

## 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

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### 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**