Puppet Configuration & Administration

Course Overview

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This is a 3-day class

This course presents the system management and configuration tool Puppet Enterprise, from methods, techniques, capabilities to implementation.

Who Should Attend

This course is for RHEL 7 systems administrators looking to automate the provisioning of key areas of the RHEL 7 system, such as packages, services, and configuration files. It is assumed that participants are working systems administrators with some scripting knowledge (bash, ksh, Perl or Python) and an understanding of the various system tasks related to setting up and supporting RHEL 7 systems.

Course Objectives

At the completion of the course, participants should be able to: install and configure Puppet servers and agents; create and modify manifests that contain resource definitions; create and modify classes; create and modify modules; create and modify node definitions; create and modify environments; apply manifests, classes, nodes, and environments; extend Puppet with functions; use (and extend) Facter facts; generate basic reports; use tools MCollective and Hiera; and design a 'best practice' strategy for using Puppet capabilities.

Course Outline

1 CONFIGURATION MANAGEMENT OVERVIEW

Configuration management
Puppet configuration management
Facter (concepts)
Facter installation
Facter core facts
Using Facter information
Extending Facter (external and internal facts)

2 PUPPET ENTERPRISE (MASTER SERVER) INSTALLATION

Puppet Enterprise overview
Yum (package) repositories
Puppet Enterprise Master installation
Puppet Enterprise components
Puppet Enterprise key directories
Puppet Enterprise documentation
Puppet Enterprise certificates and licensing



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3 PUPPET ENTERPRISE CERTIFICATES AND LICENSING

Overview of resource management Defining configuration resources Checking syntax of configuration resources Puppet style guide Applying configuration resources (locally) Metaparameters Conditionals Arrays of resources Classes Parameterized classes Classes with inheritance (and parameters) Defined resources (definitions) Run stages Modules Virtual resource definitions Puppet standard library functions

4 PUPPET ENTERPRISE (AGENT) INSTALLATION

Puppet Enterprise agent overview Puppet Enterprise agent installation Puppet Enterprise agent initial setup

5 CREATING NODES AND ENVIRONMENTS

Node definitions Environment definitions

6 EXTENDING PUPPET WITH REPORTING, MCOLLECTIVE AND HIERA

Reporting
Transaction reporting
Syslog (rsyslogd) reporting
MCollective
Hiera

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