: rpm security update	Security Advisory - Important	0	12/8/14	
□ RHBA-2014:1964	selinux-policy bug fix update	♣ Bug Fix Advisory	0	12/7/14	
□ RHBA-2014:1965	curl bug fix update	賽 Bug Fix Advisory	0	12/7/14	
RHBA-2014:1967	sssd bug fix update	♣ Bug Fix Advisory	0	12/7/14	
□ RHBA-2014:1961	system-config-firewall bug fix update	♣ Bug Fix Advisory	0	12/4/14	
BHSA-2014:1919	Critical: firefox security update	A Security Advisory - Critical	0	12/1/14	
RHSA-2014:1948	Important: nss, nss-util, and nss-softokn security, bug fix, and enhancement update	A Security Advisory - Important		12/1/14	
RHEA-2014:1918	oprofile enhancement update	Product Enhancement Advisory	0	11/30/14	
RHBA-2014:1909	lvm2 bug fix update	兼 Bug Fix Advisory	0	11/25/14	
BHSA-2014:1911	Moderate: ruby security update	A Security Advisory - Moderate	0	11/25/14	
BHBA-2014:1886	mdadm bug fix update	兼 Bug Fix Advisory	0	11/23/14	
BHBA-2014:1884	cyrus-sasl bug fix update	❀ Bug Fix Advisory	0	11/19/14	
□ RHBA-2014:1883	webkitgtk and gimp bug fix update	斎 Bug Fix Advisory	0	11/19/14	
BHBA-2014:1875	device-mapper-multipath bug fix update	兼 Bug Fix Advisory	1	11/18/14	
BHBA-2014:1867	nss-softokn bug fix update	兼 Bug Fix Advisory	0	11/17/14	
RHEA-2014:1869	new packages: kmod-oracleasm	Product Enhancement Advisory	0	11/19/14	
- DUCA 0014-1970	Imnastanti IleVfant assudtr condata	A Consider Advisory Important	0	44147148	

View Errata Details

To view the details of an Errata:

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

	FOREMAN 🛐 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	Important: nss, nss-util, and nss-softokn security, bug fix, and enhancement update	× Close
BHSA-2014:1984	Details Content Hosts Repositories	
BHSA-2014:1983		
RHBA-2014:1970	Advisory RHSA-2014:1948 CVEs	
BHSA-2014:1974	Type Security Advisory	
RHBA-2014:1964	Severity Important Issued 12/1/14	
RHBA-2014:1965	Last Updated On 12/1/14 Reboot Suggested? No	
BHBA-2014:1967	Topic	
□ RHBA-2014:1961	Updated nss, nss-util, and nss-softokn packages that contain a patch to	
BHSA-2014:1919	mitigate the CVE-2014-3566 issue, fix a number of bugs, and add various enhancements are now available for Red Hat Enterprise Linux 5, 6, and 7.	
■ RHSA-2014:1948 >	Red Hat Product Security has rated this update as having Important	
RHEA-2014:1918	security impact. Description	
BHBA-2014:1909	Network Security Services (NSS) is a set of libraries designed to support	
BHSA-2014:1911	the cross-platform development of security-enabled client and server applications. Netscape Portable Runtime (NSPR) provides platform	
BHBA-2014:1886	independence for non-GUI operating system facilities.	
BHBA-2014:1884	This update adds support for the TLS Fallback Signaling Clipher Suite Value (TLS_FALLBACK_SCSV), which can be used to prevent protocol downgrade attacks against applications which re-connect using a lower SSL/TLS	
BHBA-2014:1883	attacks against applications which re-connect using a lower SSL/LS protocol version when the initial connection indicating the highest supported protocol version fails.	
BHBA-2014:1875	This can prevent a forceful downgrade of the communication to SSL 3.0.	
BHBA-2014:1867	The SSL 3.0 protocol was found to be vulnerable to the padding (CBC) mode.	
BHEA-2014:1869	This issue is identified as CVE-2014-3566, and also known under the alias POODLE. This SSL 3.0 protocol flaw will not be addressed in a future	
RHSA-2014:1870	update; it is recommended that users configure their applications to require at least TLS protocol version 1.0 for secure communication.	

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.

	6 FOREMAN						📃 Admin User 👻	
	Default Organization - Mo	nitor - Content -	Containers -	Hosts - Con	figure - II	nfrastructure 🗸	Administer -	
Errata								
Search	Q Showing 40 of 2	809 (2809 Total)						0 Selected + Apply Errata
Errata ID	Important: nss.	nss-util, and	nss-softoki	n security, b	ug fix, a	nd enhancement upd	ate	× Close
BHSA-2014:1984	Details Content H			,	0,			
BHSA-2014:1983								
RHBA-2014:1970	Apply To Content							
BHSA-2014:1974	Only show content hosts wh	ere Important: nss, nss-util, a	nd nss-softokn security	, bug fix, and enhanceme	ent update is curre	antly available in the host's Lifecycle Environme	ent.	
RHBA-2014:1964	Search		Q	Showing 1 of 1 (1	Total)			0 Selected + Apply to Hosts
RHBA-2014:1965	□ Name		os			Environment	Content View	
BHBA-2014:1967	walden-rhel7.rdu.red	dhat.com	Red Hat Er	nterprise Linux Serve	er 7.0	Library	CV	
BHBA-2014:1961								
BHSA-2014:1919								
BHSA-2014:1948 >								
BHEA-2014:1918								
RHBA-2014:1909								
BHSA-2014:1911								
BHBA-2014:1886								
BHBA-2014:1884								
RHBA-2014:1883								
BHBA-2014:1875								
BHBA-2014:1867								
BHEA-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.

	5 FOREMAN			📃 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	Important: nss, nss-u	til, and nss-softokn securi	ty, bug fix, and enhancement upd	ate × close
BHSA-2014:1984	Details Content Hosts	Repositories		
BHSA-2014:1983				
□ RHBA-2014:1970	Repositories Containing	Errata RHSA-2014:1948		
BHSA-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				
BHSA-2014:1911				
RHBA-2014:1886				
□ RHBA-2014:1884				
□ RHBA-2014:1883				
□ RHBA-2014:1875				
□ RHBA-2014:1867				
□ RHEA-2014:1869				
BHSA-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

POREMAN				📃 Admin User 👻					
Default Organization	- Monitor - Content - Contair	ners - Hosts - Configure - I	infrastructure 🗸	Administer -					
Errata									
All Repositories Search	Applicable Installable Showing 19 of 19 (19 Total)			1 Selected Apply Errate					
Errata ID	Important: nee_nee_util_and	nee-coftokn socurity, bug t	fix and onbancoment unda						
RHSA-2014:1948 >	important. 1185, 1185-util, and	Important: nss, nss-util, and nss-softokn security, bug fix, and enhancement update							
RHBA-2014:1875	Details Content Hosts Repo	sitories							
RHEA-2014:1866									
RHEA-2014:1733	Apply To Content Hosts Only show content hosts where Importa 	ant: nss. nss-util, and nss-softokn securit	by bug fix and enhancement update is c	urrently available in the host's Lifecycle					
RHBA-2014:1637	Environment.								
RHBA-2014:1515	Filter by Environment	\$							
RHBA-2014:1426	Search	Q Showing 1 of 1 (1 Total)		1 Selected Apply to Hosts					
RHBA-2014:1378	Name	OS	Environment	Content View					
RHBA-2014:1376	valden-rhei7.rdu.redhat.com	Red Hat Enterprise Linux Server 7.0	dev	RHEL					
RHEA-2014:1472									
RHEA-2014:1532									
RHEA-2014:1530									
RHBA-2014:1384									
RHBA-2014:1555									
RHBA-2014:1459									
RHBA-2014:1590									
RHEA-2014:1500									
BHBA-2014:1362									

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Default On	ganization - Monitor - Content	- Containers -	Hosts - Configure -	Infrastructure -	Administer -
Errata					
All Repositories	🗧 🖉 Applicable 🗆 Ir	stallable			
Search	Q Showing 19 of 19 (1	9 Total)			1 Selected Apply Errata
Errata ID	Important: nss. nss	-util and nee-se	oftokn security, buc	fix, and enhancement upda	te × Close
RHSA-2014:1948 >	important. hos, hoc		onon'i scounty, bug	in, and erinancement upda	
RHBA-2014:1875	Details Content Host	Repositories			
RHEA-2014:1866					
RHEA-2014:1733	Errata List » Select Conter	t Hosts » Confirm			
RHBA-2014:1637					
RHBA-2014:1515	Apply RHSA-2014:1948		Contant View versions rupping	on the selected hosts. The new Content V	iour Versions (aposition below) will be
RHBA-2014:1426	created which will make this	Errata Installable in the	host's Environment. This nev	v version will replace the current version in	
RHBA-2014:1378	install these errata immediate		shing check the box below.		
RHBA-2014:1376	Content View	Version		Environment	Host Count
RHEA-2014:1472	RHEL	2.1		dev	1
RHEA-2014:1532	Apply Errata to Content H	losts immediately after	publishing.		
RHEA-2014:1530	Cancel Confirm				
RHBA-2014:1384					
BHBA-2014:1555					
RHBA-2014:1459					
RHBA-2014:1590					
RHEA-2014:1500					
RHBA-2014:1362					

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"

BHBA-2014:1384

subscription-manager bug fix and

• Confirm the action

	A FOREMAN					📃 Admin User 👻
	Default Organizatio	on - Monitor - Content - C	Containers - Hosts -	Configure -	Infrastructure -	Administer 🗸
Er	rata					
A	I Repositories	🛊 🗹 Applicable 🗆 Installabl	le			
Se	earch	Q Showing 19 of 19 (19 Total)				1 Selected Apply Errata
	Errata ID	Title	Туре		Content Host Counts	Updated
2	RHSA-2014:1948 >	Important: nss, nss-util, and nss- softokn security, bug fix, and enhancement update	▲ Security Adviso	ory - Important	1 Applicable, 0 Installable	12/1/14
	RHBA-2014:1875	device-mapper-multipath bug fix update	棄 Bug Fix Advisor	ry	1 Applicable, 1 Installable	11/18/14
	RHEA-2014:1866	tzdata enhancement update	Product Enhance	cement Advisory	1 Applicable, 1 Installable	11/16/14
	RHEA-2014:1733	tzdata enhancement update	Product Enhand	cement Advisory	1 Applicable, 1 Installable	10/28/14
	RHBA-2014:1637	at bug fix update	兼 Bug Fix Advisor	ry	1 Applicable, 1 Installable	10/14/14
	RHBA-2014:1515	audit bug fix and enhancement update	兼 Bug Fix Advisor	ry	1 Applicable, 1 Installable	10/13/14
	RHBA-2014:1426	openIdap bug fix and enhancemen update	nt 亲 Bug Fix Advisor	ry	1 Applicable, 1 Installable	10/13/14
	RHBA-2014:1378	nss bugfix and enhancement upda	ate 👬 Bug Fix Adviso	ry	1 Applicable, 1 Installable	10/13/14
	RHBA-2014:1376	xcb-util, xorg-x11-drivers, and me bug fix and enhancement update	sa 🗼 Bug Fix Advisor	ry	1 Applicable, 1 Installable	10/13/14
	RHEA-2014:1472	elfutils bug fix and enhancement update	Product Enhand	cement Advisory	1 Applicable, 1 Installable	10/13/14
	RHEA-2014:1532	libnl3 enhancement update	Product Enhand	cement Advisory	1 Applicable, 1 Installable	10/13/14
	RHEA-2014:1530	new packages: json-c	Product Enhand	cement Advisory	1 Applicable, 1 Installable	10/13/14

<table-of-contents> Bug Fix Advisory

1 Applicable, 1 Installable

10/13/14

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Default Organization	- Monitor -	Content -	Containers -	Hosts -	Configure -	Infrastructure -	Administer -	
Errata								
All Repositories		able 🔲 Install 19 of 19 (19 Tot					1 Selected	oply Errata
	ц слона,		,					
Errata ID	Apply Errata	l						Close
RHSA-2014:1948								
RHBA-2014:1875	Errata List » Sele	ct Content Hos	sts					
RHEA-2014:1866	Only show cont	tent hosts whe	re is currently ava	ilable in the	host's Lifecycle Ei	nvironment.		
RHEA-2014:1733	Filter by Environmen	nt		\$				
RHBA-2014:1637	Search		C	Showi	ng 1 of 1 (1 Total)		1 Selec	cted
RHBA-2014:1515	Name		OS			Environment	Content View	
RHBA-2014:1426		7.rdu.redhat.co		Hat Enterpri	se Linux Server 7.		RHEL	
RHBA-2014:1378								
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								
Soreman							📃 Admin User 👻	
Default Organization	- Monitor -	Content -	Containers -	Hosts -	Configure 🗸	Infrastructure -	Administer 🗸	
Errata								
All Repositories	Applica	able 🗆 Install	lable					
Search		19 of 19 (19 Tot					1 Selected	pply Errata
Errata ID								
 RHSA-2014:1948 	Apply Errata							Close
RHBA-2014:1875	Errata List » Sele	ect Content Hr	oete » Confirm					
RHEA-2014:1866		Set Content Ho						
							ne new Content View Versions (specified below) w current version in your host's Lifecycle Environme	
RHEA-2014:1733	install these errata							11. 10
	Content View		Version	ı		Environment	Host Count	
	RHEL		2.1			dev	1	
RHBA-2014:1426	Apply Errata to	Content Hosts	s immediately afte	r publishing.				
	Cancel Confirm		-					
RHBA-2014:1376								
RHEA-2014:1472								
RHEA-2014:1532								
RHEA-2014:1530								
RHBA-2014:1384								

RHBA-2014:1590RHEA-2014:1500

RHBA-2014:1459

RHBA-2014:1362

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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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Content Credentials

Content Credentials can be associated with Katello Products and Repositories. Two types of Content Credentials are supported, each having a distinct purpose:

GPG Keys

GPG Keys are used by Content Hosts in order to verify the signature of packages that have been retrieved from a Repository and ensure they haven't been corrupted. For more information on GPG Keys see The GNU Privacy Guard.

SSL Certificates

SSL Certificates are used by the Katello server to sync content from upstream repositories that require client SSL authentication.

Using Content Credentials

- Create a Content Credential
- Associate Content Credential with a Product
- View Associated Products
- View Associated Repositories

Create a Content Credential

To create a new Content Credential:

- navigate to Content > Content Credentials
- click Create Content Credential
- Enter a Name and select a Type
- You may either upload your Credential or paste its content into the text area.

When creating SSL Certificates for Products or Repositories that require them, a separate credential must be created for the CA, cert, and key respectively.

😑 🔌 FOI	REMAN	Default Organization Default Location	Φ	💄 Admin User 🗸
🚯 Monitor	>	Create Content Credential		
🗐 Content	>	Content Credential > New Content Credential		
Hosts	>	My GPG Key Type		
🔎 Configure	>	GPG Key Content Credential Contents		
👬 Infrastructure	>	·····BEGIN PGP PUBLIC KEY BLOCK·····		
🏟 Administer	>	mQINBFy/ekHBEACi+AcPQsVJtOEks5ZB4DsVH4J7beZWNYU05Ds7+DMqWV5bkZ95 WSaFIJpeC5pL/ofTyBZrvxVsHofGehtr2ztUyRCMVELxXIBvRQXehYVxxRF96JvCo ctmN036/82c693P4qMqo5rCl1q02D/XZRiqEwLzAKIwaWMW//JKY6gRtJ5zBpSC		
¥ Toolbox	>	INS982rbrdt4McdW70HPeLXFE1c0TPHs4e5N11,m49NV7SPcDtcH2md17A1Tbv37 N9P0YNLuSZOXCAXrsMLHY0MSDCSTy0usz9tPyjt1xXx6riN0v800V97FY/ie6NH Im*Y2D420/WuHz3VV7UL8EqmPRAmp2nTSXL5FC5NSKA1av425gmtYFqTps5SX bvn6n6SP4m4mz1+v4KMKABH1VYT1Sbpm0K+Tf110K/KR3mk7XbXF-C2Ne1gmtXDF y1jHjt2cR2j0/WuHz9V7UL8EqmPRAmp2nTSXL5Mc5MSK51av425gmtYFqTps5SX bvn6n6SP4m4mz1+v4KMKABH1VYT1Sbpm0K+Tf110K/KR3mk7XbXF-C2Ne1gmtXDF y1jHjt2cR2j0/WuHz9ZV7UL8EqmPRAmp2nTSXL5Mc5MS512DPUTUb y1jHjt2cR2j1c9/wrHZ1ZT21D5c9HTUzsvt5TK4Kft9HJ1UKgo6Ge7cy28BLc0eUs3Y y1gm5tAfkAdvAnJLTXMXSorJ22X+MSG6Fz1j0y003Ptf11Hpv1mf8Bb2vMRAA0AB tcFUZXN0TEd1e5AoVGVzdCKqPHR1c3R1ck80ZXN0LmNvbf6JAj4EEveCACgFA1y/ ekMCcoMFCQ1eArAfcKvL0MkCBhULAgkKCv0MkgMBAh4BAheAAAoJEOVHDMASm0C4 Store Cancel		

Associate Content Credential with a Product

To add a Content Credential to a Product:

Note that adding a Credential to a Product adds it to all current and future repositories unless a repository already has a Credential assigned. The Credential currently assigned to a Repository can be modified or overridden from the detail view of

the repository.

- navigate to Content > Products
- select the desired Product from the list
- click Details
- click the edit icon on the GPG Key, SSL CA Cert, SSL Client Cert, or SSL Client Key field
- select the desired Content Credential

The steps for adding a Credential to a Repository are the same but performed from the repository's detail view.

	EMAN Default Organization ~	Default Location 👒				🗘 💄 Admin User 🗸
🚯 Monitor	> Katello					Select Action v
🗐 Content	> Products ⇒ Katello ≓					
Hosts	> Details Repositories Basic Information	Tasks		Sync Status		
🔎 Configure	> Name: Label: GPG Key:	Katello Katello My GPG Key	3	Sync Plan: Sync Interval: Last Sync:	Synced manually, no interval set. (Local Time)	3
🛱 Infrastructure	> SSL CA Cert:	Save Cancel	ď	Next Sync: Sync State:	Synced manually, no interval set. No sync information available.	
🔅 Administer	Description:		67 137 137			
🗙 Toolbox	> Number of Repositories: > Active Tasks:	1 0				

View Associated Products

To view all Products that have been assigned a Content Credential:

- navigate to Content > Content Credentials
- select the desired Credential from the list
- click Products

	Default Organization 🗸 Default Location 🗸		🗘 🛔 Admin User 🗸
🚳 Monitor 🗲 🗲	My GPG Key		Remove Content Credential
🧧 Content 💙	Content Credential > My GPG Key > Products =		
🗄 Hosts 💙	Details Products Repositories		
🔑 Configure 🖒	Filter		
	Name	Used as	Repositories
🚠 Infrastructure 🗲	Katello	GPG Key	1
🏟 Administer 🗲 🗲			
🛠 Toolbox 🔹 🗲			

View Associated Repositories

To view all Repositories that have been assigned a Content Credential:

- navigate to Content > Content Credentials
- select the desired Credential from the list
- click Repositories

≡	e F	OREMA	Default Organization	Default Location	I ¥						🛆 💄 Admin User 🗸
æ		>	SSL-cert								Remove Content Credential
	Content	>	Content Credential > SSL-ce	rt » Repositories ≓							
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			Filter								
₽ [€]		>									
-		170	Name			Product		Туре		Used as	
•••			Foreman 1.20			Foreman		yum		SSL Client Cert	
٥		>									
*		>									

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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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Default_Organiz	ation - Monitor-	Content - Hosts -	Configure -	Infrastructure 🗸	Administer -
Host Collections					
Search	Q Showing 0 of 0 (0	Total)			0 Selected Deselect All + New Host Collection
Name	New Host Col	lection			* Close
	Name*	research			
	Content Host Limit	Unlimited Content Hosts: 🗹			
	Description				
		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

Sorema 🜔				🌅 Admin User 👻
Default_Orgar	nization - Monitor- Co	ntent - Hosts - Configure -	Infrastructure -	Administer -
lost collections				
earch	Q Showing 1 of 1 (1 Total)			0 Selected Deselect All
Name research >	Host Collection: re	collection Actions		Remove 2 Copy Collection X Clo
		Collection Actions		
	List/Remove Add			
	Search Q	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
	Most2.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

		🦳 Admin User 👻
zation - Monitor- Con	tent 🕶 Hosts 🕶 Configure 🕶	Infrastructure - Administer -
C Showing 1 of 1 (1 Total)		0 Selected Deselect All
Host Collection: res	search	Remove Copy Collection Close
Details Content Hosts	Collection Actions	Copy New Name: development Create Cancel
Search	Showing 2 of 2 (2 Total) Content Hosts	0 Selected Deselect All Add Selected
		Default Organization View
host2.example.org	Library	Default Organization View
	a Showing 1 of 1 (1 Total) Host Collection: res Details Content Hosts List/Remove Add Search Name host1.example.com	Cation Monitor Content Hosts Configure > Content Intervention Intervention Intervention Intervention Host Collection: research Intervention Intervention Intervention List/Remove Add Intervention Showing 2 of 2 (2 Total) Content Hosts Image: Search Intervention Showing 2 of 2 (2 Total) Content Hosts Image: Name Environment Library

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

		🌅 Admin User 👻
Default_Organi	zation - Monitor - Content - Hosts - Configure - Infrastructure -	Administer -
Host Collections		
Search	Q Showing 2 of 2 (2 Total)	0 Selected Deselect All + New Host Collection
Name development	Host Collection: research	Remove 2 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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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:

Library +

Content -> Lifecycle Environments

	🦲 FOREMAN						🔯 Admin User 👻
	Default_Organization 👻	Monitor -	Content 🗸	Hosts 🗸	Configure 🗸	Infrastructure 🕶	Administer -
Lifecycle Environment Path	IS						+/lewEndronmentPath
Environment Path							

Creating a lifecycle environment

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

	A FOREMAN						🔼 Admin User 👻
	Default_Organization -	Monitor -	Content +	Hosts -	Configure -	Infrastructure 🗸	Administer •
Lifecycle Environment Path	IS						+New Environment Path-
Environment Path							
Library Dev QA +							
Create Environment							Close
Name*	Prod						
Label*	Prod						
Description	Producttion Environment					li di	
	Cancel Save						

Creating a lifecycle environment path

Click on the New Environment Path

	FOREMAN				🌅 Admin User 👻
	Default_Organization 👻	Monitor - Content	• Hosts • Configure	👻 Infrastructure 🗸	Administer 🕶
Lifecycle Environment Path	S				+New Environment Path
Environment Path					
Library +					
Create Environment					Close
Name*	Dev2				
Label*	Dev2				
Description				<i>h</i>	
	Cancel Save				
Library Dev QA Prod	٠				

	OREMAN					🌅 Admin User 👻
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Lifecycle Environment Path	าร					+ New Emironment Path
Create Successful.						×
Environment Path						
Library Dev2 +						
Library Dev QA Prod	+					

View/Updating environment name

Click on the name of the environment.

	OREMAN				🧾 Admin User 👻
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Lifecycle Environment Pa	ths				+ New Environment Path
Environment Path					
Library Dev2 +					
Library Dev QA Prod	+				
Environment Dev					Close
Name Dev			ß		
Label Dev					
Description			ß		

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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.

If provisioning hosts using a synced CentOS 8 repository, the AppStream repository is needed for Kickstart to work. To set this up, create an "AppStream" repository within the same lifecycle environment and content view as the CentOS 8 repository and sync it. Katello will automatically add this AppStream repo to the Kickstart file. After creating the host using CentOS 8 content, double check that the generated Kickstart file mentions the AppStream repo. The host provisioning should proceed automatically as expected.

Note: Currently, CentOS 8 Anaconda requires that the AppStream repository is specifically named "AppStream". To get around this, edit the Kickstart default provisioning template (or create a new one) to ensure this block:

<% @additional_media.each do |medium| -%> repo --name <%= medium[:name] %> --baseurl <%= medium[:url] %> <%= medium[:install] ? ' --install' : " %><%= proxy_string %> <% end -%>

will produce a line with repo --name AppStream --baseurl <AppStream repo url> .

For example, consider replacing that code block with:



Related CentOS 8 issue

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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

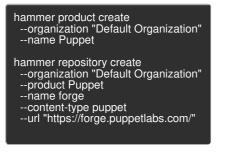
Content > Products

Click on the +New Product button.

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

FOREMAN		📃 Admin User 👻
Default Organization	✓ Monitor Content Hosts Configure Infrastructure	Administer 👻
Products		
Search	Q Showing 1 of 1 (1 Total) 0 Selected Deselect All	Repo Discovery New Product
🔲 Name	Product Puppet	Close × Close
Puppet>	Details Repositories Tasks	
	« Add New Repository	
	Name* forge	
	Label* forge	
	Type* puppet •	
	UPL https://forge.puppetlabs.com/	
	Cancel Save	

This can be done via the CLI:



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.

mkdir /modules chmod 755 /modules pulp-puppet-module-builder --output-dir=/modules --url=git@mygitserver.com:mymodules.git --branch=develop

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 choon 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.

mkdir /var/www/html/modules/ chmod 755 /var/www/html/modules/ pulp-puppet-module-builder --output-dir=/var/www/html/modules --url=git@mygitserver.com:mymodules.git --branch=develop

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

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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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🔗 🚸 🥃 🗋 fortello.deve	el:3000/katello/subscriptions#/subscriptions/manifest/import/3	\$\$ ₽ ≡
FOREMAN		🌅 Admin User 👻
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.

🔔 Katello	×									
- •> C	fortello.devel:300	0/katello/p	roviders/redh	at_provider#!	=				5	9 =
	FOREMAN							د 💽	Admin User 👻	
	ECME Organizat	ion 🚽	Monitor 👻	Content 🗸	Hosts 🕶	Configure 🗸	Infrastructure 🗸	A	dminister -	
		elow to exar	nine the differ	ent repository	sets availabl	e. When enablin	ig a repository set, the dif	ferent repositories withi	n are discoverd and	\times
may be e	nabled individually.									
Enable E	ed Hat Repositorie	26								
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PROD	UCT									
	l Hat Enterprise Linux H	High Availab	ility for RHEL	Server						
	l Hat Enterprise Linux L									
▶ Red	l Hat Enterprise Linux F	Resilient Sta	orage for RHE	EL Server						
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▶ Red	l Hat Enterprise Linux V	Vorkstation								

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CME Organiza		Monitor 👻 Content 👻	Hosts - Configu	e ▼ Infrastructure ▼	Administe
		Enterprise Linux 5 Server · Enterprise Linux 6 Server ·			
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		Red Hat Enterprise Linu	ix 6 Server Kickstart i386	6.3	
		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	
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<u>v</u>	▼ Red Hat	Enterprise Linux 6 Server	(RPMs)		
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		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 🗙 🗌								
∘≫ 🥝 🗋 fortello.devel:30	00/katello/sync_ma	anagement#!=						<u>र</u> े क
Soreman 🙆 🙆							📃 Admin User 🔹	,
ECME Organiza	tion 👻 Monit	or 👻 Content 👻	Hosts 🗸	Configure -	- Infrastructu	re 🔻	Administer •	
Sync Status		Coll	apse All	Expand All	Select None	Select All	Only show syncing.	
PRODUCT				ST	ART TIME	DURATION	SIZE (PACKAGES)	RESULT
Red Hat Enterprise Linux Server							0 Bytes	
▼ 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 👻
Sync Plans				
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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SUSE Content

Katello can be used to manage content associated with SUSE products. This includes content such as RPMs, errata.

There are two different ways to use Katello to get manage SUSE products / repositories:

- 1. Use foreman_scc_manager
- 2. Use the smt tool

Definitions

- Repository Collection of content (either rpm).
- 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.

Manage SUSE Content using the foreman_scc_manager

To manage SUSE Content witht the foreman_scc_manager you need to have an SUSE SCC account

General Workflow

- Install the foreman_scc_manager
- Set up the connection to your SCC account.
- Synchronize the list of available SUSE products.
- Select the products and sub-products which you want to add to Katello (Content > Products). This creates the products and all associated repositories.
- Synchronize the created repositories in Content > Products

Installation

The installation of the foreman_scc_manager can be started with the following command. This will restart your Foreman!

yum install tfm-rubygem-foreman_scc_manager

Usage

First of all, you need to add your SUSE SCC account. Use the button "Add SCC account" on the page "Content > SUSE Subscriptions" and configure your account. Verify that your account is configured correctly and the SUSE SCC portal is reachable with "Test Connection".

Name *		
Login *		
	Use your 'Organization	
	credentials' obtained from the	
	SUSE Customer Center.	
Password *		
Base URL *	https://scc.suse.com	
	Test Connection	
Cancel St	ıbmit	

The next step is to select the action "Sync" in the "Actions" drop down list. This will start the process to synchronize all available products for your SCC account.

SUSE subscriptions

Filter	× Q Search ×			Add SCC account
Name	Products	Last synced		Actions
SUSE	235	2018-01-26 14:56:08 UTC		Select products 🗠
20 V per page			Sync Delete	f 1

Select the products which you want to include to Katello by the selecting the "Select products" in the "Actions" drop down list. This action will take some time as it will create a product and all repositories of each selected SUSE product.

 SUSE L 	nux Enterprise Client Tools 10 SP3 i586	
 SUSE L 	nux Enterprise Client Tools 10 SP3 ia64	
 SUSE L 	nux Enterprise Client Tools 10 SP3 ppc	
• 🗆 SUSE L	nux Enterprise Client Tools 10 SP3 s390x	
• 🗆 SUSE L	nux Enterprise Client Tools 10 SP3 x86_64	
• 🗆 SUSE L	nux Enterprise Real Time 10	
•	SUSE Linux Enterprise Software Development Kit 10 (Migration)	
•	SUSE Linux Enterprise Software Development Kit 10 (Migration)	
•	SUSE Linux Enterprise Software Development Kit 10 (Migration)	
• SUSE N	lanager Server x86 and x86-64 1.2	
• SUSE N	lanager Server x86 and x86-64 1.2 (Migration)	
• 🗆 SUSE N	lanager Server x86 and x86-64 1.7 x86_64	
• 🗆 SUSE N	lanager Server x86 and x86-64 1.7 x86_64 (Migration)	
• SUSE N	lanager Server x86 and x86-64 2.1 x86_64	
Cancel Su	bmit	
cancer		

After the synchronization task (see Monitor > Tasks) is complete, you will see the list of selected products and its repositories in "Content > Products". Please keep in mind, that you need to sync the repositories before you can actually use them. Feel free to remove repositories of certain products which you don't need.

Manage SUSE Content via the smt tool

General Workflow

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

- Set up SUSE account and smt server
- Set up the smt mirroring and Content
- Create Products and Repositories

Set up SUSE account and SMT server

Assuming you have an SCC account, setup the SMT server, click here for more documentation.

• Install smt



• A TUI will pop up and you are going to have to add credentials from your account, found in scc.suse.com, as shown in screenshot below

SUSE, Customer Center	😑 🔡 Dashboard 📗 Organization 🖿 Subscriptions 🖵 Systems	
MY ORGANIZATIONS (1) Q	Organization	
uc	Users in this Organization	Organization Credentials
Connect to an organization Manage my organizations	Organization credentials (mirroring credentials)	
	Password Show password	
 Activate subscriptions Patches Training 		

• Click ok and proceed with the steps provided, it will finish up and exit

Set up the SMT Content and mirroring

On a SLES 12 Box

- Sync repo data
 # smt-sync
- List Repositories
 # smt-repos
- Install the repositories you need to mirror via the smt-repos -e flag. For example to mirror SLES12-SP3-Pool

smt-repos -e SLES12-SP3-Pool

Check the enabled repos

smt-repos -o

Mirror the repositories

smt-mirror

• This should install an apache2 on that host

service apache2 restart

You should be able to navigate to the mirror by browsing to http://<fqdn>/repo/

Create Products and Repositories

- Follow the steps listed here to create Products and Repositories
- Follow the steps listed on the same link as above to create a yum repository with the repository url pointing to the appropriate location. For example http://<fqdn>/repo/SUSE/Products/SLE-SERVER/12-SP3/x86_64/product/

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Setup Remote Databases in Foreman with Katello Plugin Installed

Foreman with Katello plugin can be installed with remote databases for both postgresql and mongo. These instructions are for a Foreman with Katello plugin server, where remote databases are currently supported. This guide will refer to the server as "Foreman", with the assumption that the Katello plugin is installed.

High level

There are two ways to deploy Foreman with remote databases:

- 1. Fresh install
 - prepare Postgres server with databases for Foreman and Candlepin and dedicated users owning them
 - prepare Mongo DB with user owning the pulp_database
 - prepare box where the Foreman will be installed and make sure the databases are accessible from the box
 - run foreman-installer with right parameters pointing to the databases
- 2. Migration of existing Foreman installation
 - prepare Postgres server with databases for Foreman a Candlepin and dedicated users owning them
 - prepare Mongo DB with user owning the pulp_databse
 - make sure the databases are accessible from the box where Foreman is installed
 - shut down the services except the dbs you want to move (mongod, postgresql)
 - dump the DBs
 - restore the DBs on remote servers
 - run foreman-installer with right parameters pointing to the databases. It re-configures the databases and start all the services with new DB locations

In either scenario, both of the databases don't have to be remote. You can opt to use only a remote mongo database or only a remote postgresql database. Both postgresql and mongo databases can be on the same host, but this isn't recommended due to the amount of resources mongo can use.

Prepare remote Postgres

GOAL: To use remote Postgres database with Foreman we have to:

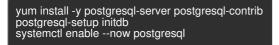
- be able to access the databases from foreman box
- the database user we use to connect to the database needs to own the database, i.e. it can create, alter and delete the tables, indexes and constraints. Note it is not required to be able to create the database itself.

Install Postgres

Warning: This is just minimal testing setup which is not suitable for production, please adjust the settings to your environment as needed.

Assume our postgres server has hostname postgres.example.com .

First, we install postgresql.



Now we need to make Postgres listen to inbound connections, please adjust these parameters to your own networking and security requirements.

Edit /var/lib/pgsql/data/postgresql.conf . Uncomment listen_address and modify its value to look like:

listen_address = "*"

The next step we need to take is to add a proper client authentication for remote client to our postgres server. To achieve the same, edit /var/lib/pgsql/data/pg_hba.conf . Append the following line at the end of the file

host all all <katello.example.com ip>/24 md5

Now restart the postgres service for changes to take effect

systemctl restart postgresql

Create the databases

Switch the user role to postgres and start postgres client

su - postgres -c psql

Once inside the client, we need to create two databases and dedicated roles, one for foreman and one for candlepin.



Test it works

From katello.example.com test the DB is accessible:

PGPASSWORD='<FOREMAN_PASSWORD>' psql -h postgres.example.com -p 5432 -U foreman -d foreman -c "SELECT 1 as ping

PGPASSWORD='<CANDLEPIN_PASSWORD>' psql -h postgres.example.com -p 5432 -U candlepin -d candlepin -c "SELECT 1 as ping"

If there are no errors we are done with database preparation.

Prepare remote Mongo

GOAL: To use remote Mongo database with Foreman we have to:

- be able to access the databases from foreman box
- the database user we use to connect to the database needs to own the database

Install Mongo DB

Warning: This is just minimal testing setup which is not suitable for production.

Assume our Mongo server has hostname mongo.example.com . Install and enable Mongo server

yum install -y centos-release-scl yum install -y rh-mongodb34-syspaths

Enable authentication in /etc/mongod.conf

auth=true

Enable and start the service

systemctl enable --now mongod

Create Pulp user and database

mongo admin -u admin -p admin --eval "db.createUser({user:'pulp',pwd:'<PULP_PASSWORD>',roles:[{role:'dbOwner', db:'pulp_database'}]})"

Test it works

From katello.example.com test the mongo DB is accessible:

mongo --host mongo.example.com -u pulp -p <PULP_PASSWORD> --port 27017 --eval 'ping:1' pulp_database

If there are no errors we are done with database preparation.

Fresh install

Install katello package

We assume the box where the Foreman server will be installed has hostname katello.example.com .

Follow the documentation to install the katello package and do not run foreman-installer. We need to use the remote database flags with the installer. Use the following steps once the katello rpm is installed.

Prepare remote databases

Follow the instructions to prepare remote mongo and prepare remote postgres to make the remote database servers ready for installation.

Run the installer

To install and configure Foreman we just need to run

foreman-installerscenario katello \ foreman-db-host postgres.example.com \ foreman-db-password <foreman_password> \ foreman-db-manage false katello-candlepin-db-host postgres.example.com \ katello-candlepin-db-name candlepin \ katello-candlepin-db-password <candlepin_password> \ katello-candlepin-db-password <candlepin_password> \ katello-candlepin-manage-db false \ katello-pulp-db-username pulp \ katello-pulp-db-seeds "mongo.example.com:27017" \ katello-pulp-db-name pulp_database katello-pulp-manage-db false</candlepin_password></candlepin_password></foreman_password>

Note: for more related options and tips on SSL configuration see Full list of options

Migration of existing Foreman

Migrating an existing installation to remote databases can take time, so plan for some outage time (length depending on database size) while a backup is taken and the databases are migrated.

In this example, we assume that Foreman was installed and is running on katello.example.com .

Prepare remote databases

Follow the instructions to prepare remote mongo and prepare remote postgres to make the remote database servers ready for migration.

Stop the Foreman server

Stop the Foreman related services to minimize risk of the data changes during the migration

foreman-maintain service stop --exclude postgresql,rh-mongodb34-mongod

Dump databases

Dump the local databases

foreman-maintain backup online --skip-pulp-content --preserve-directory -y /tmp/migration_backup

Restore data in remote databases

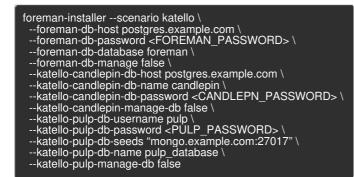
You can restore the SQL dumps to the remote databases from the foreman system.

PGPASSWORD='<FOREMAN_PASSWORD>' pg_restore -h postgres.example.com -U foreman -d foreman < /tmp/migration_backup /foreman.dump PGPASSWORD='<CANDLEPIN_PASSWORD>' pg_restore -h postgres.example.com -U candlepin -d candlepin < /tmp/migration_ba ckup/candlepin.dump mongorestore --host mongo.example.com --db pulp_database --username pulp --password <PULP_PASSWORD> /tmp/migration_ba ckup/mongo_dump

Now the copy of the local database is also at the remote locations.

Update the configuration

To update existing configuration of Foreman we just need to run



The installer start services aside from the database related services. Everything should be up and ready at this point, and you can clean up the local databases if you would like.

Full list of remote database related options in the installer

Use foreman-installer --full-help for all up-to-date installer options

Foreman database related:

	foreman-db-manage foreman-db-database foreman-db-host foreman-db-password foreman-db-pool foreman-db-port foreman-db-root-cert foreman-db-sslmode foreman-db-username	if enabled, will install and configure the database server on this host Database 'production' database (e.g. foreman) Database 'production' host Database 'production' password, default is randomly generated Database 'production' size of connection pool (current: 5) Database 'production' port Root cert used to verify SSL connection to postgres Database 'production' ssl mode (disable allow prefer require verify-full) Database 'production' user (e.g. foreman)	
Candlepin database related:	Candlepin database relate	ed:	

--katello-candlepin-db-host Host with Candlepin DB --katello-candlepin-db-name Name of the Candlepin DB --katello-candlepin-db-password Candlepin DB password --katello-candlepin-db-port Port accepting connections to Candlepin DB --katello-candlepin-db-ssl Boolean indicating if the connection to the database should be over --katello-candlepin-db-ssl-verify Boolean indicating if the SSL connection to the database should be verified --katello-candlepin-db-user Candlepin DB user --katello-candlepin-manage-db Boolean indicating whether a database should be installed, this includes db creation and user Mongo database related: The ca_certs file contains a set of concatenated "certification authority" certificates, --katello-pulp-db-ca-path --katello-pulp-db-name Name of the database to use

--katello-pulp-db-name Name of the database to use --katello-pulp-db-password The password to use for authenticating to the MongoDB server --katello-pulp-db-replica-set The name of replica set configured in MongoDB, if one is in use --katello-pulp-db-seds Comma-separated list of hostname:port of database replica seed hosts --katello-pulp-db-ssl Whether to connect to the database server using SSL. --katello-pulp-db-ssl-certfile The certificate file used to identify the local connection against mongod.) --katello-pulp-db-ssl-keyfile A path to the private keyfile used to identify the local connection against mongod. If --katello-pulp-db-username The user name to use for authenticating to the MongoDB server --katello-pulp-db-verify-ssl Specifies whether a certificate is required from the other side of the connection, and --katello-pulp-db-write-concern Write concern of 'majority' or 'all'. When 'all' is specified, 'w' is set to number of

The actual option names may vary between versions. Check the actual naming with foreman-installer -full-help.

SSL configuration

Here is sample installer command that sets up Postgres databases with SSL verification. The Postgres server has its own CA. The CA cert used by Candlepin needs to be stored in system trust (/etc/pki/java/cacerts) as there is no other way to pass it to Candlepin

foreman-installer -S katello \

- foreman-installer -S katello \
 --foreman-admin-password changeme \
 --foreman-db-host postgres.example.com \
 --foreman-db-password foreman \
 --foreman-db-database foreman 2 \
 --foreman-db-root-cert /etc/pki/ca-trust/source/anchors/ca-chain.cert.pem \
 --foreman-db-sslmode verify-full \
 --katello-candlepin-db-host postgres.example.com \
 --katello-candlepin-db-name candlepin 2 \
 --katello-candlepin-db-ssl true \
 --katello-candlepin-db-ssl true \
 --katello-candlepin-manage-db false

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Content View Import/Export

Content view import/export is one of the new features in Katello 3.9. This feature is for users who want the *exact* same content view version on one Katello instance to be available on another Katello instance. The other Katello instances may or may not have Internet access.

System administrators the ability to have fine-grained control over their content view versions, and they can have the same content view on two or more Katello instances. Additional APIs now exist to allow for this, as well as new commands to the hammer CLI tool.

This new feature works differently than the old export/import feature. The old feature is still available but has been deprecated.

• In earlier versions of Katello, you could only export yum repositories. You could export an entire content view version, but this simply exported each yum repository in the version without any additional metadata.

API additions

Katello 3.9 allows users to publish content view versions with a list of packages. This overrides any filters already set on the content view. It is meant for users who want to say "give me exactly what I want in this content view, with these exact RPMs that cannot be substituted". Errata will be pulled in based on the RPM list. For example, if you include "walrus-0.71.noarch.rpm" and there is an errata that includes that exact package, the errata will be pulled in.

Here is an example. You would POST this to /katello/api/v2/content_views/<id>/publish as the repos_units parameter:



- You can also set the major and minor versions when publishing. For example, if you called the /publish API with major=55 and minor=4, the content view would be version 55.4.
- Using major, minor, and repos_units, you can create a content view version that exactly matches the content on another Katello, with the same version number.

Note

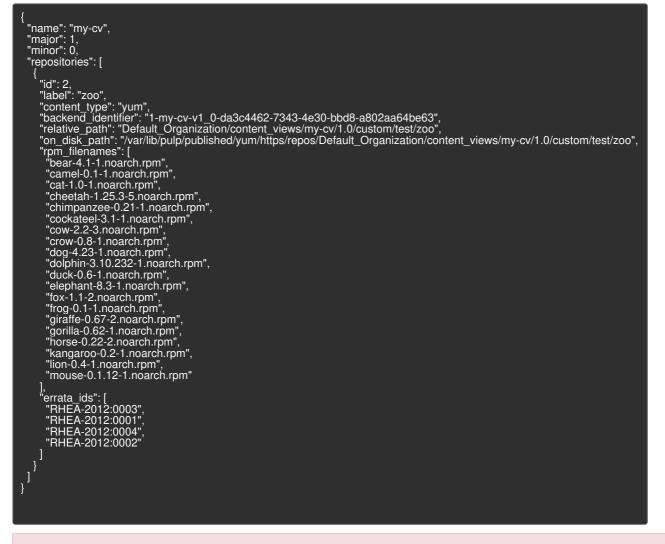
If you call */publish* with the *repos_units* parameter set and also have content view filters set, the *repos_units* will override any filters. This is intentional. A message will be logged to */var/log/foreman/production.log* if the filter is overriden by the *repos_units* parameter.

Hammer additions

• The Hammer CLI tool has two new commands: hammer content-view version export and hammer content-view version import .

Hammer export

• The hammer content-view version export command gathers information about a content view version, and then creates a tar file with that information. It will first create a json file with information about the content view. Here is an example:



Important

The *errata_ids* field is informational only.**ALL** errata in the repository are exported. A process during the import will then clean up errata that are not used.

The hammer command will also create a tar file that contains all of the repositories listed. The final result of the command is a tar file that contains two files: the json, and an inner tar file with all of the repositories. This tar file can be copied to a USB key and used for the **import** command.

Note

Older versions of Katello relied on the Pulp*export_distributor* and *group_export_distributor* to create an ISO image with the yum repositories. Katello would start a server-side task, create an ISO, and then copy the ISO to */var/lib/pulp/katello-export*. This process could take many hours and hundreds of GB of disk space for temporary files. Users can now use hammer to create the tar file. This lets us avoid creating temporary copies of extremely large files.

Hammer import

The hammer content-view version import command uses the tar file created from the export command to create a content view version with the same data. It will create a content view version with the same major and minor version numbers, and the same repositories with the same packages and errata.

Before you run the import command for the first time, you will need to create the same products on the importing Katello that you had on the exporting Katello. This is a step you will only need to do once. You will also need to create the same content view, with same label. Again, you will only need to do this once.

The **import** command will synchronize the packages from the export tar file into Library. It will then call the /publish API and create a new content view version using those packages.

Important

You will need to make sure Katello and Pulp can both read the tar file. If it cannot, you may get an error. The error will be logged in */var/log/foreman/production.log* for Katello, or in */var/log/messages* for Pulp. Ownership of the directory and files should be*Apache* with *system_u:object_r:httpd_sys_rw_content_t:s0* as the SELinux context.

The import process will import all errata from an export. It will then purge any errata that are not associated with packages. This is the same process that is used today when copying RPMs between repositories.

Import/Export Best Practices

The intent of import/export is to capture a content view version on one Katello, and then re-create it on another Katello. The feature does *not* replicate a standard operating environment (SOE) from one Katello to another. A standard operating environment includes a manifest file, content view definitions, products, repositories, activation keys, host groups, and other information.

Please use foreman-ansible-modules or Hammer scripts to define your SOE in a reproducible way. Once you have a reproducible SOE, you can then use import/export to keep your Katello updated.

Note

To ensure proper SELinux contexts on the importing tar and files, use the /var/lib/pulp/katello-export directory on the importing Katello. This directory already has the correct permissions and correct SELinux labels, and was created specifically as a landing place for files not created by Pulp that Pulp needs to read or write. If choosing to use a different directory please see the alert at the end of the import section for proper permissions and SELinux context settings.

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Katello Troubleshooting

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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:

	zation	✓ Monitor ✓ Content ✓ Hosts ✓ Content ✓	onfigure 🔻	Infrastructure - Administe
				System Information Version 1.6.0-RC1 © 2009-2014 Paul Kelly and Ohad Levy
Backend Syste	em Statu	IS		Installed Packages
Component	Status	Message		
candlepin	FAIL	Connection refused - connect(2)		
candlepin_auth	FAIL	A backend service [Candlepin] is unreachable		
elasticsearch	ОК			
	ок			
foreman_tasks	UK			

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

foreman-maintain tool can be used to restart Katello related services. See foreman-maintain --help 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 result = error :

Yersions for Content) × Tasks C Dynflow Console C <lic< li=""> <lic< li=""></lic<></lic<>	result+%3	D+error		
FOREMAN Default_Organization - Monitor - Content - Hosts - Configur		astructure		Imin User 👻
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** :

Versions for Content ¹ × C Tasks × Dynflow Console ×							
Image: State of the state							☆ =
Default_Organization - Monitor -	Content -	Hosts -	Configure -	Infrastruc	eture -	Admin User 👻	
Tasks							
state = paused	× Q Searc	:h 💌					
Action			State	Result	▲ Started at	User	
Publish content view 'My view'; organization 'D	efault_Organizat	tion'	paused	error	2014-09-12 08:51:02 UTC	admin	
Displaying 1 entry							

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	
🐨 🗞 🔀 🕼 🖗 🕼 🕼 🖉	≡
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:

ublish Content View: ×) 🐥 https:/		
	ple.com/foreman_tasks/tasks/8cb306e7-91a9-49cc-8172-77fbd152	eOc5 کې
		🌅 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"], nil,	۰,

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:

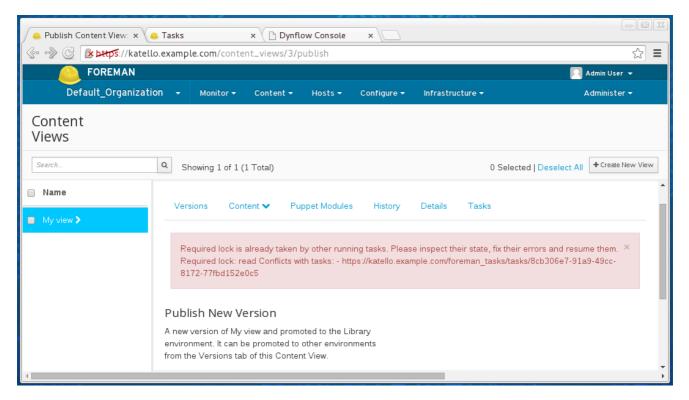
Publish Content View: × 🦲 https://katello.exampl × 🕒 Dynflow Console 🛛 🗙	
🐨 🛷 🕑 🕼 🗠 🐨 🐨 🖉 🚱 🐨 🖉 🖉 🚱 🐨 🖉 🌝 🐨 🐨 🐨 🖉 🖉 🖉 🖉 🎯 🐨 🐨 🐨 🖉 🖉 🌝 🐨 🖉 🌚 🐨 🐨 🐨 🐨 🖉 🌚 🐨 🖉 🌚 🐨 🖓 🌚 🖓 🐨 🖓 🐨 🖓 🐨 🖓 🖓 👘 🖓 𝔅 🖓 👘 🖓 𝔅 𝔅 𝔅 𝔅 𝔅 𝔅 𝔅 𝔅 𝔅 𝔅 𝔅 𝔅 𝔅	☆ =
Status: running	-
Result: error	
Started at: 2014-09-12 08:51:02 UTC	
Ended at:	
Plan Run Finalize	
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 (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						
An	y Context 👻	Monitor 🗸	Content 🗸	Hosts 🕶	Configure -	Infrastructure -	Administer 🗸

Edit Default Organization

Name *	Default Org	ganization						
Label *	Label • Default_Organization Description fault System SLA No Service Level Preference Debug certificate Generate and Download This certificate allows a user to view the repositories in any environment from a browser All users All users Select users All items Filter Selected items							
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								
Smart Proxies		All users						
		Select users	All items Filt	er H		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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eman v2		
an API v2 is currently the default API version.		
sources		
tivation keys		
burce	Description	
/katello/api/activation_keys	List activation keys	
llo/api/environments/:environment_id/activation_key	S	
llo/api/organizations/:organization_id/activation_key	S	
T /katello/api/activation_keys	Create an activation key	
/katello/api/activation_keys/:id	Update an activation key	
ETE /katello/api/activation_keys/:id	Destroy an activation key	
/katello/api/activation_keys/:id	Show an activation key	
T /katello/api/activation_keys/:id/copy	Copy an activation key	
llo/api/activation_keys/:id/host_collections/available	List host collections the activation key does not belong to	
/katello/api/activation_keys/:id/releases	Show release versions available for an activation key	
/katello/api/activation_keys/:id/product_content	Show content available for an activation key	
T /katello/api/activation_keys/:id/host_collections		
/katello/api/activation_keys/:id/host_collections		
/katello/api/activation_keys/:id/add_subscriptions	Attach a subscription	
/katello/api/activation_keys/:id/remove_subscription	s Unattach a subscription	
	Override content for activation key	

Resources

Activation keys

Resource	Description
GET /katello/api/activation_keys	List activation keys
GET /katello/api/environments/:environment_id/activation_keys	
GET /katello/api/organizations/:organization_id/activation_keys	
POST /katello/api/activation_keys	Create an activation key
PUT /katello/api/activation_keys/:id	Update an activation key
DELETE /katello/api/activation_keys/:id	Destroy an activation key
GET /katello/api/activation_keys/:id	Show an activation key
POST /katello/api/activation_keys/:id/copy	Copy an activation key
GET /katello/api/activation_keys/:id/host_collections/available	List host collections the activation key does not belong to
GET /katello/api/activation_keys/:id/releases	Show release versions available for an activation key
GET /katello/api/activation_keys/:id/product_content	Show content available for an activation key
POST /katello/api/activation_keys/:id/host_collections	
PUT /katello/api/activation_keys/:id/host_collections	
PUT /katello/api/activation_keys/:id/add_subscriptions	Attach a subscription
PUT /katello/api/activation_keys/:id/remove_subscriptions	Unattach a subscription
PUT /katello/api/activation_keys/:id/content_override	Override content for activation_key

Architectures

Resource	Description	
GET /api/architectures	List all architectures	
		-

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Repository Sync (default settings)

Request # 1:

POST /pulp/api/v2/repositories/scenario_test/actions/sync/

Backend Service: pulp

Description:





Response body



Request # 2: Poll Sync task

GET /pulp/api/v2/tasks/8b9c7591-4d1b-48b7-b37b-bce4fdc9c2fd/

Backend Service: pulp

Description:

Total Requests for this URL: 32

Request body

None

Response body



```
},
"size_total": 0,
"size_left": 0,
"items_left": 0
         },
"purge_duplicates": {
"state": "FINISHED"
        },
"distribution": {
"items_total": 3,
"state": "FINISHED",
"error_details": [
              ],
"items_left": 0
         },
"errata": {
"state": "FINISHED"
          },
"metadata": {
"state": "FINISHED"
}
}
"queue": "reserved_resource_worker-1@dev.example.com.dq",
"state": "finished",
"worker_name": "resource_worker-1@dev.example.com",
"result": {
    "result": "success",
    "importer_id": "yum_importer",
    "exception": null,
    "repo_id": "scenario_test",
    "traceback": null,
    "started": "2017-03-30T21:16:05Z",
    "_ns": "repo_sync_results",
    "completed": "2017-03-30T21:16:05Z",
    "importer_type_id": "yum_importer",
    "eror_message": null,
    "summary": {
    "content": {
        "state": "FINISHED"
        },
        "

       }
         },
"comps": {
"state": "FINISHED"
          },
"purge_duplicates": {
"state": "FINISHED"
          },
"distribution": {
"state": "FINISHED"
         },
"errata": {
"state": "FINISHED"
         },
"metadata": {
"state": "FINISHED"
       },
"added_count": 15,
"removed_count": 0,
"updated_count": 0,
"id": "58dd7595418a8a0648b9bc52",
      "id": "58dd7595418a8a(
"details": {
    "content": {
        "size_total": 0,
        "items_left": 0,
        "items_total": 0,
        "state": "FINISHED",
        "size_left": 0,
        "details": {
        "rpm_total": 0,
        "drpm_total": 0,
        "drpm_done": 0
        },
              },
"error_details": [
              ]
          },
"comps": {
"state": "FINISHED"
          },
"purge_duplicates": {
"state": "FINISHED"
          },
"distribution": {
"items_total": 3,
"state": "FINISHED",
               "error_details": [
```



Request # 3: Poll Publish task

GET /pulp/api/v2/tasks/0837f608-4696-449a-811f-70ddabe59025/

Backend Service: pulp

Description:

Total Requests for this URL: 12

Request body

None

```
{

"exception": null,

"task_type": "pulp.server.managers.repo.publish.publish",

"_href": "/pulp/api/v2/tasks/0837f608-4696-449a-811f-70ddabe59025/",

"task_id": "0837f608-4696-449a-811f-70ddabe59025",

"tags": [

"pulp:repository:scenario_test",
    ],
"finish_time": "2017-03-30T21:16:05Z",
"_ns": "task_status",
"start_time": "2017-03-30T21:16:05Z",
"traceback": null,
"spawned_tasks": [
      ],
"progress_report": {
"scenario_test": [
           {

"num_success": 1,

"description": "Copying files",

"step_type": "save_tar",

"items_total": 1,

"state": "FINISHED",

"error_details": [
                ],
"details": "",
"num_failures": 0,
"step_id": "8fa5d08e-3473-4127-80f6-223bee0a0409",
"step_id": "8fa5d08e-3473-4127-80f6-223bee0a0409",
"sum_processed": 1
            {
    "num_success": 1,
    "description": "Initializing repo metadata",
    "step_type": "initialize_repo_metadata",
    "items_total": 1,
    "state": "FINISHED",
    "error_details": [
               ],
"details": "",
"num_failures": 0,
"step_id": "32cee4d1-6e51-419a-9833-5f2c88e3efd9",
"step_id": "32cee4d1-6e51-419a-9833-5f2c88e3efd9",
"num_processed": 1
               "num_success": 1,
"description": "Publishing Distribution files",
"step_type": "distribution",
"items_total": 1,
"state": "FINISHED",
"error_details": [
                  ],
"details": ""
```

```
"num_failures": 0,
"step_id": "d62a1815-acd5-439c-b511-dcbd69edade4",
"num_processed": 1
{

"num_success": 8,

"description": "Publishing RPMs",

"step_type": "rpms",

"items_total": 8,

"state": "FINISHED",

"error_details": [
    ],
"details": "",
"num_failures": 0,
"step_id": "197b0894-07fd-470b-8bb4-5a55b9713d18",
"step_id": "197b0894-07fd-470b-8bb4-5a55b9713d18",
"sum_processed": 8
   {
    "num_success": 0,
    "description": "Publishing Delta RPMs",
    "step_type": "drpms",
    "items_total": 1,
    "state": "SKIPPED",
    "error_details": [
    ],
"details": "",
"num_failures": 0,
"step_id": "54795382-de70-4de3-a8ce-5f726b8f9cb2",
"step_id": "54795382-de70-4de3-a8ce-5f726b8f9cb2",
"num_processed": 0
  },
{

"num_success": 3,

"description": "Publishing Errata",

"step_type": "errata",

"items_total": 3,

"state": "FINISHED",

"error_details": [
    ],
"details": "",
"num_failures": 0,
"step_id": "1996449c-9471-4988-b3ee-b7ceae0c6b41",
"step_id": "1996449c-9471-4988-b3ee-b7ceae0c6b41",
"sum_processed": 3
   "num_success": 3,
"description": "Publishing Comps file",
"step_type": "comps",
"items total": 3,
"state": "FINISHED",
"error_details": [
    ],
"details": "",
"num_failures": 0,
"step_id": "f12472f5-4012-4112-afe0-49f57348e569",
"step_id": "f12472f5-4012-4112-afe0-49f57348e569",
"num_processed": 3
  {

"num_success": 0,

"description": "Publishing Metadata.",

"step_type": "metadata",

"items_total": 0,

"state": "FINISHED",

"error_details": [
    ],
"details": "",
"num_failures": 0,
"step_id": "31efb1ef-a413-48be-99f2-7f4788a1cebd",
"step_id": "31efb1ef-a413-48be-99f2-7f4788a1cebd",
"num_processed": 0
    "num_success": 1,
"description": "Closing repo metadata",
"step_type": "close_repo_metadata",
"items_total": 1,
"state": "FINISHED",
"error_details": [
    ],
"details": "",
"num_failures": 0,
"step_id": "22b9313d-ffae-49e3-8027-c86ef68f34de",
"step_id": "22b9313d-ffae-49e3-8027-c86ef68f34de",
"num_processed": 1
  }.
 {
"num_success": 0,
"description": "Generating sqlite files",
"step_type": "generate sqlite",
"items_total": 1,
"state": "SKIPPEP"
```

"error_details": [], "details": "", "num_failures": 0, "step_id": "fbc75485-e400-4cfa-bfa7-693edd8a832c", "step_id": "fbc75485-e400-4cfa-bfa7-693edd8a832c", "num_success": 0, "description": "Generating HTML files", "step_type": "repoview", "items_total": 1, "state": "SKIPPED", "error_details": [], "details": "", "num_failures": 0, "num_id": "bf1215 "step_id": "bf1215fe-c617-4481-894a-1ff1c7c7043b", "num_processed": 0 "num_success": 1, "description": "Publishing files to web", "step_type": "publish_directory", "items_total": 1, "state": "FINISHED", "error_details": [], "details": "", "num_failures": 0, "step_id": "605ae2e4-c443-4a5b-ba9f-f313d23c4822", "step_id": "605ae2e4-c443-4a5b-ba9f-f313d23c4822", "num_processed": 1 { "num_success": 1, "description": "Writing Listings File", "step_type": "initialize_repo_metadata", "items_total": 1, "state": "FINISHED", "error_details": [], "details": "", "num_failures": 0, "step_id": "9fa215e9-b465-4f33-9ddd-e05c5a9e314d", "step_id": "9fa215e9-b465-4f33-9ddd-e05c5a9e314d", "num_processed": 1 } },¹ "queue": "reserved_resource_worker-1@dev.example.com.dq", "state": "finished", "worker_name": "reserved_resource_worker-1@dev.example.com", "worker_name": "reserved_resource_wo "result": { "result": success", "exception": **null**, "repo_id": "scenario_test", "started": "2017-03-30T21:16:05Z", "_ns": "repo_publish_results", "completed": "2017-03-30T21:16:05Z", "traceback": **null**, "distributor true, idistributor true, "distributor" "traceback": null, "distributor_type_id": "yum_distributor", "summary": { "generate sqlite": "SKIPPED", "initialize_repo_metadata": "FINISHED", "repoview": "SKIPPED", "close_repo_metadata": "FINISHED", "distribution": "FINISHED", "distribution": "FINISHED", "distribution": "FINISHED", "publish_directory": "FINISHED", "errata": "FINISHED", "metadata": "FINIS }, "error_message": **null**, "distributor_id": "scenario_test", "id": "58dd7595418a8a0648b9bc53", "details": [{ "num_success": 1, "description": "Copying files", "step_type": "save_tar", "items_total": 1, "state": "FINISHED", "error_details": [], "details": "", "num failures": 0

```
"step_id": "8fa5d08e-3473-4127-80f6-223bee0a0409",
     "num_processed": 1
  },
{

"num_success": 1,

"description": "Initializing repo metadata",

"step_type": "initialize_repo_metadata",

"items_total": 1,

"state": "FINISHED",

"error_details": [
    ],
"details": "",
"num_failures": 0,
"step_id": "32cee4d1-6e51-419a-9833-5f2c88e3efd9",
     "num_processed": 1
    {

"num_success": 1,

"description": "Publishing Distribution files",

"step_type": "distribution",

"items_total": 1,

"state": "FINISHED",

"error_details": [
   ],
"details": "",
"num_failures": 0,
"step_id": "d62a1815-acd5-439c-b511-dcbd69edade4",
"step_id": "d62a1815-acd5-439c-b511-dcbd69edade4",
"num_processed": 1
    {

"num_success": 8,

"description": "Publishing RPMs",

"step_type": "rpms",

"items_total": 8,

"state": "FINISHED",

"error_details": [
    ],
"details": "",
"num_failures": 0,
"step_id": "197b0894-07fd-470b-8bb4-5a55b9713d18",
"num_processed": 8
   "num_success": 0,
"description": "Publishing Delta RPMs",
"step_type": "drpms",
"items_total": 1,
"state": "SKIPPED",
"error_details": [
   ],
"details": "",
"num_failures": 0,
"step_id": "54795382-de70-4de3-a8ce-5f726b8f9cb2",
"step_id": "54795382-de70-4de3-a8ce-5f726b8f9cb2",
"num_processed": 0
   "num_success": 3,
"description": "Publishing Errata",
"step_type": "errata",
"items_total": 3,
"state": "FINISHED",
"error_details": [
    ],
"details": "",
"num_failures": 0,
"step_id": "1996449c-9471-4988-b3ee-b7ceae0c6b41",
"step_id": "1996449c-9471-4988-b3ee-b7ceae0c6b41",
   "num_success": 3,
"description": "Publishing Comps file",
"step_type": "comps",
"items_total": 3,
"state": "FINISHED",
"error_details": [
    ],
"details": "",
    "num_failures": 0,
"step_id": "f12472f5-4012-4112-afe0-49f57348e569",
      "num_processed": 3
    "num_success": 0,
"description": "Publishing Metadata.",
"step_type": "metadata",
"items_total": 0,
"state": "FINISHED",
```

```
],
"details": "",
"num_failures": 0,
"step_id": "31efb1ef-a413-48be-99f2-7f4788a1cebd",
"num_processed": 0
        "num_success": 1,
"description": "Closing repo metadata",
"step_type": "close_repo_metadata",
"items_total": 1,
"state": "FINISHED",
"error_details": [
        ],
"details": "",
"num_failures": 0,
"step_id": "22b9313d-ffae-49e3-8027-c86ef68f34de",
"step_id": "22b9313d-ffae-49e3-8027-c86ef68f34de",
"num_processed": 1
       "num_success": 0,
"description": "Generating sqlite files",
"step_type": "generate sqlite",
"items_total": 1,
"state": "SKIPPED",
"error_details": [
        ],
"details": "",
"num_failures": 0,
"step_id": "fbc75485-e400-4cfa-bfa7-693edd8a832c",
"step_id": "fbc75485-e400-4cfa-bfa7-693edd8a832c",
        "num_success": 0,
"description": "Generating HTML files",
"step_type": "repoview",
"items_total": 1,
"state": "SKIPPED",
"error_details": [
        ],
"details": "",
        "num_failures": 0,
"step_id": "bf1215fe-c617-4481-894a-1ff1c7c7043b",
          "num_processed": 0
       "num_success": 1,
"description": "Publishing files to web",
"step_type": "publish_directory",
"items_total": 1,
"state": "FINISHED",
"error_details": [
        ],
"details": "",
        "num_failures": 0,
"step_id": "605ae2e4-c443-4a5b-ba9f-f313d23c4822",
         "num_processed": 1
        "num_success": 1,
"description": "Writing Listings File",
"step_type": "initialize_repo_metadata",
"iteres_totel": 1
         "items_total": 1,
"state": "FINISHED",
         "error_details": [
       ],
"details": "",
"num_failures": 0,
"step_id": "9fa215e9-b465-4f33-9ddd-e05c5a9e314d",
"step_id": "9fa215e9-b465-4f33-9ddd-e05c5a9e314d",
"sum_processed": 1
    1
},
"error": null,
"_id": {
___id": "580
   "$oid": "58dd7595e6919db96421ea23"
 "id": "58dd7595e6919db96421ea23"
```

'error_details": |

Request # 4: Distribution Search

POST /pulp/api/v2/repositories/scenario_test/search/units/

Backend Service: pulp

Description: Search for distribution information with all fields

Request body



Response body

`"metadata": { "files": [
['] "relativepath": "images/test2.img", "checksumtype": "sha256", "checksum": "e3b0c44298fc1c149afbf4c8996fb92427ae41e4649b934ca495991b7852b855" }.
{ "relativepath": "empty.iso", "checksumtype": "sha256", "checksum": "e3b0c44298fc1c149afbf4c8996fb92427ae41e4649b934ca495991b7852b855"
}, { "relativepath": "images/test1.img", "checksumtype": "sha256",
"checksum": "e3b0c44298fc1c149afbf4c8996fb92427ae41e4649b934ca495991b7852b855" }
¹ _storage_path": "/var/lib/pulp/content/units/distribution/9b/831256a124718bf39166b564d8e689954ff0a8f0f479ba24cfa26350109b c5".
"family": "Test Family", "downloaded": true , "timestamp": 1323112153.09, "_last_updated": 1490908565, "_content_type_id": "distribution", "variant": "TestVariant", "id": "ks-Test Family-TestVariant-16-x86_64", "version": "16", "version_sort_index": "02-16", "pulp_user_metadata": {
}, "packagedir": "", "_id": "be1ea9b9-518c-4c05-ab97-3d6102482158", "arch": "x86_64", ns": "units_distribution"
}, "updated": "2017-03-30T21:16:05Z", "repo_id": "scenario_test", "created": "2017-03-30T21:16:05Z", "unit_type_id": "distribution", "unit_id": "be1ea9b9-518c-4c05-ab97-3d6102482158",
"_id": { "\$oid": "58dd7595e6919db96421ea1c" } }

Request # 5: Fetch rpm unit ids for this repo

POST /pulp/api/v2/repositories/scenario_test/search/units/

Backend Service: pulp

Description:

Request body



```
"metadata": {
"_id": "085babbb-3a43-4b9c-bdfb-915fd78c7bec",
" content type id": "rpm"
  },
   '_id": {
"$oid": "58dd7595e6919db96421ea1a"
 },
"unit_id": "085babbb-3a43-4b9c-bdfb-915fd78c7bec",
"unit_type_id": "rpm"
 "metadata": {
"_id": "2b00d383-f2c7-462c-bfe3-25a008caa0fe",
"_content_type_id": "rpm"
 },
"_id": {
"$oid": "58dd7595e6919db96421ea18"
 },
"unit_id": "2b00d383-f2c7-462c-bfe3-25a008caa0fe",
"unit_type_id": "rpm"
 "metadata": {
"_id": "5ee1ec3a-7f81-47e6-bbba-11b443251f29",
"_content_type_id": "rpm"
 },
"_id": {
"$oid": "58dd7595e6919db96421ea15"
={04_47o6-bbba-11
  },
"unit_id": "5ee1ec3a-7f81-47e6-bbba-11b443251f29",
"unit_type_id": "rpm"
 "metadata": {
"_id": "6b8e6197-c155-4c8c-a931-aa5b85bd218c",
"_content_type_id": "rpm"
 },
"_id": {
"$oid": "58dd7595e6919db96421ea17"
155_4c8c-a931-aa
  ",
"unit_id": "6b8e6197-c155-4c8c-a931-aa5b85bd218c",
"unit_type_id": "rpm"
 "metadata": {
"_id": "7ff4f862-7ae7-4b20-b072-0d154a9cc527",
_ "_content_type_id": "rpm"
 },
"_id": {
"$oid": "58dd7595e6919db96421ea16"
 /,
"unit_id": "7ff4f862-7ae7-4b20-b072-0d154a9cc527",
"unit_type_id": "rpm"
 "metadata": {
" id": "9f6b8fda-dd97-453e-8841-093d05c8eac3",
id": "som"
   '_id": {
"$oid": "58dd7595e6919db96421ea19"
 },
"unit_id": "9f6b8fda-dd97-453e-8841-093d05c8eac3",
"unit_type_id": "rpm"
 "metadata": {
"_id": "d35640a0-8613-44bd-9e99-141af2843087",
_"_content_type_id": "rpm"
   '_id": {
"$oid": "58dd7595e6919db96421ea14"
  },
"unit_id": "d35640a0-8613-44bd-9e99-141af2843087",
  "unit_type_id": "rpm"
 "metadata": {
"_id": "f521f967-a646-436e-ba83-1ac9ef8f7cd8",
   "_content_type_id": "rpm"
 },
"_id": {
"$oid": "58dd7595e6919db96421ea1b"
 },
"unit_id": "f521f967-a646-436e-ba83-1ac9ef8f7cd8",
"unit_type_id": "rpm"
}
```

Request # 6: Fetch rpm units for this repository

POST /pulp/api/v2/content/units/rpm/search/

Backend Service: pulp

Description: Search for all rpms with the previously fetched ids. We do this because historically we've wanted the list of all repo ids for each unit, which is only available via this endpoint.

Request body



¹ "repository_memberships": [
"scenario_test"
], "sourcerpm": "walrus-0.3-0.8.src.rpm", "name": "walrus"
"name": "walrus", "checksum": "6e8d6dc057e3e2c9819f0dc7e6c7b7f86bf2e8571bba414adec7fb621a461dfd",
"summary": "A dummy package of walrus".
"filename ^r ": "walrus-0.3-0.8.noarch.rpm", "epoch": "0",
"version": "0.3",
"release": "0.8", " id": "085babbb-3a43-4b9c-bdfb-915fd78c7bec",
"arch": "noarch",
"children": {
^f _href": "/pulp/api/v2/content/units/rpm/085babbb-3a43-4b9c-bdfb-915fd78c7bec/"
}, {
"repository_memberships": [
"scenario_test"
], "sourcerpm": "penguin-0.3-0.8.src.rpm", "name": "penguin".
"checksum": "3fch2c927de9e13bf68469032a28b139d3e5ad2e58564fc210fd6e48635be694"
"summary": "A dummy package of penguin",
"summary": "A dummy package of penguin", "filename": "penguin-0.3-0.8.noarch.rpm", "epoch": "0",
"version": "0.3",
"release": "0.8", " id": "2b00d383-f2c7-462c-bfe3-25a008caa0fe",
"arch": "noarch",
"children": { }
"_href": "/pulp/api/v2/content/units/rpm/2b00d383-f2c7-462c-bfe3-25a008caa0fe/"
}, {
"repository_memberships": [
"scenario_test"

```
"sourcerpm": "elephant-0.3-0.8.src.rpm",
"name": "elephant",
"checksum": "3e1c70cd1b421328acaf6397cb3d16145306bb95f65d1b095fc31372a0a701f3",
"summary": "A dummy package of elephant",
"filename": "elephant-0.3-0.8.noarch.rpm",
"epoch": "0",
"version": "0.3",
"release": "0.8",
"_id": "5ee1ec3a-7f81-47e6-bbba-11b443251f29",
"arch": "noarch",
"children": {
href": "/pulp/api/v2/content/units/rpm/5ee1ec3a-7f81-47e6-bbba-11b443251f29/"
"repository_memberships": [
"scenario_test"
],
"sourcerpm": "monkey-0.3-0.8.src.rpm",
"name": "monkey",
"checksum": "0e8fa50d0128fbabc7ccc5632e3fa25d39b0280169f6166cb8e2c84de8501db1",
"summary": "A dummy package of monkey",
"filename": "monkey-0.3-0.8.noarch.rpm",
"epoch": "0",
"version": "0.3",
"release": "0.8",
"_id": "6b8e6197-c155-4c8c-a931-aa5b85bd218c",
"arch": "noarch",
"children": {
},
"_href": "/pulp/api/v2/content/units/rpm/6b8e6197-c155-4c8c-a931-aa5b85bd218c/"
"repository_memberships": [
"scenario_test"
],
"sourcerpm": "lion-0.3-0.8.src.rpm",
"name": "lion",
"checksum": "12400dc95c23a4c160725a908716cd3fcdd7a8981585437ab64cd62efa3e4ae4",
"summary": "A dummy package of lion",
"filename": "lion-0.3-0.8.noarch.rpm",
"epoch": "0",
"version": "0.3",
"release": "0.8",
"_id": "7ff4f862-7ae7-4b20-b072-0d154a9cc527",
"arch": "noarch",
"children": {
// href": "/pulp/api/v2/content/units/rpm/7ff4f862-7ae7-4b20-b072-0d154a9cc527/"
"repository_memberships": [
"scenario_test"
],
"sourcerpm": "cheetah-0.3-0.8.src.rpm",
"name": "cheetah",
"cheeksum": "422d0baa0cd9d7713ae796e886a23e17f578f924f74880debdbb7d65fb368dae",
"summary": "A dummy package of cheetah",
"filename": "cheetah-0.3-0.8.noarch.rpm",
"epoch": "0",
"version": "0.3",
"release": "0.8",
"_id": "9f6b8fda-dd97-453e-8841-093d05c8eac3",
"arch": "noarch",
"children": {
" href": "/pulp/api/v2/content/units/rpm/9f6b8fda-dd97-453e-8841-093d05c8eac3/"
"repository_memberships": [
"scenario_test"
],
"sourcerpm": "giraffe-0.3-0.8.src.rpm",
"name": "giraffe",
"checksum": "f25d67d1d9da04f12e57ca323247b43891ac46533e355b82de6d1922009f9f14",
"summary": "A dummy package of giraffe",
"filename": "giraffe-0.3-0.8.noarch.rpm",
"epoch": "0",
"version": "0.3",
"release": "0.8",
"_id": "d35640a0-8613-44bd-9e99-141af2843087",
"arch": "noarch",
"abildrosu": (
"children": {
},
"_href": "/pulp/api/v2/content/units/rpm/d35640a0-8613-44bd-9e99-141af2843087/"
"repository_memberships": [
   "scenario_test
],
"sourcerpm": "squirrel-0.3-0.8.src.rpm",
```



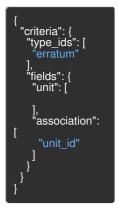
Request # 7: Fetch Errata ids for repository

POST /pulp/api/v2/repositories/scenario_test/search/units/

Backend Service: pulp

Description:

Request body



Response body



Request # 8: Fetch errata units.

POST /pulp/api/v2/content/units/erratum/search/

Backend Service: pulp

Description: Using the previously fetched ids, we fetch all errata in the repo.

Request body



Response body

```
"repository_memberships": [
"scenario_test"
],
"_href": "/pulp/api/v2/content/units/erratum/4b12197f-28b0-4d5c-bf8d-057dc0b378f1/",
"issued": "2010-11-10 00:00:00",
 "references": [
    "href": "https://rhn.redhat.com/errata/RHSA-2010-0858.html",
"type": "self",
"id": null,
     "id": null,
"title": "RHSA-2010:0858"
   "href": "https://bugzilla.redhat.com/bugzilla/show_bug.cgi?id=627882",
"type": "bugzilla",
"id": "627882",
     "title": "CVE-2010-0405 bzip2: integer overflow flaw in BZ2_decompress"
   "href": "https://www.redhat.com/security/data/cve/CVE-2010-0405.html",
"type": "cve",
"id": "CVE-2010-0405",
"title": "CVE-2010-0405"_____
    "href": "http://www.redhat.com/security/updates/classification/#important",
"type": "other",
"id": null,
"title": null
"pulp_user_metadata": {
},
},

_____content_type_id": "erratum",

"id": "RHSA-2010:0858",

"from": "security@redhat.com",

"severity": "Important",

"title": "Important: bzip2 security update",

"children": {
"version": "3",
"reboot_suggested": false,
"type": "security",
"pkglist": [
  _pulp_repo_id": "scenario_test",
     "packages": [
        "src": "bzip2-1.0.5-7.el6_0.src.rpm",
"name": "bzip2-devel",
"sum": [
"sha256",
"ea67c664da1ff96a6dc94d33009b73d8fab31b59824183fb45e9ba2ebf82d583"
        ],
"filename": "bzip2-devel-1.0.5-7.el6_0.i686.rpm",
"epoch": "0",
"version": "1.0.5",
"release": "7.el6_0",
"arch": "i686"
        "src": "bzip2-1.0.5-7.el6_0.src.rpm",
"name": "bzip2-libs",
"sum": [
"sha256",
           "c9f064a6862573fb9f2a6aff7c3621f1940b492df2edfc2ebbdc0b8305f51147"
```

```
"filename": "bzip2-libs-1.0.5-7.el6_0.i686.rpm",
             "epoch": "0",
"version": "1.0.5",
"release": "7.el6_0",
"arch": "i686"
              "src": "bzip2-1.0.5-7.el6_0.src.rpm",
             "name": "bzip2",
"sum": [
"sha256",
                "b8a3f72bc2b0d89ba737099ac98bf8d2af4bea02d31884c02db97f7f66c3d5c2"
              ],
"filename": "bzip2-1.0.5-7.el6_0.x86_64.rpm",
             "epoch": "0",
"version": "1.0.5",
"release": "7.el6_0",
"arch": "x86_64"
             "src": "bzip2-1.0.5-7.el6_0.src.rpm",
"name": "bzip2-devel",
"sum": [
"sha256",
"7f63124e4655b7c92d23ec4c38226f5d3746568853dff750fc85e058e74b5cf6"
              ],
"filename": "bzip2-devel-1.0.5-7.el6_0.x86_64.rpm",
             "epoch": "0",
"version": "1.0.5",
"release": "7.el6_0",
"arch": "x86_64"
             "src": "bzip2-1.0.5-7.el6_0.src.rpm",
"name": "bzip2-libs",
"sum": [
"sha256",
                "802f4399dbdd01476e254c3b32c40aff59cf5d23a45fa488c6917ce8904d6b4d"
              ],
"filename": "bzip2-libs-1.0.5-7.el6_0.x86_64.rpm",
             "epoch": "0",
"version": "1.0.5",
"release": "7.el6_0",
"arch": "x86_64"
            }
         ],
"name": "Red Hat Enterprise Linux Server (v. 6 for 64-bit x86_64)",
"short": "rhel-x86_64-server-6"
       }
    ],
"status": "final",
"updated": "2010-11-10 00:00:00",
"updated": "bzip2 is a freely ava
     "description": "bzip2 is a freely available, high-quality data compressor. It provides both\nlibbz2 library must be restarted for the upd
ate to take effect.",

[last_updated": "2017-03-30T21:16:05Z",
"_last_updated : 2017-05-00121110.0001,
"pushcount": "",
"rights": "Copyright 2010 Red Hat Inc",
"solution": "Before applying this update, make sure all previously-released errata\nrelevant to your system have been applied.\n\nT
his update is available via the Red Hat Network. Details on how to\nuse the Red Hat Network to apply this update are available at\nht
tp://kbase.redhat.com/faq/docs/DOC-11259",
"summary": "Updated bzip2 packages that fix one security issue",
"release": "",
" id": "4b12197f-28b0-4d5c-bf8d-057dc0b378f1"
   {
"repository_memberships": [
" cost"
        "scenario_test"
     ],
"_href": "/pulp/api/v2/content/units/erratum/5bc4a860-2872-461a-8061-b30626274615/",
"issued": "2010-01-01 01:01:01",
"references": [
     ],
"pulp_user_metadata": {
     },
     "content_type_id": "erratum",
"id": "RHEA-2010:0002",
"from": "lzap+pub@redhat.com",
"councitut: "
     "severity": "",
"title": "One package errata",
"children": {
      "version": "1",
     "reboot_suggested": false,
"type": "security",
"pkglist": [
        {
___pulp_repo_id": "scenario_test",
          "packages": [
            {
    "src": "http://www.fedoraproject.org",
              "name": "elephant",
"sum": null,
```

```
"elephant-0.3-0.8.noarch.rpm",
                "filename":
             "epoch": null,
"version": "0.3",
"release": "0.8",
"arch": "noarch"
        ],
"name": "1",
"short": ""
  ],
"status": "stable",
"updated": "",
"description": "One package errata",
"_last_updated": "2017-03-30T21:16:05Z",
"pushcount": "",
"rights": "",
"solution": "",
"summary": "".
   "solution": "",
"summary": "",
"release": "1",
"_id": "5bc4a860-2872-461a-8061-b30<u>626274615"</u>
   "repository_memberships": [
"scenario_test"
  ],
"_href": "/pulp/api/v2/content/units/erratum/c12277ae-b619-40cc-afbc-75c92e78ca13/",
"issued": "2010-01-01 01:01:01",
"references": [
   ],
"pulp_user_metadata": {
  }'.content_type_id": "erratum",
"id": "RHEA-2010:0001",
"from": "Izap+pub@redhat.com",
"severity": "",
"title": "Empty errata",
"children": {
}
   },
   },
"version": "1",
   "reboot_suggested": false,
"type": "security",
"pkglist": [
  ],
"status": "stable",
"updated": "",
"description": "Empty errata",
"_last_updated": "2017-03-30T21:16:05Z",
"pushcount": "",
   "rights": "",
"solution": ""
  "soummary": "",
"summary": "",
"release": "1",
"_id": "c12277ae-b619-40cc-afbc-75c92e78ca13"
}
```

Request # 9: Fetch package group units for repository

POST /pulp/api/v2/repositories/scenario_test/search/units/

Backend Service: pulp

Description:

Request body





Request # 10: Fetch package group ids for repository

POST /pulp/api/v2/content/units/package_group/search/

Backend Service: pulp

Description: Using the previously fetched ids, we fetch all package groups in the repo.

Request body



```
"repository_memberships": [
    'scenario test
],
"mandatory_package_names": [
"elephant,giraffe,cheetah,lion,monkey,penguin,squirrel,walrus",
"
],
"repo_id": "scenario_test",
"name": "mammal",
"user_visible": true,
"default": true,
" last_updated": "2017-03-30T18:41:08Z",
"children": {
"optional_package_names": [
],
"translated_name": {
},
"_href": "/pulp/api/v2/content/units/package_group/919baa7e-e944-4602-b3ed-3aef2ae5b509/",
"translated_description": {
 "pulp_user_metadata": {
"default_package_names": [
],
"_content_type_id": "package_group",
"id": "919baa7e-e944-4602-b3ed-3aef2ae5b509",
"dsplay_order": 1024,
"conditional_package_names": [
"repository_memberships": [
"scenario_test"
],
"mandatory_package_names": [
"
   "penguin
],
"repo_id": "scenario_test",
"name": "bird",
"user_visible": true,
"default": true,
"_last_updated": "2017-03-30T18:41:08Z",
"Children": {
"optional_package_names": [
"translated_name": {
},
"_href": "/pulp/api/v2/content/units/package_group/c55b5b16-7501-4863-8e3f-f7520bc795fd/",
"translated_description": {
 "pulp_user_metadata": {
"default_package_names": [
],
"_content_type_id": "package_group",
"id": "bird",
"_id": "c55b5b16-7501-4863-8e3f-f7520bc795fd",
"_id": "c55b5b16-7501-4863-8e3f-f7520bc795fd",
"display_order": 1024,
"conditional_package_names": [
```

Request # 11: Request applicability generation for consumers bound to the repository

POST /pulp/api/v2/repositories/actions/content/regenerate_applicability//

Backend Service: pulp

Description:

Request body



Response body



Request # 12: Monitor task group status

GET /pulp/api/v2/task_groups/b0e268a7-f4bf-4598-90a3-5fc3b562cc95/state_summary/

Backend Service: pulp

Description: Monitor status of the applicability generation

Request body

None

Response body



Request # 13: Fetch repository details

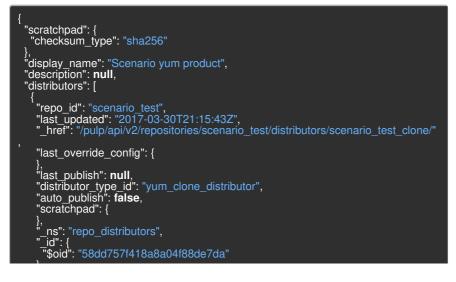
GET /pulp/api/v2/repositories/scenario_test/

Backend Service: pulp

Description: Unclear why

Request body

None



```
.
"destination_distributor_id": "scenario_test"
     },
"id": "scenario_test_clone"
     <sup>1</sup> "repo_id": "scenario_test",
"last_updated": "2017-03-30T21:16:05Z",
"_href": "/pulp/api/v2/repositories/scenario_test/distributors/scenario_test/",
"last_override_config": {
     },
"last_publish": "2017-03-30T21:16:05Z",
"distributor_type_id": "yum_distributor",
"auto_publish": true,
"scratchpad": {
     <sup>1,</sup>_ns": "repo_distributors",
"_id": {
__$oid": "58dd757f418a8a04f88de7d8"
   },
"config": {
"checksum_type": "sha256",
"protected": true,
"http": false,
"https": true,
"relative_url": "scenario_test"
     },
"id": "scenario_test"
     "repo_id": "scenario_test",
"last_updated": "2017-03-30T21:15:43Z",
"_href": "/pulp/api/v2/repositories/scenario_test/distributors/export_distributor/",
"last_override_config": {
      "last_publish": null,
     "distributor_type_id": "export_distributor",
"auto_publish": false,
"scratchpad": {______
         _ns": "repo_distributors",
     __id": {
"_id": {
"$oid": "58dd757f418a8a04f88de7d9"
   },
"config": {
"http": false,
"relative_url": "scenario_test",
"https": false
distributor"
   }
],
"last_unit_added": "2017-03-30T21:16:05Z",
"notes": {
"_repo-type": "rpm-repo"
},
"last_unit_removed": null,
"content_unit_counts": {
"package_group": 2,
"distribution": 1,
"setogory": 1
   "package_category": 1,
   "rpm": 8,
"erratum": 3
},
"_ns": "repos",
"importers": [
    {
"repo_id": "scenario_test",
"last_updated": "2017-03-30T21:15:43Z",
"_href": "/pulp/api/v2/repositories/scenario_test/importers/yum_importer/",
"_ns": "repo_importers",
"importer_type_id": "yum_importer",
"last_override_config": {
    "num_threads": 4,
    "validate": true
}
     },
"last_sync": "2017-03-30T21:16:05Z",
"scratchpad": {
"repomd_revision": 1321893800
    },
"_id": {
"$oid": "58dd757f418a8a04f88de7d7"
   },
"config": {
"feed": "file:///var/www/test_repos/zoo",
"ssl_validation": true,
"remove_missing": true,
"download_policy": "immediate"
     },
"id": "yum_importer"
   }
```

locally stored units": 1



Repository Create

Request # 1: Create Content

POST /candlepin/owners/scenario_test/content/

Backend Service: candlepin

Description: Create Content object for repository, for subscription-manager content access

Request body



Response body



Request # 2: Associate content object

POST /candlepin/owners/scenario_test/products/272869743822/content/1490908543901

Backend Service: candlepin

Description: Add the Content object to the product

Request body

None



Request # 3: Retrieve candlepin environment

GET /candlepin/environments/119c4753ff6d3b7bd0b76de6d5a5f94a

Backend Service: candlepin

Description: Retrieve the environment object (TODO WHY?)

Request body

None

Response body



Request # 4: Create Pulp Repository

POST /pulp/api/v2/repositories/ Backend Service: pulp Description:

Request body

```
{
"id": "scenario_test",
"idisplay_name": "Scenario yum product",
"importer_type_id": "yum_importer",
"importer_config": {
"feed": "file:///var/www/test_repos/zoo",
"ssl_ca_cert": null,
"ssl_client_key": null,
"ssl_validation": true,
"download_policy": "immediate",
"remove_missing": true
},
"notes": {
"_repo-type": "rpm-repo"
},
"distributors": [
{
    distributor_type_id": "yum_distributor",
    "distributor_config": {
        "distributor_config": {
            "relative_url": "scenario_test",
            "https": true,
            "protected": true
},
"auto_publish": true,
"distributor_type_id": "export_distributor",
"distributor_config": {
        "distributor_config": {
            "distributor_type_id": "export_distributor",
        "distributor_config": {
            "distributor_config": {
            "distributor_type_id": "export_distributor",
            "distributor_type_id": "export_distributor",
            "distributor_type_id": "export_distributor",
            "distributor_type_id": "export_distributor",
            "distributor_config": {
            "distributor_config": {
            "distributor_type_id": "scenario_test"
            },
            "distributor_config": {
            "distributor_id": "scenario_test"
            },
            "distributor_type_id": "yum_clone_distributor"
            *,
            "distributor_type_id": "yum_clone_distributor"
            *,
            "distributor_config": {
            "distributor_id": "scenario_test"
            },
            "distributor_config": {
            "distrib
```

Response body



Request # 5: Add Content To environment

POST /candlepin/environments/119c4753ff6d3b7bd0b76de6d5a5f94a/content

Backend Service: candlepin

Description: Associates content object to "Library" environment, so it is accessible by clients registered to Library

Request body

Response body



Request # 6: Fetch repository information

GET /pulp/api/v2/repositories/scenario_test/

Backend Service: pulp

Description:

Request body

None



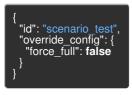
Request # 7: Publish repository metadata

POST /pulp/api/v2/repositories/scenario_test/actions/publish/

Backend Service: pulp

Description: Publish the repository, generating empty metadata so that existing clients of that product do not get a 404.

Request body





Request # 8: Poll Task

GET /pulp/api/v2/tasks/dfdb7cae-e465-4885-b3a4-7bb29343b69e/

Backend Service: pulp

Description: Monitor the task status of the publish

Total Requests for this URL: 6

Request body

None

```
"exception": null,
"task_type": "pulp.server.managers.repo.publish.publish",
"_href": "/pulp/api/v2/tasks/dfdb7cae-e465-4885-b3a4-7bb29343b69e/",
"task_id": "dfdb7cae-e465-4885-b3a4-7bb29343b69e",
"tags": [
"pulp:repository:scenario_test",
"pulp:action:publish"
],
"finish_time": "2017-03-30T21:15:44Z",
"_ns": "task_status",
"start_time": "2017-03-30T21:15:44Z",
"traceback": null,
 "spawned_tasks": [
  "
progress_report": {
"scenario_test": [
    {

"num_success": 1,

"description": "Initializing repo metadata",

"step_type": "initialize_repo_metadata",

"items_total": 1,

"state": "FINISHED",

"error_details": [
          ],
"details": "",
"num_failures": 0,
"step_id": "e3a30d24-1111-4080-92f8-0a3dc979ae9c",
"step_id": "e3a30d24-1111-4080-92f8-0a3dc979ae9c",
"num_processed": 1
         "num_success": 0,
"description": "Publishing Distribution files",
"step_type": "distribution",
"items_total": 0,
"state": "FINISHED",
"error_details": [
          ],
"details": "",
"num_failures": 0,
"step_id": "c2edbc90-716d-4570-a442-bd0c22748f88",
"step_id": "c2edbc90-716d-4570-a442-bd0c22748f88",
"num_processed": 0
         "num_success": 0,
"description": "Publishing RPMs",
"step_type": "rpms",
"items_total": 0,
"state": "FINISHED",
"error_details": [
         ],
"details": "",
"num_failures": 0,
"step_id": "bfea7f15-21d9-4cf0-af2a-5cce0c1c172b",
"step_id": "bfea7f15-21d9-4cf0-af2a-5cce0c1c172b",
"num_processed": 0
```

```
"num success":
     "description": "Publishing Delta RPMs",
"step_type": "drpms",
"items_total": 1,
"state": "SKIPPED",
"error_details": [______
    ],
"details": "",
"num_failures": 0,
"step_id": "47621356-70b3-4e77-a8f2-ee1ec0c5c2ee",
"step_id": "47621356-70b3-4e77-a8f2-ee1ec0c5c2ee",
"num_processed": 0
{
    "num_success": 0,
    "description": "Publishing Errata",
    "step_type": "errata",
    "items_total": 0,
    "state": "FINISHED",
    "error_details": [
    ],
"details": "",
"num_failures": 0,
"step_id": "8e46b5e2-89f5-4ef5-80bd-0d2aab9dd2a0",
"step_id": "8e46b5e2-89f5-4ef5-80bd-0d2aab9dd2a0",
"num_processed": 0
    "num_success": 0,
"description": "Publishing Comps file",
"step_type": "comps",
"items_total": 0,
"state": "FINISHED",
"error_details": [
     ],
"details": "",
"num_failures": 0,
"step_id": "050aba89-abec-4949-b3cf-28409d9519e0",
      "num_processed": 0
    "num_success": 0,
"description": "Publishing Metadata.",
"step_type": "metadata",
"items_total": 0,
"state": "FINISHED",
"error_details": [
   ],
"details": "",
"num_failures": 0,
"step_id": "70efd383-905d-4fe2-8c9b-4e18311e76d5",
"step_id": "70efd383-905d-4fe2-8c9b-4e18311e76d5",
"num_processed": 0
   "num_success": 1,
"description": "Closing repo metadata",
"step_type": "close_repo_metadata",
"items total": 1,
"state": "FINISHED",
"error_details": [
    ],
"details": "",
"num_failures": 0,
"step_id": "e3ae5910-8f8d-4e53-abd6-007a9495e0b4",
"step_id": "e3ae5910-8f8d-4e53-abd6-007a9495e0b4",
"num_processed": 1
    "num_success": 0,
"description": "Generating sqlite files",
"step_type": "generate sqlite",
"items_total": 1,
"state": "SKIPPED",
"error_details": [
    ],
"details": "",
"num_failures": 0,
"step_id": "ae023865-a176-4434-b8ab-77a080306602",
"step_id": "ae023865-a176-4434-b8ab-77a080306602",
"sum_processed": 0
   "num_success": 0,
"description": "Generating HTML files",
"step_type": "repoview",
"items_total": 1,
"state": "SKIPPED",
"error_details": [
     ],
"details": "",
```

```
"num_tallures": 0,
"step_id": "4d7ca329-7b33-478e-a0a5-777771d8c7c6",
              "num_processed": 0
           "num_success": 1,
"description": "Publishing files to web",
"step_type": "publish_directory",
"items_total": 1,
"state": "FINISHED",
"error_details": [
           ],
"details": "",
"num_failures": 0,
"step_id": "0989644f-85dc-43ff-9e0f-10c814a8d5e8",
"step_id": "0989644f-85dc-43ff-9e0f-10c814a8d5e8",
"step_id": 1
          "num_success": 1,
"description": "Writing Listings File",
"step_type": "initialize_repo_metadata",
"items_total": 1,
"state": "FINISHED",
"error_details": [
            ],
"details": ""
            "num_failures": 0,
"step_id": "04b588ee-11fe-4b09-8a42-2ea465247c0b",
"step_id": "04b588ee-11fe-4b09-8a42-2ea465247c0b",
             "num_processed": 1
         }
     1

},
"queue": "reserved_resource_worker-1@dev.example.com.dq",
"state": "finished",
"worker_name": "reserved_resource_worker-1@dev.example.com",
"result": "success",
"exception": null,
"repo_id": "scenario_test",
"started": "2017-03-30T21:15:44Z",
"_ns": "repo_publish_results",
"completed": "2017-03-30T21:15:44Z",
"traceback": null,
"distributor type_id": "yum_distributor",
"summary": {
    "generate sqlite": "SKIPPED",
}

       "summary": {

"generate sqlite": "SKIPPED",

"initialize_repo_metadata": "FINISHED",

"roms": "FINISHED",

"close_repo_metadata": "FINISHED",

"drpms": "SKIPPED",

"comps": "FINISHED",

"distribution": "FINISHED",

"repoview": "SKIPPED",

"publish_directory": "FINISHED",

"errata": "FINISHED",

"metadata": "FINISHED"
    },
"error_message": null,
"distributor_id": "scenario_test",
"id": "58dd7580418a8a0648b9bc40",
"details": [
      {

"num_success": 1,

"description": "Initializing repo metadata",

"step_type": "initialize_repo_metadata",

"items_total": 1,

"state": "FINISHED",

"error_details": [
           ],
"details": "",
"num_failures": 0,
"step_id": "e3a30d24-1111-4080-92f8-0a3dc979ae9c",
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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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