Puppet

Course Summary

Objectives
At the end of this course, students will be able to:

Deploy basic system configurations using best practices for Puppet in a Master-Agent setup

Topics

- The Fundamental component roles that make up Puppet Enterprise and Puppet Open Source
- Core Concepts for the Puppet DSL
- Separating logic from presentation using Templates
- Modeling repeatable portions of configuration using Defined Resource Types
- A foundation for building more complex configurations by using Advanced Classes
- An introduction to using modules from Puppet Forge and Supported Modules
- A brief introduction to the Roles and Profiles design pattern

Audience
In this course, we expect students to have little to no experience with Puppet Enterprise (or Puppet Open Source) and that they are looking to build a foundation for future growth, experience, and knowledge.

Prerequisites
Command line, such as Bash or PowerShell

Duration
Three days
Puppet

Course Outline

Day 1
I. Fundamental component roles that makeup
   Puppet Enterprise and Puppet Open Source

II. Core Concepts for the Puppet DSL
    A. Modules and Classes
    B. Classification
    C. Resources
    D. Relationships
    E. Language Constructs

Lab: Core Concepts for the Puppet DSL

Day 2
III. Separating Logic from Presentation using
     Templates

IV. Modeling repeatable portions of your
    configuration using Defined Resource Types

V. Foundation for building more complex
    configurations by using Advanced Classes
    A. Parameterized Classes
    B. Introduction to Inheritance
    C. Introduction to Data Separation using Hiera
    D. Revisiting Classifications using
       parameterized classes & ADB
    E. Lab: Complex Configurations, using
       Advanced Classes

VI. Introduction to using modules from Puppet
    Forge and Supported Modules
    Lab: Puppet Forge and Supported Modules

VII. Brief introduction to the Roles and Profiles
design pattern