



# Satellite 6.2 Beta

Sebastian Hetze

Sr. Solution Architect, Red Hat

17.05.2016

# Satellite 6.2 Beta

- Verfügbar seit 28.4., geplant für 6 Wochen bis 15.6.
- 90 Tage Eval: 2x Satellite Server, 5x Capsule
- Berechtigt sind alle Kunden, Self Service nur mit aktiver Satellite Subscription
- Get It:  
<https://access.redhat.com/products/red-hat-satellite/beta>
- FAQ:  
<https://access.redhat.com/articles/1475583>



# Neue Features

- Remote Execution
- Parameter und Variablen
- Capsule Status
- Download Policy
- “Inter Satellite Sync”
- Atomic Host & Docker v2 API



# Remote Execution

- SSH basierter Zugriff
- SSH Key Verteilung per Kickstart Snippet oder manuell (ssh-copy-id / curl / puppet)
- foreman-proxy User
- Templates für verschiedene Typen von Jobs
- Flexibler Scheduler
- Flexible Auswahl von Hosts (Group, Check, Query)
- Goferd existiert noch



## Job invocations

Filter ...  Search [Documentation](#) [Run Job](#)

Description	Status	Succeeded	Failed	Pending	Total hosts	Start
<a href="#">Run yum-config-manager --disable lunetix_lunetix_sat6-tools</a>	failed	0	2	0	2	1 minute ago
<a href="#">Run yum-config-manager --disable lunetix_lunetix_sat6-tools</a>	failed	0	2	0	2	2 minutes ago

Displaying **all 2** entries

# Job invocation

Job category \*

Job template \*

Bookmark

Search query

Refresh

Resolves to 3 hosts  

command \*

Command to run on the host

> [Display advanced fields](#)

Schedule  Execute now  Schedule future execution  Set up recurring execution

Start at

Start before

[Explanation](#)



Resolves to 3 hosts  

command \*

```
yum-config-manager --disable LunetIX_LunetIX_sat6-tools
```

Command to run on the host

▼ Hide advanced fields

Effective user

A user to be used for executing the script. If it differs from the

Description

```
Run yum-config-manager --disable LunetIX_LunetIX_sat6-tools
```

 Use default description template

Concurrency level

Run at most N tasks at a time

Time span

Distribute execution over N seconds

Type of query

 Static Query  Dynamic Query [Explanation](#)

Schedule

 Execute now  Schedule future execution  Set up recurring execution

Repeats

At

Repeat N times

Ends

 Never  On

Cancel

Submit



# Run yum-config-manager --disable LunetIX\_LunetIX\_sat6-tools

Refresh

Rerun

Rerun failed

Job Task

Cancel Job

Overview

Hosts

## Target hosts

Manual selection using Static Query

```
name = test-host.lunetix.org or name = test-host2.lunetix.org
```

Evaluated at: 2016-05-09 12:33:25 +0200

Total hosts

2

## Providers and templates

**Run Command - SSH Default** through SSH

Preview for target test-host.lunetix.org

```
yum-config-manager --disable LunetIX_LunetIX_sat6-tools
```

following user inputs were provided

- **command:** yum-config-manager --disable LunetIX\_LunetIX\_sat6-tools

**Effective user:** root

running 0%

100%

Pending





# Job Templates

Filter ... ×  Search ▾

[Documentation](#) [New Job Template](#)

Name	Snippet	Locked	Actions
<a href="#">Install Errata - Katello SSH ...</a>			Run ▾
<a href="#">Install Group - Katello SSH D...</a>			Run ▾
<a href="#">Install Package - Katello SSH...</a>			Run ▾
<a href="#">Package Action - SSH Default</a>			Run ▾
<a href="#">Power Action - SSH Default</a>			Run ▾
<a href="#">Puppet Run Once - SSH Default</a>			Run ▾
<a href="#">Remove Group - Katello SSH De...</a>			Run ▾
<a href="#">Remove Package - Katello SSH ...</a>			Run ▾
<a href="#">Run Command - SSH Default</a>			Run ▾
<a href="#">Service Action - SSH Default</a>			Run ▾
<a href="#">Update Group - Katello SSH De...</a>			Run ▾
<a href="#">Update Package - Katello SSH ...</a>			Run ▾

Displaying **all 12** entries



# Job Templates

Filter ... x Q Search v

Name
Install Errata - Katello SSH ...
Install Group - Katello SSH D...
Install Package - Katello SSH...
Package Action - SSH Default
Power Action - SSH Default
Puppet Run Once - SSH Default
Remove Group - Katello SSH De...
Remove Package - Katello SSH ...
Run Command - SSH Default
<b>Service Action - SSH Default</b>
Update Group - Katello SSH De...
Update Package - Katello SSH ...

Template Job Type History Locations Organizations

Name \* Service Action - SSH Default

Default   
Default templates are automatically added to new organizations and locations

## Template editor

Input Diff Preview ↗ ruby Default

```
<% if @host.operatingsystem.family == "Redhat" && @host.operatingsystem.major.to_i > 6 %>
systemctl <%= input("action") %> <%= input("service") %>
<% else %>
service <%= input("service") %> <%= input("action") %>
<% end -%>
```



# Parameter und Variablen

- Smart Class Parameter werden schon in Sat-6.0 automatisch von allen Puppet Klassen in CVs abgeleitet
- Good Practice: Profilklassen mit konkreten Defaults
- Darüber hinaus gibt es jetzt in Sat-6.2 frei definierbare “Smart Variables” für die Anpassung nicht parametrisierter Klassen.
- Puppet 3.8.6, Foreman 1.11.0



# Edit Puppet Class ssh::server

Puppet Class **Smart Class Parameter** Smart Variables

Filter by name

@ All environments - (not filtered)

Documentation

- ensure
- options**
- storeconfigs enabled

## Parameter details

Key \* options

Description

Puppet Environments KT\_LunetIX\_Library\_rhel7\_base\_2, KT\_LunetIX\_development\_rhel7\_base\_2, and KT\_LunetIX\_production\_rhel7\_base\_2

## Default behavior

Override the default value of the Puppet class parameter.

Override

Key type hash

Default value PermitRootLogin: false

Use Puppet default

Hidden value

## > Optional input validator

## Prioritize attribute order

Set the order in which values are resolved.

Order fqdn, hostgroup, os, domain

Merge overrides

Merge default

Avoid duplicates

## Specify matchers Documentation

+ Add Matcher



# Edit Puppet Class ssh::server

Puppet Class Smart Class Parameter **Smart Variables**

[Documentation](#)

new ✕

Add Variable +

## Parameter details

Key\*

Description

## Default behavior

Key type  ⓘ

Default value  ⓘ

Hidden value  ⓘ

## > Optional input validator

## Prioritize attribute order

ⓘ Set the order in which values are resolved.

Order

Merge overrides  ⓘ      Merge default  ⓘ      Avoid duplicates  ⓘ

## Specify matchers [Documentation](#)

+ Add Matcher

Cancel Submit



# Capsule Status

- Mehr Informationen über den Zustand der Capsules
  - Pulp Storage
  - Puppet Environments
  - Puppet Events
  - Aktive Features/Services und Status



# Capsule: sat62.lunetix.org

[Back](#) [Select Action](#)  [Edit](#) [Delete](#)

[Overview](#) [Services](#) [Puppet](#) [Puppet CA](#)

## Details

Communication status	
URL	https://sat62.lunetix.org:9090
Version	1.11.0.2
Active features	Pulp, Puppet, Puppet CA, Dynflow, and SSH
Hosts managed	<a href="#">2</a>

## Pulp storage



## Capsule: sat62.lunetix.org

[Back](#)[Select Action !\[\]\(e9474ce1d70442456f8fe9c393ea149c\_img.jpg\)](#)[Edit](#)[Delete](#)[Overview](#)[Services](#)[Puppet](#)[Puppet CA](#)

## Dynflow


Version 0.0.7.2

Data not available for Dynflow

## Pulp

Version 

Pulp server version 2.8.1b1

Database connection Messaging connection 

Workers 6

## SSH

Version 0.0.13

Data not available for SSH





# Capsule: sat62.lunetix.org

[Back](#) [Select Action](#)  [Edit](#) [Delete](#)

Overview Services **Puppet** Puppet CA

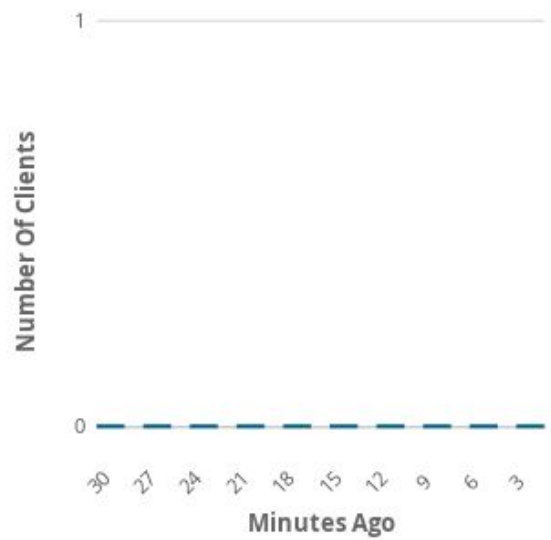
General Environments

Version 1.11.0.2  
Hosts managed: 2

### Latest Events

No interesting reports received in the last week

### Run distribution in the last 30 minutes



### Host Configuration Chart



# Download Policy

- Synchronisation von Paket-Repositories
  - Immediate
  - On Demand
  - Background
- Einstellung Global und für jedes Repo
- Voreinstellung in der Beta ist “Immediate”
- Es ist geplant, die Voreinstellung im Laufe der z-Stream Updates für Sat-6.2 auf “On Demand” zu ändern



# Settings

Filter ...

Q Search

Docu

General Puppet Auth Bootdisk **Katello** Provisioning Discovered ForemanTasks RemoteExecution

Name	Value	Description
check_services_before_actions	true	Whether or not to check the status of backend services such as pulp and candlepin prior to performing some actions.
content_action_accept_timeout	20	Time in seconds to wait for a Host to pickup a remote action
content_action_finish_timeout	3600	Time in seconds to wait for a Host to finish a remote action
default_cdn_ostree_branch_name	rhel-atomic-host/7/x86_64/standard	Name of the default OSTree branch when enabling a Red Hat OSTree repo
default_download_policy	<input type="text" value="immediate"/> <input type="button" value="Save"/> <input type="button" value="Cancel"/>	Default download policy for repositories (either 'immediate', 'on_demand', or 'background')
force_post_sync_actions	false	Force post sync actions such as indexing and email even if no content was available.
katello_default_atomic_provision	Satellite Atomic Kickstart Default	Default provisioning template for new Atomic Operating Systems
katello_default_finish	Satellite Kickstart Default Finish	Default finish template for new Operating Systems
katello_default_iPXE	Kickstart default iPXE	Default iPXE template for new Operating Systems
katello_default_kexec	Discovery Red Hat kexec	Default kexec template for new Operating Systems
katello_default_provision	Satellite Kickstart Default	Default provisioning template for new Operating Systems
katello_default_ptable	Kickstart default	Default partitioning table for new Operating Systems
katello_default_PXELinux	Kickstart default PXELinux	Default PXELinux template for new Operating Systems
katello_default_user_data	Satellite Kickstart Default User Data	Default user data for new Operating Systems
pulp_client_cert	/etc/pki/katello/certs/pulp-client.crt	Path for ssl cert used for pulp server auth
pulp_client_key	/etc/pki/katello/private/pulp-client.key	Path for ssl key used for pulp server auth
pulp_export_destination	Please fill path in.	On-disk location for exported repositories



- Name
- EPEL
- LunetIX
- Puppet Forge
- Red Hat Enterprise Linux Server >

## Product Red Hat Enterprise Linux Server

Remove Product Close

Details Repositories Tasks

[Back to Repository List](#)

Manage Packages Sync Now

### Basic Information

Name	Red Hat Enterprise Linux 7 Server RPMs x86_64 7Server
Label	Red_Hat_Enterprise_Linux_7_Server_RPMs_x86_64_7Server
Type	yum
URL	https://cdn.redhat.com/content/dist/rhel/server/7/7Server/x86_64/os
Yum Metadata Checksum	sha1
Mirror on Sync	Yes
Publish via HTTPS	Yes
Publish via HTTP	No
Published At	<a href="https://sat62.lunetix.org/pulp/repos/LunetIX/Library/content/dist/rhel/server/7/7Server/x86_64/os">https://sat62.lunetix.org/pulp/repos/LunetIX/Library/content/dist/rhel/server/7/7Server/x86_64/os</a>

### Content Counts

Content Type	
Packages	10684
Errata	1169
Package Groups	71

### Distribution Information

No distribution available

In order to browse this repository you must [download the certificate](#) or ask your admin for a certificate.

Download Policy On Demand

Save Cancel



# “Inter Satellite Sync”

- Sat-6.2 FAQ: “Satellite 6.2 lets you synchronize and export content from one Satellite to another”
- Content View RPM Export
- Import im zweiten Satellite als Produkt



# Atomic Host & Docker

- Atomic Host
  - Images
  - OSTree
- Docker v2 API
  - Docker Registry





Expand each Red Hat Product below to examine the different repository sets available. When enabling a repository set, the different repository sets will be enabled individually.

## Enable Red Hat Repositories

RPMs

Kickstarts

Source RPMs

Debug RPMs

Beta

ISOs

**OSTree**

Other

No products are available containing this content type.



# Verschiedenes

- “All Hosts” enthält jetzt tatsächlich alle Hosts
- 





# Satellite 5 End of Production

- Geplant 18 Monate nach Satellite 6.2 GA
- Policy:  
<https://access.redhat.com/support/policy/updates/satellite>



# Further Reading

- **Using r10k with Satellite-6**  
<https://access.redhat.com/blogs/1169563/posts/2216351>
- **Satellite-6 Blog**  
<https://access.redhat.com/blogs/1169563>
- **10 Steps to Satellite-6 SOE**  
[https://access.redhat.com/sites/default/files/pages/attachments/2015-10\\_Steps\\_to\\_Build\\_a\\_Standard\\_Operating\\_Environment.pdf](https://access.redhat.com/sites/default/files/pages/attachments/2015-10_Steps_to_Build_a_Standard_Operating_Environment.pdf)

