



## **Configuration Management with Puppet**

### *Outline for this course:*

#### **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 Factor**

- View information about systems using Factor.

#### **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.