

Definitive Puppet for engineers

A 2 day **Hands on** training course



Description

Puppet is a framework and toolset for configuration management. This course covers Puppet to enable delegates to manage configurations. Hands on sessions follow all the major sections.



Key outcomes

By the end of the course delegates will be able to:

- ✓ Deploy Puppet.
- ✓ Manage configurations with Puppet.
- ✓ Build hosts with Puppet.
- ✓ Produce reports with Puppet.



Training Approach

This structured course uses Instructor Led Training to provide the best possible learning experience. Small class sizes ensure students benefit from our engaging and interactive style of teaching with delegates encouraged to ask questions throughout the course. Quizzes follow each major section allowing checking of learning. Hands on sessions are used throughout to allow delegates to consolidate their new skills.



Details

Who will benefit?

Anyone working with Puppet.

Prerequisites

Linux fundamentals.

Duration: 2 days

Overall rating:



Generic Training



Generic training compliments product specific courses covering the complete picture of all relevant devices including the protocols "on the wire".

"Friendly environment with expert teaching that teaches the why before the how."
G.C. Fasthosts

Small Class Sizes



We limit our maximum class size to 8 delegates; often we have less than this. This ensures optimal interactivity between delegates and instructor.

"Excellent course. The small class size was a great benefit..."
M.B. IBM

Hands On Training



The majority of our courses use hands on sessions to reinforce the theory.

"Not many courses have practice added to it. Normally just the theoretical stuff is covered."
J.W. Vodafone

Our Courseware



We write our own courses; courseware does not just consist of slides and our slides are diagrams not bullet point text.

"Comprehensive materials that made the course easy to follow and will be used as a reference point."
V.B. Rockwell Collins

Customise Your Course



Please contact us if you would like a course to be customised to meet your specific requirements. Have the course your way.

"I was very impressed by the combination of practical and theory. Very informative. Friendly approachable environment, lots of hands on."
S.R. Qinetiq

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Course Content

Getting started with Puppet

What is Puppet, Selecting the right version of Puppet, Installing Puppet, Configuring Puppet.

Developing and deploying Puppet

The puppet apply command and modes of operation, Foreground Puppet master, Developing Puppet with Vagrant, Environments, Making changes to the development environment, Testing the new environments with the Puppet agent, Environment branching and merging, Dynamic Puppet environments with Git branches, Summary, Resources.

Scaling Puppet

Identifying the challenges, Running the Puppet master with Apache and Passenger, Testing the Puppet master in Apache, Load balancing multiple Puppet masters, Scaling further, Load balancing alternatives. Measuring performance, Splay time, Summary, Going further, Resources.

Externalizing Puppet configuration

External node classification, Storing node configuration in LDAP, Summary, Resources.

Exporting and storing configuration

Virtual resources, Getting started with exported and stored configurations, Using exported resources, Expiring state resources, Summary, Resources.

Puppet consoles

The foreman, Puppet enterprise console, Puppetboard, Summary, Resources.

Tools and integration

Puppet forge and the module tool, Searching and installing a module from the forge, Generating a module, Managing module dependencies, Testing the modules, Developing Puppet modules with Geppetto, Summary, Resources.

Reporting with Puppet

Getting started, Configuring reporting, Report processors, Custom reporting, Other Puppet reporters, Summary, Resources.

Extending Facter and Puppet

Writing and distributing custom facts, Developing custom types, providers and functions, Summary, Resources, Complex data structures, Additional backends, Hiera functions in depth, Module data bindings, Hiera examples. Hiera-2, Summary, Resources.

Mcollective

Installing and configuring Mcollective, testing, Mcollective plugins, accessing hosts with Metadata.

Hiera

Lists, initial Hiera configuration, Hiera command line utility, complex data structures, additional backends, Hiera functions in depth, module data bindings. Hiera-2.

