

Mastering Ansible Udemey

If you ally need such a referred **Mastering Ansible Udemey** book that will have the funds for you worth, get the certainly best seller from us currently from several preferred authors. If you want to humorous books, lots of novels, tale, jokes, and more fictions collections are also launched, from best seller to one of the most current released.

You may not be perplexed to enjoy every ebook collections Mastering Ansible Udemey that we will very offer. It is not going on for the costs. Its just about what you dependence currently. This Mastering Ansible Udemey , as one of the most working sellers here will utterly be in the course of the best options to review.

Mastering Ansible - James Freeman 2019-03-25
Design, develop, and solve real-world automation and orchestration problems by unlocking the automation capabilities of Ansible. Key FeaturesTackle complex automation challenges with the newly added features in Ansible 2.7Book Description Automation is essential for success in the modern world of DevOps. Ansible provides a simple, yet powerful,

automation engine for tackling complex automation challenges. This book will take you on a journey that will help you exploit the latest version's advanced features to help you increase efficiency and accomplish complex orchestrations. This book will help you understand how Ansible 2.7 works at a fundamental level and will also teach you to leverage its advanced capabilities. Throughout this book, you will

learn how to encrypt Ansible content at rest and decrypt data at runtime. Next, this book will act as an ideal resource to help you master the advanced features and capabilities required to tackle complex automation challenges. Later, it will walk you through workflows, use cases, orchestrations, troubleshooting, and Ansible extensions. Lastly, you will examine and debug Ansible operations, helping you to understand and resolve issues. By the end of the book, you will be able to unlock the true power of the Ansible automation engine and tackle complex, real-world actions with ease. What you will learn

Gain an in-depth understanding of how Ansible works under the hood Fully automate Ansible playbook executions with encrypted data Access and manipulate variable data within playbooks Use blocks to perform failure recovery or cleanup Explore the Playbook debugger and the Ansible Console Troubleshoot

unexpected behavior effectively Work with cloud infrastructure providers and container systems Develop custom modules, plugins, and dynamic inventory sources Who this book is for This book is for Ansible developers and operators who have an understanding of its core elements and applications but are now looking to enhance their skills in applying automation using Ansible.

Flutter for Beginners - Alessandro Biessek 2019-09-12 A step-by-step guide to learning Flutter and Dart 2 for creating Android and iOS mobile applications Key Features Get up to speed with the basics of Dart programming and delve into Flutter development Understand native SDK and third-party libraries for building Android and iOS applications using Flutter Package and deploy your Flutter apps to achieve native-like performance Book Description Google Flutter is a cross-platform mobile framework that makes it easy

to write high-performance apps for Android and iOS. This book will help you get to grips with the basics of the Flutter framework and the Dart programming language. Starting from setting up your development environment, you'll learn to design the UI and add user input functions. You'll explore the navigator widget to manage app routes and learn to add transitions between screens. The book will even guide you through developing your own plugin and later, you'll discover how to structure good plugin code. Using the Google Places API, you'll also understand how to display a map in the app and add markers and interactions to it. You'll then learn to improve the user experience with features such as map integrations, platform-specific code with native languages, and personalized animation options for designing intuitive UIs. The book follows a practical approach and gives you access to all relevant code files hosted at [github.com/PacktPublishing/Fl](https://github.com/PacktPublishing/Flutter-for-Beginners)

utter-for-Beginners. This will help you access a variety of examples and prepare your own bug-free apps, ready to deploy on the App Store and Google Play Store. By the end of this book, you'll be well-versed with Dart programming and have the skills to develop your own mobile apps or build a career as a Dart and Flutter app developer. What you will learn

Understand the fundamentals of the Dart programming language

Explore the core concepts of the Flutter UI and how it compiles for multiple platforms

Develop Flutter plugins and widgets and understand how to structure plugin code appropriately

Style your Android and iOS apps with widgets and learn the difference between stateful and stateless widgets

Add animation to your UI using Flutter's `AnimatedBuilder` component

Integrate your native code into your Flutter codebase for native app performance

Who this book is for This book is for developers looking to learn Google's

revolutionary framework Flutter from scratch. No prior knowledge of Flutter or Dart is required; however, basic knowledge of any programming language will be helpful.

[Learning Elastic Stack 6.0](#) -

Pranav Shukla 2017-12-22

Deliver end-to-end real-time distributed data processing solutions by leveraging the power of Elastic Stack 6.0 Key Features - Get to grips with the new features introduced in Elastic Stack 6.0 - Get valuable insights from your data by working with the different components of the Elastic stack such as Elasticsearch, Logstash, Kibana, X-Pack, and Beats - Includes handy tips and techniques to build, deploy and manage your Elastic applications efficiently on-premise or on the cloud Book Description The Elastic Stack is a powerful combination of tools for distributed search, analytics, logging, and visualization of data from medium to massive data sets. The newly released Elastic Stack 6.0 brings new features and capabilities that empower

users to find unique, actionable insights through these techniques. This book will give you a fundamental understanding of what the stack is all about, and how to use it efficiently to build powerful real-time data processing applications. After a quick overview of the newly introduced features in Elastic Stack 6.0, you'll learn how to set up the stack by installing the tools, and see their basic configurations. Then it shows you how to use Elasticsearch for distributed searching and analytics, along with Logstash for logging, and Kibana for data visualization. It also demonstrates the creation of custom plugins using Kibana and Beats. You'll find out about Elastic X-Pack, a useful extension for effective security and monitoring. We also provide useful tips on how to use the Elastic Cloud and deploy the Elastic Stack in production environments. On completing this book, you'll have a solid foundational knowledge of the basic Elastic Stack functionalities. You'll

also have a good understanding of the role of each component in the stack to solve different data processing problems.

What you will learn -

Familiarize yourself with the different components of the Elastic Stack - Get to know the new functionalities introduced in Elastic Stack 6.0 - Effectively build your data pipeline to get data from terabytes or petabytes of data into Elasticsearch and Logstash for searching and logging - Use Kibana to visualize data and tell data stories in real-time - Secure, monitor, and use the alerting and reporting capabilities of Elastic Stack - Take your Elastic application to an on-premise or cloud-based production environment Who this book is for This book is for data professionals who want to get amazing insights and business metrics from their data sources. If you want to get a fundamental understanding of the Elastic Stack for distributed, real-time processing of data, this book will help you. A fundamental knowledge of JSON would be

useful, but is not mandatory. No previous experience with the Elastic Stack is required.

DevNet Associate DEVASC 200-901 Official Certification Guide - Chris Jackson
2020-05-25

DevNet Associate DEVASC 200-901 Official Certification Guide is Cisco's official, comprehensive self-study resource for Cisco's DEVASC 200-901 exam: your pathway to the DevNet Associate Certification demonstrating your knowledge of application development and automation on Cisco platforms. Written by Cisco experts based on Cisco's own internal training, it clearly explains the value of each technique, presents realistic use cases, introduces solution components, illuminates their inner workings, and shows how to execute on what you've learned in practice. Designed for all Cisco DevNet Associate candidates, it covers every DEVASC 200-901 objective concisely and logically, with extensive teaching features designed to promote retention and understanding. You'll find:

Pre-chapter quizzes to assess knowledge upfront and focus your study more efficiently
Foundation topics sections that explain concepts and configurations, and link theory to practice
Key topics sections calling attention to every figure, table, and list you must know
Exam Preparation sections with additional chapter review features
Final preparation chapter providing tools and a complete final study plan
A customizable practice test library
This guide offers comprehensive, up-to-date coverage of all DEVASC 200-901 topics related to:
Software development and design
Understanding and using APIs
Cisco platforms and development
Application deployment and security
Infrastructure and automation
Network fundamentals
Learn Ansible Quickly - Ahmed Alkabary 2020-12-25
Master Ansible Automation and learn how to automate your apps deployment and IT infrastructure operations.
Ansible is one of the most popular DevOps tools available

in the IT market. Key Features
Run Ansible Ad-Hoc commands. Deploy Files with Jinja2 templates. Create and run Ansible Playbooks. Use Ansible Vault to protect sensitive information. Use Ansible Galaxy to install and use Ansible roles. Learn various Ansible troubleshooting techniques.
Book Description
Learn Ansible Quickly is a fully practical hands-on guide for learning Ansible Automation. It will get you up and running with Ansible in no time. First, you will break the ice with Ansible by running very simple Ad-Hoc commands. Then, you will dive into the world of Ansible playbooks, variables, facts, registers, and loops. Also, you will learn how to use conditional statements in your Ansible playbooks. Moreover, you will explore how to use blocks to handle exceptions and failures in Ansible. In addition, you will get to install and use Ansible roles, so your playbooks look clean and unrepentive. Finally, you will learn various troubleshooting techniques in Ansible. By the

end of this book, you will have all the skills necessarily to develop state of the art Ansible playbooks that can automate any repetitive task you may encounter while working on Linux systems. What you will learn Run Ansible Ad-Hoc commands and Playbooks. Understand how to work with Ansible variables, Facts, Registers, and Loops. Make your Ansible Playbooks smarter with conditional statements. Use Blocks to handle exceptions and failures. Use Handlers to trigger tasks upon change. Who This Book Is For This book is an amazing preparation guide for anyone wants to pass the EX294 certification exam and become a Red Hat Certified Engineer (RHCE). If you are tired of spending countless hours doing the same tedious task on Linux over and over again then this book is for you! Learn Ansible Quickly will teach you all the skills you need to automate boring tasks in Linux. You will be much more efficient working on Linux after reading this book, more importantly,

you will get more sleep, I promise you! Learn Ansible Quickly does assume prior Linux knowledge (RHCSA Level) and that you have experience working on the Linux command line. Table of Contents Hello Ansible Running Ad-Hoc Commands Ansible Playbooks Ansible Variables, Facts, and Registers Ansible Loops Decision Making in Ansible Jinja2 Templates Ansible Vault Ansible Roles RHEL System Roles Managing Systems with Ansible Ansible Troubleshooting Final Sample Exam Knowledge Check Solutions *Mastering Ansible* - Jesse Keating 2015-11-24 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 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.

Mastering Python

Networking - Eric Chou

2020-01-30

New edition of the bestselling guide to mastering Python Networking, updated to Python 3 and including the latest on network data analysis, Cloud Networking, Ansible 2.8, and new libraries Key

FeaturesExplore the power of Python libraries to tackle difficult network problems efficiently and effectively, including pyATS, Nornir, and Ansible 2.8Use Python and Ansible for DevOps, network device automation, DevOps, and software-defined networkingBecome an expert in implementing advanced network-related tasks with Python 3Book Description Networks in your

infrastructure set the foundation for how your application can be deployed, maintained, and serviced. Python is the ideal language for network engineers to explore tools that were previously available to systems engineers and application developers. In Mastering Python Networking, Third edition, you'll embark on a Python-based journey to transition from traditional network engineers to network developers ready for the next-generation of networks. This new edition is completely revised and updated to work with Python 3. In addition to new chapters on network data analysis with ELK stack (Elasticsearch, Logstash, Kibana, and Beats) and Azure Cloud Networking, it includes updates on using newer libraries such as pyATS and Nornir, as well as Ansible 2.8. Each chapter is updated with the latest libraries with working examples to ensure compatibility and understanding of the concepts. Starting with a basic overview of Python, the book teaches

you how it can interact with both legacy and API-enabled network devices. You will learn to leverage high-level Python packages and frameworks to perform network automation tasks, monitoring, management, and enhanced network security followed by Azure and AWS Cloud networking. Finally, you will use Jenkins for continuous integration as well as testing tools to verify your network. What you will learn Use Python libraries to interact with your network Integrate Ansible 2.8 using Python to control Cisco, Juniper, and Arista network devices Leverage existing Flask web frameworks to construct high-level APIs Learn how to build virtual networks in the AWS & Azure Cloud Learn how to use Elastic Stack for network data analysis Understand how Jenkins can be used to automatically deploy changes in your network Use PyTest and Unittest for Test-Driven Network Development in networking engineering with Python Who this book is for

Mastering Python Networking, Third edition is for network engineers, developers, and SREs who want to use Python for network automation, programmability, and data analysis. Basic familiarity with Python programming and networking-related concepts such as Transmission Control Protocol/Internet Protocol (TCP/IP) will be useful.

Effective DevOps with AWS - Yogesh Raheja 2018-09-28 Scale and maintain outstanding performance in your AWS-based infrastructure using DevOps principles Key Features Implement continuous integration and continuous deployment pipelines on AWS Gain insight from an expert who has worked with Silicon Valley's most high-profile companies Implement DevOps principles to take full advantage of the AWS stack and services Book Description The DevOps movement has transformed the way modern tech companies work. Amazon Web Services (AWS), which has been at the forefront of the cloud computing revolution,

has also been a key contributor to the DevOps movement, creating a huge range of managed services that help you implement DevOps principles. *Effective DevOps with AWS, Second Edition* will help you to understand how the most successful tech start-ups launch and scale their services on AWS, and will teach you how you can do the same. This book explains how to treat infrastructure as code, meaning you can bring resources online and offline as easily as you control your software. You will also build a continuous integration and continuous deployment pipeline to keep your app up to date. Once you have gotten to grips with all this, we'll move on to how to scale your applications to offer maximum performance to users even when traffic spikes, by using the latest technologies, such as containers. In addition to this, you'll get insights into monitoring and alerting, so you can make sure your users have the best experience when using your service. In the concluding

chapters, we'll cover inbuilt AWS tools such as CodeDeploy and CloudFormation, which are used by many AWS administrators to perform DevOps. By the end of this book, you'll have learned how to ensure the security of your platform and data, using the latest and most prominent AWS tools. What you will learn

Implement automatic AWS instance provisioning using CloudFormationDeploy your application on a provisioned infrastructure with AnsibleManage infrastructure using TerraformBuild and deploy a CI/CD pipeline with Automated Testing on AWSUnderstand the container journey for a CI/CD pipeline using AWS ECSSMonitor and secure your AWS environmentWho this book is for

Effective DevOps with AWS is for you if you are a developer, DevOps engineer, or you work in a team which wants to build and use AWS for software infrastructure. Basic computer science knowledge is required to get the most out of this book.

Django for Beginners -

William S. Vincent 2021-12-16
Completely updated for Django 4.0! Django for Beginners is a project-based introduction to Django, the popular Python-based web framework. Suitable for total beginners who have never built a website before as well as professional programmers looking for a fast-paced guide to modern web development and Django fundamentals. In the book you'll learn how to:

- * Build 5 websites from scratch, including a Blog and Newspaper
- * Deploy online using security best practices
- * Customize the look and feel of your sites
- * Write tests and run them for all your code
- * Integrate user authentication, email, and custom user models
- * Add permissions and authorizations to make your app more secure

If you're curious about Python-based web development, Django for Beginners is a best-practices guide to writing and deploying your own websites quickly.

Mastering Palo Alto Networks - Tom Piens

2020-09-07

Set up next-generation firewalls from Palo Alto Networks and get to grips with configuring and troubleshooting using the PAN-OS platform Key Features Understand how to optimally use PAN-OS features Build firewall solutions to safeguard local, cloud, and mobile networks Protect your infrastructure and users by implementing robust threat prevention solutions Book Description To safeguard against security threats, it is crucial to ensure that your organization is effectively secured across networks, mobile devices, and the cloud. Palo Alto Networks' integrated platform makes it easy to manage network and cloud security along with endpoint protection and a wide range of security services. With this book, you'll understand Palo Alto Networks and learn how to implement essential techniques, right from deploying firewalls through to advanced troubleshooting. The book starts by showing you

how to set up and configure the Palo Alto Networks firewall, helping you to understand the technology and appreciate the simple, yet powerful, PAN-OS platform. Once you've explored the web interface and command-line structure, you'll be able to predict expected behavior and troubleshoot anomalies with confidence. You'll learn why and how to create strong security policies and discover how the firewall protects against encrypted threats. In addition to this, you'll get to grips with identifying users and controlling access to your network with user IDs and even prioritize traffic using quality of service (QoS). The book will show you how to enable special modes on the firewall for shared environments and extend security capabilities to smaller locations. By the end of this network security book, you'll be well-versed with advanced troubleshooting techniques and best practices recommended by an experienced security engineer and Palo Alto

Networks expert. What you will learn
Perform administrative tasks using the web interface and command-line interface (CLI)
Explore the core technologies that will help you boost your network security
Discover best practices and considerations for configuring security policies
Run and interpret troubleshooting and debugging commands
Manage firewalls through Panorama to reduce administrative workloads
Protect your network from malicious traffic via threat prevention
Who this book is for
This book is for network engineers, network security analysts, and security professionals who want to understand and deploy Palo Alto Networks in their infrastructure. Anyone looking for in-depth knowledge of Palo Alto Network technologies, including those who currently use Palo Alto Network products, will find this book useful. Intermediate-level network administration knowledge is necessary to get started with this cybersecurity

book.

Red Hat RHCSA 8 Cert Guide - Sander van Vugt
2019-11-04

This is the eBook version of the print title. Learn, prepare, and practice for Red Hat RHCSA 8 (EX200) exam success with this Cert Guide from Pearson IT Certification, a leader in IT Certification learning. Master Red Hat RHCSA 8 EX200 exam topics Assess your knowledge with chapter-ending quizzes Review key concepts with exam-preparation tasks Practice with four unique practice tests Learn from two full hours of video training from the author's Red Hat Certified System Administrator (RHCSA) Complete Video Course, 3rd Edition. Red Hat RHCSA 8 Cert Guide is a best-of-breed exam study guide. Leading Linux consultant, author, and instructor 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. The book presents you with an organized test-preparation routine through the use of proven series elements and techniques. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. Review questions help you assess your knowledge, and a final preparation chapter guides you through tools and resources to help you craft your final study plan. Well regarded for its level of detail, assessment features, and challenging review questions and exercises, this study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time, including Basic system management: Installation, tools, file management, text files, RHEL8 connections, user/group management, permissions, and network configuration Operating running systems: Managing software, processes, storage,

and advanced storage; working with systemd; scheduling tasks; and configuring logging

Advanced system

administration: Managing the kernel and boot procedures, essential troubleshooting, bash shell scripting Managing

network services: Configuring SSH, firewalls, and time

services; managing Apache

HTTP services and SE Linux;

and accessing network storage

Docker Deep Dive - Nigel

Poulton 2020

Giving you the confidence you need to take on Docker in the real world, this guide is the ultimate book for learning Docker, brought to you by Docker Captain and leading educator in the container ecosystem. --

Grokking the Java Interview

- Javin Paul 2021-01-26

Cracking Java Interview is not easy and one of the main reasons for that is Java is very vast. There are a lot of concepts and APIs to master to become a decent Java developer. Many people who are good at general topics like Data Structure and Algorithms,

System Design, SQL, and Database fail to crack the Java interview because they don't spend time to learn the Core

Java concepts and essential APIs and packages like Java

Collection Framework,

Multithreading, JVM Internals,

JDBC, Design Patterns, and

Object-Oriented Programming.

This book aims to fill that gap

and introduce you to classical

Java interview questions from

these topics. By going through

these questions and topic you

will not only expand your

knowledge but also get ready

for your Next Java interview. If

you are preparing for Java

interviews then I highly

recommend you to go through

these questions before your

telephonic or face-to-face

interviews, you will not only

gain confidence and knowledge

to answer the question but also

learn how to drive Java

interview in your favor. This is

the single most important tip I

can give you as a Java

developer. Always, remember,

your answers drive interviews,

and these questions will show

you how to drive Interviewer to

your strong areas. All the best for the Java interview and if you have any questions or feedback you can always contact me on twitter javinpaul (<http://twitter.com/javinpaul>) or comment on my blogs Javarevisited(<http://javarevisited.blogspot.com>) and Java67(<http://java67.c> [Salt Cookbook](#) - Anirban Saha 2015-07-27

Salt has become one of the major players in automation and configuration management solutions. This book starts with the basics of the tool, the procedures to get up and running with Salt and then moves on to configuring very simple but important details to receive optimal performance from the tool. It also walks you through Salt configurations for different infrastructure components and the details of the Salt modules for each of the components. The book also provides some common problem scenarios and how to troubleshoot them. With detailed configuration, their explanation and command line outputs of the module

execution, Salt Cookbook will help you to get up and running with Salt for all your infrastructural needs.

Ansible: Up and Running - Lorin Hochstein 2014-12-08

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. This practical guide shows you 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. Author Lorin Hochstein shows 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. Understand how Ansible differs from other configuration management systems Use the

YAML file format to write your own playbooks Learn Ansible's support for variables and facts Work with a complete example to deploy a non-trivial application Use roles to simplify and reuse playbooks Make playbooks run faster with ssh multiplexing, pipelining, and parallelism Deploy applications to Amazon EC2 and other cloud platforms Use Ansible to create Docker images and deploy Docker containers

[AWS Certified SysOps Administrator Official Study Guide](#) - Stephen Cole

2017-09-19

Comprehensive, interactive exam preparation and so much more The AWS Certified SysOps Administrator Official Study Guide: Associate Exam is a comprehensive exam preparation resource. This book bridges the gap between exam preparation and real-world readiness, covering exam objectives while guiding you through hands-on exercises based on situations you'll likely encounter as an AWS Certified SysOps Administrator. From

deployment, management, and operations to migration, data flow, cost control, and beyond, this guide will help you internalize the processes and best practices associated with AWS. The Sybex interactive online study environment gives you access to invaluable preparation aids, including an assessment test that helps you focus your study on areas most in need of review, and chapter tests to help you gauge your mastery of the material. Electronic flashcards make it easy to study anytime, anywhere, and a bonus practice exam gives you a sneak preview so you know what to expect on exam day. Cloud computing offers businesses a cost-effective, instantly scalable IT infrastructure. The AWS Certified SysOps Administrator - Associate credential shows that you have technical expertise in deployment, management, and operations on AWS. Study exam objectives Gain practical experience with hands-on exercises Apply your skills to real-world scenarios

Test your understanding with challenging review questions

Earning your AWS Certification is much more than just passing an exam—you must be able to perform the duties expected of an AWS Certified SysOps Administrator in a real-world setting. This book does more than coach you through the test: it trains you in the tools, procedures, and thought processes to get the job done well. If you're serious about validating your expertise and working at a higher level, the AWS Certified SysOps Administrator Official Study Guide: Associate Exam is the resource you've been seeking.

Learn Ansible - Russ

McKendrick 2018-06-28

Ansible is an IT automation and configuration management tool widely used for infrastructure, cloud, and network automation. Trends and surveys say that Ansible is the choice of tool among system administrators as it is so easy to use. In this book, you'll learn how to integrate Ansible into your day-to-day role as a system administrator, ...

Ansible Playbook Essentials

- Gourav Shah 2015-08-05

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 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 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.

Learn Bash Quickly -

Abhishek Prakash 2020-09-17

Master Bash Scripting and learn how to automate boring administrative Linux tasks. Key Features Create and run efficient Bash scripts

Implement Bash functions

Automate complex and

repetitive tasks Book

Description Learn Bash Quickly

is a fully practical hands-on

guide for learning bash

scripting. It will get you up and

running with bash scripting in

no time. First, you will break

the ice with Bash scripting by

creating and running a very

simple "Hello World" program.

Then, you will dive into the

world of Bash variables,

arguments, string, and arrays.

Also, you will learn how to use

conditional statements in your

bash script. Moreover, you will

explore various Bash looping

constructs and get to realize

how powerful they are. In addition, you will get to write Bash functions, so your code looks clean and unrepeatitive. Finally, you will see how you can use bash to automate some of the tedious tasks on Linux.

By the end of this book, you will have all the skills necessarily to develop state of the art bash scripts that can automate any repetitive task you may encounter while working on Linux systems.

What you will learn

Understand how to work with

Bash variables, arguments,

string, and arrays. Make your

Bash scripts smarter with

conditional statements. Analyse

various Bash looping

constructs. Design and create

recursive Bash functions.

Automate boring

administrative tasks. Who This

Book Is For If you are tired of

spending countless hours doing

the same tedious task on Linux

over and over again then this

book is for you! Learn Bash

Quickly will teach you all the

skills you need to automate

borings tasks in Linux. You will

be much more efficient

working on Linux after reading this book, more importantly, you will get more sleep, I promise you! Learn Bash Quickly does assume prior Linux knowledge and that you have experience working on the Linux command line. Table of Contents Hello World Bash Variables Bash Script Arguments Bash Arrays Basic Arithmetic Operations Bash Strings Decision Making in Bash Bash Loops Bash Functions Automation with Bash echo 'See you later!' Solutions to Bash Exercises

Learning Ansible -

Madhurranjan Mohaan
2014-11-27

If you want to learn how to use Ansible to automate an infrastructure, either from scratch or to augment your current tooling with Ansible, then this is the book for you. It has plenty of practical examples to help you get to grips with Ansible.

Python Network Programming
- Abhishek Ratan 2019-01-31

Power up your network applications with Python programming Key

FeaturesMaster Python skills to develop powerful network applicationsGrasp the fundamentals and functionalities of SDNDesign multi-threaded, event-driven architectures for echo and chat serversBook Description This Learning Path highlights major aspects of Python network programming such as writing simple networking clients, creating and deploying SDN and NFV systems, and extending your network with Mininet. You'll also learn how to automate legacy and the latest network devices. As you progress through the chapters, you'll use Python for DevOps and open source tools to test, secure, and analyze your network. Toward the end, you'll develop client-side applications, such as web API clients, email clients, SSH, and FTP, using socket programming. By the end of this Learning Path, you will have learned how to analyze a network's security vulnerabilities using advanced network packet capture and analysis techniques. This

Learning Path includes content from the following Packt products: Practical Network Automation by Abhishek Ratan Mastering Python Networking by Eric Chou Python Network Programming Cookbook, Second Edition by Pradeeban Kathiravelu, Dr. M. O. Faruque Sarker What you will learn Create socket-based networks with asynchronous models Develop client apps for web APIs, including S3 Amazon and Twitter Talk to email and remote network servers with different protocols Integrate Python with Cisco, Juniper, and Arista eAPI for automation Use Telnet and SSH connections for remote system monitoring Interact with websites via XML-RPC, SOAP, and REST APIs Build networks with Ryu, OpenDaylight, Floodlight, ONOS, and POX Configure virtual networks in different deployment environments Who this book is for If you are a Python developer or a system administrator who wants to start network programming, this Learning Path gets you a

step closer to your goal. IT professionals and DevOps engineers who are new to managing network devices or those with minimal experience looking to expand their knowledge and skills in Python will also find this Learning Path useful. Although prior knowledge of networking is not required, some experience in Python programming will be helpful for a better understanding of the concepts in the Learning Path.

Red Hat RHCSA/RHCE 7 Cert Guide - Sander van Vugt
2015-08-07

Trust the best-selling Cert Guide series from Pearson 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 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

Mastering Python

Networking - Eric Chou

2017-06-28

Become an expert in implementing advanced, network-related tasks with Python. About This Book Build the skills to perform all networking tasks using Python with ease Use Python for network device automation, DevOps, and software-defined

networking Get practical guidance to networking with Python Who This Book Is For If you are a network engineer or a programmer who wants to use Python for networking, then this book is for you. A basic familiarity with networking-related concepts such as TCP/IP and a familiarity with Python programming will be useful. What You Will Learn Review all the fundamentals of Python and the TCP/IP suite Use Python to execute commands when the device does not support the API or programmatic interaction with the device Implement automation techniques by integrating Python with Cisco, Juniper, and Arista eAPI Integrate Ansible using Python to control Cisco, Juniper, and Arista networks Achieve network security with Python Build Flask-based web-service APIs with Python Construct a Python-based migration plan from a legacy to scalable SDN-based network. In Detail This book begins with a review of the TCP/ IP protocol suite and

a refresher of the core elements of the Python language. Next, you will start using Python and supported libraries to automate network tasks from the current major network vendors. We will look at automating traditional network devices based on the command-line interface, as well as newer devices with API support, with hands-on labs. We will then learn the concepts and practical use cases of the Ansible framework in order to achieve your network goals. We will then move on to using Python for DevOps, starting with using open source tools to test, secure, and analyze your network. Then, we will focus on network monitoring and visualization. We will learn how to retrieve network information using a polling mechanism, flow-based monitoring, and visualizing the data programmatically. Next, we will learn how to use the Python framework to build your own customized network web services. In the last module, you will use Python for SDN, where you will use a

Python-based controller with OpenFlow in a hands-on lab to learn its concepts and applications. We will compare and contrast OpenFlow, OpenStack, OpenDaylight, and NFV. Finally, you will use everything you've learned in the book to construct a migration plan to go from a legacy to a scalable SDN-based network. Style and approach
An easy-to-follow guide packed with hands-on examples of using Python for network device automation, DevOps, and SDN.

Engineering DevOps - Marc Hornbeek 2019-12-06

This book is an engineering reference manual that explains "How to do DevOps?". It is targeted to people and organizations that are "doing DevOps" but not satisfied with the results that they are getting. There are plenty of books that describe different aspects of DevOps and customer user stories, but up until now there has not been a book that frames DevOps as an engineering problem with a step-by-step engineering

solution and a clear list of recommended engineering practices to guide implementors. The step-by-step engineering prescriptions can be followed by leaders and practitioners to understand, assess, define, implement, operationalize, and evolve DevOps for their organization. The book provides a unique collection of engineering practices and solutions for DevOps. By confining the scope of the content of the book to the level of engineering practices, the content is applicable to the widest possible range of implementations. This book was born out of the author's desire to help others do DevOps, combined with a burning personal frustration. The frustration comes from hearing leaders and practitioners say, "We think we are doing DevOps, but we are not getting the business results we had expected." Engineering DevOps describes a strategic approach, applies engineering implementation discipline, and focuses operational expertise

to define and accomplish specific goals for each leg of an organization's unique DevOps journey. This book guides the reader through a journey from defining an engineering strategy for DevOps to implementing The Three Ways of DevOps maturity using engineering practices: The First Way (called "Continuous Flow") to The Second Way (called "Continuous Feedback") and finally The Third Way (called "Continuous Improvement"). This book is intended to be a guide that will continue to be relevant over time as your specific DevOps and DevOps more generally evolves.

Mastering Ubuntu Server -

Jay LaCroix 2020-12-29

This is the third edition of the bestselling one-stop resource for sysadmins and DevOps professionals to learn, configure and use Ubuntu 20.04 for their day-to-day operations and deployments. Key FeaturesA hands-on book that will teach you how to deploy, maintain and troubleshoot Ubuntu

ServerLearn to leverage the improved performance and security-related aspects of Ubuntu Server 20.04 LTSNew chapters dedicated to exploring Ubuntu for cloudBook Description Ubuntu Server has taken data centers around the world by storm. Whether you're deploying Ubuntu for a large-scale project or for a small office, it is a stable, customizable, and powerful Linux distribution with innovative and cutting-edge features. For both simple and complex server deployments, Ubuntu's flexible nature can be easily adapted to meet to the needs of your organization. This third edition is updated to cover the advancements of Ubuntu 20.04 LTS and further train you to understand how to use Ubuntu Server, from initial deployment to creating production-ready resources for your network. The book begins with the concepts of user management, group management, and file system permissions. Continuing into managing storage volumes, you will learn how to format

storage devices, utilize logical volume management, and monitor disk usage. Later, you will learn how to virtualize hosts and applications, which will include setting up QEMU & KVM, as well as containerization with both Docker and LXD. As the book continues, you will learn how to automate configuration with Ansible, as well as take a look at writing scripts. Lastly, you will explore best practices and troubleshooting techniques when working with Ubuntu Server that are applicable to real-world scenarios. By the end of this Ubuntu Server book, you will be well-versed in Ubuntu server's advanced concepts and attain the required proficiency needed for Ubuntu Server administration. What you will learnManage users, groups, and permissionsOptimize the performance of system resourcesPerform disk encryption and decryption with Linux Unified Key Setup (LUKS)Set up Secure Shell (SSH) for remote access, and connect it to other nodesShare

directories using Samba and Network File System (NFS) Get familiar with scripting to improve command-line efficiency Configure VMs, containers, and orchestrate with MicroK8s and Kubernetes Automate server deployments with Ansible and cloud server deployments with Terraform Who this book is for The book is written to cater to sysadmins and DevOps professionals whose teams are planning to employ an Ubuntu/Linux environment for their development needs. Prior knowledge of Ubuntu is not required. However, it is assumed that you possess some IT admin, Linux, and shell scripting experience.

Ansible - Michael Heap
2016-09-27

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 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.

Puppet 2.7 Cookbook - John Arundel 2011-10-24

This book is written in a Cookbook style showing you how to set up and expand your Puppet infrastructure. It progresses through detailed information on the language and features, external tools, reporting, monitoring, and troubleshooting, and concludes

with many specific recipes for managing popular applications. The book assumes that the reader already has a working Puppet installation and perhaps has written some basic manifests or adapted some published modules. It also requires some experience of Linux systems administration, including familiarity with the command line, file system, and text editing. No programming experience is required.

Ansible for DevOps - Jeff Geerling 2020-08-05

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

Mastering Docker, Fourth Edition - RUSS. MCKENDRICK 2020-10-11

Socket.IO Cookbook - Tyson Cadenhead 2015-10-15

Over 40 recipes to help you create real-time JavaScript applications using the robust Socket.IO framework About This Book Create secure

WebSocket connections and real-time mobile applications using Socket.IO Devise efficient messaging systems between the server side and the client side A step-by-step implementation guide to help you create elements of Socket.IO application Who This Book Is For If you have some knowledge of JavaScript and Node.js and want to create awe-inspiring application experiences using real time communication, then this book is for you. Developers with knowledge of other scripting languages should also be able to easily follow along. What You Will Learn Build rich and interactive real-time dashboards using Socket.IO to pipe in data as it becomes available Design chat and multiple-person interfaces that leverage Socket.IO for communication Segment conversations to rooms and namespaces so that every socket doesn't have to receive every message Secure your data by implementing various authentication techniques, locking down the HTTP

referrer and using secure WebSockets Load balance across multiple server-side nodes and keep your WebSockets in sync using Redis, RabbitMQ or Memcached Stream binary data such as audio and video in real-time over a Socket.IO connection Create real-time experiences outside of the browser by integrating Socket.IO with hybrid mobile applications In Detail Socket.IO is a JavaScript library that provides you with the ability to implement real-time analytics, binary streaming, instant messaging, and document collaboration. It has two parts: a client-side library that runs in the browser, and a server-side library for node.js. Socket.IO is event-driven and primarily uses the WebSocket protocol that allows us to emit data bi-directionally from the server and the client. Socket.IO This book is a complete resource, covering topics from webSocket security to scaling the server-side of a Socket.IO application and everything in between. This book will provide

real-world examples of how secure bi-directional, full-duplex connections that can be created using Socket.IO for different environments. It will also explain how the connection vulnerabilities can be resolved for large numbers of users and huge amounts of data/messages. By the end of the book, you will be a competent Socket.IO developer. With the help of the examples and real-world solutions, you will learn to create fast, scalable, and dynamic real-time apps by creating efficient messaging systems between the server side and the client side using Socket.IO. Style and approach This book is written in a cookbook-style format and provides practical, immediately usable task-based recipes that show you how to create the elements of a Socket.IO application.

Network Programmability and Automation - Jason

Edelman 2018-02-02

Like sysadmins before them, network engineers are finding that they cannot do their work

manually anymore. As the field faces new protocols, technologies, delivery models, and a pressing need for businesses to be more agile and flexible, network automation is becoming essential. This practical guide shows network engineers how to use a range of technologies and tools—including Linux, Python, JSON, and XML—to automate their systems through code. Network programming and automation will help you simplify tasks involved in configuring, managing, and operating network equipment, topologies, services, and connectivity. Through the course of the book, you'll learn the basic skills and tools you need to make this critical transition. This book covers: Python programming basics: data types, conditionals, loops, functions, classes, and modules Linux fundamentals to provide the foundation you need on your network automation journey Data formats and models: JSON, XML, YAML, and YANG for networking Jinja

templating and its applicability for creating network device configurations The role of application programming interfaces (APIs) in network automation Source control with Git to manage code changes during the automation process How Ansible, Salt, and StackStorm open source automation tools can be used to automate network devices Key tools and technologies required for a Continuous Integration (CI) pipeline in network operations

The DevOps 2.1 Toolkit: Docker Swarm - Viktor Farcic
2017-05-10

Viktor Farcic's latest book, *The DevOps 2.1 Toolkit: Docker Swarm*, shows you how to successfully integrate Docker Swarm into your DevOps toolset. About This Book Expand your DevOps Toolkit with the DevOps thought leader, Viktor Farcic Build, test, deploy, and monitor services inside Docker Swarm clusters Translate your understanding to different hosting providers like AWS, Azure, and DigitalOcean Go

beyond simple deployment to explore how to create a continuous deployment process Extend the deep understanding you gained from Viktor's *DevOps 2.0 Toolkit* book Who This Book Is For This book is for professionals interested in the full microservices life cycle combined with continuous deployment and containers. Target audience could be architects who want to know how to design their systems around microservices. It could be DevOps wanting to know how to apply modern configuration management practices and continuously deploy applications packed in containers. It is for developers who would like to take the process back into their hands as well as for managers who would like to gain a better understanding of the process used to deliver software from the beginning to the end. This book is for everyone wanting to know more about the software development life cycle starting from requirements and design, through the development and testing all the way until

deployment and post-deployment phases. We'll create the processes taking into account the best practices developed by and for some of the biggest companies. What You Will Learn Learn all aspects of Docker Swarm from building, testing, deploying, and monitoring services inside Docker Swarm clusters, available since Docker 1.12. Master the deeper logic of DevOps with Viktor, so that you can successfully apply that logic across any specific set of tools you're working with. Translate a deep understanding to different hosting providers like AWS, Azure, DigitalOcean, among others. You'll go beyond simple deployment: you will explore with Viktor how to create a continuous deployment process. Accomplish zero-downtime deployments, and what to do in case of a failover. Know how to run services at scale, how to monitor the systems, and how to make it heal itself. In Detail Viktor Farcic's latest book, The DevOps 2.1 Toolkit: Docker

Swarm, takes you deeper into one of the major subjects of his international best seller, The DevOps 2.0 Toolkit, and shows you how to successfully integrate Docker Swarm into your DevOps toolset. Viktor shares with you his expert knowledge in all aspects of building, testing, deploying, and monitoring services inside Docker Swarm clusters. You'll go through all the tools required for running a cluster. You'll travel through the whole process with clusters running locally on a laptop. Once you're confident with that outcome, Viktor shows you how to translate your experience to different hosting providers like AWS, Azure, and DigitalOcean. Viktor has updated his DevOps 2.0 framework in this book to use the latest and greatest features and techniques introduced in Docker. We'll go through many practices and even more tools. While there will be a lot of theory, this is a hands-on book. You won't be able to complete it by reading it on the metro on your way to work. You'll have to read this

book while in front of the computer and get your hands dirty. Style and approach We'll go through many practices and even more tools. While there will be a lot of theory, this is a hands-on book. You'll have to read this book while in front of the computer and get your hands dirty. The goal is not to master one particular set of tools, but to learn the logic behind them so that you can apply it to your job in various contexts.

Enterprise Cloud Security and Governance - Zeal Vora

2017-12-29

Build a resilient cloud architecture to tackle data disasters with ease About This Book Gain a firm grasp of Cloud data security and governance, irrespective of your Cloud platform Practical examples to ensure you secure your Cloud environment efficiently A step-by-step guide that will teach you the unique techniques and methodologies of Cloud data governance Who This Book Is For If you are a cloud security professional who wants to ensure cloud security

and data governance no matter the environment, then this book is for you. A basic understanding of working on any cloud platform would be beneficial. What You Will Learn Configure your firewall and Network ACL Protect your system against DDOS and application-level attacks Explore cryptography and data security for your cloud Get to grips with configuration management tools to automate your security tasks Perform vulnerability scanning with the help of the standard tools in the industry Learn about central log management In Detail Modern day businesses and enterprises are moving to the Cloud, to improve efficiency and speed, achieve flexibility and cost effectiveness, and for on-demand Cloud services. However, enterprise Cloud security remains a major concern because migrating to the public Cloud requires transferring some control over organizational assets to the Cloud provider. There are chances these assets can be

mismanaged and therefore, as a Cloud security professional, you need to be armed with techniques to help businesses minimize the risks and misuse of business data. The book starts with the basics of Cloud security and offers an understanding of various policies, governance, and compliance challenges in Cloud. This helps you build a strong foundation before you dive deep into understanding what it takes to design a secured network infrastructure and a well-architected application using various security services in the Cloud environment. Automating security tasks, such as Server Hardening with Ansible, and other automation services, such as Monit, will monitor other security daemons and take the necessary action in case these security daemons are stopped maliciously. In short, this book has everything you need to secure your Cloud environment with. It is your ticket to obtain industry-adopted best practices for developing a secure, highly

available, and fault-tolerant architecture for organizations. Style and approach This book follows a step-by-step, practical approach to secure your applications and data when they are located remotely.

Practical DevOps - Joakim Verona 2016-02-16

Harness the power of DevOps to boost your skill set and make your IT organization perform better About This Book Get to know the background of DevOps so you understand the collaboration between different aspects of an IT organization and a software developer Improve your organization's performance to ensure smooth production of software and services Deploy top-quality software and ensure software maintenance and release management with this practical guide Who This Book Is For This book is aimed at developers and system administrators who wish to take on larger responsibilities and understand how the infrastructure that builds today's enterprises works. This book is also great for

operations personnel who would like to better support developers. You do not need to have any previous knowledge of DevOps. What You Will Learn Appreciate the merits of DevOps and continuous delivery and see how DevOps supports the agile process Understand how all the systems fit together to form a larger whole Set up and familiarize yourself with all the tools you need to be efficient with DevOps Design an application that is suitable for continuous deployment systems with DevOps in mind Store and manage your code effectively using different options such as Git, Gerrit, and Gitlab Configure a job to build a sample CRUD application Test the code using automated regression testing with Jenkins Selenium Deploy your code using tools such as Puppet, Ansible, Palletops, Chef, and Vagrant Monitor the health of your code with Nagios, Munin, and Graphite Explore the workings of Trac—a tool used for issue tracking In Detail DevOps is a practical field that

focuses on delivering business value as efficiently as possible. DevOps encompasses all the flows from code through testing environments to production environments. It stresses the cooperation between different roles, and how they can work together more closely, as the roots of the word imply—Development and Operations. After a quick refresher to DevOps and continuous delivery, we quickly move on to looking at how DevOps affects architecture. You'll create a sample enterprise Java application that you'll continue to work with through the remaining chapters. Following this, we explore various code storage and build server options. You will then learn how to perform code testing with a few tools and deploy your test successfully. Next, you will learn how to monitor code for any anomalies and make sure it's running properly. Finally, you will discover how to handle logs and keep track of the issues that affect processes Style and approach This book

is primarily a technical guide to DevOps with practical examples suitable for people who like to learn by implementing concrete working code. It starts out with background information and gradually delves deeper into technical subjects.

Red Hat Certified Engineer (RHCE) Study Guide - Andrew Mallett 2021-03-13

Study the material in this book to prepare for the RHCE exam EX294 and to learn how using Ansible within your own environment improves system administration productivity. This book covers all of the objectives of the exam and extends further, ensuring that you know how to use Ansible to manage Linux. The book uses CentOS, a Red Hat-based distribution, and Ubuntu instead of using a single Red Hat distribution. By using the two distributions, you will understand the power of Ansible and how easily you can deal with multiple platforms, which is crucial for your understanding of Ansible in the real world. The book assumes

no previous knowledge of Ansible but some knowledge of Linux system administration from the command line. You will learn how to manage Linux systems that are installed with different distributions, including CentOS Enterprise Linux 8 and Ubuntu 18.04. You will be able to manage these systems using ad hoc commands from the command line as well as creating Ansible playbooks that can be replayed reliably many times. To save on the code that you have to create, you will learn how to use Ansible Galaxy to search for and download roles and collections that are pre-written to manage elements of your Linux installations. By the end of this book, you will be able to write efficient and effective YAML playbooks to manage your entire estate. What You Will Learn Prepare systems so that password-less access can be used with Ansible remotely Use ad hoc commands to quickly configure systems Use and format YAML files correctly Create playbooks that grow in their complexity as

your experience develops. Ensure that services are restarted on configuration changes. Who This Book Is For: Those who want to prepare for the RHCE exam EX294 and readers who want to learn how to use Ansible to improve the productivity of their system administration. This book will help you prepare yourself for the exam as well as your real-life administration needs.

Linux for Beginners and Command Line Kung Fu -

Jason Cannon 2014-04-20
Save when you buy this two book bundle - Linux for Beginners AND Command Line Kung Fu. Linux for Beginners information: If you want to learn how to use Linux, but don't know where to start read on. Knowing where to start when learning a new skill can be a challenge, especially when the topic seems so vast. There can be so much information available that you can't even decide where to start. Or worse, you start down the path of learning and quickly discover too many concepts, commands, and nuances that

aren't explained. This kind of experience is frustrating and leaves you with more questions than answers. Linux for Beginners doesn't make any assumptions about your background or knowledge of Linux. You need no prior knowledge to benefit from this book. You will be guided step by step using a logical and systematic approach. As new concepts, commands, or jargon are encountered they are explained in plain language, making it easy for anyone to understand. Here is what you will learn by reading Linux for Beginners: How to get access to a Linux server if you don't already. What a Linux distribution is and which one to choose. What software is needed to connect to Linux from Mac and Windows computers. Screenshots included. What SSH is and how to use it, including creating and using SSH keys. The file system layout of Linux systems and where to find programs, configurations, and documentation. The basic Linux commands you'll use

most often. Creating, renaming, moving, and deleting directories. Listing, reading, creating, editing, copying, and deleting files. Exactly how permissions work and how to decipher the most cryptic Linux permissions with ease. How to use the nano, vi, and emacs editors. Two methods to search for files and directories. How to compare the contents of files. What pipes are, why they are useful, and how to use them. How and why to redirect input and output from applications. How to customize your shell prompt. How to be efficient at the command line by using aliases, tab completion, and your shell history. How to schedule and automate jobs using cron. How to switch users and run processes as others. Where to go for even more in-depth coverage on each topic. Command Line Kung Fu information: Become a Linux Ninja with Command Line Kung Fu! Do you think you have to lock yourself in a basement reading cryptic man pages for months on end in order to have

ninja like command line skills? In reality, if you had someone share their most powerful command line tips, tricks, and patterns you'd save yourself a lot of time and frustration. What if you could look over the shoulder of a good friend that just happened to be a command line guru? What if they not only showed you the commands they were using, but why they were using them and exactly how they worked? And what if that friend took the time to write all of it down so you can refer to it whenever you liked? Well, a friend did just that. Command Line Kung Fu is packed with dozens of tips and over 100 practical real-world examples. You won't find theoretical examples in this book. The examples demonstrate how to solve actual problems and accomplish worthwhile goals. The tactics are easy to find, too. Each chapter covers a specific topic and groups related tips and examples together. For example, if you need help extracting text from a file look in the "Text

Processing and Manipulation" chapter. Also, a comprehensive index is included. If you want to find every example where a given command is used -- even if it's not the main subject of the tip -- look in the index. It will list every single place in the book where that command appears.

Puppet 3 Cookbook - John Arundel 2013-01-01

Puppet 3 Cookbook is written in a Cookbook style, showing you how to set up and expand your Puppet infrastructure. It not only gives you everything you need to become a Puppet expert, but includes powerful code samples and techniques developed over many years of production experience. With it, you'll save time and effort by automating tedious manual processes, impress your boss by delivering better business value from IT, and future-proof your career by getting to grips with the new technologies revolutionizing the industry."Puppet 3 Cookbook" 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.

Gradle in Action - Benjamin Muschko 2014-02-19

Summary Gradle in Action is a comprehensive guide to end-to-end project automation with Gradle. Starting with the basics, this practical, easy-to-read book discusses how to build a full-fledged, real-world project. Along the way, it touches on advanced topics like testing, continuous integration, and monitoring code quality. You'll also explore tasks like setting up your target environment and deploying your software. About the Technology Gradle is a general-purpose build automation tool. It extends the usage patterns established by its forerunners, Ant and Maven, and allows builds that are expressive, maintainable, and easy to understand. Using a flexible Groovy-based DSL, Gradle provides declarative and extendable language elements

that let you model your project's needs the way you want. About the Book Gradle in Action is a comprehensive guide to end-to-end project automation with Gradle. Starting with the basics, this practical, easy-to-read book discusses how to establish an effective build process for a full-fledged, real-world project. Along the way, it covers advanced topics like testing, continuous integration, and monitoring code quality. You'll also explore tasks like setting up your target environment and deploying your software. The book assumes a basic background in Java, but no knowledge of Groovy. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. Whats Inside A comprehensive guide to Gradle Practical, real-world examples Transitioning from Ant and Maven In-depth plugin development Continuous delivery with Gradle About the Author Benjamin Muschko is a member of the Gradleware engineering team and the

author of several popular Gradle plugins. Table of Contents PART 1 INTRODUCING GRADLE Introduction to project automation Next-generation builds with Gradle Building a Gradle project by example PART 2 MASTERING THE FUNDAMENTALS Build script essentials Dependency management Multiproject builds Testing with Gradle Extending Gradle Integration and migration PART 3 FROM BUILD TO DEPLOYMENT IDE support and tooling Building polyglot projects Code quality management and monitoring Continuous integration Artifact assembly and publishing Infrastructure provisioning and deployment **OCP Oracle Certified Professional Java SE 11 Programmer I Study Guide** - Jeanne Boyarsky 2019-11-19 The comprehensive study aide for those preparing for the new Oracle Certified Professional Java SE Programmer I Exam 1Z0-815 Used primarily in mobile and desktop application development, Java is a

platform-independent, object-oriented programming language. It is the principal language used in Android application development as well as a popular language for client-side cloud applications. Oracle has updated its Java Programmer certification tracks for Oracle Certified Professional. OCP Oracle Certified Professional Java SE 11 Programmer I Study Guide covers 100% of the exam objectives, ensuring that you are thoroughly prepared for this challenging certification exam. This comprehensive, in-depth study guide helps you develop the functional-programming knowledge required to pass the exam and earn certification. All vital topics are covered, including Java building blocks, operators and loops, String and StringBuilder, Array and ArrayList, and more. Included is access to Sybex's superior online interactive learning environment and test bank—containing self-assessment tests, chapter tests, bonus practice exam questions,

electronic flashcards, and a searchable glossary of important terms. This indispensable guide: Clarifies complex material and strengthens your comprehension and retention of key topics Covers all exam objectives such as methods and encapsulation, exceptions, inheriting abstract classes and interfaces, and Java 8 Dates and Lambda Expressions Explains object-oriented design principles and patterns Helps you master the fundamentals of functional programming Enables you to create Java solutions applicable to real-world scenarios There are over 9 millions developers using Java around the world, yet hiring managers face challenges filling open positions with qualified candidates. The OCP Oracle Certified Professional Java SE 11 Programmer I Study Guide will help you take the next step in your career.

Software Defined Networks - Paul Goransson 2016-10-25
Software Defined Networks: A Comprehensive Approach,

Second Edition provides in-depth coverage of the technologies collectively known as Software Defined Networking (SDN). The book shows how to explain to business decision-makers the benefits and risks in shifting parts of a network to the SDN model, when to integrate SDN technologies in a network, and how to develop or acquire SDN applications. In addition, the book emphasizes the parts of the technology that encourage opening up the network, providing treatment for alternative approaches to SDN that expand the definition of SDN as networking vendors adopt traits of SDN to their existing solutions. Since the first edition was published, the SDN market has matured, and

is being gradually integrated and morphed into something more compatible with mainstream networking vendors. This book reflects these changes, with coverage of the OpenDaylight controller and its support for multiple southbound protocols, the inclusion of NETCONF in discussions on controllers and devices, expanded coverage of NFV, and updated coverage of the latest approved version (1.5.1) of the OpenFlow specification. Contains expanded coverage of controllers Includes a new chapter on NETCONF and SDN Presents expanded coverage of SDN in optical networks Provides support materials for use in computer networking courses