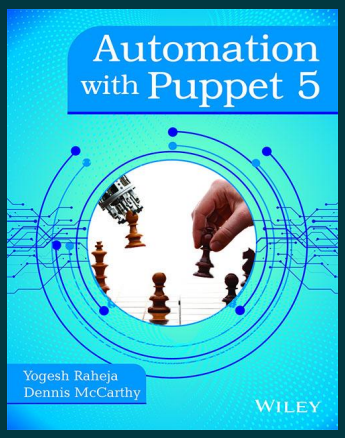
WILEY



Automation with Puppet 5

By Yogesh Raheja, Dennis McCarthy

Paperback 9788126572748 **₹1,050.00**

Pages: 380

Description

This book is based on Puppet Version 5 which contains all the major concepts of Puppet Automation in a very straightforward and easy-to-understand way. We start by building a strong foundation to get familiar with Automation and Configuration Management. For this we have presented a simple case study to prove why Automation is a must in IT. The book talks about how to setup Puppet Master on CentOS and Ubuntu (two different Linux-based Operating Systems), Setup and configure Puppet Agents/Nodes, Puppet Certification Management, Puppet Architecture. Until this level, you will be in a position to install, configure, and run your own independent Puppet environment.

About the Author

Yogesh Raheja, Dennis McCarthy

Yogesh Raheja is a certified DevOps and Cloud expert with a decade of IT experience. He is a Technofreak who possesses expertise in various technologies like Operating Systems, Source Code Management, Build & Release Tools, CI/CD Tools (Continuous Integration/ Deployment/Delivery), Containers (Docker, Kubernetes), Configuration Management Tools (Puppet/Chef/SaltStack/Ansible) and various public and private Clouds (AWS, Azure, GCP

Table of Contents

Preface

Acknowledgments

About the Authors

Chapter 0 Defining IT Automation

0.1 What is “IT Automation”?

Chapter 1 Introduction to Puppet

1.1 Puppet: An Introduction

1.2 Current IT Automation State

1.3 Why Configuration Management?

1.4 Why Puppet?

1.5 How Puppet Works

1.6 Puppet Dataflow

Chapter 2 Understanding Puppet Framework

2.1 Simple Case Study

2.2 Puppet Way of Configuration Management
2.3 Infrastructure as Code (IaC)
2.4 Idempotency
2.5 Puppet Terminology
Chapter 3 Puppet Deployment
3.1 Pre-Requisites for Puppet Master
3.2 Puppet Master Installation and Configuration
3.3 Puppet Master Configuration File and Services
3.4 Pre-Requisites for Puppet Agent
3.5 Puppet Agent Installation and Configuration
3.6 Puppet Certification Management
3.7 Puppet Architecture
Chapter 4 Puppet Resources
4.1 About Puppet Resources
4.2 Resource Declaration
4.3 Resource Attributes
4.4 Puppet Code Creation Process
4.5 Multi-Resource Puppet Code
4.6 Puppet Resource Relationship (Dependency Management)
Chapter 5 Puppet Classes and Manifests
5.1 About Puppet Classes
5.2 Defining and Declaring Puppet Classes
5.3 Puppet Code Syntax Checks
5.4 Puppet Manifests
5.5 site.pp File in Main Manifests
5.6 Puppet Smoke Test or Dry Run Test
5.7 Puppet Real-Time Run
5.8 Node Definitions in Puppet
5.9 Real-Time Puppet Examples
Chapter 6 Puppet Variables
6.1 About Puppet Variables
6.2 Use Cases
6.3 Variable Scope
6.4 Puppet Facts
6.5 Facts in Variables
6.6 Conditionals, Case Statements, and Arrays in Puppet
6.7 Custom Facts
Chapter 7 Puppet Modules

7.1 About Puppet Module
7.2 Puppet Module Tool
7.3 Puppet Module Creation Process
7.4 Module Directory Structure
7.5 First Puppet Module Run
7.6 Puppet Modules with Static Files and Variables
Chapter 8 Puppet Nested Classes
8.1 Puppet Nested Classes Overview
8.2 Nested Classes Example
8.3 Class Inheritance in Puppet
8.4 Parameterized Classes in Puppet
8.5 Inheritance and Parameterized Example
Chapter 9 Puppet Roles and Profiles
9.1 Introduction
9.2 Roles and Profiles Creation
9.3 Real-Time Example
Chapter 10 Data Separation in Puppet
10.1 About Hiera in Puppet
10.2 Configuring Hiera
10.3 Testing and Implementing Hiera
10.4 Hiera with Custom Facts
Chapter 11 Extended Puppet Concepts
11.1 Marionette Collective
11.2 Operations with Marionette Collective
11.3 Defined Resource Type Overview
11.4 ERB Template Overview
11.5 File Line
11.6 Puppet Environments
Chapter 12 Puppet Forge
12.1 About Puppet Forge
12.2 Forge Utility
12.3 Puppet Module Operations Using Forge
Summary
Test Your Knowledge
Appendix Puppet References − Foreman and YAML
A.1 Foreman: An Open-Source GUI for Puppet
A.2 YAML Structure

To purchase this product, please visit:
https://www.wileyindia.com/automation-with-puppet-5.html

Scan to buy