# Spacewalk

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#### Introduction

- Senior at Towson University
- ► Bachelors of Science in Information Technology
- System Administration Intern at Aplura, LLC
- ► 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
- Retreive 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

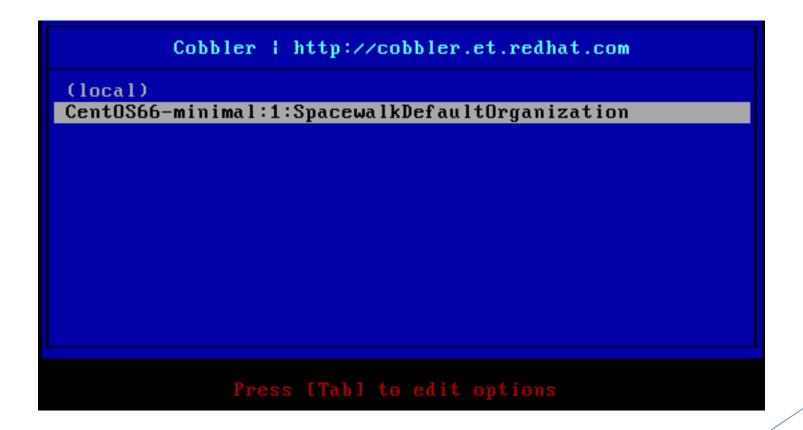
#### Features - Configuration Management

- 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.



#### 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