

Spacewalk

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Introduction

- ▶ Senior at Towson University
- ▶ Bachelors of Science in Information Technology
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- ▶ CCENT, RHCSA, Security+

Agenda

- ▶ Prerequisite Knowledge
- ▶ What is Spacewalk?
- ▶ Hardware Requirements
- ▶ Registering Clients
- ▶ Configuration
- ▶ Features of Spacewalk

Prerequisites

- ▶ RPM
- ▶ yum
- ▶ yum repository
- ▶ `/etc/yum.repos.d/`

What is Spacewalk?

- ▶ Linux Systems Management Solution
- ▶ Open Source
- ▶ Upstream project from Red Hat Satellite

Hardware Requirements

Minimal

- ▶ 2 Cores
- ▶ 4GB RAM
- ▶ 30GB HDD

Preferred

- ▶ 4 Cores
- ▶ 8GB RAM
- ▶ 100GB HDD

Configuration - Channel Creation

- ▶ Channels -> Manage Software Channels -> + Create Channel
- ▶ Systems -> Activation Keys -> + Create Key

Configuration - Register Systems

▶ Configure yum repositories

- ▶ `rpm -Uvh http://yum.spacewalkproject.org/2.6-client/RHEL/7/x86_64/spacewalk-client-repo-2.6-0.el7.noarch.rpm`
- ▶ `rpm -Uvh http://dl.fedoraproject.org/pub/epel/epel-release-latest-7.noarch.rpm`

▶ Install client packages

- ▶ `yum install -y rhn-client-tools rhn-check rhn-setup rhnsd m2crypto yum-rhn-plugin`

▶ Retrieve RHN Certificate

- ▶ `wget spacewalk.scottctaylor.com/pub/RHN-ORG-TRUSTED-SSL-CERT`
- ▶ `mv RHN-ORG-TRUSTED-SSL-CERT /usr/share/rhn/RHN-ORG-TRUSTED-SSL-CERT`

▶ Register system to Spacewalk

- ▶ `rhnreg_ks --serverUrl=(url)/XMLRPC --activationkey=(key)`

Configuration - Child Channel

- ▶ Channels -> Manage Software Channels -> + Create Channel
- ▶ <http://yum.spacewalkproject.org>

Features - Basics

- ▶ View system details
- ▶ Create System Groups
- ▶ System Set Manager

Features - Package Management

- ▶ List Packages
- ▶ Upgrade Packages
- ▶ Install Packages
- ▶ Channel Subscription

Features - Remote Command

- ▶ Powered by Ansible
- ▶ Requires rhncfg-actions package
- ▶ `rhn-actions-control --enable-run`
- ▶ Systems -> Details -> Remote Command

Features - Configuration Management

- ▶ Deploy files/directories onto client filesystems
- ▶ Enable file deployment on client

Features - Kickstart

- ▶ Build system using kickstart file
- ▶ Cobbler integration for network boot
- ▶ Kickstart profiles for customization

Features - Kickstart Cont.

```
Cobbler | http://cobbler.et.redhat.com
(local)
CentOS66-minimal:1:SpacewalkDefaultOrganization
Press [Tab] to edit options
```

Features - OSAD

- ▶ Allows instantaneous actions
- ▶ No waiting for `rhn_check`
- ▶ Requires EPEL yum repository
 - ▶ `yum install epel-release`
 - ▶ `yum install osad`
- ▶ Works best with NTP

Summary

- ▶ Open Source Linux Systems Management Solution
- ▶ Base Channel and Activation Key
- ▶ System Package Inventory
- ▶ Install and Update packages remotely
- ▶ Remote Commands
- ▶ Configuration Deployment
- ▶ Kickstart