



RED HAT® SATELLITE

Username

Password

Login

Introduction

Introduction

Red Hats latest version of their Lifecycle Management tool, Red Hat Satellite 6, is a big change from earlier versions

Version 5 is based on the upstream, open source project called [Spacewalk](#) where as the latest version is a combination of two other open source projects - [Katello](#) & [Foreman](#).

Foreman itself is also a cobination of open source code written by themselves and and open source project called Puppet (by Puppet Labs). While Katello is also a combination of [Candlepin](#) and [Pulp](#)

As such, while the latest version has the potential to do much more and scale far beyond earlier versions, with this comes a whole lot of new learning

This book aims to get you up and running with Satellite 6 in the quickest possible time, so that you can start experiencing the benefits it brings as soon as possible

You

You are expected to be someone who is familiar with administering Linux. You will hopefully have some experience of installing/provisioning and if you had some fundamental knowledge of Puppet, then that would certainly help

Installation

Installation

Pre-Requisites

Before we start, you will need

- vanilla install of RHEL. (we will be using RHEL6, but RHEL7 is also supported)
- valid entitlement for RHEL and entitlement for Satellite
- a login to access.redat.com (for downloading the manifest)

Base Install

I like to start with a fresh installation of RHEL 6.5, which I install via ISO. I prefer this, over templates or machines deployed by Satellite/Foreman as it keeps it as clean as possible and there is no existing puppet configuration, might have lead to problems later on

When installing, be sure to just use "Base" as the installation type.

Once installed, we will register the machine to Red Hat, and fully update it. Then we will change its Satellite version, add some subscriptions and download its manifest file and get the Satellite software installed

Registration

I like to follow a very precise way of registering the box, one that I have worked out over many installation methods. While its not the way currently mentioned in the [official documentation](#), it works for me 100% of the time.

From a command prompt type the following

```
subscription-manager register --type=satellite
```

You will then be prompted for your credentials, enter them and then we can move onto the next part

Attaching Your Entitlements to the Satellite

OK, lets get a list of whats available to you, you are specifically looking for the poolids here

```
subscription-manager list --available --all|less
```

As a Red Hat employee, some of the output I see is as follows, yours will look a little different

```
Subscription Name: Red Hat Satellite Employee Subscription
Provides:          Red Hat Beta
                  Red Hat Satellite Tools 6 MDP
                  Red Hat Satellite 6 MDP
                  Red Hat Satellite Capsule 6 Beta
                  Red Hat Enterprise Linux 7 Release Candidate
                  Red Hat Satellite 6 Beta
                  Red Hat Enterprise Linux High Availability (for RHEL Server)
                  Red Hat Enterprise Linux Server
                  Red Hat Satellite
                  Red Hat Enterprise Linux Load Balancer (for RHEL Server)
SKU:               SER0232US
Pool ID:           8a85f9873f77744e013f8944aab067cf
Available:         17
Suggested:         1
Service Level:     Self-Support
Service Type:      L1-L3
Multi-Entitlement: No
Ends:              01/01/22
System Type:       Physical
```

As I mentioned earlier, you are interested in the **Pool ID** of the subscription

You can **attach* this to your server as follows

```
subscription-manager attach --pool=8a85f9873f77744e013f8944aab067cf
```

This may enable too many repositories. The [Satellite documentation](#) makes clear which repositories you will need, and shows how to disable the ones you dont.

```
subscription-manager repos --disable "*"

subscription-manager repos --enable rhel-6-server-rpms \
--enable rhel-server-rhsc1-6-rpms \
--enable rhel-server-6-satellite-6-beta-rpms
```

Initial Configuration, adding Red Repos

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In this section I will show how to attach some/all of your remaining entitlements to your freshly installed Satellite server. Once you have done this you will be able to select which repositories you want to sync from Red Hat.

After you have selected the repos, you can either synchronise them right away or set up a synchronisation schedule

Adding Puppet Repos

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Configure the Server for Provisioning

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