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Exam 70-412 Configuring Advanced Windows Server 2012 Services
Fibre Channel Storage Area Networks
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Unix and Linux Mastering Ansible
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FINANCIAL MANAGEMENT - STUDY TEXT (EPUB).
Red Hat RHCSA/RHCE 7 Cert Guide
Learning Ansible 2
Learn OpenShift
The Terraform Book
Database System Concepts

Terraform: Up & Running

The APPLIED THEATRE series is a major innovation in applied theatre scholarship: each book presents new

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ways of seeing and critically reflecting on this dynamic and vibrant field. Volumes offer a theoretical framework and introductory survey of the field addressed, combined with a range of case studies illustrating and critically engaging with practice. Series Editors: Sheila Preston and Michael Balfour

Applied Theatre: Economies addresses a notoriously problematic area: applied theatre's relationship to the economy and the ways in which socially committed theatre makers fund, finance or otherwise resource their work. Part One addresses longstanding concerns in the field about the effects of economic conditions and funding relationships on applied theatre practice. It considers how applied theatre's relationship with local and global economies can be understood from different theoretical and philosophical perspectives. It also examines a range of ways in which applied theatre can be resourced, identifying key issues and seeking possibilities for theatre makers to sustain their work without undermining their social and artistic values. The international case studies in Part Two give vivid insights into the day-to-day challenges of resourcing applied theatre work in Chile, Canada, the UK, New Zealand, Hong Kong and the US. The authors examine critical issues or points of tension that have arisen in a particular funding relationship or from specific economic activities. Each study also illuminates ways in which applied theatre makers can bring artistic and social justice principles to bear on financial and organizational processes.

Extending Ansible

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In this video, Ron Hipschman introduces you to today's Unix essentials. You'll learn the essentials of the operating system and learn the most common Unix commands and concepts so that Unix can do the hard work for you. You'll see how to use directories and files, work with a shell, and create and edit files. You'll then learn how to manipulate files, configure a Unix environment, and run—and even write—scripts. The video is wrapped in a unique interface that allows you to jump to any topic and also bookmark individual sections for later review. The unique “Watch and Work” mode shrinks the video into a small window to allow you to work alongside in Unix and Linux. Project files used in the lessons are included on the disc so you can practice what you've learned, and interactive review questions help reinforce freshly gained knowledge. Duration: 3 HR User Level:

Beginning/Intermediate Closed-Captioning in English
System Requirements: Mac: OS X 10.7.5+ and Safari 6.0+ Hardware: DVD-ROM drive Please Note: • This DVD-ROM can be viewed on your computer, but it will NOT play in a DVD movie player. • This course uses pop-ups; please enable pop-ups in your browser. For more information on how to enable pop-ups, please see our Learn By Video FAQ page at <http://www.peachpit.com/LBVFAQ>

The Official Ubuntu Server Book

Ansible is a simple, but powerful, server and configuration management tool. Learn to use Ansible effectively, whether you manage one server--or thousands.

Erp: A Managerial Perspective

The best Audience for this book will be those who has just started their way towards Automation and interested in Ansible. This books also shares authors' experience and approach in Automating your infrastructure with Ansible.

The Object Data Standard

Ubuntu Linux--the most popular Linux distribution on the planet--preserves the spirit embodied in the ancient African word ubuntu, which means both "humanity to others" and "I am what I am because of who we all are." Ubuntu won the Linux Journal Reader's Choice Award for best Linux distribution and is consistently the top-ranked Linux variant on DistroWatch.com. The reason this distribution is so widely popular is that Ubuntu is designed to be useful, usable, customizable, and always available for free worldwide. Ubuntu Hacks is your one-stop source for all of the community knowledge you need to get the most out of Ubuntu: a collection of 100 tips and tools to help new and experienced Linux users install, configure, and customize Ubuntu. With this set of hacks, you can get Ubuntu Linux working exactly the way you need it to. Learn how to: Install and test-drive Ubuntu Linux. Keep your system running smoothly Turn Ubuntu into a multimedia powerhouse: rip and burn discs, watch videos, listen to music, and more Take Ubuntu on the road with Wi-Fi wireless networking, Bluetooth, etc. Hook up multiple displays and enable your video card's 3-D acceleration Run

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Ubuntu with virtualization technology such as Xen and VMware Tighten your system's security Set up an Ubuntu-powered server Ubuntu Hacks will not only show you how to get everything working just right, you will also have a great time doing it as you explore the powerful features lurking within Ubuntu. "Put in a nutshell, this book is a collection of around 100 tips and tricks which the authors choose to call hacks, which explain how to accomplish various tasks in Ubuntu Linux. The so called hacks range from down right ordinary to the other end of the spectrum of doing specialised things More over, each and every tip in this book has been tested by the authors on the latest version of Ubuntu (Dapper Drake) and is guaranteed to work. In writing this book, it is clear that the authors have put in a lot of hard work in covering all facets of configuring this popular Linux distribution which makes this book a worth while buy." -- Ravi Kumar, Slashdot.org

Ansible for AWS

Gain hands-on experience of installing OpenShift Origin 3.9 in a production configuration and managing applications using the platform you built Key Features Gain hands-on experience of working with Kubernetes and Docker Learn how to deploy and manage applications in OpenShift Get a practical approach to managing applications on a cloud-based platform Explore multi-site and HA architectures of OpenShift for production Book Description Docker containers transform application delivery technologies to make them faster and more reproducible, and to reduce the

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amount of time wasted on configuration. Managing Docker containers in the multi-node or multi-datacenter environment is a big challenge, which is why container management platforms are required. OpenShift is a new generation of container management platforms built on top of both Docker and Kubernetes. It brings additional functionality to the table, something that is lacking in Kubernetes. This new functionality significantly helps software development teams to bring software development processes to a whole new level. In this book, we'll start by explaining the container architecture, Docker, and CRI-O overviews. Then, we'll look at container orchestration and Kubernetes. We'll cover OpenShift installation, and its basic and advanced components. Moving on, we'll deep dive into concepts such as deploying application OpenShift. You'll learn how to set up an end-to-end delivery pipeline while working with applications in OpenShift as a developer or DevOps. Finally, you'll discover how to properly design OpenShift in production environments. This book gives you hands-on experience of designing, building, and operating OpenShift Origin 3.9, as well as building new applications or migrating existing applications to OpenShift. What you will learn

- Understand the core concepts behind containers and container orchestration tools
- Understand Docker, Kubernetes, and OpenShift, and their relation to CRI-O
- Install and work with Kubernetes and OpenShift
- Understand how to work with persistent storage in OpenShift
- Understand basic and advanced components of OpenShift, including security and networking
- Manage deployment strategies and application's migration in OpenShift
- Understand and

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design OpenShift high availability Who this book is for
The book is for system administrators, DevOps engineers, solutions architects, or any stakeholder who wants to understand the concept and business value of OpenShift.

Computing Concepts with Java Essentials

This is a must for the serious Photoshop user! Power, Speed & Automation explores how to customize and automate Photoshop to increase your speed and productivity. With numerous step-by-step instructions, the authors-two of Adobe's own software developers!-walk you through the steps to best tailor Photoshop's interface to your personal workflow; write and apply Actions; and use batching and scripts to process large numbers of images quickly and automatically. You will learn how to build your own dialogs and panels to improve your production workflows in Photoshop, the secrets of changing keyboard shortcuts and menus, and ways to tune your system for optimal performance. Writing new processes using JavaScript is also covered, as well as leveraging Variables with data sets. Learn how to get more work done? more easily and quickly? with this essential guide! *This book can be used with any version of Photoshop through CS6!*

Learning CentOS

Most websites on the internet are powered by a CentOS server. CentOS is a very popular and lightweight version of Linux with a ten year support

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cycle. Due to the strong response from my first book on the topic, Learning Ubuntu, I decided to release another title. Learning CentOS, starts at the basics and provides three options to get started with the operating system. The reader will learn how to use SSH, setup a server on a VPS or Virtual Machine, install the popular LAMP stack for web servers, and will also learn how to install the most popular content management platform, WordPress, towards the end of the book. We start by learning how to install packages, manage users, and navigating our CentOS server by the CLI or Command Line Interface. If you are looking for a new skill or want to expand upon your current knowledge, this book serves as a great tool to get started and reference down the road.

Topics Include: What is Linux and CentOS 7? Methods to Install CentOS 7 and Get Started. Setting Up CentOS on a Virtual Private Server (DigitalOcean or Linode) Setting Up CentOS on a Virtual Machine Using (Oracle VirtualBox) Installing CentOS on a Virtual Machine Getting Familiar with the Command Line Interface or CLI Logging into CentOS and Learning General System Navigation Creating New Users Checking System Resource Status Making Directories and Files Editing, Moving, Copying, and Deleting Files Installing LAMP (Apache, MySQL/MariaSQL, PHP) Installing Sendmail Managing the Server from the Browser Permission Settings, Groups, and Types Adding a Database Installing Packages Setting Up and Configuring WordPress Understanding wget and rsync Changing File and Directory Ownership and Permission Settings

Ansible: Up and Running

Rather than focusing on a specific software title, the authors explain the theories which are true for any system, and so provide a solid and structured background for aspiring software developers to build upon. With a new design and new features within the text, the book is now even easier to follow and the examples and exercises have also been restructured to improve the knowledge flow to the student. The accessible approach to systems analysis and design is suitable for computer science students on any introductory course, or for those coming from other disciplines with an interest in software development. The 'just-a-line' case study which runs throughout the book takes a clear line from systems design, through development to implementation and release and provides coverage of project management techniques and testing and crisis management. The book is supported by an Online Learning Centre with many resources for students and lecturers. - The well-established and highly regarded presentation and writing style is clear and compelling for both the student and the lecturer. - There are many examples and exercises, especially in areas often found challenging, like normalisation. -

Supervised Learning with Python

This book is your concise guide to Ansible, the simple way to automate apps and IT infrastructure. In less than 250 pages, this book takes you from knowing nothing about configuration management to

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understanding how to use Ansible in a professional setting. You will learn how to create an Ansible playbook to automatically set up an environment, ready to install an open source project. You'll extract common tasks into roles that you can reuse across all your projects, and build your infrastructure on top of existing open source roles and modules that are available for you to use. You will learn to build your own modules to perform actions specific to your business. By the end you will create an entire cluster of virtualized machines, all of which have your applications and all their dependencies installed automatically. Finally, you'll test your Ansible playbooks. Ansible can do as much or as little as you want it to. Ansible: From Beginner to Pro will teach you the key skills you need to be an Ansible professional. You'll be writing roles and modules and creating entire environments without human intervention in no time at all – add it to your library today. What You Will Learn Learn why Ansible is so popular and how to download and install it Create a playbook that automatically downloads and installs a popular open source project Use open source roles to complete common tasks, and write your own specific to your business Extend Ansible by writing your own modules Test your infrastructure using Test Kitchen and ServerSpec Who This Book Is For Developers that currently create development and production environments by hand. If you find yourself running apt-get install regularly, this book is for you. Ansible adds reproducibility and saves you time all at once. Ansible: From Beginner to Pro is great for any developer wanting to enhance their skillset and learn new tools.

Software Systems Development

Design and architect resilient OpenShift clusters and gain a keen understanding of how hundreds of projects are integrated into a powerful solution. While there are many OpenShift resources available for developers, this book focuses on the key elements of infrastructure and operations that teams need when looking to integrate and maintain this platform. You'll review important concepts, such as repeatable deployment techniques, advanced OpenShift RBAC capabilities, monitoring clusters, and integrating with external services. You'll also see how to run specialized workloads in OpenShift and how to deploy non-web based applications on the platform, all designed to help cultivate best practices as your organization continue evolve in microservices architectures. OpenShift has become the main enterprise Kubernetes distribution and its market penetration continues to growth at rapid rate. While OpenShift's documentation provides a great list of configuration options to work with the platform, it can be a daunting task to wade through. Architecting and Operating OpenShift Clusters breaks this content down into clear and useful concepts to provide you with a solid understanding of the OpenShift internal architecture. What You'll Learn Operate high availability in muti-tenant OCP clusters Understand OpenShift SDN models, capabilities, and storage classes Integrate OCP with existing data center capabilities and CI/CD pipelines Support advanced capabilities like: Istio, Multus, Kubernetes Operators, hybrid deployments Who This Book Is For Cloud

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architects, OpenShift cluster administrators, and teams supporting developers in OpenShift environments who have a basic understanding of this platform and microservices architectures.

Spring Security

Terraform has become a key player in the DevOps world for defining, launching, and managing infrastructure as code (IaC) across a variety of cloud and virtualization platforms, including AWS, Google Cloud, Azure, and more. This hands-on second edition, expanded and thoroughly updated for Terraform version 0.12 and beyond, shows you the fastest way to get up and running. Gruntwork cofounder Yevgeniy (Jim) Brikman walks you through code examples that demonstrate Terraform's simple, declarative programming language for deploying and managing infrastructure with a few commands. Veteran sysadmins, DevOps engineers, and novice developers will quickly go from Terraform basics to running a full stack that can support a massive amount of traffic and a large team of developers. Explore changes from Terraform 0.9 through 0.12, including backends, workspaces, and first-class expressions Learn how to write production-grade Terraform modules Dive into manual and automated testing for Terraform code Compare Terraform to Chef, Puppet, Ansible, CloudFormation, and Salt Stack Deploy server clusters, load balancers, and databases Use Terraform to manage the state of your infrastructure Create reusable infrastructure with Terraform modules Use advanced Terraform syntax to

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achieve zero-downtime deployment

Applied Theatre: Economies

A simple way to provision and manage your Amazon Cloud infrastructure

About This Book- Get started with AWS management for infrastructure engineers- Explore techniques to set up and manage your private cloud using Ansible- A practical guide to help you manage AWS-based applications and infrastructure using Ansible

Who This Book Is For If you are an infrastructure engineer, system administrator, or Dev Ops engineer, this book is for you. You will find this book helpful if you have previous experience with Linux systems administration, including familiarity with the command line, file system, and text editing. Prior basic knowledge of Amazon Web Services and some experience with Ansible is assumed.

What You Will Learn- Set up your own AWS account and get started with the AWS console- Use Ansible Playbook to configure and launch EC2 instances- Delve deeper into the AWS cloud infrastructure and create and manage VPC- Provision Amazon Relational Database Service (RDS) with Ansible- Manage files in an Amazon Simple Storage Service (S3) bucket using Ansible- Extend Ansible's functionality in the AWS environment- Use Ansible to provision ELB and Auto Scaling groups- Manage IAM users, groups, roles, and keys- See how to refine and chain together AWS tools using Ansible

In Detail Looking to get a simple and efficient way to manage your Amazon Cloud infrastructure? Ansible is exactly what you need. This book will show you how to use Ansible's cloud

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modules to easily provision and manage AWS resources including EC2, VPC, RDS, S3, ELB, ElastiCache, and Route 53. We'll take you beyond the basics of Ansible, showing you real-world examples of AWS infrastructure automation and management with detailed steps, complete code, and screen captures from the AWS console. The example projects inside this title will help you grasp the process leading to full AWS automation. From a single WordPress site to a highly available and scalable WordPress site, we'll demonstrate the power of using Ansible to provision and automate AWS-based infrastructure deployment. Style and approach This hands-on guide will help you get acquainted with techniques to implement AWS for your private cloud.

Power, Speed & Automation with Adobe Photoshop

Database System Concepts, 5/e, is intended for a first course in databases at the junior or senior undergraduate, or first-year graduate, level. In addition to basic material for a first course, the text contains advanced material that can be used for course supplements, or as introductory material for an advanced course. The authors assume only a familiarity with basic data structures, computer organization, and a high-level programming language such as Java, C, or Pascal. Concepts are presented as intuitive descriptions, and many are based on the running example of a bank enterprise. Important theoretical results are covered, but formal proofs are omitted. In place of proofs, figures and examples are

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used to suggest why a result is true. The fundamental concepts and algorithms covered in the book are often based on those used in existing commercial or experimental database systems. The aim is to present these concepts and algorithms in a general setting that is not tied to one particular database system. Details of particular commercial database systems are discussed in the case studies which constitute Part 8 of the book. The fifth edition of Database System Concepts retains the overall style of prior editions while evolving the content and organization to reflect the changes that are occurring in the way databases are designed, managed, and used.

Learning Chef

Among the many configuration management tools available, Ansible has some distinct advantages—it's minimal in nature, you don't need to install anything on your nodes, and it has an easy learning curve. With this updated second edition, you'll learn how to be productive with this tool quickly, whether you're a developer deploying code to production or a system administrator looking for a better automation solution. Authors Lorin Hochstein and René Moser show you how to write playbooks (Ansible's configuration management scripts), manage remote servers, and explore the tool's real power: built-in declarative modules. You'll discover that Ansible has the functionality you need—and the simplicity you desire. Manage Windows machines, and automate network device configuration Manage your fleet from your web browser with Ansible Tower Understand how Ansible

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differs from other configuration management systems Use the YAML file format to write your own playbooks Work with a complete example to deploy a non-trivial application Deploy applications to Amazon EC2 and other cloud platforms Create Docker images and deploy Docker containers with Ansible This book is best read start to finish, with later chapters building on earlier ones. Because it's written in a tutorial style, you can follow along on your own machine. Most examples focus on web applications.

Ubuntu Hacks

Red Hat RHCE(TM) 8 Cert Guide is designed to help you pass the newest version of the Hat Certified Engineer exam for Red Hat Enterprise Linux 8, and master the skills you need to automate Linux and execute common system administration tasks with Red Hat(R) Ansible(R) Engine. The most comprehensive and time-efficient RHCE 8 prep guide available, it's also an extraordinarily cost-effective complement to other training, including the author's own RHCE Complete Video Course. Authored by a leading Red Hat trainer, consultant, and speaker, it presents focused, straight-to-the-point coverage of every exam topic, including: Performing Core Red Hat system administration tasks Understanding Ansible core components Installing and configuring Ansible control nodes Configuring Ansible managed nodes Administering scripts Performing system administration tasks with Ansible modules Working with roles Using advanced Ansible features such as templates and Ansible Vault From start to finish, this

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guide is organized to help you focus your study time where you need the most help, so you can retain more, and earn higher scores. It offers: Step-by-step chapter labs to help you practice what you've just learned Pre-exam theoretical exam to help you decide if you're ready for the real exam Two realistic RHCE sample exams delivered through Pearson's state-of-the-art test engine Pre-chapter "Do I Know This Already" (DIKTA) quizzes to assess your knowledge of each chapter's content, so you can decide how much time to spend on each section Foundation Topics sections thoroughly explaining concepts and theory, and linking them to real-world configurations and commands Key Topics icons flagging every figure, table, or list you absolutely must understand and remember End of chapter Glossary terms Chapter-ending Exam Preparation sections delivering even more exercises and troubleshooting scenarios

Ansible for IT Experts

The Fibre Channel Association is a group of companies involved in developing devices and technologies used with Fibre Channel, a very high-speed bus technology capable of bi-directional data transfer at rates in excess of one gigabit per second. Describes how to use Fibre Channel technology to connect between storage devices and network servers for maximum data transfer Authoring association is a group of companies involved in developing devices and technologies used with Fibre Channel Discusses cutting edge technology capable of bi-directional data transfer at rates in excess of one

gigabit per second

Computer Networking and the Internet

This is the Lab Manual to accompany Exam 70-412 Configuring Advanced Windows Server 2012 Services. This 70-412 Configuring Advanced Windows Server 2012 Services textbook covers the third of three exams required for Microsoft Certified Solutions Associate (MCSA): Windows Server 2012 certification. This course will help validate the skills and knowledge necessary to administer a Windows Server 2012 Infrastructure in an enterprise environment. The three MCSA exams collectively validate the skills and knowledge necessary for implementing, managing, maintaining and provisioning services and infrastructure in a Windows Server 2012 environment. This Microsoft Official Academic Course is mapped to the 70-412 Configuring Advanced Windows Server 2012 Services exam objectives. This textbook focuses on real skills for real jobs and prepares students to prove mastery of Advanced Windows Server 2012 Services such as advanced configuring tasks necessary to deploy, manage, and maintain a Windows Server 2012 infrastructure. It covers such skills as fault tolerance, certificate services, and identity federation. In addition, this book also covers such valuable skills as: Implementing Advanced Network Services Implementing Advanced File Services Implementing Dynamic Access Control Implementing Network Load Balancing Implementing Failover Clustering Implementing Disaster Recovery Implementing Active Directory Certificate Services

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(ADCS) Implementing Active Directory Federation Services (ADFS) The MOAC IT Professional series is the Official from Microsoft, turn-key Workforce training program that leads to professional certification and was authored for college instructors and college students. MOAC gets instructors ready to teach and students ready for work by delivering essential resources in 5 key areas: Instructor readiness, student software, student assessment, instruction resources, and learning validation. With the Microsoft Official Academic course program, you are getting instructional support from Microsoft; materials that are accurate and make course delivery easy. Request your sample materials today.

Ansible Quick Start Guide

Professional IT practitioners need not only the appropriate technical skills, but also a broad understanding of the context in which they operate. This book provides a unique introduction to: social, legal, financial, organizational and ethical issues in the context of the IT industry; the role of professional codes of conduct and ethics; and key legislation. It is designed to accompany the BCS Professional Examination Core Diploma Module: Professional Issues in Information Systems Practice.

DevOps for SharePoint

Discover how to efficiently deploy and customize Ansible in the way your platform demands About This Book Get the first book on the market that maximizes

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the functionalities of Ansible Master the skill of extending Ansible by deep diving into its modules and plugins Work through this step-by-step guide to customizing Ansible according to your requirements Who This Book Is For This book is perfect for developers and administrators who are familiar with Ansible and Python programming, but have no knowledge of how to customize Ansible. What You Will Learn Get a thorough understanding of Ansible modules Find out everything about plugins that fit in the Ansible architecture Get to grips with designing modules and handling errors Work with data structures Distribute Ansible extensions using PyPi and Git submodules Get to know the various distribution methods of modules and plugins In Detail Ansible is an IT automation tool that lets you manage your Infrastructure as a Code. It helps you deploy your applications and manage configurations, thus making life easier. Ansible, in most ways, is self sufficient to address most of your requirements. Ideally, standard modules, libraries, or plugins are used to automate a given IT platform. Customizing Ansible can be done by custom module and plugin development. This book shows you how to automate most of the tasks in your IT environment, thus minimizing the need to manually perform scheduled tasks and extend your Ansible implementation by developing customized modules and plugins. You'll begin by getting an understanding of the fundamental aspects of extending the Ansible framework, such as custom functions and reusable modules. You'll then progress to building custom plugins and extensions using the fundamental building blocks explained earlier. We'll also show you how to automate some

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tasks using scripts. Finally, we'll demonstrate how these extensions can be seamlessly integrated into existing Ansible installations and explain how to conduct unit testing on these extensions to ensure they work as desired. Style and approach This book is a learning book on the fundamentals of Ansible framework and how it can be leveraged to extend it using the modules and plugins.

The Internet Book

Several enterprises today are in the midst of a total transformation. No matter what, information is the key driver of business decisions, organizations, organizational survival and growth. And as businesses grow larger, better and faster, what decides their continued evolution is how good they are at designing and implementing enterprise systems. Enterprise Resources Planning (ERP) has evolved from what was earlier Material Resources Planning, to a stage today when companies are investing a lot of resources. This book conceived and developed by an experienced professional who is well-known in India and abroad, is a repository of information.

Architecting and Operating OpenShift Clusters

Ubuntu Server is a complete, free server operating system that just works, with the extra Ubuntu polish, innovation, and simplicity that administrators love. Now, there's a definitive, authoritative guide to getting up and running quickly with the newest, most

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powerful versions of Ubuntu Server. Written by leading members of the Ubuntu community, The Official Ubuntu Server Book, Third Edition, covers all you need to know to make the most of Ubuntu Server, whether you're a beginner or a battle-hardened senior systems administrator. The authors cover Ubuntu Server from start to finish: installation, basic administration and monitoring, security, backup, troubleshooting, system rescue, and much more. They walk through deploying each of the most common server applications, from file and print services to state-of-the-art, cost-saving virtualization and cloud computing. In addition, you'll learn how to

- Make the most of Ubuntu Server's latest, most powerful technologies
- Discover easy, fast ways to perform key administration tasks
- Automate Ubuntu installs, no matter how many servers you're installing
- Quickly set up low-cost Web servers and e-mail
- Protect your server with Ubuntu's built-in and optional security tools
- Minimize downtime with fault tolerance and clustering
- Master proven, step-by-step server and network troubleshooting techniques
- Walk through rescuing an Ubuntu server that won't boot
- Deploy your own Ubuntu servers in the cloud

Exam 70-412 Configuring Advanced Windows Server 2012 Services

Rather than exhaustively cover the entire language, the author focuses on a subset of Java--a lean and practical core that is manageable, yet detailed enough to create powerful Java applets. As readers master the basics of Java, they'll be developing solid

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programming skills that will increase effectiveness no matter which language they work with.

Fibre Channel Storage Area Networks

Design, develop, and solve real world automation and orchestration needs by unlocking the automation capabilities of Ansible About This Book Discover how Ansible works in detail Explore use cases for Ansible's advanced features including task delegation, fast failures, and serial task execution Extend Ansible with custom modules, plugins, and inventory sources Who This Book Is For This book is intended for Ansible developers and operators who have an understanding of the core elements and applications but are now looking to enhance their skills in applying automation using Ansible. What You Will Learn Understand Ansible's code and logic flow Safeguard sensitive data within Ansible Access and manipulate complex variable data within Ansible playbooks Handle task results to manipulate change and failure definitions Organize Ansible content into a simple structure Craft a multi-tier rollout playbook utilizing load balancers and manipulating your monitoring system Utilize advanced Ansible features to orchestrate rolling updates with almost no service disruptions Troubleshoot Ansible failures to understand and resolve issues Extend Ansible with custom modules, plugins, or inventory sources In Detail Automation is critical to success in the world of DevOps. How quickly and efficiently an application deployment can be automated, or a new infrastructure can be built up, can be the difference between a successful product or

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a failure. Ansible provides a simple yet powerful automation engine. Beyond the basics of Ansible lie a host of advanced features which are available to help you increase efficiency and accomplish complex orchestrations with ease. This book provides you with the knowledge you need to understand how Ansible works at a fundamental level and leverage its advanced capabilities. You'll learn how to encrypt Ansible content at rest and decrypt data at runtime. You will master the advanced features and capabilities required to tackle the complex automation challenges of today and beyond. You will gain detailed knowledge of Ansible workflows, explore use cases for advanced features, craft well thought out orchestrations, troubleshoot unexpected behaviour, and extend Ansible through customizations. Finally, you will discover the methods used to examine and debug Ansible operations, helping you to understand and resolve issues. Style and approach A clear, practical guide that covers best practise, system architecture and design aspects that will help you master Ansible with ease.

Ansible

Gain a thorough understanding of supervised learning algorithms by developing use cases with Python. You will study supervised learning concepts, Python code, datasets, best practices, resolution of common issues and pitfalls, and practical knowledge of implementing algorithms for structured as well as text and images datasets. You'll start with an introduction to machine learning, highlighting the differences between

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supervised, semi-supervised and unsupervised learning. In the following chapters you'll study regression and classification problems, mathematics behind them, algorithms like Linear Regression, Logistic Regression, Decision Tree, KNN, Naïve Bayes, and advanced algorithms like Random Forest, SVM, Gradient Boosting and Neural Networks. Python implementation is provided for all the algorithms. You'll conclude with an end-to-end model development process including deployment and maintenance of the model. After reading Supervised Learning with Python you'll have a broad understanding of supervised learning and its practical implementation, and be able to run the code and extend it in an innovative manner. What You'll Learn Review the fundamental building blocks and concepts of supervised learning using Python Develop supervised learning solutions for structured data as well as text and images Solve issues around overfitting, feature engineering, data cleansing, and cross-validation for building best fit models Understand the end-to-end model cycle from business problem definition to model deployment and model maintenance Avoid the common pitfalls and adhere to best practices while creating a supervised learning model using Python Who This Book Is For Data scientists or data analysts interested in best practices and standards for supervised learning, and using classification algorithms and regression techniques to develop predictive models.

Data Warehousing Essentials

Ansible Playbook Essentials

Learn everything you need to manage and handle your systems with ease with Ansible 2 using this comprehensive guide About This Book Simplify the automation of applications and systems using the newest version of Ansible Get acquainted with fundamentals of Ansible such as playbooks, modules, and various testing strategies A comprehensive, learning guide that provides you with great skills to automate your organization's infrastructure using Ansible 2 Who This Book Is For The book is for sys admins who want to automate their organization's infrastructure using Ansible 2. No prior knowledge of Ansible is required. What You Will Learn Set up Ansible 2 and an Ansible 2 project in a future-proof way Perform basic operations with Ansible 2 such as creating, copying, moving, changing, and deleting files, and creating and deleting users Deploy complete cloud environments using Ansible 2 on AWS and DigitalOcean Explore complex operations with Ansible 2 (Ansible vault, e-mails, and Nagios) Develop and test Ansible playbooks Write a custom module and test it In Detail Ansible is an open source automation platform that assists organizations with tasks such as configuration management, application deployment, orchestration, and task automation. With Ansible, even complex tasks can be handled easier than before. In this book, you will learn about the fundamentals and practical aspects of Ansible 2 by diving deeply into topics such as installation (Linux, BSD, and Windows Support), playbooks, modules, various testing strategies, provisioning, deployment,

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and orchestration. In this book, you will get accustomed with the new features of Ansible 2 such as cleaner architecture, task blocks, playbook parsing, new execution strategy plugins, and modules. You will also learn how to integrate Ansible with cloud platforms such as AWS. The book ends with the enterprise versions of Ansible, Ansible Tower and Ansible Galaxy, where you will learn to interact Ansible with different OSES to speed up your work to previously unseen levels. By the end of the book, you'll be able to leverage the Ansible parameters to create expeditious tasks for your organization by implementing the Ansible 2 techniques and paradigms. **Style and approach** This book is a step-by-step learning guide on the all new Ansible 2, which is an ideal configuration management tool.

Hybrid Cloud Management with Red Hat CloudForms

Design automation blueprints using Ansible's playbooks to orchestrate and manage your multi-tier infrastructure. **About This Book** Get to grips with Ansible's features such as orchestration, automatic node discovery, and data encryption. Create data-driven, modular and reusable automation code with Ansible roles, facts, variables, and templates. **A step-by-step approach** to automating and managing system and application configurations effectively using Ansible's playbooks. **Who This Book Is For** If you are a systems or automation engineer who intends to automate common infrastructure tasks, deploy applications, and use orchestration to configure

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systems in a co-ordinated manner, then this book is for you. Some understanding of the Linux/UNIX command line interface is expected. What You Will Learn Write simple tasks and plays Organize code into a reusable, modular structure Separate code from data using variables and Jinja2 templates Run custom commands and scripts using Ansible's command modules Control execution flow based on conditionals Integrate nodes and discover topology information about other nodes in the cluster Encrypt data with ansible-vault Create environments with isolated configurations to match application development workflow Orchestrate infrastructure and deploy applications in a coordinated manner In Detail Ansible combines configuration management, orchestration, and parallel command execution into a single tool. Its batteries-included approach and built-in module library makes it easy to integrate it with cloud platforms, databases, and notification services without requiring additional plugins. Playbooks in Ansible define the policies your systems under management enforce. They facilitate effective configuration management rather than running ad hoc scripts to deploy complex applications. This book will show you how to write a blueprint of your infrastructure encompassing multi-tier applications using Ansible's playbooks. Beginning with the basic concepts such as plays, tasks, handlers, inventory, and the YAML syntax that Ansible uses, you will see how to organize your code into a modular structure. Building on this, you will master techniques to create data-driven playbooks with variables, templates, logical constructs, and encrypted data. This book will also take you through advanced clustering concepts

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such as discovering topology information, managing multiple environments, and orchestration. By the end of this book, you will be able to design solutions to your automation and orchestration problems using playbooks quickly and efficiently. Style and approach This book follows a step-by-step approach, with the concepts explained in a conversational and easy-to-follow style. Each topic is explained sequentially in the process of creating a course. A comprehensive explanation of the basic and advanced features of Ansible playbooks is also included.

Ansible for DevOps

Get a hands-on introduction to the Chef, the configuration management tool for solving operations issues in enterprises large and small. Ideal for developers and sysadmins new to configuration management, this guide shows you to automate the packaging and delivery of applications in your infrastructure. You'll be able to build (or rebuild) your infrastructure's application stack in minutes or hours, rather than days or weeks. After teaching you how to write Ruby-based Chef code, this book walks you through different Chef tools and configuration management concepts in each chapter, using detailed examples throughout. All you need to get started is command-line experience and familiarity with basic system administration. Configure your Chef development environment and start writing recipes Create Chef cookbooks with recipes for each part of your infrastructure Use Test Kitchen to manage sandbox testing environments Manage single nodes

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with Chef client, and multiple nodes with Chef Server
Use data bags for storing shared global data between nodes
Simulate production Chef Server environments with Chef Zero
Classify different types of services in your infrastructure with roles
Model life stages of your application, including development, testing, staging, and production

Red Hat RHCE 8 (EX294) Cert Guide

Learn how to secure your Java applications from hackers using Spring Security 4.2
About This Book
Architect solutions that leverage the full power of Spring Security while remaining loosely coupled.
Implement various scenarios such as supporting existing user stores, user sign up, authentication, and supporting AJAX requests, Integrate with popular Microservice and Cloud services such as Zookeeper, Eureka, and Consul, along with advanced techniques, including OAuth, JSON Web Token's (JWT), Hashing, and encryption algorithms
Who This Book Is For
This book is intended for Java Web and/or RESTful webservice developers and assumes a basic understanding of creating Java 8, Java Web and/or RESTful webservice applications, XML, and the Spring Framework. You are not expected to have any previous experience with Spring Security.
What You Will Learn
Understand common security vulnerabilities and how to resolve them
Learn to perform initial penetration testing to uncover common security vulnerabilities
Implement authentication and authorization
Learn to utilize existing corporate infrastructure such as LDAP, Active Directory,

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Kerberos, CAS, OpenID, and OAuth Integrate with popular frameworks such as Spring, Spring-Boot, Spring-Data, JSF, Vaaden, jQuery, and AngularJS. Gain deep understanding of the security challenges with RESTful webservices and microservice architectures Integrate Spring with other security infrastructure components like LDAP, Apache Directory server and SAML In Detail Knowing that experienced hackers are itching to test your skills makes security one of the most difficult and high-pressured concerns of creating an application. The complexity of properly securing an application is compounded when you must also integrate this factor with existing code, new technologies, and other frameworks. Use this book to easily secure your Java application with the tried and trusted Spring Security framework, a powerful and highly customizable authentication and access-control framework. The book starts by integrating a variety of authentication mechanisms. It then demonstrates how to properly restrict access to your application. It also covers tips on integrating with some of the more popular web frameworks. An example of how Spring Security defends against session fixation, moves into concurrency control, and how you can utilize session management for administrative functions is also included. It concludes with advanced security scenarios for RESTful webservices and microservices, detailing the issues surrounding stateless authentication, and demonstrates a concise, step-by-step approach to solving those issues. And, by the end of the book, readers can rest assured that integrating version 4.2 of Spring Security will be a seamless endeavor from start to finish. Style and approach This practical step-by-step tutorial has

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plenty of example code coupled with the necessary screenshots and clear narration so that grasping content is made easier and quicker.

Unix and Linux

The Internet Book, Fifth Edition explains how computers communicate, what the Internet is, how the Internet works, and what services the Internet offers. It is designed for readers who do not have a strong technical background — early chapters clearly explain the terminology and concepts needed to understand all the services. It helps the reader to understand the technology behind the Internet, appreciate how the Internet can be used, and discover why people find it so exciting. In addition, it explains the origins of the Internet and shows the reader how rapidly it has grown. It also provides information on how to avoid scams and exaggerated marketing claims. The first section of the book introduces communication system concepts and terminology. The second section reviews the history of the Internet and its incredible growth. It documents the rate at which the digital revolution occurred, and provides background that will help readers appreciate the significance of the underlying design. The third section describes basic Internet technology and capabilities. It examines how Internet hardware is organized and how software provides communication. This section provides the foundation for later chapters, and will help readers ask good questions and make better decisions when salespeople offer Internet products and services. The final section

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describes application services currently available on the Internet. For each service, the book explains both what the service offers and how the service works.

About the Author Dr. Douglas Comer is a Distinguished Professor at Purdue University in the departments of Computer Science and Electrical and Computer Engineering. He has created and enjoys teaching undergraduate and graduate courses on computer networks and Internets, operating systems, computer architecture, and computer software. One of the researchers who contributed to the Internet as it was being formed in the late 1970s and 1980s, he has served as a member of the Internet Architecture Board, the group responsible for guiding the Internet's development. Prof. Comer is an internationally recognized expert on computer networking, the TCP/IP protocols, and the Internet, who presents lectures to a wide range of audiences. In addition to research articles, he has written a series of textbooks that describe the technical details of the Internet. Prof. Comer's books have been translated into many languages, and are used in industry as well as computer science, engineering, and business departments around the world. Prof. Comer joined the Internet project in the late 1970s, and has had a high-speed Internet connection to his home since 1981. He wrote this book as a response to everyone who has asked him for an explanation of the Internet that is both technically correct and easily understood by anyone. An Internet enthusiast, Comer displays INTRNET on the license plate of his car.

Mastering Ansible

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A data warehouse (DW) is a system used in computing for data analysis and reporting. It is a core component of business intelligence. It stores integrated historical and current data from one or more sources. Data can be characterized according to data integration, time-variance, subject orientation, volatility, granularity, etc. It is then arranged into groups, facts and aggregate facts. The sources of data are cleansed, catalogued, transformed and used for data mining, market research, decision support and online analytical processing. The ways to analyze or retrieve the data, transform, load and extract data and manage the data dictionary are essential components of a data warehousing system. Data warehouses can be designed using the bottom-up, top-down or hybrid design models. This book aims to shed light on some of the unexplored aspects of data warehousing. Most of the topics introduced herein cover new techniques and applications of this field. Those in search of information to further their knowledge will be greatly assisted by this textbook.

Professional Issues in Information Technology

Build, manage, and control an open hybrid cloud infrastructure using Red Hat CloudForms About This Book Understand the infrastructure management capabilities through monitoring and tracking techniques Control the hybrid cloud infrastructure using policies and define actions based on events and conditions Learn to view and use trends in the hybrid setup to perform capacity planning and optimization

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Who This Book Is For If you are an existing Red Hat administrator who is new to Red Hat Cloud Infrastructure and would like to manage and deploy Hybrid clouds, then this book is for you. Red Hat Linux administration experience is assumed. What You Will Learn Install and configure Red Hat CloudForms 3.1 in the Red Hat Enterprise Linux OpenStack platform Add Amazon EC2 and OpenStack as Cloud providers and adding VMware as an infrastructure provider Provision an EC2 instance Manage lifecycle of virtual machines and instances Create custom domains, namespaces, classes, schemas, instances, and invoke automation workflows Monitor and gather intelligence information about the Hybrid Cloud environment Get to know about supported APIs that can be used to integrate third-party systems with Red Hat CloudForms In Detail The increasing adoption of the Cloud has led to enterprises having a heterogeneous IT environment that consists of both private and public cloud infrastructures, and in most cases existing virtualized infrastructures as well. As building and managing such a diverse IT infrastructure is a major challenges, Red Hat CloudForms provides a unified, consistent, and comprehensive management platform. With features like cloud intelligence dashboard, self-service portal, lifecycle management, policy-based governance, quotas, capacity management, monitoring and reporting, Red Hat CloudForms lets you manage your hybrid cloud infrastructure from a single pane of glass. This book will equip you with a hands-on approach on how to build a hybrid cloud environment and then manage, control, and gain operational insights into it. The book starts by showing you how to install and configure Red Hat

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CloudForms, and add infrastructure and cloud providers to build the hybrid cloud environment. Next, you will learn to provision virtual machines and instances to these platform providers, and manage and control the lifecycle of these resources. You will also get to know about automating provisioning. Moving on, you'll get to grips with the management of resources using policies, events, conditions, and actions. You'll also learn to monitor these resources from a single pane of glass. Finally, the book covers viewing capacity and utilization trends to optimize the overall hybrid cloud infrastructure, and also introduces you to supported APIs. By end of the book, you will be able to deploy and use Red Hat CloudForms. Style and approach This book is an easy-to-follow guide that explains all topics in a sequential manner, building upon each other to finally create and manage the Hybrid Cloud environment.

Home Automation with Intel Galileo

Configure Ansible and start coding YAML playbooks using the appropriate modules Key Features Create and use Ansible Playbook to script and organise management tasks Benefit from the Ansible community roles and modules to resolve complex and niche tasks Write configuration management code to automate infrastructure Book Description Configuration Management (CM) tools help administrators reduce their workload. Ansible is one of the best Configuration Management tools, and can act as an orchestrator for managing other CMs. This book is the easiest way to learn how to use Ansible as

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an orchestrator and a Configuration Management tool. With this book, you will learn how to control and monitor computer and network infrastructures of any size, physical or virtual. You will begin by learning about the Ansible client-server architecture. To get started, you will set up and configure an Ansible server. You will then go through the major features of Ansible: Playbook and Inventory. Then, we will look at Ansible systems and network modules. You will then use Ansible to enable infrastructure automated configuration management, followed by best practices for using Ansible roles and community modules. Finally, you will explore Ansible features such as Ansible Vault, Ansible Containers, and Ansible plugins. What you will learn Implement Playbook YAML scripts and its capacities to simplify day-to-day tasks Setup Static and Dynamic Inventory Use Ansible predefined modules for Linux, Windows, networking, and virtualisation administration Organize and configure the host filesystem using storage and files modules Implement Ansible to enable infrastructure automated configuration management Simplify infrastructure administration Search and install new roles and enable them within Ansible Secure your data using Ansible Vault Who this book is for This book is targeted at System Administrators and Network Administrators who want to use Ansible to automate an infrastructure. No knowledge of Ansible is required.

FINANCIAL MANAGEMENT - STUDY TEXT (EPUB).

Trust the best-selling Cert Guide series from Pearson

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IT Certification to help you learn, prepare, and practice for exam success. Cert Guides are built with the objective of providing assessment, review, and practice to help ensure you are fully prepared for your certification exam. Master Red Hat RHCSA (EX200) and RHCE (EX300) exam topics Assess your knowledge with chapter-opening quizzes Review key concepts with exam preparation tasks Test yourself with 4 practice exams (2 RHCSA and 2 RHCE) Gain expertise and knowledge using the companion website, which contains over 40 interactive exercises, 4 advanced CLI simulations, 40 interactive quizzes and glossary quizzes (one for each chapter), 3 virtual machines and more. Red Hat RHCSA/RHCE 7 Cert Guide presents you with an organized test preparation routine through the use of proven series elements and techniques. “Do I Know This Already?” quizzes open each chapter and allow you to decide how much time you need to spend on each section. Exam topic lists make referencing easy. Chapter-ending labs help you drill on key concepts you must know thoroughly. Red Hat RHCSA/RHCE 7, Premium Edition eBook and Practice Test focuses specifically on the objectives for the newest Red Hat RHCSA (EX200) and RHCE (EX300) exams reflecting Red Hat Enterprise Linux 7. Expert Linux trainer and consultant Sander van Vugt shares preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. Well-regarded for its level of detail, assessment features, comprehensive design scenarios, and challenging

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review questions and exercises, this study guide helps you master the concepts and techniques that will allow you to succeed on the exam the first time. This study guide helps you master all the topics on the new RHCSA (EX200) and RHCE (EX300) exams, including Part 1: RHCSA Basic System Management: Installation, tools, text files, server connections; user, group, and permissions management; network configuration Operating Running Systems: Process management, VMs, package installation, task scheduling, logging, managing partitions and LVM logical volumes Advanced System Administration: Basic kernel management, basic Apache server configuration, boot procedures/troubleshooting Managing Network Services: Using Kickstart; managing SELinux; configuring firewalls, remote mounts, FTP, and time services Part 2: RHCE System Configuration/Management: External authentication/authorization, iSCSI SANs, performance reporting, optimization, logging, routing/advanced networking, Bash scripting System Security: Configuring firewalls, advanced Apache services, DNS, MariaDB, NFS, Samba, SMTP, SSH, and time synchronization

Red Hat RHCSA/RHCE 7 Cert Guide

Introducing data communications and computer networks, this revised and updated edition takes account of developments in the area. Coverage includes essential theory associated with digital transmission, interface standards, data compression and error detection methods.

Learning Ansible 2

This book is for anyone who wants to learn Intel Galileo for home automation and cross-platform software development. No knowledge of programming with Intel Galileo is assumed, but knowledge of the C programming language is essential.

Learn OpenShift

This completely revised work is a guide to future trends in object-oriented and database technology. It represents an important industry consensus on component technology for database products and languages that enable wide spread acceptance and adoption of object database technology

The Terraform Book

A hands-on, introductory book about managing infrastructure with Terraform. Start small and then build on what you learn to scale up to complex infrastructure. Written for both developers and sysadmins. Focuses on how to build infrastructure and applications with Terraform. The book contains:
Chapter 1: An Introduction to Terraform Chapter 2: Installing Terraform Chapter 3: Building our first application Chapter 4: Provisioning and Terraform Chapter 5: Collaborating with Terraform Chapter 6: Building a multi-environment architecture Chapter 7: Infrastructure testing Updated for Terraform 0.12!

Database System Concepts

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Deploy a SharePoint farm in a repeatable, predictable, and reliable fashion using Infrastructure as Code (IaC) techniques to automate provisioning. Savvy IT pros will learn how to use DevOps practices and open source tools to greatly reduce costs, and streamline management operations for SharePoint farms deployed via Amazon Web Services (AWS), Azure, or on premise. DevOps for SharePoint will help you navigate the complex challenges of deploying and managing SharePoint Server farms. You will learn how to reduce time-consuming tasks and errors when generating development, testing, or production environments. And you will benefit from learning proven methods to apply Microsoft updates with minimal downtime and productivity loss. Whether you are a SharePoint architect, IT pro, or developer helping customers with the SharePoint platform, this book will teach you the most useful DevOps practices to tackle those issues and broaden your skill set.

What You'll Learn Understand the basics of the most popular open source tools—Vagrant, Packer, Terraform, and Ansible—and how to use them in the context of deploying and scaling a SharePoint farm

- Use Vagrant to build SharePoint development environments in less than an hour, and add automated testing
- Use Packer to create a “golden image” with preconfigured settings, and then use it as the base image in your Terraform configuration for both AWS and Azure farms
- Use Terraform to scale your SharePoint farm topology
- Use Red Hat's Ansible Playbooks to perform configuration management on your farm
- Use Terraform to deploy immutable infrastructure environments using IaC (Infrastructure

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as Code) Use InSpec 2.0 to stay in compliance by testing your cloud infrastructure Use Ansible to apply Microsoft updates and patches Who This Book Is For IT pros and developers who are looking to expand their knowledge and take a modern approach by using open source technologies to work with Microsoft products. Experience installing SharePoint, and a basic understanding of either Azure or AWS, is helpful.

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