

RED HAT SATELLITE LIGHTNING TALKS

Sureshkumar Thirugnanasambandan Thomas McKay Rich Jerrido





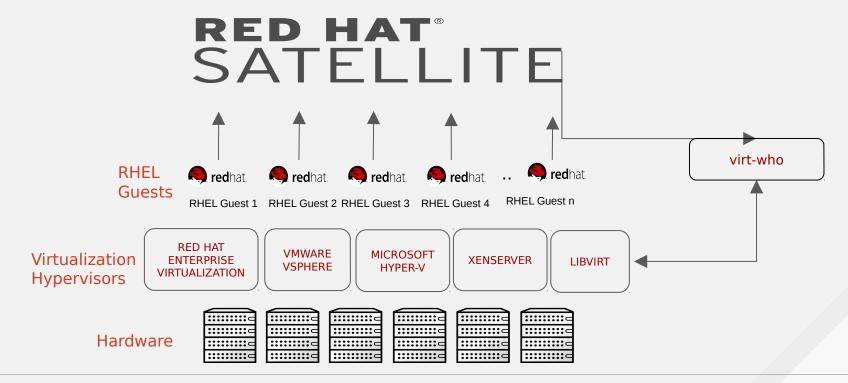
SATELLITE 6 & VIRTUALIZATION PLATFORMS

VIRT-WHO

Sureshkumar Thirugnanasambandan Principal Quality Engineer 5/3/2017

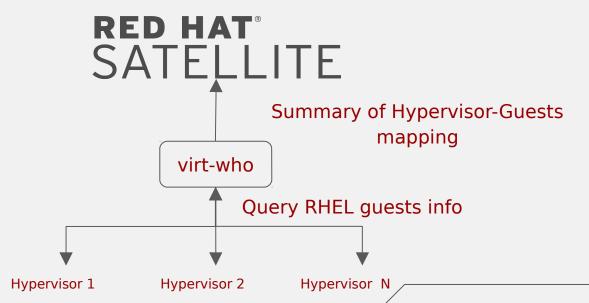


Satellite & Virtualization Platforms





What does virt-who do?



Virt-who Doesn't do

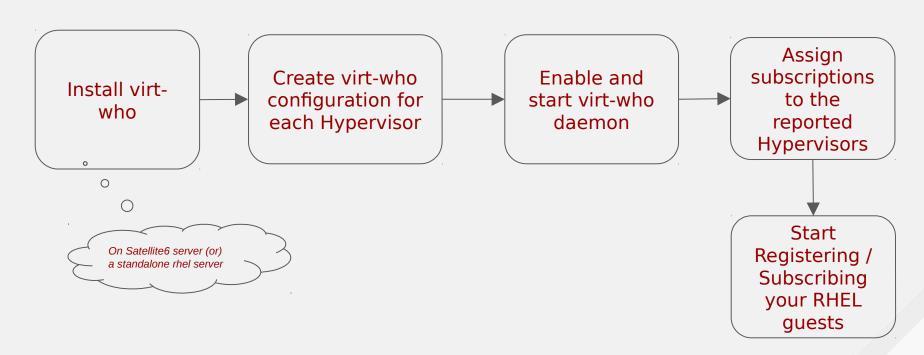
Subscription Management

Content Management

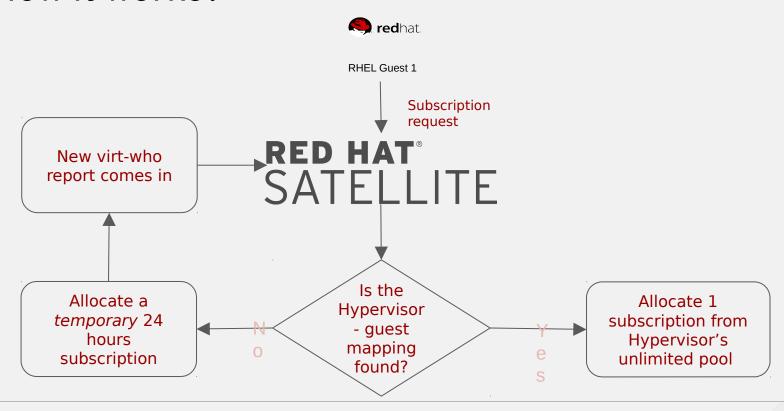
Repeat these 2 steps at scheduled intervals



How to setup?



How it works?



What happens if virt-who is setup incorrectly?

Your RHEL guest

- may not subscribed (or)
- may consume incorrect subscriptions



Areas needed improvement

- Identify Red Hat Subscriptions in Satellite UI which need virtwho usage
- Automate virt-who server setup
- Manage configurations in Satellite UI
- Showing virt-who reporting status in UI
- Make virt-who reporter role available by default

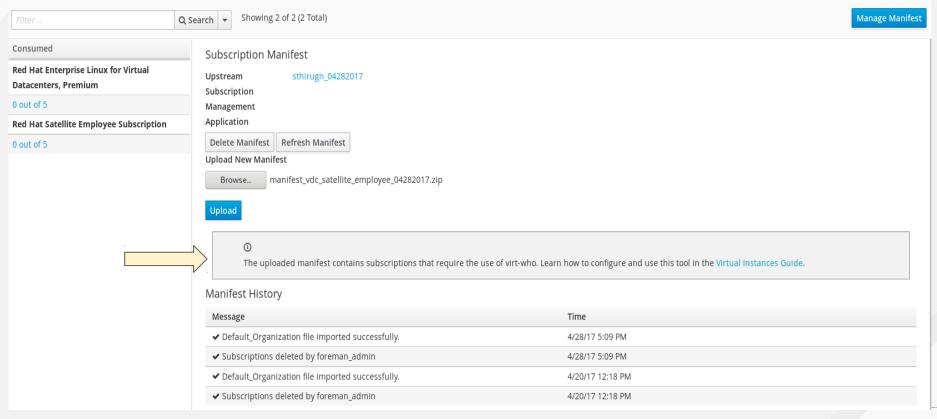


Satellite 6.2.z improvements



Satellite 6.2.z improvements - Page 1

Subscriptions





Satellite 6.2.z improvements - Page 2

Subscriptions



Upcoming improvements - Satellite 6.3



You asked, we listened! What's coming in Satellite 6.3?

- New virt-who configuration helper in Satellite6 UI
 - to store/edit/redeploy virt-who configurations anytime
- Provides a shell script to run on the virt-who host which automates the following:
 - Install virt-who
 - Creating virt-who configurations
 - Start virt-who daemon
- New virt-who reporter role available by default



What's coming in Satellite 6.3 - Demo



RED HAT SATELLITE

Default Organization

Monitor

Containers

Hosts

Configure

Red Hat Insights

Admin User

Administer

Administer

How can you contribute?

- Play with the new virt-who configure plugin and provide feedback
 - https://github.com/theforeman/foreman_virt_who_configure
- My irc nick: sthirugn

Frequently Asked Questions - Page 1

virt-who configuration docs

Satellite 6.2 <u>Virtual instances guide</u>

<u>An interactive lab</u> is setup in access.redhat.com to create virt-who config

Satellite blog -

Understanding virt-who

Working with subscriptions that require virt-who



Frequently Asked Questions - Page 2

<u>Create virt-who role</u> with minimal permissions?

Why is my hypervisor hosts are prefixed with `virt-who` after upgrading to Satellite 6.2.

<u>How</u> to use virt-who to report to multiple orgs?

Why is my Hypervisor host shows Green status although it does not have a subscription attached yet

Virt-who doesn't report host-guest info - see 1, 2, 3





Satellite-6: Plugins & Hooks

Plugins explained / Hooks revealed

Thomas McKay Principal Software Engineer 3/5/2017



Satellite-6 equals plugins!

The Satellite-6 product is a collection of supported plugins

Core Ruby on Rails application

Foreman

Shipped plugins

• Katello, Access Insights, Ansible, OpenSCAP, Discovery, Hooks and more!

Unsupported upstream plugins*

• Salt, Chef and others

* Warning: May be asked to uninstall when reporting support cases



What are plugins?

Written in Ruby on Rails (RoR)

- Ruby programming language
- Rails server-side web application framework
- Plugin extension or modification to the core framework

Details

- Loaded at server startup
- Full access to database and data relations
- Able to extend all areas of an application



Can I write my own plugin?

Q: Two Virtual Datacenter (VDC) subscriptions, how are they used?

A: Create report of usage over time

Requires specialized knowledge of Ruby on Rails

- How to debug
- Data relations
- Performance implications

Not supported

- Support of Satellite-6 itself may require removal of plugin
- Bring server down to modify, remove



What are my choices then?

Q: Two Virtual Datacenter (VDC) subscriptions, how are they used?

A: Create report of usage over time

Other possible solutions

- hammer --csv subscriptions with cron
- Custom API script with cron
- Use the foreman-hooks plugin!



The foreman-hooks plugin runs scripts

A database object change will trigger a call to a custom executable

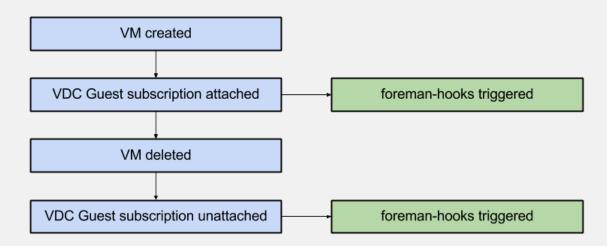
Benefits

- Write executable or script in any language
- Triggered only when needed with low burden on server
- Hooks for data validation, before and after save, and create-update-delete actions
- Modifications to script do not require server restart
- foreman-hooks plugin is supported (but debug your own scripts, please!)



How it works

A database object change will trigger a call to a custom executable



Q: Two Virtual Datacenter (VDC) subscriptions, how are they used?

A: Write a *foreman-hooks* script to report usage as CSV

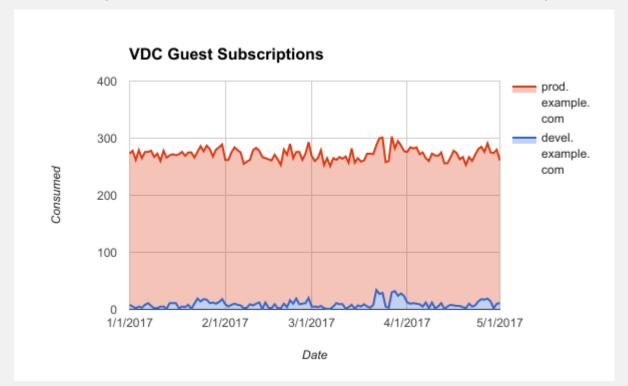


Q: Two Virtual Datacenter (VDC) subscriptions, how are they used?

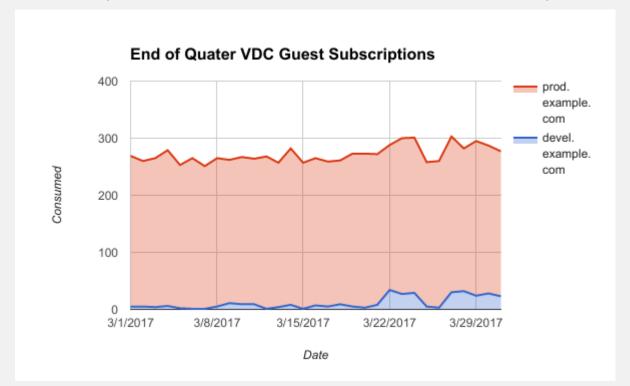
A: Write a *foreman-hooks* script to report usage as CSV

```
ID, Subscription ID, Update Time, Quantity, Consumed 117, 53, 2017-04-25 14:41:25, -1, 0 117, 53, 2017-04-25 14:41:25, -1, 0 100, 53, 2017-04-25 14:41:27, 4, 1 100, 53, 2017-04-25 14:41:27, 4, 1 93, 49, 2017-04-25 14:41:29, 200, 3 93, 49, 2017-04-25 14:41:29, 200, 3 100, 53, 2017-04-25 14:41:35, 4, 0 100, 53, 2017-04-25 14:41:35, 4, 0
```









Interested in learning more?

Freenode IRC #satellite6 and #theforeman thomasmckay

References

- Satellite-6 Documentation Using Foreman Hooks
- Foreman Website How to Create a Plugin

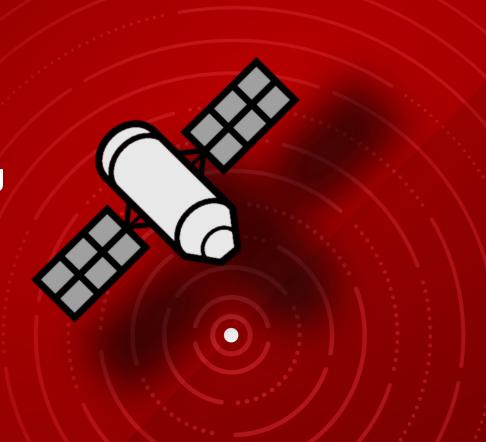




Important Changes Coming To Red Hat Satellite 5

Roadmap and Futures

Rich Jerrido, RHC{E,{D,S}S,{V,S,}A} Product Manager, Red Hat

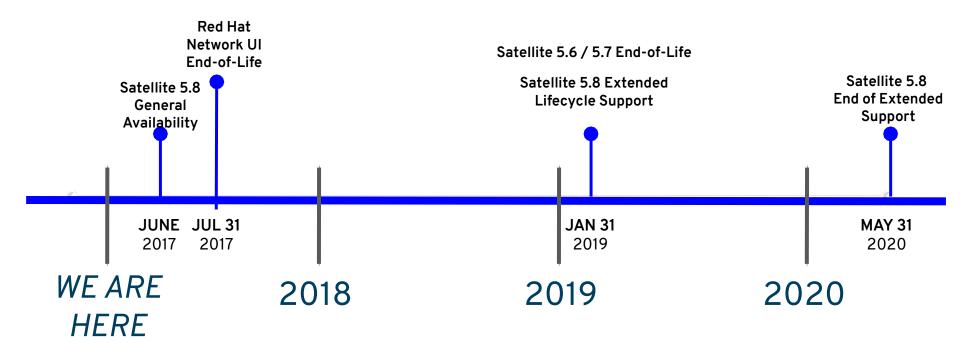




Red Hat Satellite 5 In brief...



KEY EVENTS FOR SATELLITE 5



KEY EVENTS FOR SATELLITE 5, cont.

Your options as a Satellite 5 customer

| | End of Production Phase 3 | End of Extended Life Phase |
|--|---------------------------|----------------------------|
| Satellite and Proxy 5.8 | Jan 31, 2019 | May 31, 2020 |
| Satellite and Proxy 5.7 & 5.6 | Jan 31, 2019 | Not supported |
| Proxy 5.x Stand-Alone (No Satellite server)* | Oct 31, 2017 | Not supported |

^{*}Using Proxy server without a corresponding Satellite server.

The full Satellite 5 & 6 support lifecycle

https://access.redhat.com/support/policy/updates/satellite/

KEY EVENTS FOR SATELLITE 5, cont.

Satellite 5.8 is in beta! General Availability mid-year 2017.



Increased speed with channel install and content syncing

First version of Satellite 5 to access the Customer Portal

Register, activate and update Satellite from the Customer Portal, and synchronize content via our modern Content Delivery Network (CDN)



Improved diagnostics of background tasks and jobs

Introducing the Taskotop utility, which monitors Taskomatic job scheduler activities and provides insightful information on the status of those jobs.



Updated support of Oracle DB & PostgreSQL

Expanding that support for two additional databases for Satellite 5.8: External Oracle Database 12c + Embedded/Managed PostgreSQL 9.5 DB

Legacy feature removal

- Monitoring
- Solaris management
- SAM support



THANK YOU





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