

Mastering Puppet

Second Edition

Master Puppet for configuration management of your systems in an enterprise deployment



Mastering Puppet Thomas Uphill

JL Elias

Mastering Puppet Thomas Uphill:

Mastering Puppet Thomas Uphill, 2014-07-16 Presented in an easy to follow step by step tutorial format and packed with examples this book will lead you through making the best out of Puppet in an enterprise environment If you are a system administrator or developer who has used Puppet in production and are looking for ways to easily use Puppet in an enterprise environment this book is for you This book assumes an intermediate knowledge of Puppet and is intended for those writing modules or deploying Puppet in an enterprise environment *Troubleshooting Puppet* Thomas Uphill,2015-08-31 Troubleshoot your Puppet infrastructure to leverage your system's performance effectively About This Book Covers major tools in Puppet deployment Fix catalog compilation problems and deal with issues found in larger deployments such as scaling and improving performance A fast paced guide with real world examples Who This Book Is For If you are a beginner to intermediate Puppet Engineer looking for guidance to help fix problems with your Puppet deployments this book is for you What You Will Learn Debug your Puppet infrastructure Use APIs to ensure services are working properly Fix catalog compilation issues Solve problems using Hiera tool Detect problems in your environment using PuppetDB tool Learn ways to format code to aid in identifying errors Troubleshoot errors in modules and templates In Detail Puppet is a configuration management system written for system administrators to manage a large number of systems efficiently and help maintain order Deploying Puppet becomes more complex as you increase the number of nodes in your environment The Puppet tool is an intelligent solution that increases the automation footprint for the proactive management of server infrastructures Puppet s simple programming language is usable on most operating systems and is portable on different deployment environments We begin by looking at the puppet conf server configuration file and talk about possible problems that can occur What does puppet really do in the background and what options does it provide for troubleshooting This is what we will explore Moving on we will be troubleshooting errors made in modules and templates finding the best solutions. We will be writing code that will helping us in identify errors Then we will explain how several ENCs do their job and how puppet communicates with them We will learn how PuppetDB collects data generated by Puppet It also enables advanced Puppet features like exported resources and can be the foundation for other applications that use Puppet's data By the end of the book we will have learned the best debugging tips for Puppet and PuppetServer Style and approach This is a quick paced guide packed with real world examples and solutions to obstacles in your Puppet infrastructure Mastering Puppet Thomas Uphill, 2016-02-25 Master Puppet for configuration management of your systems in an enterprise deployment About This Book This book is an advanced guide to using and deploying Puppet 4 in your organization with a special focus on issues faced in larger enterprise deployments From an experienced author learn to deal with scaling performance and multiple developers with the help of real world examples This is the most up to date guide on Puppet and covers the advanced concepts of Puppet 4 Who This Book Is For This book is for those who have intermediate knowledge of Puppet and are looking to deploy it in their

environment Some idea how to write simple modules for configuration management with Puppet is a prerequisite for this book What You Will Learn Scale out your Puppet infrastructure using proxying techniques Automate your code promotion workflow using Git and r10k Solve real world problems using public modules from the Puppet Forge Use Hiera to separate the data of your configuration from the code of your configuration Write your own custom facts in Ruby Extend Puppet with your own custom facts modules and types Use exported resources to orchestrate change between machines Debug a puppetserver using Java techniques In Detail Puppet is a configuration management system and a language It was written for and by system administrators to manage large numbers of systems efficiently and prevent configuration drifts Mastering Puppet deals with the issues faced when scaling out Puppet to handle large numbers of nodes It will show you how to fit Puppet into your enterprise and allow many developers to work on your Puppet code simultaneously In addition you will learn to write custom facts and roll your own modules to solve problems Next popular options for performing reporting and orchestration tasks will be introduced in this book Moving over to troubleshooting techniques which will be very useful The concepts presented are useful to any size organization By the end of the book you will know how to deal with problems of scale and exceptions in your code automate workflows and support multiple developers working simultaneously Style and approach This book is a step wise guide packed with examples to help you configure complex systems in Puppet Cookbook - Third Edition Thomas Uphill, John Arundel, 2015-02-20 This book is for anyone who builds and administers servers especially in a web operations context It requires some experience of Linux systems administration including familiarity with the command line file system and text editing No programming experience is required DevOps: Puppet, Docker, and Kubernetes Thomas Uphill, John Arundel, Neependra Khare, Hideto Saito, Hui-Chuan Chloe Lee, Ke-Jou Carol Hsu, 2017-03-31 Get hands on recipes to automate and manage Linux containers with the Docker 1 6 environment and jump start your Puppet development About This Book Successfully deploy DevOps with proven solutions and recipes Automate your infrastructure with Puppet and combine powerful DevOps methods Deploy and manage highly scalable applications using Kubernetes streamline the way you manage your applications Who This Book Is For This Learning Path is for developers system administrators and DevOps engineers who want to use Puppet Docker and Kubernetes in their development QA or production environments This Learning Path assumes experience with Linux administration and requires some experience with command line usage and basic text file editing What You Will Learn Discover how to build high availability Kubernetes clusters Deal with inherent issues with container virtualization and container concepts Create services with Docker to enable the swift development and deployment of applications Make optimum use of Docker in a testing environment Create efficient manifests to streamline your deployments Automate Puppet master deployment using Git hooks r10k and PuppetDB In Detail With so many IT management and DevOps tools on the market both open source and commercial it s difficult to know where to start DevOps is incredibly powerful when implemented correctly and here s how to get it done This Learning Path covers

three broad areas Puppet Docker and Kubernetes This Learning Path is a large resource of recipes to ease your daily DevOps tasks We begin with recipes that help you develop a complete and expert understanding of Puppet s latest and most advanced features Then we provide recipes that help you efficiently work with the Docker environment Finally we show you how to better manage containers in different scenarios in production using Kubernetes This course is based on these books Puppet Cookbook Third Edition Docker Cookbook Kubernetes Cookbook Style and approach This easy to follow tutorial style guide teaches you precisely how to configure complex systems in Puppet and manage your containers using Kubernetes

Puppet: Mastering Infrastructure Automation Felix Frank, Martin Alfke, Alessandro Franceschi, Jaime Soriano Pastor, Thomas Uphillis, 2017-06-13 Start pulling the strings of your IT infrastructure effectively with Puppet learn how to configure customize and manage your systems more intelligently in an enterprise deployment About This Book Step by step instructions to jump start your Puppet deployment and automate your IT configurations Design implement and deploy Puppet in your infrastructure and tackle everyday IT infrastructure challenges Gain expert understanding of Puppet's latest and most advanced features Who This Book Is For If you re an experienced IT professional and a new Puppet user this course will provide you with all you need to know to go from installation to advanced automation What You Will Learn Write and employ individual Puppet manifests Understand how Puppet implements system abstraction Use Puppet to manage network cloud and virtualization devices Manage and test the Puppet code workflow Tweak hack and adapt the Puppet extension points Use exported resources to orchestrate change between machines Debug a puppetserver using Java techniques In Detail Puppet is a configuration management tool that allows you to automate all your IT configurations giving you control It was written for and by system administrators to manage large numbers of systems efficiently and prevent configuration drifts Puppet gives you control of what you do to each node when you do it and how you do it This Learning Path will take you from the basics of Puppet to extending it and then mastering it We will start off with a primer on Puppet its installation and get a sneak peek under its hood We will then move on to designing and deploying your Puppet architecture learning best practices for writing reusable and maintainable code and executing testing and deploying Puppet across your systems Finally we will deal with problems of scale and exceptions in your code automate workflows and support multiple developers working simultaneously This course is based on the following books Puppet 4 Essentials Second Edition Extending Puppet Second Edition Mastering Puppet Second Edition Style and approach This learning path follows a practical approach starting from the basic commands to advanced aspects Through a series of examples you will learn the most important skills essential to manage your IT Mastering Puppet 5 Ryan Russell-Yates, Jason Southgate, 2018-09-29 Leverage Puppet 5 for infrastructure effectively medium to large scale enterprise deployment Key FeaturesUse and deploy Puppet 5 irrespective the size of your organizationScaling performance improvements and managing multiple developer requestsTroubleshooting techniques tips and tricks to make the most of Puppet 5Book Description Puppet is a configuration management system and a language

written for and by system administrators to manage a large number of systems efficiently and prevent configuration drift The core topics this book addresses are Puppet's latest features and mastering Puppet Enterprise You will begin by writing a new Puppet module gaining an understanding of the guidelines and style of the Puppet community Following on from this you will take advantage of the roles and profiles pattern and you will learn how to structure your code Next you will learn how to extend Puppet and write custom facts functions types and providers in Ruby and also use the new features of Hiera 5 You will also learn how to configure the new Code Manager component and how to ensure code is automatically deployed to multiple Puppet servers Next you will learn how to integrate Puppet with Jenkins and Git to build an effective workflow for multiple teams and use the new Puppet Tasks feature and the latest Puppet Orchestrator language extensions Finally you will learn how to scale and troubleshoot Puppet By the end of the book you will be able to deal with problems of scale and exceptions in your code automate workflows and support multiple developers working simultaneously What you will learnSolve problems using modules and the roles and profiles patternExtend Puppet with custom facts functions types and providersUse Hiera 5 and Code Manager r10k to separate code from dataContinuously integrate your code using Jenkins Git and automated testingUse exported resources and the new Puppet Orchestration featuresExplore Puppet Discovery features and their useTroubleshoot various parts of the Puppet Enterprise infrastructureScale up and scale out Puppet infrastructure using various techniquesWho this book is for If you are a system administrator or developer who has used Puppet in production and are looking for ways to easily use Puppet in an enterprise environment this book is for you Some knowledge of writing simple configuration management modules would be necessary Extending Puppet Alessandro Franceschi, Jaime Soriano Pastor, 2016-06-27 Start pulling the strings of your infrastructure with Puppet learn how to configure customize and manage your systems more intelligently About This Book Explore the wider Puppet ecosystem of useful tools Design and manage your Puppet architecture for optimum performance Write more efficient code that keeps your infrastructure more robust Who This Book Is For If you are a Puppet user this book will help you on different levels If you a beginner we summarize the key Puppet components and give you the elements to have a broader vision For more experienced users you will be surprised by with topics on designing implementing adapting and deploying Puppet architectures If you are expert you will find topics and information that is rarely exposed in other books giving you an insight into Puppet's future and its usage on alternative devices What You Will Learn Learn the principles of Puppet language and ecosystem Extract the features of Hiera and PuppetDB s power usage Explore the different approaches to Puppet architecture design Use Puppet to manage network cloud and virtualization devices Manage and test the Puppet code workflow Tweak hack and adapt the Puppet extension points Get a run through of the strategies and patterns to introduce Puppet automation Master the art of writing reusable modules In Detail Puppet has changed the way we manage our systems but Puppet itself is changing and evolving and so are the ways we are using it To tackle our IT infrastructure challenges and avoid common errors when designing our

architectures an up to date practical and focused view of the current and future Puppet evolution is what we need With Puppet you define the state of your IT infrastructure and it automatically enforces the desired state This book will be your guide to designing and deploying your Puppet architecture It will help you utilize Puppet to manage your IT infrastructure Get to grips with Hiera and learn how to install and configure it before learning best practices for writing reusable and maintainable code You will also be able to explore the latest features of Puppet 4 before executing testing and deploying Puppet across your systems As you progress Extending Puppet takes you through higher abstraction modules along with tips for effective code workflow management Finally you will learn how to develop plugins for Puppet as well as some useful techniques that can help you to avoid common errors and overcome everyday challenges Style and approach This is a collection of specific information about multiple topics related to Puppet and its ecosystem Starting from a review of the very basics to more advanced topics mixing practical advice with important theory and broader perspective along with implementation details Learning Puppet Security Jason Slagle, 2015-03-27 If you are a security professional whose workload is increasing or a Puppet professional looking to increase your knowledge of security or even an experienced systems administrator then this book is for you This book will take you to the next level of security automation using Puppet The book requires no prior knowledge of Puppet to get started Learning Puppet Jussi Heinonen, 2015-08-31 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 Mastering Puppet for Large Infrastructures ,2018 Puppet is a configuration management system that automates IT deployments allowing administrators to keep machines consistent and up to date Master Puppet and overcome issues faced in larger deployments with these practical tutorials that shows real world examples of Puppet in action Packt Publishing instructor Thomas Uphill shows how to create a Puppet server machine from scratch and use PuppetDB to store facts resource information reports and exported resources He also shows how to generate reports leverage public modules from Puppet Forge or GitHub for custom configurations and check the syntax of code with two tools puppet lint or puppet parser validate Plus learn about Puppet best practices such as adhering to the community style guide This course was created by Packt Publishing We are honored to host this training in our library Puppet 5 Cookbook Thomas Uphill, 2018-06-28 Write custom plugins for Puppet including facts providers and functions Key Features Grasp recipes that work with centralized and decentralized deployments Explore language differences and enhancements anticipated in Puppet version 5 x Gain expert understanding of Puppet s latest and most advanced features Book Description Puppet is a configuration management system that automates all your IT configurations giving you control of managing each node Puppet 5 Cookbook will take you through Puppet s latest and most advanced features including Docker containers Hiera and AWS Cloud Orchestration Updated with the latest advancements and best practices this book delves into various aspects of writing good Puppet code which includes using Puppet community style checking your manifests with puppet lint and learning community best practices with an emphasis on real world implementation You will learn to set up install and create your first manifests with version control and also learn about various sysadmin tasks including managing configuration files using Augeas and generating files from snippets and templates As the book progresses you ll explore virtual resources and use Puppet's resource scheduling and auditing features In the concluding chapters you'll walk through managing applications and writing your own resource types providers and external node classifiers By the end of this book you will have learned to report log and debug your system What you will learn Discover the latest and most advanced

features of Puppet Master techniques to deal with centralized and decentralized Puppet deployments Use exported resources and forge modules to configure and deploy applications Create efficient manifests to streamline your deployments Automate deployment of puppet environment using git hooks Deploy AWS instances and Docker containers with Puppet Make Puppet reliable performant and scalable Who this book is for Puppet 5 Cookbook is for anyone who builds and administers servers especially in a web operations context You ll need some experience of Linux systems administration including familiarity with the command line filesystem and text editing No prior programming experience is required **Puppet Cookbook - Third Edition** Thomas Uphill,2015-02-20 Vagrant Virtual Development Environment Cookbook Chad Thompson, 2015-02-26 If you are a software developer or administrator who wishes to create simple reusable environments using Vagrant this book is the perfect choice for you Whether you are a system administrator with extensive experience in virtualization or a developer wishing to create development scripts for cloud deployment you will find easy to follow recipes and techniques in this book that will allow you to create robust and reproducible virtual environments Essentials Felix Frank, Martin Alfke, 2015-12-11 Acquire skills to manage your IT infrastructure effectively with Puppet About This Book Breeze through Puppet 4 s key features and performance improvements to bring real advantage to your IT infrastructure Discover Puppet best practices to help you avoid common mistakes and pitfalls Blitz through easy to follow examples to get to grips with Puppet and succeed with everyday IT automation Who This Book Is For If you re an experienced IT professional and a new Puppet user this book will provide you with all you need to know to go from installation to advanced automation in no time at all Get a rapid introduction to the essential topics and then tackle Puppet for advanced automation What You Will Learn Write and employ individual Puppet manifests Understand how Puppet implements system abstraction Deploy the Puppet master and agents Leverage and extend Facter to summarize your systems Create modular and reusable Puppet code Extend your code base with publicly available Puppet modules Use the modern features of Puppet 4 Separate logic from data using Hiera In Detail Puppet is a configuration management tool that allows you to automate all your IT configurations giving you control over what you do to each Puppet Agent in a network and when and how you do it In this age of digital delivery and ubiquitous Internet presence it s becoming increasingly important to implement scalable and portable solutions not only in terms of software but also the systems that run it The free Ruby based tool Puppet has established itself as the most successful solution to manage any IT infrastructure Ranging from local development environments through complex data center setups to scalable cloud implementations Puppet allows you to handle them all with a unified approach Puppet 4 Essentials Second Edition gets you started rapidly and intuitively as you ll put Puppet s tools to work right away It will also highlight the changes associated with performance improvements as well as the new language features in Puppet 4 We ll start with a quick introduction to Puppet to get you managing your IT systems quickly You will then learn about the Puppet Agent that comes with an all in one AIO package and can run on multiple systems Next

we ll show you the Puppet Server for high performance communication and passenger packages As you progress through the book the innovative structure and approach of Puppet will be explained with powerful use cases The difficulties that are inherent to a complex and powerful tool will no longer be a problem for you as you discover Puppet s fascinating intricacies By the end of the book you will not only know how to use Puppet but also its companion tools Facter and Hiera and will be able to leverage the flexibility and expressive power implemented by their tool chain Style and approach This quick learning guide for Puppet follows a practical approach starting with some basic commands that you can use from the shell right away It comprises a series of examples that will get you familiar with the most important aspects of Puppet in a flash

Mastering Puppet Thomas Uphill, 2014-01-01 Presented in an easy to follow step by step tutorial format and packed with examples this book will lead you through making the best out of Puppet in an enterprise environment If you are a system administrator or developer who has used Puppet in production and are looking for ways to easily use Puppet in an enterprise environment this book is for you This book assumes an intermediate knowledge of Puppet and is intended for those writing modules or deploying Puppet in an enterprise environment Predictive Data Security using AI Hiren Kumar Thakkar, Mayank Swarnkar, Robin Singh Bhadoria, 2022-12-01 This contributed volume consists of 11 chapters that specifically cover the security aspects of the latest technologies such as Blockchain IoT and DevOps and how to effectively deal with them using Intelligent techniques Moreover machine learning ML and deep learning DL algorithms are also not secured and often manipulated by attackers for data stealing This book also discusses the types of attacks and offers novel solutions to counter the attacks on ML and DL algorithms This book describes the concepts and issues with figures and the supporting arguments with facts and charts In addition to that the book provides the comparison of different security solutions in terms of experimental results with tables and charts Besides the book also provides the future directions for each chapter and novel alternative approaches wherever applicable Often the existing literature provides domain specific knowledge such as the description of security aspects However the readers find it difficult to understand how to tackle the application specific security issues This book takes one step forward and offers the security issues current trends and technologies supported by alternate solutions Moreover the book provides thorough guidance on the applicability of ML and DL algorithms to deal with application specific security issues followed by novel approaches to counter threats to ML and DL algorithms The book includes contributions from academicians researchers security experts security architectures and practitioners and provides an in depth understanding of the mentioned issues **Puppet: Mastering Infrastructure** Automation Felix Frank, Martin Alfke, Alessandro Franceschi, 2017-06-13 Start pulling the strings of your IT infrastructure effectively with Puppet learn how to configure customize and manage your systems more intelligently in an enterprise deployment About This Book Step by step instructions to jump start your Puppet deployment and automate your IT configurations Design implement and deploy Puppet in your infrastructure and tackle everyday IT infrastructure challenges

Gain expert understanding of Puppet's latest and most advanced featuresWho This Book Is ForIf you're an experienced IT professional and a new Puppet user this course will provide you with all you need to know to go from installation to advanced automation What You Will Learn Write and employ individual Puppet manifests Understand how Puppet implements system abstraction Use Puppet to manage network cloud and virtualization devices Manage and test the Puppet code workflow Tweak hack and adapt the Puppet extension points Use exported resources to orchestrate change between machines Debug a puppetserver using Java techniquesIn DetailPuppet is a configuration management tool that allows you to automate all your IT configurations giving you control It was written for and by system administrators to manage large numbers of systems efficiently and prevent configuration drifts Puppet gives you control of what you do to each node when you do it and how you do it This Learning Path will take you from the basics of Puppet to extending it and then mastering it We will start off with a primer on Puppet its installation and get a sneak peek under its hood We will then move on to designing and deploying your Puppet architecture learning best practices for writing reusable and maintainable code and executing testing and deploying Puppet across your systems Finally we will deal with problems of scale and exceptions in your code automate workflows and support multiple developers working simultaneously This course is based on the following books 1 Puppet 4 Essentials Second Edition 2 Extending Puppet Second Edition 3 Mastering Puppet Second Edition Style and approach This learning path follows a practical approach starting from the basic commands to advanced aspects Through a series of examples you will learn the most important skills essential to manage your IT infrastructure effectively Mastering Puppet 6 for Large *Infrastructures* Bob Hendry, 2020 Configure servers in large infrastructures with ease using Puppet About This Video Learn advanced configuration techniques using PuppetDB Manage complex Puppet code with the Code Manager Use Puppet s advanced features to manage jobs through orchestration In Detail Puppet is a configuration management system that helps you automate all your IT configurations giving you control of what you do to each node when you do it and how you do it This course will take your knowledge of Puppet to an advanced level and covers the latest and most advanced Puppet features You will explore advanced techniques to deal with centralized and decentralized Puppet deployments and take control of your servers and desktops Via interesting examples learn how to automate Puppet deployment for configuration management and to automate every aspect of your systems including provisioning deployment and change management You will integrate Puppet with Jenkins and Git to build an effective workflow for multiple teams and use the new Puppet Tasks feature and the latest Puppet Orchestrator language extensions By the end of this course you will be confident and skilled enough to scale and troubleshoot Puppet and overcome issues faced in larger deployments with real world examples

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