

**RED HAT  
SUMMIT**

# 10 MORE THINGS YOU DIDN'T KNOW ABOUT SATELLITE 6

Maxim Burgerhout  
Principal Solution Architect

Wednesday May 8th, 2019

EXPERIENCE AND

# About Me



Maxim Burgerhout

Principal Solution Architect

 maxim@redhat.com

 @MaximBurgerhout

Red Hat

Talker about things - predominantly Red Hat things.

YouTube: [100 Things to do with Red Hat Management Products](#)

You're right. That's a long name. But...

# FOREMAN ANSIBLE MODULES

# SATELLITE CONFIGURATION

- Setting up a whole new Satellite, or configuring parts of it (like creating new types of hosts, with new content) can be a lot of work
- You need to
  - Set up repositories
  - Create, publish and promote content views
  - Create activation keys
  - Create host groups
  - And various other things
- The rewards you reap from this, are plentiful: you can automatically create, provision, patch and manage any systems in your infrastructure

# AUTOMATED SATELLITE CONFIGURATION

- But wouldn't it be great, nay *awesome* if we could make the part where we prepare for all the cool stuff be a bit more ...

**Automated**, maybe?

<https://github.com/theforeman/foreman-ansible-modules>

<https://pastebin.com/9c41UCik>

# CHOOSE YOUR OWN ADVENTURE

- Puppet's clientbucket
- Ansible in Satellite

# ANSIBLE IN SATELLITE

# Playing Ansible roles

- Add roles at the host or hostgroup level
- Set up a recurring job to keep your systems in check
- Here's how to schedule a recurring job

Job category \*

Job template \*

Bookmark

Search Query

Resolves to 3 hosts

[> Display advanced fields](#)

Schedule  Execute now  Schedule future execution  Set up recurring execution

Repeats

At

Repeat N times

Ends  Never  On

# Playing Ansible roles

- Add roles at the host or hostgroup level
- Set up a recurring job to keep your systems in check
- Here's how to schedule a recurring job
- By default, for playing the Ansible roles assigned to a host group, Satellite uses the 'Ansible Roles - Ansible Default' job template
- Let's look at customizing that!

## Remote Execution Features

Label	Name	Description
<a href="#">katello_errata_install</a>	Katello: Install Errata	Install errata via Katello interface
<a href="#">katello_group_install</a>	Katello: Install Package Group	Install package group via Katello interface
<a href="#">katello_package_install</a>	Katello: Install Package	Install package via Katello interface
<a href="#">katello_group_remove</a>	Katello: Remove Package Group	Remove package group via Katello interface
<a href="#">katello_package_remove</a>	Katello: Remove Package	Remove package via Katello interface
<a href="#">katello_group_update</a>	Katello: Update Package Group	Update package group via Katello interface
<a href="#">katello_package_update</a>	Katello: Update Package	Update package via Katello interface
<a href="#">katello_service_restart</a>	Katello: Service Restart	Restart Services via Katello interface
<a href="#">foreman_openscap_run_scans</a>	Run OpenSCAP scan	Run OpenSCAP scan
<a href="#">ansible_run_host</a>	Ansible: Run host roles	Runs an Ansible playbook which contains all the roles defined for a host
<a href="#">ansible_run_insights_plan</a>	Ansible: Run Insights maintenance plan	Runs a given maintenance plan from Red Hat Access Insights given an ID.

Name \* Ansible: Run host roles

Label \* ansible\_run\_host

Description Runs an Ansible playbook which contains all the roles defined for a host

Provided Inputs

Job Template

Ansible Roles - Ansible Default ✕ ▲

  

- Ansible Roles - Ansible Default
- Ansible Roles - Install from Galaxy
- Ansible Roles - Install from git
- Ansible - Run insights maintenance plan
- Atomic rootfs resize
- Fix katello-ca-consumer bundle (clients of sat6cast)
- Fix Satellite certificate and setup new Satellite tools



Template

Job

Type

History

Locations

Organizations

Help

Name \*

Ansible Roles - Ansible Default

Template

Input

```
- hosts: all
  vars:
    ntp_servers:
      - sat6cast.deployment6.lan
  tasks:
    - name: Display all parameters known for the Foreman host
      debug:
        var: foreman_params
  roles:
    <%- if @host.all_ansible_roles.present? -%>
    <%= @host.all_ansible_roles.map { |role| " - #{role.name.strip}" }.join("\n") %>
    <%- end -%>
```

Audit Comment

The Audit Comment field is saved with the template auditing to document the template changes

# PUPPET CLIENTBUCKET

# Puppet's clientbucket

Because oops...

- Every now and then, you or your customer will overwrite \$IMPORTANT\_FILE with Puppet
- For example, the Satellite installer will overwrite any custom `/etc/dhcp/dhcpd.conf`
- Luckily, it's relatively easy to get those files back, because Puppet stores backups locally in the 'clientbucket'.

# Puppet's clientbucket

Because oops...

- Check the logs for something like

```
/Stage[main]/Dhcp/File[/etc/dhcp/dhcpd.conf]: Filebucketed  
/etc/dhcp/dhcpd.conf to puppet with sum 622d9820b8e764ab124367c68f5fa3a1
```

- Grab that md5sum, and use it like this

```
puppet filebucket restore --local --bucket /var/lib/puppet/clientbucket  
/etc/dhcp/dhcpd.conf 622d9820b8e764ab124367c68f5fa3a1
```

- And voila, your file is back!

- Or, if you're lazy, like me, use an interactive command-line tool to do the work for you.

Download here: <https://github.com/wzzrd/puppet-clientbucket-restore>

# clientbucket.rb

```
# ./clientbucket.rb /etc/ntp.conf
[0]: 913c85f0fde85f83c2d6c030ecf259e9 2017-08-29 10:24:51 +0000
[1]: c1d0e073779a9102773754cf972486be 2017-08-29 12:45:16 +0000
-----
Pick a file, or x to exit: 1
Restore (r), view (v), diff (d), unified diff (u), or x to go back: u
---
/var/lib/puppet/clientbucket/c/1/d/0/e/0/7/3/c1d0e073779a9102773754cf972486be/con
tents      2017-08-29

[... diff output ...]

Restore (r), view (v), diff (d), unified diff (u), or x to go back: r
Restore to (default is to restore to /etc/ntp.conf): y
Restoring to y
Done
```

# CONTENT VIEW FILTER ORDERING

# Content view filters and ordering

- There are three ways to influence what content is added to a content view:
  - Add no filters
  - Add only include or only exclude filters
  - Add both include and exclude filters
- If you add no filters at all, when you publish a new version of the content view
  - All content available at that time are added to the new version of the CV

# Content view filters and ordering

- When you add an include filter
  - All content is excluded, except for the included content
  - You can keep adding include filters until you reach the desired goal
- When you add an exclude filter
  - All content is included, except for the excluded content
  - You can keep adding exclude filters until you reach the desired goal
- If you use both include *and* exclude filters, the include filters take *precedence*

# Content view filters and ordering

- What does that mean!?
- That means that if you use include and exclude filters both
  - All content will be first excluded (because we use include filters, which go first)
  - And only explicitly included content will be added to the content view
  - Only after that will the exclude filters exclude packages from the resulting CV

# Content view filters and ordering

<input type="checkbox"/>	Name	Description	Updated	Content Type	Inclusion Type
<input type="checkbox"/>	<a href="#">Add all errata until February 1st, 2019</a>		2019-05-05 21:37:42 -0400	Errata - Date and Type	Include
<input type="checkbox"/>	<a href="#">Add all packages without errata</a>		2019-05-05 21:37:06 -0400	RPM	Include

20 per page Showing 1 - 2 of 2

Version	Status	Environments	Content	Description	Actions
<a href="#">Version 1.0</a>	Published (2019-05-05 21:38:14 -0400)	Library	52261 Packages 3907 Errata ( 773  2413  721  )	Add all errata until Feb 1, 2019	<a href="#">Promote</a> 

20 per page Showing 1 - 1 of 1

# Content view filters and ordering

<input type="checkbox"/>	Name	Description	Updated	Content Type	Inclusion Type
<input type="checkbox"/>	<a href="#">Add all errata until February 1st, 2019</a>		2019-05-05 21:37:42 -0400	Errata - Date and Type	Include
<input type="checkbox"/>	<a href="#">Add all packages without errata</a>		2019-05-05 21:37:06 -0400	RPM	Include
<input type="checkbox"/>	<a href="#">Exclude grub erratum</a>	Exclude RHBA-2019:0171	2019-05-05 21:44:47 -0400	Errata	Exclude

20 per page Showing 1 - 3 of 3 << < 1 of 1 > >>

Version	Status	Environments	Content	Description	Actions
<a href="#">Version 2.0</a>	Published (2019-05-05 21:48:47 -0400)	Library	52244 Packages 3906 Errata ( 773  2412  721  )	Exclude RHBA-2019:0171	<a href="#">Promote</a> 
<a href="#">Version 1.0</a>	Published (2019-05-05 21:38:14 -0400)		52261 Packages 3907 Errata ( 773  2413  721  )	Add all errata until Feb 1, 2019	<a href="#">Promote</a> 

20 per page Showing 1 - 2 of 2 << < 1 of 1 > >>

# Content view filters and ordering

<input type="checkbox"/>	Name	Description	Updated	Content Type	Inclusion Type
<input type="checkbox"/>	<a href="#">Exclude all errata after Feb 1st, 2019</a>		2019-05-05 22:03:37 -0400	Errata - Date and Type	Exclude

20 per page Showing 1 - 1 of 1 « < 1 of 1 > »

Version	Status	Environments	Content	Description	Actions
<a href="#">Version 1.0</a>	Published (2019-05-05 22:03:54 -0400)	Library	52261 Packages 3907 Errata ( 773  2413  721  )	Exclude all errata after Feb 1st, 2019	<a href="#">Promote</a> 

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# Content view filters and ordering

<input type="checkbox"/>	Name	Description	Updated	Content Type	Inclusion Type
<input type="checkbox"/>	<a href="#">Add the important OpenJDK erratum</a>	RHSA-2019:0775	2019-05-05 22:15:24 -0400	Errata	Include
<input type="checkbox"/>	<a href="#">Exclude all errata after Feb 1st, 2019</a>		2019-05-05 22:03:37 -0400	Errata - Date and Type	Exclude

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**INCLUDE FILTERS ARE EVALUATED FIRST!**

Version	Status	Environments	Content	Description	Actions
<a href="#">Version 2.0</a>	Published (2019-05-05 22:17:55 -0400)	Library		Add the OpenJDK erratum	<a href="#">Promote</a> <span>▼</span>
<a href="#">Version 1.0</a>	Published (2019-05-05 22:03:54 -0400)		52261 Packages 3907 Errata ( 773 <span>▲</span> 2413 <span>✖</span> 721 <span>+</span> )	Exclude all errata after Feb 1st, 2019	<a href="#">Promote</a> <span>▼</span>

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# ACTIVATION KEYS & AUTO-ATTACH

# Activation keys and auto-attach

- A common source of confusion
- Define what subscriptions and repositories should be attached to a machine at registration time
- **They have no role whatsoever after registration!**
- If you need to use multiple activation keys for a host group, the ones on the right override the ones on the left!
- So, when do I need to use multiple activation keys, eh?

# Activation keys and auto-attach

- Three scenarios
  - Attach all subscriptions from a predefined list
  - Automatically attach subscriptions for installed products
  - Automatically attach the VDC subscription for the right hypervisor
- Bonus scenario
  - Attach the right VDC subscription and enable a third party repo along the way

## ak-test-rhel-all-selected

Select Action [Activation Keys](#) » [ak-test-rhel-all-selected](#) » List SubscriptionsDetails **Subscriptions** Repository Sets Host Collections Associations 

## Activation Key Type:

Auto-Attach  No  When Auto Attach is disabled, registering systems will be attached to all associated subscriptions.[List/Remove](#) Add

Filter...

Search 

Remove Selected

0 of 1 Selected

<input type="checkbox"/>	Quantity	Attached	Type	Starts	Expires	Support Level	Contract	Account
<b>Red Hat OpenStack Platform, Premium (2-sockets)</b>								
<input type="checkbox"/>	Automatic 	0 out of 30	Physical	2017-05-27 04:00:00 UTC	2018-05-27 03:59:59 UTC	Premium	11280169	5770220

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Showing 1 - 1 of 1



1

of 1



# ak-test-rhel-pick-the-right-one

Select Action

Activation Keys » ak-test-rhel-pick-the-right-one » List Subscriptions

✔ Activation Key updated

Details Subscriptions Repository Sets Host Collections Associations

Activation Key Type:

Auto-Attach Yes

When Auto Attach is enabled, registering systems will be attached to all associated custom products and only associated Red Hat subscriptions required to satisfy the system's installed products.

List/Remove Add

Filter... Search

Remove Selected

0 of 2 Selected

<input type="checkbox"/>	Quantity	Attached	Type	Starts	Expires	Support Level	Contract	Account
<b>Red Hat OpenStack Platform, Premium (2-sockets)</b>								
<input type="checkbox"/>	Automatic	0 out of 30	Physical	2017-05-27 04:00:00 UTC	2018-05-27 03:59:59 UTC	Premium	11280169	5770220
<b>Red Hat Enterprise Linux with Smart Virtualization and Management, Standard (2-sockets)</b>								
<input type="checkbox"/>	Automatic	0 out of 30	Physical	2017-05-27 04:00:00 UTC	2018-05-27 03:59:59 UTC	Standard	11280170	5770220

20 per page

Showing 1 - 2 of 2

## ak-test-rhel-vdc

Select Action [Activation Keys](#) » [ak-test-rhel-vdc](#) » [Add Subscriptions](#)Details **Subscriptions** Repository Sets Host Collections Associations 

## Activation Key Type:

Auto-Attach Yes  When Auto Attach is enabled, registering systems will be attached to all associated custom products and only associated Red Hat subscriptions required to satisfy the system's installed products.List/Remove [Add](#)

product\_id = RH00001

 Search 

Add Selected

0 of 2 Selected

<input type="checkbox"/>	Quantity	Attached	Type	Starts	Expires	Support Level	Contract	Account
<b>Red Hat Enterprise Linux for Virtual Datacenters, Premium</b>								
<input type="checkbox"/>	Automatic 	1 out of 30	Physical	2017-05-27 04:00:00 UTC	2018-05-27 03:59:59 UTC	Premium	11280164	5770220
<input type="checkbox"/>	1	0 out of Unlimited	Guests of virt-who-shogun.thuisnet.lan-1	2017-05-27 04:00:00 UTC	2018-05-27 03:59:59 UTC	Premium	11280164	5770220

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  1 of 1  

## ak-test-rhel-vdc

Select Action ▾

[Activation Keys](#) » [ak-test-rhel-vdc](#) » List Subscriptions

Details

**Subscriptions**

Repository Sets

Host Collections

Associations ▾

## Activation Key Type:

Auto-Attach Yes 

ⓘ When Auto Attach is enabled, registering systems will be attached to all associated custom products and only associated Red Hat subscriptions required to satisfy the system's installed products.

[List/Remove](#) Add

Filter...

Search ▾

Remove Selected

0 of 0 Selected

<input type="checkbox"/>	Quantity	Attached	Type	Starts	Expires	Support Level	Contract	Account
--------------------------	----------	----------	------	--------	---------	---------------	----------	---------

You currently don't have any Subscriptions associated with this Activation Key, you can add Subscriptions after selecting the 'Add' tab.

# New Host Group

Host Group

Puppet Classes

Network

Operating System

Parameters

Locations

Organizations

Activation Keys

Activation keys

comma separated values. The value will be available in templates as  
`@host.params['kt_activation_keys']`

## Subscriptions information based on selected activation keys:

Activation keys and subscriptions can be managed [here](#)

<http://satellite6.deployment6.lan/pub/katello-ca-consumer-latest.noarch.rpm>

[Reload data](#)

# CHOOSE YOUR OWN ADVENTURE

- Multi-life cycle env promotion
- Automatic user provisioning

# MULTI-LIFECYCLE ENV PROMOTION

# Have you ever been in this situation?

- You have created a new version of a content view, and for some reason, you need that version deployed to all of your life cycle environments

# One step at a time?

The screenshot shows the Red Hat Satellite web interface. The top navigation bar includes the Red Hat Satellite logo, the current environment 'Red\_Hat', and the location 'Any Location'. The user is logged in as 'Admin User'. The left sidebar contains navigation options: Monitor, Content, Containers, Hosts, Configure, Infrastructure, Insights, and Administer. The main content area displays the 'Promote Version 5.0' dialog for the content view 'CCV\_RHEL6\_GENERIC'. The dialog includes a breadcrumb trail 'Content Views > CCV\_RHEL6\_GENERIC > Promotion', tabs for 'Details', 'Versions', 'Content Views', 'History', and 'Tasks', and a 'Publish New Version' button. The main instruction is 'Choose a lifecycle environment from the available promotion paths.' Below this, a note states '★ Starred environments are suggested for promotion.' A horizontal promotion path is shown with four stages: 'Library' (with a star icon and an unchecked checkbox), 'Development' (with a checked checkbox and a dark blue background), 'QA' (with an unchecked checkbox), and 'Production' (with an unchecked checkbox). A 'Description' field is present below the path but is empty. At the bottom of the dialog are 'Promote Version' and 'Cancel' buttons.

# Have you ever been in this situation

- You have created a new version of a content view, and for some reason, you need that version deployed to all of your life cycle environments
- You could hammer your way out. You could use `katello-cvmanager` (which is awesome).
- Or, you could use the Ansible modules I mentioned before!

```
- name: Promote version my_ccv to all life cycle environments
katello_content_view_version:
  username: admin
  password: "{{ satellite_admin_password }}"
  server_url: "https://{{ my_satellite_url }}"
  verify_ssl: false
  organization: "{{ satellite_org }}"
  content_view: "{{ ccv_name }}"
  version: "{{ ccv_version }}"
  lifecycle_environments:
    - Development
    - QA
    - Production
delegate_to: localhost
```

<https://pastebin.com/RwUBkPZW>

# Making ALL THE STEPS!

Red Hat Satellite Red\_Hat Any Location

CCV\_RHEL7\_GENERIC Publish New Version Select All

Content Views » CCV\_RHEL7\_GENERIC » Versions

Details Versions Content Views History Tasks

Filter... Search

Version	Status	Environments	Content	Description	Actions
<a href="#">Version 8.0</a>	<div style="width: 100%; height: 10px; background-color: green; background-image: linear-gradient(to right, transparent 49%, #333 49%, #333 51%, transparent 51%);"></div> Promoting to 3 environments.	Library Development QA Production	51892 Packages 3950 Errata ( 671 <span>▲</span> 2613 <span>✳</span> 666 <span>+</span> ) 29 Puppet Modules		<span>Promote</span> <span>▼</span>
<a href="#">Version 7.0</a>	Promoted to Production (2019-04-12 16:50:18 +0200)		51565 Packages 3927 Errata ( 665 <span>▲</span> 2596 <span>✳</span> 666 <span>+</span> ) 29 Puppet Modules		<span>Promote</span> <span>▼</span>
<a href="#">Version 6.0</a>	Promoted to Production (2019-03-20 11:47:58 +0100)		51511 Packages 4135 Errata ( 698 <span>▲</span> 2747 <span>✳</span> 690 <span>+</span> ) 29 Puppet Modules		<span>Promote</span> <span>▼</span>

# AUTOMATIC USER CREATION

# Distributing SSH keys for users

- Satellite ships with a `create_users` snippet
- Include it in your kickstart template, and it will automatically:
  - Create local users based on who owns the system in Satellite
    - Can be a usergroup, can be a single user
  - Install the SSH keys users can set up for themselves in Satellite
- IdM membership is obviously more versatile, but for short lived systems for e.g. testing purposes, this is great!

# Distributing SSH keys for users

- Towards the end of your provisioning template, add

```
<%= snippet('create_users') %>
```

- This will create local users on the new machine for all members of the group that owns the system, complete with SSH keys :)

# Distributing SSH keys for users

Users > Edit Other Admin 

User Email Preferences Locations Organizations Roles **SSH Keys**

Name	Fingerprint	Length	Created	Actions
otheradmin's key	15:25:c1:18:f7:8c:87:3b:de:10:38:2f:51:bb:bf:43	2048	less than a minute ago	<a href="#">Delete</a>

[Add SSH Key](#)

User Group

Roles

External Groups

Only Internal (non-LDAP) users can be added manually. LDAP users are automatically synced from the External Groups list. To refresh the list of users, click on the tab "External groups" then "Refresh".

Name \* Desktop Admins

User Groups

All Items  +

- Desktop Admins
- OpenShift Admins
- Red Hat Organization Admins

Selected Items -



Users

All Items  +

- Admin User (admin)

Selected Items -

- Maxim Burgerhout (maxim)
- Sterling Archer (archer)



Submit Cancel

# MOVING SYSTEMS TO OTHER CAPSULE

# MOVING A SYSTEM TO ANOTHER CAPSULE

- Ever wanted to move a system to another Capsule?
  - You can unregister and register, but you'll lose the history of the system,
  - Or you can take the following steps (manually), and keep the history
    - Replace CA certificates
    - Reinstall katello-agent
    - Reconfigure all the proxy\_id parameters on the Satellite side
    - Reconfigure Puppet
    - Restart Puppet
  - Or do this all automated. [Like so.](#)

# CUSTOMIZING INSIGHTS

# RED HAT INSIGHTS

Who has access to Red Hat Insights already?

ALL OF YOU!

What is sent to the Insights portal, is a slimmed down version of an sosreport

# RED HAT INSIGHTS

If you want to know exactly what goes into one of those slimmed down sosreports, you can generate - but not upload - a sample Insights report, by running:

```
$ sudo insights-client --no-upload
```

As the result is simply a tarball, we can then inspect it with our normal tools.

# RED HAT INSIGHTS

Let's assume we do not want send ssh\_config or sshd\_config file to the Insights portal

You can fairly easily customize what goes into the sosreport, and what is skipped over.

**NOTE: I do *\*not\** recommend this. Insights could be very helpful in *preventing* (security) issues with sshd\_config. Do not do this if you do not *really* have to!**

Nevertheless, if you *really, really* want to, this is how you do it.

[DEMO](#) | [BLOG WITH MORE INFO](#)

# CHOOSE YOUR OWN ADVENTURE

- Performance tuning
- Job / provisioning templates in Git

# PERFORMANCE TUNING

# Speeding up / shrinking MongoDB

- The size of the MongoDB in Satellite can grow to a tremendous size
- This does not help for Satellite being any faster
- You can fix (part of) this by repairing the MongoDB, which also prunes empty records

```
sudo -u mongodbg mongod --dbpath /var/lib/mongodbg --repair
```

- My database went from 14GiB to 9GiB
- Measurements at customer sites indicate a potential significant performance increase!
- See: <https://access.redhat.com/solutions/3052771>

# Speeding up / shrinking MongoDB

- Due to the fact that MongoDB (and databases in general) have sparser rather than contiguous memory access patterns, it's best to turn transparent huge pages *off*.
- Create a custom little tuned profile, which disables THP
  - I'll call mine myprofile-nothp
- Run 'tuned-adm profile myprofile-nothp' to execute and make permanent
- <https://access.redhat.com/solutions/1320153>

# Speeding up / shrinking MongoDB

```
$ cat /etc/tuned/myprofile-nothp/tuned.conf
[main]
summary=My custom tuned profile for Satellite 6
include=virtual-guest

[vm]
transparent_hugepages=never
```

[Performance Tuning for Satellite 6.4](#)

# JOB TEMPLATES IN GIT

# Job templates in git

## Settings

 [Documentation](#)

General   Ansible   Authentication   Boot disk   Content   Discovered   Email   ForemanTasks   Notifications   Provisioning   Puppet   RemoteExecution   **TemplateSync**

Name	Value	Description
Negate	No <input type="checkbox"/>	Negate the prefix (for purging) / filter (for importing/exporting)
Verbosity	No <input type="checkbox"/>	Choose verbosity for Rake task importing templates
Prefix	Empty <input type="checkbox"/>	The string all imported templates should begin with
Repo	ssh://gogs@pifour.lan/satellite/templates.git <input type="checkbox"/>	Target path to import and export. Different protocols can be used, e.g. /tmp/dir, git://example.com, https://example.com, ssh://example.com
Filter	Empty <input type="checkbox"/>	Import or export names matching this regex (case-insensitive; snippets are not filtered)
Dirname	/ <input type="checkbox"/>	The directory within the Git repo containing the templates
Force import	Yes <input type="checkbox"/>	Should importing overwrite locked templates?
Metadata export mode	Refresh <input type="checkbox"/>	Default metadata export mode, refresh re-renders metadata, keep will keep existing metadata, remove exports template without metadata
Lock templates	Yes <input type="checkbox"/>	Should importing lock templates?
Branch	local <input type="checkbox"/>	Default branch in Git repo
Associate	New <input type="checkbox"/>	Associate templates to OS, organization and location

# Job templates in git

```
foreman-rake templates:export
```

# Job templates in git

```
foreman-rake templates:import
```

# Provisioning Templates

Filter ...

[Create Template](#)

[Build PXE Default](#)

[Documentation](#)

Name	Host Group / Environment	Kind	Snippet	Locked	Actions
00 FIXED Kickstart default clone		Provisioning template			<a href="#">Clone</a> <input type="button" value="v"/>
ansible_provisioning_callback			<input checked="" type="checkbox"/>		<a href="#">Clone</a> <input type="button" value="v"/>
ansible_tower_callback_script			<input checked="" type="checkbox"/>		<a href="#">Clone</a> <input type="button" value="v"/>
ansible_tower_callback_service			<input checked="" type="checkbox"/>		<a href="#">Clone</a> <input type="button" value="v"/>
Atomic Kickstart default		Provisioning template			<a href="#">Clone</a> <input type="button" value="v"/>
blacklist_kernel_modules			<input checked="" type="checkbox"/>		<a href="#">Clone</a> <input type="button" value="v"/>
bmc_nic_setup			<input checked="" type="checkbox"/>		<a href="#">Clone</a> <input type="button" value="v"/>
Boot disk IPXE - generic host		Boot disk embedded template			<a href="#">Clone</a> <input type="button" value="v"/>
Boot disk IPXE - host		Boot disk embedded template			<a href="#">Clone</a> <input type="button" value="v"/>
built			<input checked="" type="checkbox"/>		<a href="#">Clone</a> <input type="button" value="v"/>
coreos_cloudconfig			<input checked="" type="checkbox"/>		<a href="#">Clone</a> <input type="button" value="v"/>
CoreOS provision		Provisioning template			<a href="#">Clone</a> <input type="button" value="v"/>
CoreOS PXELinux		PXELinux template			<a href="#">Clone</a> <input type="button" value="v"/>
create_users			<input checked="" type="checkbox"/>		<a href="#">Clone</a> <input type="button" value="v"/>
Discovery Red Hat kexec		Discovery Kexec template			<a href="#">Clone</a> <input type="button" value="v"/>
epel			<input checked="" type="checkbox"/>		<a href="#">Clone</a> <input type="button" value="v"/>
fix_hosts			<input checked="" type="checkbox"/>		<a href="#">Clone</a> <input type="button" value="v"/>
freeipa_register			<input checked="" type="checkbox"/>		<a href="#">Clone</a> <input type="button" value="v"/>
Grubby default		Script template			<a href="#">Clone</a> <input type="button" value="v"/>
http_proxy			<input checked="" type="checkbox"/>		<a href="#">Clone</a> <input type="button" value="v"/>

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# REPORTING FTW

# SATELLITE REPORTING

- Satellite 6.5 will introduce proper reporting
- Click a button, or run a command and get a CSV file
  
- We ship four examples, to report on:
  - Applicable errata
  - Host statuses
  - Registered hosts
  - Subscriptions



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Containers >

Hosts >

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Infrastructure >

## Report Templates

Create Template

Documentation

Name	Snippet	Locked	Actions
<a href="#">Applicable errata</a>			<a href="#">Generate</a> ▾
<a href="#">Host statuses CSV</a>			<a href="#">Generate</a> ▾
<a href="#">Registered hosts</a>			<a href="#">Generate</a> ▾
<a href="#">Subscriptions</a>			<a href="#">Generate</a> ▾

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# SATELLITE REPORTING: SUBSCRIPTIONS

```
ID,Name,Available,Quantity,SKU,Contract number
1,"Red Hat Enterprise Linux Server, Premium",19,300,RH00003,XXXXXXXX
2,"Red Hat Cloud Suite (2-sockets), Premium",2,25,RH00594,XXXXXXXX
3,"Red Hat Virtualization (2-sockets), Premium",3,20,RV0213787,XXXXXXXX
```

# SATELLITE REPORTING: HOST STATUS

```
Name,Global,Addons,Build,Compliance,Configuration,Errata,Execution,Role,  
Service Level,Subscription,System Purpose,Traces,Usage
```

```
keri-escatel.deployment6.lan,0,3,1,0,16777216,0,0,3,0,0,0,0,3
```

# SATELLITE REPORTING: HOST STATUS

Global status:

0: ok

1: warn

2: error

Name, **Global**, Addons, Build, Compliance, Configuration, Errata, Execution, Role,  
Service Level, Subscription, System Purpose, Traces, Usage

keri-escatel.deployment6.lan, **0**, 3, 1, 0, 16777216, 0, 0, 3, 0, 0, 0, 0, 3

# SATELLITE REPORTING: HOST STATUS

Build status:

0: built

1: pending

2: token expired

3: failed

Name,Global,Addons,Build,Compliance,Configuration,Errata,Execution,Role,  
Service Level,Subscription,System Purpose,Traces,Usage

keri-escatel.deployment6.lan,0,3,1,0,16777216,0,0,3,0,0,0,0,3

# SATELLITE REPORTING:

Errata status:

0: Up to date

1: Unknown

2: Need errata

3: Need security errata

Name,Global,Addons,Build,Compliance,Configuration,Errata,Execution,Role,  
Service Level,Subscription,System Purpose,Traces,Usage

keri-escatel.deployment6.lan,0,3,1,0,16777216,0,0,3,0,0,0,0,3

The docs, for now, are at: <http://bit.ly/report-docs>

Poll: <http://etc.ch/XnfM>

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