Learning Puppet

Jussi Heinonen

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Build intelligent software stacks with the Puppet configuration management suite

About This Book

- Develop high-quality Puppet modules in an isolated development environment
- Manage complex development environments with industry-leading configuration management tool
- A comprehensive guide to get you started with Puppet development and deployment in virtual environments

Who This Book Is For

If you are new to configuration management and IT automation processes and are looking for better ways to manage system configuration changes at scale, this book is for you. Basic knowledge of Linux System Administration is a prerequisite.

What You Will Learn

- Manage your system with Puppet instantly
- Develop Puppet in an isolated development environment
- Make your manifests reusable to avoid re-inventing the wheel
- Automate monitoring to improve the user experience through increased uptime
- Enable nodes to communicate with each other via Puppet Master
- Make environment configuration dynamic using stored configurations and PuppetDB
- Extend Puppet beyond the built-in functionalities
- Manage your environment through the Puppet Enterprise console

In Detail

Puppet is a cross-platform, open source configuration management utility, which runs on various Unix, Linux, and Windows Microsoft platforms. It allows you to automate all your IT configurations, giving you control of what you do to each node, and also when and how you do it. You'll be able to build and manage development, test, and production environments independently without requiring previous system administration experience.

Learning Puppet is a step-by-step guide on how to get started with Puppet development and use Puppet modules as the building blocks to deploy production-ready application cluster in virtual environment.

You will begin with the installation of development environment on the VirtualBox hypervisor and Puppet Learning VM that will be used as the platform for testing and development of Puppet modules. Next, you will learn how to manage virtual machines and snapshots effectively and enhance the development experience with advanced VirtualBox features.

Later the book will focus on Puppet module development in detail. You will be guided through the process of utilizing existing modules that are available in the public module repository, write your own modules and use them to deploy a real-world web application that includes features such as monitoring and load balancing. You will then learn to scale your environment and turn your static configuration into a dynamic one through stored configurations and PuppetDB. Finally, the book will provide you with practical advice on Puppet troubleshooting and managing your environment with the wealth of features provided by the Puppet Enterprise console.

Style and approach

A comprehensive introductory guide to help you manage your infrastructure with Puppet. All instructions and explanations are supported with screenshots and code examples to ensure you get an easy start with Puppet.

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From reader reviews:

Allison Sala:

Learning Puppet can be one of your beginner books that are good idea. We all recommend that straight away because this reserve has good vocabulary that can increase your knowledge in vocabulary, easy to understand, bit entertaining but nonetheless delivering the information. The author giving his/her effort that will put every word into joy arrangement in writing Learning Puppet nevertheless doesn't forget the main point, giving the reader the hottest as well as based confirm resource facts that maybe you can be among it. This great information can certainly drawn you into completely new stage of crucial contemplating.

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