

- Introduction of Configuration Management
- Why Puppet
- Introduction of Puppet release
- Working with Puppet Open Source
- Puppet Open Source Architecture
- Understanding Puppet's internals
- Installing and upgrading Puppet agents
- Writing Puppet Programs file using Resource types
 - exec
 - file
 - filebucket
 - group
 - notify
 - package
 - resources
 - schedule
 - service
 - stage
 - tidy
 - user

- Puppet Development Kit overview and workflow

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- **Working with Puppet Factor**
- **Factor release notes**
- **Core facts**
- **Custom facts**
- **Custom facts walkthrough**
- **External facts**
- **Configuring Factor with factor.conf**
- **Writing Advance Puppet Programs using Puppet language**
 - **Language visual index**
 - **The Puppet language style guide**
 - **Code comments**
 - **Variables**
 - **Resources**
 - **Relationships and ordering**
 - **Classes**

- **Defined resource types**
- **Bolt tasks**
- **Type aliases**
- **Expressions and operators**
- **Conditional statements and expressions**
- **Function calls**
- **Built-in functions**
- **Node definitions**
- **Facts and built-in variables**
- **Reserved words and acceptable names**
- **Custom resources**
- **Values and data types**
- **Templates**

- **Installing and Configuring Puppet master**

- Puppet settings
- Key configuration settings
- Puppet's configuration files
- Configuring Puppet Server
- Adding file server mount points
- Checking the values of settings
- Editing settings on the command line

- **Introducing Puppet services and tools**

- Puppet commands
- Running Puppet commands on Windows
- Puppet master
- Puppet agent on *nix systems
- Puppet agent on Windows
- Puppet apply
- Puppet device

- **Understanding Puppet Important directories and files**

- Code and data directory (codedir)
- Config directory (confdir)
- Main manifest directory
- The modulepath
- SSL directory (ssldir)
- Cache directory (vardir)

- **Defined resource types**

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- **Puppet Server**

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- **Writing custom functions in Puppet**

- Custom functions
- Custom Puppet functions
- Writing custom functions in Ruby
- Secrets store integrations and agent-side data retrieval
- Write a Puppet function to store secrets

- **Working with Puppet Hiera**

- About Hiera
- Getting started with Hiera
- Configuring Hiera
- Creating and editing data
- Looking up data with Hiera
- Writing new data backends
- Upgrading to Hiera 5

- **Working with Tracking Puppet activity with reports**

- Reporting
- Report reference
- Writing custom report processors
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- **Working with Puppet Certificate authority and SSL**

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- **Testing Puppet code using**

- puppet-lint
- metadata-json-lint, included in PDK, validates your module metadata file.
- rspec-puppet, included in PDK, provides an RSpec test framework for Puppet.
- rspec-puppet-facts,
- Rubocop, a Ruby code analyzer.

- **Working with Puppet Enterprise**

- Getting started with Puppet Enterprise on *nix and Windows
- Choosing an architecture and Installing
- Installing and Configuring agents
- Configuring Puppet Enterprise
- Puppet Enterprise Accessing the console
- Managing access with Puppet Enterprise
- Inspecting your infrastructure
- Managing nodes in Puppet Enterprise
- Orchestrating Puppet, tasks, and plans
- Managing and deploying Puppet code
- Provisioning with Razor
- SSL and certificates with Puppet Enterprise
- Puppet Enterprise Maintenance
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