

# **Build your own Manageable Puppet Infrastructure**

**Modality: On Demand**

**Duration: 7 Hours**

## **About this Course:**

This intermediate-level 7 Hours Training Program is specifically designed for System Administrators who want to learn complex concepts of building manageable puppet infrastructure. This course sheds light on advanced concepts and helps professionals learn the art of developing and deploying puppet infrastructure. This course covers key concepts of Puppet Installation, Development Environment Formulation, Vagrant Configuration, Profiles & Roles Review, and Version Control Setup.

The Manageable Puppet Infrastructure is a field-tested and flexible design concept widely used by businesses from diversified industries. This course provides a practical and comprehensive overview for setting up and configuring such a puppet infrastructure and also helps professionals understand its working mechanism and a vast array of applications. This is an advanced course and professionals must have a fundamental knowledge of puppet infrastructure to fully understand and grasp the key concepts in this course.

## **Course Objectives:**

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

- Fundamentals of Puppet Installation
- Temporary Development Ecosystem Formulation
- Overview of Profiles & Roles and Vagrant Configuration
- Code Review and Version Control Setup
- Configuring Personal Playground Ecosystem and R10K
- Forge Modules Identification and Applications
- Hieradata Encryption and Issues Resolution
- Environment Deployment and Git Flow
- Classifying Nodes and Web-Interface Inclusion in Puppet Infrastructure
- Puppet Firewall Management

## **Audience:**

This course is specifically tailored for the following group of professionals and interested candidates:

- System Administrators
- IT Professionals & Experts
- Professionals striving to learn Setting Up Puppet Infrastructure

## **Prerequisites:**

Professionals planning to enroll in the Build Your Own Manageable Puppet Infrastructure Course must comply with the following prerequisites:

- Mid-Level Understanding of Puppet Infrastructure
- Fundamental Knowledge of Linux Operating Systems
- Familiarity with Three Virtual Linux Servers

## Course Outline:

- What will we build during this course?
- Prerequisites and preparation
- Installing Puppet
- Creating a temporary development environment
- Setup Vagrant
- Introduction to Roles and Profiles
- Setting up Version control and Code-review
- Setting up R10K
- Setting up a personal playground environment
- Selecting and using Forge modules
- Daily operations
- Get started with Hiera
- Workflow: Going through the motions of code deployment
- Create resources based on data from Hiera
- Encrypting Hieradata
- Tying up some loose ends
- Git flow and deploying environments \*Again\*
- Node classification
- Adding a web-interface to your Puppet infrastructure
- Using \$::role in Hiera
- Managing the firewall with Puppet
- It's a wrap!