Configuration Management with Puppet (DO405VT)

Modality: Virtual Classroom

Duration: 5 Days

About this Course:

This is an intermediate-level course designed for System Administrators and Cloud Administrators striving to enhance their skills and knowledge of Configuring, Managing, and Implementing Puppet. Businesses direly need proficient Red Hat Software Engineer who can effectively deploy puppet servers on Red Hat Platforms. On average, a Red Hat Software Engineer earns $87,078 annually.

This is a comprehensive training program covering the Red Hat Products based-on Puppet such as Red Hat Satellite and Red Hat Enterprise Linux OpenStack®. The teachings of this course shed light on Puppet Language Constructs, Module Resources, and Module Classes. Furthermore, it also helps professionals gain a better understanding of deploying Puppet Servers as a client and on Red Hat Linux Platforms. Candidates also learn Puppet Master Configuration, Client Configuration Management, Network Services Deployment, and DevOps Puppet Implementation.

Course Objectives:

The core objective of this course is to help professionals gain a better understanding and conceptual knowledge of the following key elements:

- Using various resources of Puppet DSL to Write Puppet Manifests
- GIT Repository Deployment and Maintaining Puppet Modules
- Configuration and Deployment of Network services with Puppet Modules
- Clients Nodes and Puppet Master Configuration
- Puppet Configuration Management Implementation in a DevOps Ecosystem
- Management of Client Configuration with Puppet using Red Hat Satellite 6

Audience:

This course is tailored for the following group of professionals:

- Cloud Administrator
- System Administrator
- Professionals responsible for Cloud Client System Management on Red Hat Satellite or Enterprise Linux OpenStack Platform

Prerequisite:

Professionals planning to enroll in the Configuration Management with Puppet (DO405VT) course must have Equivalent Experience or Red Hat Certified Engineer (RHCE®) Certification

Course Outline:

Course introduction

Introduction to the course.

Identify system administration functions in Puppet

Identify system administration functions in Puppet code.

Puppet architecture

Describe the Puppet architecture and describe a state model.

Implement a Puppet manifest

Build, validate, and deploy a Puppet manifest.

Troubleshoot Puppet manifests

Find documentation and diagnose errors in Puppet manifests.

Implement Git

Implement Git to manage software.

Find information with Facter

View information about systems using Facter.

Implement Puppet modules

Create Puppet modules and implement classes in a manifest.

Implement relationships in a Puppet module

Implement namespaces, relationships, and dependencies in a Puppet module.

Implement variables and conditionals in a Puppet module

Implement variables and conditionals in a Puppet module.

Identify advanced system administration functions in Puppet

Identify advanced system administration functions in Puppet code.

Implement Puppet

Deploy and configure a Puppet master and a Puppet client.

Implement external Puppet modules

Implement Puppet modules from Puppet Forge.

Implement Puppet in a DevOps environment

Implement Puppet in a DevOps environment.

Implement Puppet in Red Hat Satellite 6

Implement Puppet in a Red Hat Satellite 6 environment.