

Mastering Aws Security Create And Maintain A Secure Cloud Ecosystem

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 Mastering Linux Administration
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 Create And Maintain A
 Secure Cloud Ecosystem*

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Mastering Chef Provisioning Packt
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 Orchestrate the designing, development,
 testing, and deployment of web
 applications with Symfony About This Book
 Create a robust and reliable Symfony
 development pipeline using Amazon's
 cloud platform Cut development and
 maintenance costs by defining crystal
 clear features and possible scenarios for
 each feature before implementation Follow
 detailed examples provided in each
 chapter to create a task management
 application Who This Book Is For If you are
 a PHP developer with some experience in

Symfony and are looking to master the
 framework and use it to its full potential,
 then this book is for you. Though
 experience with PHP, object-oriented
 techniques, and Symfony basics is
 assumed, this book will give you a crash
 course on the basics and then proceed to
 more advanced topics. What You Will
 Learn Install and configure Symfony and
 required third-party bundles to develop a
 task management application Set up a
 continuous integration server to
 orchestrate automatic builds every time
 you add a new feature to your project
 Reduce maintenance costs dramatically
 using Behaviour Driven Development
 (BDD) Create a slick user interface using
 the Bootstrap framework Design robust
 business logic using Doctrine Build a

comprehensive dashboard and secure
 your project using the Sonata project
 Improve performance using Redis,
 Memcache, and Varnish Create
 customized Symfony commands and add
 them to your console In Detail In this book,
 you will learn some lesser known aspects
 of development with Symfony, and you will
 see how to use Symfony as a framework to
 create reliable and effective applications.
 You might have developed some
 impressive PHP libraries in other projects,
 but what is the point when your library is
 tied to one particular project? With
 Symfony, you can turn your code into a
 service and reuse it in other projects. This
 book starts with Symfony concepts such
 as bundles, routing, twig, doctrine, and
 more, taking you through the

request/response life cycle. You will then proceed to set up development, test, and deployment environments in AWS. Then you will create reliable projects using Behat and Mink, and design business logic, cover authentication, and authorization steps in a security checking process. You will be walked through concepts such as DependencyInjection, service containers, and services, and go through steps to create customized commands for Symfony's console. Finally, the book covers performance optimization and the use of Varnish and Memcached in our project, and you are treated with the creation of database agnostic bundles and best practices. Style and approach A step-by-step guide to mastering Symfony while developing a task management application. Each chapter comes with detailed examples.

Mastering Linux Administration Packt Publishing Ltd

Pass the AWS Certified Database-Specialty Certification exam with the help of practice tests

- Understand different AWS database technologies and when to use them
- Master the management and administration of AWS databases using both the console and command line
- Complete, up-to-date coverage of DBS-C01 exam objectives to pass it on the first attempt

Book Description The AWS Certified Database – Specialty certification is one of the most challenging AWS certifications. It validates your comprehensive understanding of databases, including the concepts of design, migration, deployment, access, maintenance, automation, monitoring, security, and troubleshooting. With this guide, you'll understand how to use various AWS databases, such as Aurora Serverless and Global Database, and even services such as Redshift and Neptune. You'll start with an introduction to the AWS databases, and then delve into workload-specific database design. As you advance through the chapters, you'll learn about migrating and deploying the databases, along with database security techniques such as encryption, auditing, and access controls. This AWS book will also cover monitoring, troubleshooting, and disaster recovery techniques, before testing all the knowledge you've gained throughout the book with the help of mock tests. By the end of this book, you'll have covered everything you need to pass the DBS-C01 AWS certification exam and have a handy, on-the-job desk reference guide. What you will learn

- Become familiar with the AWS Certified Database – Specialty exam format
- Explore AWS database services

and key terminology

- Work with the AWS console and command line used for managing the databases
- Test and refine performance metrics to make key decisions and reduce cost
- Understand how to handle security risks and make decisions about database infrastructure and deployment
- Enhance your understanding of the topics you've learned using real-world hands-on examples
- Identify and resolve common RDS, Aurora, and DynamoDB issues

Who this book is for This AWS certification book is for database administrators and IT professionals who perform complex big data analysis as well as students looking to get AWS Database Specialty certified. A solid understanding of cloud computing, specifically AWS services, is a must. Knowledge of basic administration tasks such as logging in and running SQL queries will be helpful.

AWS Certified Database - Specialty (DBS-C01) Certification Guide Packt Publishing Ltd

Master machine learning techniques with R to deliver insights in complex projects

About This Book Understand and apply machine learning methods using an extensive set of R packages such as XGBOOST

Understand the benefits and potential pitfalls of using machine learning methods such as Multi-Class Classification and Unsupervised Learning

Implement advanced concepts in machine learning with this example-rich guide

Who This Book Is For This book is for data science professionals, data analysts, or anyone with a working knowledge of machine learning, with R who now want to take their skills to the next level and become an expert in the field.

What You Will Learn

- Gain deep insights into the application of machine learning tools in the industry
- Manipulate data in R efficiently to prepare it for analysis
- Master the skill of recognizing techniques for effective visualization of data
- Understand why and how to create test and training data sets for analysis
- Master fundamental learning methods such as linear and logistic regression
- Comprehend advanced learning methods such as support vector machines
- Learn how to use R in a cloud service such as Amazon

In Detail This book will teach you advanced techniques in machine learning with the latest code in R 3.3.2. You will delve into statistical learning theory and supervised learning; design efficient algorithms; learn about creating Recommendation Engines; use multi-class classification and deep learning; and more. You will explore, in depth, topics such as data mining, classification, clustering, regression, predictive modeling, anomaly detection, boosted

trees with XGBOOST, and more. More than just knowing the outcome, you'll understand how these concepts work and what they do. With a slow learning curve on topics such as neural networks, you will explore deep learning, and more. By the end of this book, you will be able to perform machine learning with R in the cloud using AWS in various scenarios with different datasets. Style and approach The book delivers practical and real-world solutions to problems and a variety of tasks such as complex recommendation systems. By the end of this book, you will have gained expertise in performing R machine learning and will be able to build complex machine learning projects using R and its packages.

Practical AWS Networking Packt Publishing Ltd

Learn to develop, test, and deploy your Spring Boot distributed application and explore various best practices. Key Features

- Build and deploy your microservices architecture in the cloud
- Build event-driven resilient systems using Hystrix and Turbine
- Explore API management tools such as KONG and API documentation tools such as Swagger

Book Description Spring is one of the best frameworks on the market for developing web, enterprise, and cloud ready software. Spring Boot simplifies the building of complex software dramatically by reducing the amount of boilerplate code, and by providing production-ready features and a simple deployment model. This book will address the challenges related to power that come with Spring Boot's great configurability and flexibility. You will understand how Spring Boot configuration works under the hood, how to overwrite default configurations, and how to use advanced techniques to prepare Spring Boot applications to work in production. This book will also introduce readers to a relatively new topic in the Spring ecosystem – cloud native patterns, reactive programming, and applications. Get up to speed with microservices with Spring Boot and Spring Cloud. Each chapter aims to solve a specific problem or teach you a useful skillset. By the end of this book, you will be proficient in building and deploying your Spring Boot application. What you will learn

- Build logically structured and highly maintainable Spring Boot applications
- Configure RESTful microservices using Spring Boot
- Make the application production and operation-friendly with Spring Actuator
- Build modern, high-performance distributed applications using cloud patterns
- Manage and deploy your Spring Boot application to the cloud (AWS)

Monitor distributed applications using log aggregation and ELK Who this book is for The book is targeted at experienced Spring and Java developers who have a basic knowledge of working with Spring Boot. The reader should be familiar with Spring Boot basics, and aware of its benefits over traditional Spring Framework-based applications.

Mastering Citrix® XenDesktop® Packt Publishing Ltd

An immersive learning experience enhanced with technical, hands-on labs to understand the concepts, methods, tools, platforms, and systems required to master the art of cybersecurity Key Features Get hold of the best defensive security strategies and tools Develop a defensive security strategy at an enterprise level Get hands-on with advanced cybersecurity threat detection, including XSS, SQL injections, brute forcing web applications, and more Book Description Every organization has its own data and digital assets that need to be protected against an ever-growing threat landscape that compromises the availability, integrity, and confidentiality of crucial data.

Therefore, it is important to train professionals in the latest defensive security skills and tools to secure them. Mastering Defensive Security provides you with in-depth knowledge of the latest cybersecurity threats along with the best tools and techniques needed to keep your infrastructure secure. The book begins by establishing a strong foundation of cybersecurity concepts and advances to explore the latest security technologies such as Wireshark, Damn Vulnerable Web App (DVWA), Burp Suite, OpenVAS, and Nmap, hardware threats such as a weaponized Raspberry Pi, and hardening techniques for Unix, Windows, web applications, and cloud infrastructures. As you make progress through the chapters, you'll get to grips with several advanced techniques such as malware analysis, security automation, computer forensics, and vulnerability assessment, which will help you to leverage pentesting for security. By the end of this book, you'll have become familiar with creating your own defensive security tools using IoT devices and developed advanced defensive security skills. What you will learn Become well versed with concepts related to defensive security Discover strategies and tools to secure the most vulnerable factor – the user Get hands-on experience using and configuring the best security tools Understand how to apply hardening techniques in Windows and Unix environments Leverage malware analysis and forensics to enhance your

security strategy Secure Internet of Things (IoT) implementations Enhance the security of web applications and cloud deployments Who this book is for This book is for all IT professionals who want to take their first steps into the world of defensive security; from system admins and programmers to data analysts and data scientists with an interest in security. Experienced cybersecurity professionals working on broadening their knowledge and keeping up to date with the latest defensive developments will also find plenty of useful information in this book. You'll need a basic understanding of networking, IT, servers, virtualization, and cloud platforms before you get started with this book.

Mastering PHP 7 Shanlax Publications Develop advanced skills for working with Linux systems on-premises and in the cloud Key Features Become proficient in everyday Linux administration tasks by mastering the Linux command line and using automation Work with the Linux filesystem, packages, users, processes, and daemons Deploy Linux to the cloud with AWS, Azure, and Kubernetes Book Description Linux plays a significant role in modern data center management and provides great versatility in deploying and managing your workloads on-premises and in the cloud. This book covers the important topics you need to know about for your everyday Linux administration tasks. The book starts by helping you understand the Linux command line and how to work with files, packages, and filesystems. You'll then begin administering network services and hardening security, and learn about cloud computing, containers, and orchestration. Once you've learned how to work with the command line, you'll explore the essential Linux commands for managing users, processes, and daemons and discover how to secure your Linux environment using application security frameworks and firewall managers. As you advance through the chapters, you'll work with containers, hypervisors, virtual machines, Ansible, and Kubernetes. You'll also learn how to deploy Linux to the cloud using AWS and Azure. By the end of this Linux book, you'll be well-versed with Linux and have mastered everyday administrative tasks using workflows spanning from on-premises to the cloud. If you also find yourself adopting DevOps practices in the process, we'll consider our mission accomplished. What you will learn Understand how Linux works and learn basic to advanced Linux administration skills Explore the most widely used commands for managing the

Linux filesystem, network, security, and more Get to grips with different networking and messaging protocols Find out how Linux security works and how to configure SELinux, AppArmor, and Linux iptables Work with virtual machines and containers and understand container orchestration with Kubernetes Work with containerized workflows using Docker and Kubernetes Automate your configuration management workloads with Ansible Who this book is for If you are a Linux administrator who wants to understand the fundamentals and as well as modern concepts of Linux system administration, this book is for you. Windows System Administrators looking to extend their knowledge to the Linux OS will also benefit from this book.

Mastering Geospatial Analysis with Python Packt Publishing Ltd

Learn to build modern, secure, highly available web MVC applications and API's using Python's Flask framework. Key Features Create production-ready MVC and REST API with the dynamic features of Flask Utilize the various extensions like Flask-JWT and Flask-SQLAlchemy to develop powerful applications Deploy your flask application on real-world platforms like AWS and Heroku on VM's or Docker containers Book Description Flask is a popular Python framework known for its lightweight and modular design. Mastering Flask Web Development will take you on a complete tour of the Flask environment and teach you how to build a production-ready application. You'll begin by learning about the installation of Flask and basic concepts such as MVC and accessing a database using an ORM. You will learn how to structure your application so that it can scale to any size with the help of Flask Blueprints. You'll then learn how to use Jinja2 templates with a high level of expertise. You will also learn how to develop with SQL or NoSQL databases, and how to develop REST APIs and JWT authentication. Next, you'll move on to build role-based access security and authentication using LDAP, OAuth, OpenID, and database. Also learn how to create asynchronous tasks that can scale to any load using Celery and RabbitMQ or Redis. You will also be introduced to a wide range of Flask extensions to leverage technologies such as cache, localization, and debugging. You will learn how to build your own Flask extensions, how to write tests, and how to get test coverage reports. Finally, you will learn how to deploy your application on Heroku and AWS using various technologies, such as Docker, CloudFormation, and Elastic Beanstalk, and will also learn how to

develop Jenkins pipelines to build, test, and deploy applications. What you will learn: Develop a Flask extension using best practices; Implement various authentication methods: LDAP, JWT, Database, OAuth, and OpenID; Learn how to develop role-based access security and become an expert on Jinja2 templates; Build tests for your applications and APIs; Install and configure a distributed task queue using Celery and RabbitMQ; Develop RESTful APIs and secure REST API's; Deploy highly available applications that scale on Heroku and AWS using Docker or VMs; Who this book is for: The ideal target audience for this book would be Python developers who want to use Flask and its advanced features to create Enterprise grade and lightweight applications. The book is for those who have some exposure of Flask and want to take it from introductory to master level.

Mastering Machine Learning with R Packt Publishing Ltd

Master the TypeScript language and its latest features. Explore modern application frameworks and utilize industry best practices in TDD, OOP and UI Design. Key Features: Learn the key features of TypeScript 3 and explore advanced language features through in-depth discussions. Use TypeScript with modern frameworks including Backbone, Angular, Aurelia, React, and Node. Explore TDD practices, OOP techniques, and industry best practices to create high-quality, modular, and adaptable applications. Book Description: TypeScript is both a language and a set of tools to generate JavaScript. It was designed by Anders Hejlsberg at Microsoft to help developers write enterprise-scale JavaScript. Starting with an introduction to the TypeScript language, before moving on to basic concepts, each section builds on previous knowledge in an incremental and easy-to-understand way. Advanced and powerful language features are all covered, including asynchronous programming techniques, decorators, and generics. This book explores many modern JavaScript and TypeScript frameworks side by side in order for the reader to learn their respective strengths and weaknesses. It will also thoroughly explore unit and integration testing for each framework. Best-of-breed applications utilize well-known design patterns in order to be scalable, maintainable, and testable. This book explores some of these object-oriented techniques and patterns, and shows real-world implementations. By the end of the book, you will have built a comprehensive, end-to-end web application to show how TypeScript

language features, design patterns, and industry best practices can be brought together in a real-world scenario. What you will learn: Gain insights into core and advanced TypeScript language features; Integrate existing JavaScript libraries and third-party frameworks using declaration files; Target popular JavaScript frameworks, such as Angular, React, and more; Create test suites for your application with Jasmine and Selenium; Organize your application code using modules, AMD loaders, and SystemJS; Explore advanced object-oriented design principles; Compare the various MVC implementations in Aurelia, Angular, React, and more; Who this book is for: This guide to the TypeScript that starts with basic concepts, and then builds on this knowledge to introduce more advanced language features and frameworks. No prior knowledge of JavaScript is required, although some prior programming experience is assumed. If you are keen to learn TypeScript, this book will give you all of the necessary knowledge and skills to tackle any TypeScript project. If you are already an experienced JavaScript or TypeScript developer, then this book will take your skills to the next level. Learn how to use TypeScript with a multitude of modern frameworks, and choose the best framework for your project requirements. Investigate techniques for Test Driven Development, explore industry-standard design patterns, and learn how to put together a full production-ready TypeScript application.

Mastering Flask Web Development
Packt Publishing Ltd

This is the eBook version of the print title. Note that the eBook does not provide access to the practice test software that accompanies the print book. Learn, prepare, and practice for AWS Certified Cloud Practitioner (CLF-C01) exam success with this Cert Guide from Pearson IT Certification, a leader in IT Certification learning. Master AWS Certified Cloud Practitioner (CLF-C01) exam topics: Assess your knowledge with chapter-ending quizzes; Review key concepts with exam preparation tasks; AWS Certified Cloud Practitioner (CLF-C01) Cert Guide is a best-of-breed exam study guide. Best-selling author and expert instructor Anthony Sequeira 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. The study guide helps you master all the topics on the AWS Certified Cloud Practitioner exam, including how to: Define the AWS Cloud and its value proposition, and discuss its economics; Define the AWS Shared Responsibility model, and key AWS security and compliance concepts; Identify AWS access management capabilities; Define methods of deploying the AWS Cloud and operating within; Define the AWS global infrastructure and identify core AWS services; Recognize and compare AWS pricing models and account structures; Identify support resources for security, AWS cloud technology, and billing. [Mastering AWS Security](#) Packt Publishing Ltd

Explore GIS processing and learn to work with various tools and libraries in Python. Key Features: Analyze and process geospatial data using Python libraries such as; Anaconda, GeoPandas; Leverage new ArcGIS API to process geospatial data for the cloud. Explore various Python geospatial web and machine learning frameworks. Book Description: Python comes with a host of open source libraries and tools that help you work on professional geoprocessing tasks without investing in expensive tools. This book will introduce Python developers, both new and experienced, to a variety of new code libraries that have been developed to perform geospatial analysis, statistical analysis, and data management. This book will use examples and code snippets that will help explain how Python 3 differs from Python 2, and how these new code libraries can be used to solve age-old problems in geospatial analysis. You will begin by understanding what geoprocessing is and explore the tools and libraries that Python 3 offers. You will then learn to use Python code libraries to read and write geospatial data. You will then learn to perform geospatial queries within databases and learn PyQGIS to automate analysis within the QGIS mapping suite. Moving forward, you will explore the newly released ArcGIS API for Python and ArcGIS

Online to perform geospatial analysis and create ArcGIS Online web maps. Further, you will deep dive into Python Geospatial web frameworks and learn to create a geospatial REST API. What you will learn Manage code libraries and abstract geospatial analysis techniques using Python 3. Explore popular code libraries that perform specific tasks for geospatial analysis. Utilize code libraries for data conversion, data management, web maps, and REST API creation. Learn techniques related to processing geospatial data in the cloud. Leverage features of Python 3 with geospatial databases such as PostGIS, SQL Server, and Spatialite. Who this book is for The audience for this book includes students, developers, and geospatial professionals who need a reference book that covers GIS data management, analysis, and automation techniques with code libraries built in Python 3.

Mastering Machine Learning on AWS
Packt Publishing Ltd

Master the art of using Python for a diverse range of network engineering tasks Key Features Explore the power of Python libraries to tackle difficult network problems efficiently and effectively Use Python for network device automation, DevOps, and software-defined networking Become an expert in implementing advanced network-related tasks with Python Book 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 this second edition of Mastering Python Networking, 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 book begins by reviewing the basics of Python and teaches you how Python can interact with both legacy and API-enabled network devices. As you make your way through the chapters, you will then learn to leverage high-level Python packages and frameworks to perform network engineering tasks for automation, monitoring, management, and enhanced security. In the concluding chapters, you will use Jenkins for continuous network integration as well as testing tools to verify your network. By the end of this book, you will be able to perform all networking tasks with ease using Python. What you will learn Use Python libraries to interact with your network Integrate Ansible 2.5 using Python to control Cisco,

Juniper, and Arista eAPI network devices Leverage existing frameworks to construct high-level APIs Learn how to build virtual networks in the AWS Cloud Understand how Jenkins can be used to automatically deploy changes in your network Use PyTest and Unittest for Test-Driven Network Development Who this book is for Mastering Python Networking is for network engineers and programmers who want to use Python for networking. Basic familiarity with Python programming and networking-related concepts such as Transmission Control Protocol/Internet Protocol (TCP/IP) will be useful.

Aws Independently Published
Mastering AWS SecurityPackt Publishing Ltd
Springer

Learn Chef Provisioning like a boss and finally own your infrastructure About This Book This is the first Chef book focused on provisioning infrastructure as its sole task. The book offers a clear solution to a specific pain point: learn to make your system work faster. Learning better approaches to load balancing and parallelization with this book will save you time By mastering the techniques in this book, you will know how to run an entire fleet of machines without breaking a sweat This book is more helpful than the documentation (<https://docs.chef.io/provisioning.html>), with a stronger guiding voice and clearer explanations and use cases Who This Book Is For This book is for Software Engineers, System Administrators, or DevOps Engineers who need to quickly deliver reliably consistent infrastructure at scale. You are expected to have intermediate experience with Chef and Ruby and will be reading this book to advance your knowledge and take your skillset to the next level. What You Will Learn Use best practices to describe your entire infrastructure as code Automate and document every aspect of your network, from the hardware of individual nodes to software, middleware, and all containers and clouds Create a perfect model system Make the best possible use of your resources and avoid redundancy Deliver on the promise of Infrastructure as Code Scale with ease by properly provisioning their infrastructure Use the best Test Driven Development methodologies In Detail This book will show you the best practices to describe your entire infrastructure as code. With the help of this book you can expand your knowledge of Chef because and implement robust and scalable automation solutions. You can automate and document every aspect of your network, from the hardware to

software, middleware, and all your containers. You will become familiar with the Chef's Chef Provisioning tool. You will be able to make a perfect model system where everything is represented as code beneath your fingertips. Make the best possible use of your resources, and deliver infrastructure as code, making it as versionable, testable and repeatable as application software Style and approach By dedicating a whole book solely to the question of provisioning, this book will teach administrators to use Chef as a birds-eye lens for their entire system. It will moves you away from the specifics of each machine and its automations and instead will teach you them how to approach the entire cluster as something different than the sum of its parts. By focusing on infrastructure as code as its own project, the book offers elegant, time-saving solutions for a perfectly described and automated network.

AWS: Security Best Practices on AWS
Packt Publishing

Enable data and AI workloads with absolute security and scalability KEY FEATURES ● Detailed, step-by-step instructions for every data professional starting a career with data engineering. ● Access to DevOps, Machine Learning, and Analytics wirthin a single unified platform. ● Includes design considerations and security best practices for efficient utilization of Databricks platform. DESCRIPTION Starting with the fundamentals of the databricks lakehouse platform, the book teaches readers on administering various data operations, including Machine Learning, DevOps, Data Warehousing, and BI on the single platform. The subsequent chapters discuss working around data pipelines utilizing the databricks lakehouse platform with data processing and audit quality framework. The book teaches to leverage the Databricks Lakehouse platform to develop delta live tables, streamline ETL/ELT operations, and administer data sharing and orchestration. The book explores how to schedule and manage jobs through the Databricks notebook UI and the Jobs API. The book discusses how to implement DevOps methods on the Databricks Lakehouse platform for data and AI workloads. The book helps readers prepare and process data and standardizes the entire ML lifecycle, right from experimentation to production. The book doesn't just stop here; instead, it teaches how to directly query data lake with your favourite BI tools like Power BI, Tableau, or Qlik. Some of the best industry practices on building data engineering solutions are also demonstrated towards

the end of the book. **WHAT YOU WILL LEARN** ● Acquire capabilities to administer end-to-end Databricks Lakehouse Platform. ● Utilize Flow to deploy and monitor machine learning solutions. ● Gain practical experience with SQL Analytics and connect Tableau, Power BI, and Qlik. ● Configure clusters and automate CI/CD deployment. ● Learn how to use Airflow, Data Factory, Delta Live Tables, Databricks notebook UI, and the Jobs API. **WHO THIS BOOK IS FOR** This book is for every data professional, including data engineers, ETL developers, DB administrators, Data Scientists, SQL Developers, and BI specialists. You don't need any prior expertise with this platform because the book covers all the basics.

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Cyber Security Packt Publishing Ltd

An expert guide to helping you use DevOps techniques with the latest GitLab version to optimize and manage your software workflow

Key Features

- Delve into GitLab's architecture, and install and configure it to fit your environment
- Learn about the underlying principles of Agile software development and DevOps
- Explore GitLab's features to manage enterprise cloud-native applications and services

Book Description GitLab is an open source repository management and version control toolkit with functions for enterprises and personal software projects. It offers configurability options, extensions, and APIs that make it an ideal tool for enterprises to manage the software development life cycle. This book begins by explaining GitLab options and the components of the GitLab architecture. You will learn how to install and set up GitLab on-premises and in the cloud, along with understanding how to migrate code bases from different systems, such as GitHub, Concurrent Versions System, Team Foundation Version Control, and Subversion. Later chapters will help you implement DevOps culture by introducing the workflow management tools in GitLab and continuous integration/continuous deployment (CI/CD). In addition to this, the book will guide you through installing

GitLab on a range of cloud platforms, monitoring with Prometheus, and deploying an environment with GitLab. You'll also focus on the GitLab CI component to assist you with creating development pipelines and jobs, along with helping you set up GitLab runners for your own project. Finally, you will be able to choose a high availability setup that fits your needs and helps you monitor and act on results obtained after testing. By the end of this book, you will have gained the expertise you need to use GitLab features effectively, and be able to integrate all phases in the development process. What you will learn

- Install GitLab on premises and in the cloud using a variety of configurations
- Conduct data migration from the SVN, TFS, CVS, and GitHub platforms to GitLab
- Use GitLab runners to develop different types of configurations in software development
- Plan and perform CI/CD by using GitLab features
- Monitor and secure your software architecture using Prometheus and Grafana
- Implement DevOps culture by introducing workflow management tools in GitLab

Who this book is for If you are a software developer, DevOps professional, or any developer who wants to master GitLab for productive repository management in your day-to-day tasks, this book is for you. Basic understanding of the software development workflow is assumed.

Mastering Ubuntu Server Packt Publishing Ltd

In depth informative guide to implement and use AWS security services effectively.

About This Book Learn to secure your network, infrastructure, data and applications in AWS cloud

- Log, monitor and audit your AWS resources for continuous security and continuous compliance in AWS cloud
- Use AWS managed security services to automate security. Focus on increasing your business rather than being diverged onto security risks and issues with AWS security. Delve deep into various aspects such as the security model, compliance, access management and much more to build and maintain a secure environment.

Who This Book Is For This book is for all IT professionals, system administrators and security analysts, solution architects and Chief Information Security Officers who are responsible for securing workloads in AWS for their organizations. It is helpful for all Solutions Architects who want to design and implement secure architecture on AWS by the following security by design principle. This book is helpful for personnel in Auditors and Project Management role to understand how they can audit AWS workloads and how they can manage

security in AWS respectively. If you are learning AWS or championing AWS adoption in your organization, you should read this book to build security in all your workloads. You will benefit from knowing about security footprint of all major AWS services for multiple domains, use cases, and scenarios.

What You Will Learn

- Learn about AWS Identity Management and Access control
- Gain knowledge to create and secure your private network in AWS
- Understand and secure your infrastructure in AWS
- Understand monitoring, logging and auditing in AWS
- Ensure Data Security in AWS
- Learn to secure your applications in AWS
- Explore AWS Security best practices

In Detail Mastering AWS Security starts with a deep dive into the fundamentals of the shared security responsibility model. This book tells you how you can enable continuous security, continuous auditing, and continuous compliance by automating your security in AWS with the tools, services, and features it provides. Moving on, you will learn about access control in AWS for all resources. You will also learn about the security of your network, servers, data and applications in the AWS cloud using native AWS security services. By the end of this book, you will understand the complete AWS Security landscape, covering all aspects of end - to -end software and hardware security along with logging, auditing, and compliance of your entire IT environment in the AWS cloud. Lastly, the book will wrap up with AWS best practices for security.

Style and approach The book will take a practical approach delving into different aspects of AWS security to help you become a master of it. It will focus on using native AWS security features and managed AWS services to help you achieve continuous security and continuous compliance.

Mastering Spring Boot 2.0 Packt Publishing Ltd

Summary Modern data science solutions need to be clean, easy to read, and scalable. In *Mastering Large Datasets with Python*, author J.T. Wolohan teaches you how to take a small project and scale it up using a functionally influenced approach to Python coding. You'll explore methods and built-in Python tools that lend themselves to clarity and scalability, like the high-performing parallelism method, as well as distributed technologies that allow for high data throughput. The abundant hands-on exercises in this practical tutorial will lock in these essential skills for any large-scale data science project. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

About the technology Programming techniques that work well on laptop-sized data can slow to a crawl—or fail altogether—when applied to massive files or distributed datasets. By mastering the powerful map and reduce paradigm, along with the Python-based tools that support it, you can write data-centric applications that scale efficiently without requiring codebase rewrites as your requirements change. About the book Mastering Large Datasets with Python teaches you to write code that can handle datasets of any size. You'll start with laptop-sized datasets that teach you to parallelize data analysis by breaking large tasks into smaller ones that can run simultaneously. You'll then scale those same programs to industrial-sized datasets on a cluster of cloud servers. With the map and reduce paradigm firmly in place, you'll explore tools like Hadoop and PySpark to efficiently process massive distributed datasets, speed up decision-making with machine learning, and simplify your data storage with AWS S3. What's inside An introduction to the map and reduce paradigm Parallelization with the multiprocessing module and pathos framework Hadoop and Spark for distributed computing Running AWS jobs to process large datasets About the reader For Python programmers who need to work faster with more data. About the author J. T. Wolohan is a lead data scientist at Booz Allen Hamilton, and a PhD researcher at Indiana University, Bloomington. Table of Contents: PART 1 1 | Introduction 2 | Accelerating large dataset work: Map and parallel computing 3 | Function pipelines for mapping complex transformations 4 | Processing large datasets with lazy workflows 5 | Accumulation operations with reduce 6 | Speeding up map and reduce with advanced parallelization PART 2 7 | Processing truly big datasets with Hadoop and Spark 8 | Best practices for large data with Apache Streaming and mrjob 9 | PageRank with map and reduce in PySpark 10 | Faster decision-making with machine learning and PySpark PART 3 11 | Large datasets in the cloud with Amazon Web Services and S3 12 | MapReduce in the cloud with Amazon's Elastic MapReduce [Mastering Large Datasets with Python](#) Packt Publishing Ltd

Master key approaches used by real attackers to perform advanced pentesting in tightly secured infrastructure, cloud and virtualized environments, and devices, and learn the latest phishing and hacking techniques Key Features Explore red teaming and play the hackers game to proactively defend your infrastructure Use OSINT, Google dorks, Nmap, recon-nag,

and other tools for passive and active reconnaissance Learn about the latest email, Wi-Fi, and mobile-based phishing techniques Book Description Remote working has given hackers plenty of opportunities as more confidential information is shared over the internet than ever before. In this new edition of Mastering Kali Linux for Advanced Penetration Testing, you'll learn an offensive approach to enhance your penetration testing skills by testing the sophisticated tactics employed by real hackers. You'll go through laboratory integration to cloud services so that you learn another dimension of exploitation that is typically forgotten during a penetration test. You'll explore different ways of installing and running Kali Linux in a VM and containerized environment and deploying vulnerable cloud services on AWS using containers, exploiting misconfigured S3 buckets to gain access to EC2 instances. This book delves into passive and active reconnaissance, from obtaining user information to large-scale port scanning. Building on this, different vulnerability assessments are explored, including threat modeling. See how hackers use lateral movement, privilege escalation, and command and control (C2) on compromised systems. By the end of this book, you'll have explored many advanced pentesting approaches and hacking techniques employed on networks, IoT, embedded peripheral devices, and radio frequencies. What you will learn Exploit networks using wired/wireless networks, cloud infrastructure, and web services Learn embedded peripheral device, Bluetooth, RFID, and IoT hacking techniques Master the art of bypassing traditional antivirus and endpoint detection and response (EDR) tools Test for data system exploits using Metasploit, PowerShell Empire, and CrackMapExec Perform cloud security vulnerability assessment and exploitation of security misconfigurations Use bettercap and Wireshark for network sniffing Implement complex attacks with Metasploit, Burp Suite, and OWASP ZAP Who this book is for This fourth edition is for security analysts, pentesters, ethical hackers, red team operators, and security consultants wanting to learn and optimize infrastructure/application/cloud security using advanced Kali Linux features. Prior penetration testing experience and basic knowledge of ethical hacking will help you make the most of this book.

Mastering Mesos Packt Publishing Ltd Nowadays, many organizations are moving toward desktop virtualization. Citrix® XenDesktop® is the most comprehensive

solution to implement a scalable and high performance virtual desktop environment. This book will provide you with the technical skills you need to successfully design, set up, and maintain a XenDesktop® environment. This book will introduce you to the main components of a XenDesktop® infrastructure and covers how to design and install them. Through each chapter, you will quickly learn how to configure your virtual desktop environment in order to meet specific end user requirements, giving your users the freedom to work from anywhere and from any device while virtual desktops and apps are centrally maintained in your data center.

Mastering AWS Lambda Packt Publishing Ltd

Key concepts, sample applications, best practices, and troubleshooting tips to build highly scalable applications in AWS. Key Features Design highly available, cost efficient, fault tolerant, and scalable distributed systems A practical guide that will help you build, deploy, and manage applications with ease. Develop effective solutions with AWS SDK and Lambda Book Description Continuous deployment and Agile methodology have enabled huge advances in modern applications. This book will enable the reader to make use of this rapidly evolving technology to build highly scalable applications within AWS using different architectures. You will begin with installation of AWS SDK and you will get hands-on experience on creating an application using AWS Management Console and AWS Command Line Interface (CLI). Next you will be integrating Applications with AWS services such as DynamoDB, Amazon Kinesis, AWS Lambda, Amazon SQS and Amazon SWF Following this you will get well versed with CI/CD workflow and work with four major phases in Release processes - Source, Build, Test and Production. Next you will learn to apply AWS developer tools in your Continuous Integration (CI) and Continuous Deployment (CD) Workflow. Later you will learn about User Authentication using Amazon Cognito and also how you can evaluate the best architecture as per your infrastructure costs. You will learn about Amazon EC2 service and deploy an app using Amazon EC2. You will also get well versed with container service which is Amazon EC2 Container Service (Amazon ECS) and you will learn to deploy an app using Amazon ECS. Along with EC2 and ECS, you will also deploying a practical real-world example of a CI/CD application with the Serverless Application Framework which is known as AWS Lambda. Finally you will learn how to

build, develop and deploy the Application using AWS Developer tools like AWS CodeCommit, AWS CodeBuild, AWS CodeDeploy and AWS CodePipeline as per project needs. Also you can develop and deploy applications within minutes using AWS CodeStar from wizard. By the end of this book, the reader will effectively build, deploy, and manage applications on AWS along with scaling and securing applications with best practices and

troubleshooting tips. What you will learn Learn how to get up and running with AWS Developer Tools. Integrate the four major phases in the Release Processes. Source, Build, Test and Production. Learn how to integrate Continuous Integration, Continuous Delivery, and Continuous Deployment in AWS. Make secure, scalable and fault tolerant applications. Understand different architectures and

deploy complex architectures within minutes Who this book is for This book targets developers who would like to build and manage web and mobile applications and services on the AWS platform. If you are an architect you will be able to take a deep dive and use examples that can be readily applied to real world scenarios. Some prior programming experience is assumed along with familiarity of cloud computing.

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