

Technical Specification Awws

With this practical book, AI and machine learning practitioners will learn how to successfully build and deploy data science projects on Amazon Web Services. The Amazon AI and machine learning stack unifies data science, data engineering, and application development to help level up your skills. This guide shows you how to build and run pipelines in the cloud, then integrate the results into applications in minutes instead of days. Throughout the book, authors Chris Freely and Antje Barth demonstrate how to reduce cost and improve performance. Apply the Amazon AI and ML stack to real-world use cases for natural language processing, computer vision, fraud detection, conversational devices, and more. Use automated machine learning to implement a secure subset of use cases with SageMaker Autopilot Dive deep into the complete model development lifecycle from a BERT-based NLP use case including data ingestion, analysis, model training, and deployment. Tie everything together into a repeatable machine learning operations pipeline Explore real-time ML, anomaly detection, and streaming analytics on data streams with Amazon Kinesis and Managed Streaming for Apache Kafka Learn secure best practices for data science projects and workflows including identity and access management, automation, and more.

Identify tools and techniques to secure and perform a penetration test on an AWS infrastructure using Kali Linux Key FeaturesEfficiently perform penetration testing techniques on your public cloud instancesLearn not only to cover loopholes but also to automate security monitoring and alerting within your cloud-based deployment pipelinesA step-by-step guide that will help you leverage the most widely used security platform to secure your AWS Cloud environmentBook Description The cloud is taking over the IT industry. Any organization having a large amount of data or a large infrastructure has started moving cloud-ward — and AWS rules the roost when it comes to cloud service providers, with its closest competitor having less than half of its market share. This highlights the importance of security on the cloud, especially on AWS. While a lot has been said (and written) about how cloud environments can be secured, performing external security assessments in the form of pen tests on AWS is still seen as a dark art. This book aims to help pentesters as well as seasoned system administrators with a hands-on approach to pentesting the various cloud services provided by Amazon through AWS using Kali Linux. To make things easier for novice pentesters, the book focuses on building a practice lab and refining penetration testing with Kali Linux on the cloud. This is helpful not only for beginners but also for pentesters who want to set up a pentesting environment in their private cloud, using Kali Linux to perform a white-box assessment of their own cloud resources. Besides this, there is a lot of in-depth coverage of the large variety of AWS services that are often overlooked during a penetration — from serverless infrastructure to automated deployment pipelines. By the end of this book, you will be able to identify possible vulnerable areas efficiently and secure your AWS cloud environment. What you will learnFamiliarize yourself with and pentest the most common external-facing AWS servicesAudit your own infrastructure and identify flaws, weaknesses, and loopholesDemonstrate the process of lateral and vertical movement through a partially compromised AWS accountMaintain stealth and persistence within a compromised AWS accountMaster a hands-on approach to pentestingDiscover a number of automated tools to ease the process of continuously assessing and improving the security stance of an AWS infrastructureWho this book is for If you are a security analyst or a penetration tester and are interested in exploiting cloud environments to reveal vulnerable areas and secure them, then this book is for you. A basic understanding of penetration testing, cloud computing, and its security concepts is mandatory.

IBM® Spectrum Virtualize is a key member of the IBM Spectrum® Storage portfolio. It is a highly flexible storage solution that enables rapid deployment of block storage services for new and traditional workloads, whether on-premises, off-premises, or a combination of both. The initial release of IBM Spectrum Virtualize for Public Cloud is now available on Amazon Web Services (AWS). This IBM Redpaper™ publication gives a broad understanding of the IBM Spectrum Virtualize for Public Cloud on AWS architecture. It also provides planning and implementation information about the common use cases for this new product. This publication helps storage and networking administrators plan, implement, install, modify, and configure the IBM Spectrum Virtualize for Public Cloud on AWS offering Version 8.3.1. It also provides a detailed description of troubleshooting tips.

Create, deploy, and test your Python applications, analyses, and models with ease using Streamlit Key FeaturesLearn how to showcase machine learning models in a Streamlit application effectively and efficientlyBecome an expert Streamlit creator by getting hands-on with complex application creationDiscover how Streamlit enables you to create and deploy apps effortlesslyBook Description Streamlit shortens the development time for the creation of data-focused web applications, allowing data scientists to create web app prototypes using Python in hours instead of days. Getting Started with Streamlit for Data Science takes a hands-on approach to helping you learn the tips and tricks that will have you up and running with Streamlit in no time. You'll start with the fundamentals of Streamlit by creating a basic app and gradually build on the foundation by producing high-quality graphics with data visualization and testing machine learning models. As you advance through the chapters, you'll walk through practical examples of both personal data projects and work-related data-focused web applications, and get to grips with more challenging topics such as using Streamlit Components, beautifying your apps, and quick deployment of your new apps. By the end of this book, you'll be able to create dynamic web apps in Streamlit quickly and effortlessly using the power of Python. What you will learnSet up your first development environment and create a basic Streamlit app from scratchExplore methods for uploading, downloading, and manipulating data in Streamlit appsCreate dynamic visualizations in Streamlit using built-in and imported Python librariesDiscover strategies for creating and deploying machine learning models in StreamlitUse Streamlit sharing for one-click deploymentBeautify Streamlit apps using themes, Streamlit Components, and Streamlit sidebarImplement best practices for prototyping your data science work with StreamlitWho this book is for This book is for data scientists and machine learning enthusiasts who want to create web apps using Streamlit. Whether you're a junior data scientist looking to deploy your first machine learning project in Python to improve your resume or a senior data scientist who wants to use Streamlit to make convincing and dynamic data analyses, this book will help you get there! Prior knowledge of Python programming will assist with understanding the concepts covered.

AWS Certified Big Data - Specialty

Rapid Application Development with AWS Amplify

Data Engineering with AWS

Set up a virtual lab and pentest major AWS services, including EC2, S3, Lambda, and CloudFormation

I-Bytes Retail & Consumer Goods Industry

Specialty Exam

A Comprehensive Compilation of Decisions, Reports, Public Notices, and Other Documents of the Federal Communications Commission of the United States

AWS Certified Solutions Architect Associate (SAA-C02) The AWS Certified Solutions Architect - Associate examination is intended for individuals who perform a solutions architect role and have one or more years of hands-on experience designing available, cost-efficient, fault-tolerant, and scalable distributed systems on AWS. Abilities Validated by the Certification Effectively demonstrate knowledge of how to architect and deploy secure and robust applications on AWS technologies Define a solution using architectural design principles based on customer requirements Provide implementation guidance based on best practices to the organization throughout the life cycle of the project Recommended Knowledge and Experience Hands-on experience using compute, networking, storage, and database AWS services Hands-on experience with AWS deployment and management services Ability to identify and define technical requirements for an AWS-based solution Ability to identify which AWS services meet a given technical requirement Knowledge of recommended best practices for building secure and reliable applications on the AWS platform An understanding of the basic architectural principles of building on the AWS Cloud An understanding of the AWS global infrastructure An understanding of network technologies as they relate to AWS An understanding of security features and tools that AWS provides and how they relate to traditional services 435+ most up-to-date and unique questions verified by our extensive years of experienced experts to prepare for AWS Certified Solutions Architect - Associate (SAA-C02) exam. We proud to says that, many students have easily cleared the exam with good score by practiced these questions and personal study guides. Don't hesitate!! Please buy the book confidently because we always update the book with current level exam questions so that you can fully prepared for the actual exam.

Discover how to build a cloud-based data warehouse at petabyte-scale that is burstable and built to scale for end-to-end analytical solutions Key FeaturesDiscover how to translate familiar data warehousing concepts into Redshift implementationUse impressive Redshift features to optimize development, productionizing, and operations processesFind out how to use advanced features such as concurrency scaling, Redshift Spectrum, and federated queriesBook Description Amazon Redshift is a fully managed, petabyte-scale AWS cloud data warehousing service. It enables you to build new data warehouse workloads on AWS and migrate on-premises workloads. Finally, you'll improve the way you manage the modern cloud in AWS by extending CloudFormation using AWS serverless application model (SAM) and AWS cloud development kit (CDK). By the end of this book, you'll have mastered all the major AWS CloudFormation concepts and be able to simplify infrastructure datasets. Because of the massive amount of data involved in data warehousing, designing your database for analytical processing lets you take full advantage of Redshift's columnar architecture and managed services. As you advance, you'll discover how to deploy fully automated and highly scalable extract, transform, and load (ETL) processes, which help minimize the operational efforts that you have to invest in managing regular ETL pipelines and ensure the timely and accurate refreshing of your data warehouse. Finally, you'll gain a clear understanding of Redshift use cases, data ingestion, data management, security, and scaling so that you can build a scalable data warehouse platform. By the end of this Redshift book, you'll be able to implement a Redshift-based data analytics solution and have understood the best practice solutions to commonly faced problems. What you will learnUse Amazon Redshift to build petabyte-scale data warehouses that are agile at scaleIntegrate your data warehousing solution with a data lake using purpose-built features and services on AWSBuild end-to-end analytical solutions from data sourcing to consumption with the help of useful recipesLeverage Redshift's comprehensive security capabilities to meet the most demanding business requirementsFocus on architectural insights and rationale when using analytical recipesDiscover best practices for working with big data to operate a fully managed solutionWho this book is for This book is for anyone involved in architecting, implementing, and optimizing an Amazon Redshift data warehouse. It is intended for data analysts, database administrators, data engineers, and data scientists. Basic knowledge of data warehousing, database systems, and cloud concepts and familiarity with Redshift will be beneficial. Build scalable and production-ready infrastructure in Amazon Web Services with CloudFormation Key FeaturesLeverage AWS CloudFormation templates to manage your entire infrastructureGet up and running with writing your infrastructure as code and automating your environmentSimplify infrastructure management and increase productivity with AWS CloudFormationBook Description DevOps and the cloud revolution have forced software engineers and operations teams to rethink how to manage infrastructures. With this AWS book, you'll understand how you can use Infrastructure as Code (IaC) to simplify IT operations and manage the modern cloud infrastructure effectively with AWS CloudFormation. This comprehensive guide will help you explore AWS CloudFormation from template structures through to developing complex and reusable infrastructure stacks. You'll then delve into validating templates, deploying stacks, and handling deployment failures. The book will also show you how to leverage AWS CodeBuild and CodePipeline to automate resource delivery and apply continuous integration and continuous delivery (CI/CD) practices to the stack. As you advance, you'll learn how to generate templates on the fly using macros and create resources outside AWS with custom resources. Finally, you'll improve the way you manage the modern cloud in AWS by extending CloudFormation using AWS serverless application model (SAM) and AWS cloud development kit (CDK). By the end of this book, you'll have mastered all the major AWS CloudFormation concepts and be able to simplify infrastructure management. What you will learnUnderstand modern approaches to IaCDeploy universal and reusable CloudFormation templatesDiscover ways to apply continuous delivery with CloudFormationImplement IaC best practices for the AWS CloudProvision massive applications across multiple regions and accountsAutomate template generation and software provisioning for AWSExtend CloudFormation with custom resources and template macrosWho this book is for If you are a developer who wants to learn how to write templates, a DevOps engineer interested in deployment and orchestration, or a solutions architect looking to understand the benefits of managing infrastructure with ease, this book is for you. Prior understanding of the AWS Cloud is necessary.

Data Science on AWS®O'Reilly Media, Inc.®

Mastering AWS CloudFormation

AWS for System Administrators

Secure Edge Computing

Serverless Analytics with Amazon Athena

AWS Certified SysOps Administrator - Associate Guide

IBM Spectrum Virtualize for Public Cloud on AWS Implementation Guide

Create secure CI/CD pipelines using Chaos and AIOPS

A comprehensive and accessible guide to performing data analytics in the AWS cloud In Data Analytics in the AWS Cloud: Building a Data Platform for BI and Predictive Analytics on AWS, accomplished software engineer and data architect Joe Michincho delivers an expert blueprint to storing, processing, analyzing data on the Amazon Web Services cloud platform. It covers every relevant aspect of data analytics—from data engineering to analysis, business intelligence, DevOps, and ML Ops—as you discover how to integrate machine learning predictions with analytics engines and visualization tools. You'll also find real-world use cases of AWS architectures that demystify the applications of data analytics. Accessible introductions to data storage, visualization, and reporting Expert insights into serverless data engineering and how to use it to reduce overhead and costs, improve stability, and simplify maintenance A can't-miss for data architects, analysts, engineers and technical professionals. Data Analytics in the AWS Cloud will also earn a place on the bookshelves of business leaders seeking a better analytics on the AWS cloud platform.

Build interactive dashboards and storytelling reports at scale with the cloud-native BI tool that integrates embedded analytics and ML-powered insights effortlessly Key FeaturesExplore Amazon QuickSight, manage data sources, and build and share dashboardsLearn best practices from an AWS certified big data solutions architect Manage and monitor dashboards using other AWS services such as Amazon CloudTrailBook Description Amazon QuickSight is an exciting new visualization that rivals PowerBI and Tableau, bringing several exciting features to the table — but sadly, there aren't many resources out there that can help you learn the ropes. This book seeks to remedy that with the help of an AWS-certified expert who will help you. After learning QuickSight's fundamental concepts and how to configure data sources, you'll be introduced to the main analysis-building functionality of QuickSight to develop visuals and dashboards, and explore how to develop and share interactive dashboards with parameters and on-screen controls. You'll dive into advanced filtering options with URL actions before visual and scheduled reports. Next, you'll familiarize yourself with the types of insights before getting to grips with adding ML insights such as forecasting capabilities, analyzing time series data, adding narratives, and outlier detection to your dashboards. You'll also explore patterns to automate operations and lock closer into the API actions that allow us to control sensitive topics such as embedded dashboards and multitenancy. By the end of this book, you'll be well-versed with QuickSight's BI and analytics functionalities that will help you create BI apps with ML capabilities. 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Getting Started with Streamlit for Data Science

Explore Kinesis managed services such as Kinesis Data Streams, Kinesis Data Analytics, Kinesis Data Firehose, and Kinesis Video Streams with the help of practical use cases Key FeaturesGet well versed with the capabilities of Amazon KinesisExplore the monitoring, scaling, security, and deployment patterns of various Amazon Kinesis servicesLearn how other Amazon Web Services and third-party applications such as Splunk can be used as destinations for Kinesis dataBook Description Amazon Kinesis is a collection of secure, serverless, durable, and highly available purpose-built data streaming services. This data streaming service provides APIs and client SDKs that enable you to produce and consume data at scale. Scalable Data Streaming with Amazon Kinesis begins with a quick overview of the core concepts of data streams, along with the essentials of the AWS Kinesis landscape. You'll then explore the requirements of the use case shown through the book to help you get started and cover the key pain points encountered in the data stream life cycle. As you advance, you'll get to grips with the architectural components of Kinesis, understand how they are configured to build data pipelines, and delve into the applications that connect to them for consumption and processing. You'll also build a Kinesis data pipeline from scratch and learn how to implement and apply practical solutions. Moving on, you'll learn how to configure Kinesis on a cloud platform. Finally, you'll learn how other AWS services can be integrated into Kinesis. These services include Redshift, Dynamo Database, AWS S3, Elastic Search, and third-party applications such as Splunk. By the end of this AWS book, you'll be able to build and deploy your own Kinesis data pipelines with Kinesis Data Streams (KDS), Kinesis Data Firehose (KFH), Kinesis Video Streams (KVS), and Kinesis Data Analytics (KDA). What you will learnGet to grips with data streams, decoupled design, and real-time stream processingUnderstand the properties of KFH that differentiate it from other Kinesis servicesMonitor and scale KDS using CloudWatch metricsSecure KDA with identity and access management (IAM)Deploy KVS as infrastructure as code (IaC)Integrate services such as Redshift, Dynamo Database, and Splunk into KinesisWho this book is for This book is for solutions architects, developers, system administrators, data engineers, and data scientists looking to evaluate and choose the most performant, secure, scalable, and cost-effective data streaming technology to overcome their data ingestion and processing challenges on AWS. Prior knowledge of cloud architectures on AWS, data streaming technologies, and architectures is expected.

Explore the ins and outs of becoming an AWS certified DevOps professional engineer with the help of easy-to-follow practical examples and detailed explanations Key FeaturesDiscover how to implement and manage continuous delivery systems and methodologies on AWSExplore real-world scenarios and hands-on examples that will prepare you to take the DOP-C01 exam with confidenceLearn from enterprise DevOps scenarios to prepare fully for the AWS certification examBook Description The AWS Certified DevOps Engineer certification is one of the highest AWS credentials, vastly recognized in cloud computing or software development industries. This book is an extensive guide to helping you strengthen your DevOps skills as you work with your AWS workloads on a day-to-day basis. You'll begin by learning how to create and deploy a workload using the AWS code suite of tools, and then move on to adding monitoring and fault tolerance to your workload. You'll explore enterprise scenarios that'll help you to understand various AWS tools and services. This book is packed with detailed explanations of essential concepts to help you get to grips with the domains needed to pass the DevOps professional exam. As you advance, you'll delve into AWS with the help of hands-on examples and practice questions to gain a holistic understanding of the services covered in the AWS DevOps professional exam. Throughout the book, you'll find real-world scenarios that you can easily incorporate in your daily activities when working with AWS, making you a valuable asset for any organization. By the end of this AWS certification book, you'll have gained the knowledge needed to pass the AWS Certified DevOps Engineer exam, and be able to implement different techniques for delivering each service in real-world scenarios. What you will learnAutomate your pipelines, build phases, and deployments with AWS-native toolingDiscover how to implement logging and monitoring using AWS-native toolingGain a solid understanding of the services included in the AWS DevOps Professional examReinforce security practices on the AWS platform from an exam point of viewFind out how to automatically enforce standards and policies in AWS environmentsExplore AWS best practices and anti-patternsEnhance your core AWS skills with the help of exercises and practice testsWho this book is for This book is for AWS developers and Sysops administrators looking to advance their careers by achieving the highly sought-after DevOps Professional certification. Basic knowledge of AWS as well as its core services (EC2, S3, and RDS) is needed. Familiarity with DevOps concepts such as source control, monitoring, and logging, not necessarily in the AWS context, will be helpful.

Develop advanced skills for working with Linux systems on-premises and in the cloud Key FeaturesBecome proficient in everyday Linux administration tasks by mastering the Linux command line and using automationWork with the Linux filesystem, packages, users, processes, and daemonsDeploy Linux to the cloud with AWS, Azure, and KubernetesBook 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 learnUnderstand how Linux works and learn basic to advanced Linux administration skillsExplore the most widely used commands for managing the Linux filesystem, network, security, and moreGet to grips with different networking and messaging protocolsFind out how Linux security works and how to configure SELinux, AppArmor, and Linux iptablesWork with virtual machines and containers and understand container orchestration with KubernetesWork with containerized workflows using Docker and KubernetesAutomate your configuration management workflows with AnsibleWho 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.

Get more from your data with Amazon Athena's ease-of-use, interactive performance, and pay-per-query pricing Key FeaturesExplore the promising capabilities of Amazon Athena and Athena's Query Federation SDKR Athena to prepare data for common machine learning activitiesCover best practices for setting up connectivity between your application and Athena and security considerationsBook Description Amazon Athena is an interactive query service that makes it easy to analyze data in Amazon S3 using SQL, without needing to manage any infrastructure. This book begins with an overview of the serverless analytics experience offered by Athena and teaches you how to build and tune an S3 Data Lake using Athena, including how to structure your tables using open-source file formats like Parquet. You'll learn how to build, secure, and connect to a data lake with Athena and Lake Formation. Next, you'll cover key tasks such as ad hoc data analysis, working with ETL pipelines, monitoring and alerting KPI breaches using CloudWatch Metrics, running customizable connectors with AWS Lambda, and more. Moving on, you'll work through easy integrations, troubleshooting and tuning common Athena issues, and the most common reasons for query failure. You will also review tips to help diagnose and correct failing queries in your pursuit of operational excellence. Finally, you'll explore advanced concepts such as Athena Query Federation and Athena ML to generate powerful insights without needing to touch a single server. By the end of this book, you'll be able to build and use a data lake with Amazon Athena to add data-driven features to your app and perform the kind of ad hoc data analysis that often precedes many of today's ML modeling exercises. What you will learnSecure and manage the cost of querying your dataUse Athena ML and User Defined Functions (UDFs) to add advanced features to your reportsWrite your own Athena Connector to integrate with a custom data sourceAdd Athena to your applicationsSetup Identity and Access Management (IAM) policies to limit access to tables and databases in Glue Data CatalogAdd an Amazon SageMaker Notebook to your Athena queriesGet to grips with using Athena for ETL pipelinesWho this book is for Business intelligence (BI) analysts, application developers, and system administrators who are looking to generate insights from an ever-growing sea of data while controlling costs and limiting operational burden, will find this book helpful. Basic SQL knowledge is expected to make the most out of this book.

The ultimate exam guide to AWS Solutions Architect certification
Beginner's guide to hacking AWS with tools such as Kali Linux, Metasploit, and Nmap
Hands-On AWS Penetration Testing with Kali Linux
Query structured, unstructured, or semi-structured data in seconds without setting up any infrastructure
Insights from the Growth Trajectories of Successful and Unsuccessful Companies
Docker on Amazon Web Services

IBM® Spectrum Virtualize is a key member of the **IBM Spectrum™ Storage** portfolio. It is a highly flexible storage solution that enables rapid deployment of block storage services for new and traditional workloads, whether on-premises, off-premises, or a combination of both. The initial release of **IBM Spectrum Virtualize™ for Public Cloud** is now available on **Amazon Web Services (AWS)**. This **IBM Redpaper™ Redbooks** publication gives a broad understanding of the **IBM Spectrum Virtualize for Public Cloud on AWS** architecture, and provides planning and implementation details of the common use cases for this new product. This publication helps storage and networking administrators plan, implement, install, modify, and configure the **IBM Spectrum Virtualize for Public Cloud on AWS** offering. It also provides a detailed description of troubleshooting tips.

The internet is making our daily life as digital as possible and this new era is called the Internet of Everything (IoE). Edge computing is an emerging data analytics concept that addresses the challenges associated with IoE. More specifically, edge computing facilitates data analysis at the edge of the network instead of interacting with cloud-based servers. Therefore, more and more devices need to be added in remote locations without any substantial monitoring strategy. This increased connectivity and the devices used for edge computing will create more room for cyber criminals to exploit the system's vulnerabilities. Ensuring cyber security at the edge should not be an afterthought or a huge challenge. The devices used for edge computing are not designed with traditional IT hardware protocols. There are diverse-use cases in the context of edge computing and Internet of Things (IoT) in remote locations. However, the cyber security configuration and software updates are often overlooked when they are most needed to fight cyber crime and ensure data privacy. Therefore, the threat landscape in the context of edge computing becomes wider and far more challenging. There is a clear need for collaborative work throughout the entire value chain of the network. In this context, this book addresses the cyber security challenges associated with edge computing, which provides a bigger picture of the concepts, techniques, applications, and open research directions in this area. In addition, the book serves as a single source of reference for acquiring the knowledge on the technology, process and people involved in next generation computing and security. It will be a valuable aid for researchers, higher level students and professionals working in the area.

Build high-performance CI/CD pipelines that are powered by AWS and the most cutting-edge tools and techniques Key FeaturesMaster the full AWS developer toolchain for building high-performance, resilient, and powerful CI/CD pipelinesGet to grips with Chaos engineering, DevSecOps, and AIOps as applied to CI/CDEmploy the latest tools and techniques to build a CI/CD pipeline for application and infrastructureBook Description Continuous integration and continuous delivery (CI/CD) has never been so simple, but these days the landscape is more bewildering than ever; its terrain riddled with blind alleys and pitfalls that seem almost designed to trap the less-experienced developer. If you're determined enough to keep your balance on the cutting edge, this book will help you navigate the landscape with ease. This book will guide you through the most modern ways of building CI/CD pipelines with AWS, taking you step-by-step from the basics right through to the most advanced topics in this domain. The book starts by covering the basics of CI/CD with AWS. Once you're well-versed with tools such as AWS CodeStar, Proton, CodeGuru, App Mesh, SecurityHub, and CloudFormation, you'll focus on chaos engineering, the latest trend in testing the fault tolerance of your system. Next, you'll explore the advanced concepts of AIOps and DevSecOps, two highly sought-after skill sets for securing and optimizing your CI/CD systems. All along, you'll cover the full range of AWS CI/CD features, gaining real-world expertise. By the end of this AWS book, you'll have the confidence you need to create resilient, secure, and performant CI/CD pipelines using the best techniques and technologies that AWS has to offer. What you will learnUse AWS CodeStar to design and implement a full branching strategyEnforce Policy as Code using CloudFormation Guard and HashiCorp SentinelMaster app and infrastructure deployment at scale using AWS Proton and review app code using CodeGuruDeploy and manage production-grade clusters using AWS EKS, App Mesh, and X-RayHarness AWS Fault Injection Simulator to test the resiliency of your appWield the full arsenal of AWS Security Hub and Systems Manager for infrastructure security automationEnhance CI/CD pipelines with the AI-powered DevOps Guru serviceWho this book is for This book is for DevOps engineers, engineering managers, cloud developers, and cloud architects. Basic experience with the software development life cycle, DevOps, and AWS is all you need to get started.

Learn from the AWS subject-matter experts, apply real-world scenarios and clear the AWS Certified Solutions Architect -Associate exam Key FeaturesBuild highly reliable and scalable workloads on the AWS platformPass the exam in less time and with confidenceGet up and running with building and managing applications on the AWS platformBook Description Amazon Web Services (AWS) is currently the leader in the public cloud market. With an increasing global interest in leveraging cloud infrastructure, the AWS Cloud from Amazon offers a cutting-edge platform for architecting, building, and deploying web-scale cloud applications. As more the rate of cloud platform adoption increases, so does the need for cloud certification. The AWS Certified Solution Architect - Associate Guide is your one-stop solution to gaining certification. Once you have grasped what AWS and its prerequisites are, you will get insights into different types of AWS services such as Amazon S3, EC2, VPC, SNS, and more to get you prepared with core Amazon services. You will then move on to understanding how to design and deploy highly scalable applications. Finally, you will study security concepts along with the AWS best practices and mock papers to test your knowledge. By the end of this book, you will not only be fully prepared to pass the AWS Certified Solutions Architect - Associate exam but also capable of building secure and reliable applications. What you will learnExplore AWS terminology and identity and access managementAcquaint yourself with important cloud services and features in categories such as compute, network, storage, and databasesDefine access control to secure AWS resources and set up efficient monitoringBack up your database and ensure high availability by understanding all of the database-related services in the AWS CloudIntegrate AWS with your applications to meet and exceed non-functional requirementsBuild and deploy cost-effective and highly available applicationsWho this book is for The AWS Certified Solutions Architect -Associate Guide is for you if you are an IT professional or Solutions Architect wanting to pass the AWS Certified Solution Architect - Associate 2018 exam. This book is also for developers looking to start building scalable applications on AWS

Building a Data Platform for BI and Predictive Analytics on AWS

A comprehensive guide to installing, configuring, and maintaining Linux systems in the modern data center

Build, deploy, and manage your container applications at scale

Your one-stop solution for passing the AWS SysOps Administrator certification

AWS Penetration Testing

AWS Certified Advanced Networking Official Study Guide

Data Science on AWS

Work through exciting recipes to administer your AWS cloud Key Features Build secure environments using AWS components and services Explore core AWS features with real-world applications and best practices Design and build Lambda functions using real-world examples Book Description With this Learning Path, you'll explore techniques to easily manage applications on the AWS cloud. You'll begin with an introduction to serverless computing, its advantages, and the following chapters will guide you through the best practices for designing, building, and deploying applications on AWS. You'll learn how to design, build, and deploy applications on AWS, including how to secure and monitor your environment's workflow. It'll also add to your understanding of the services AWS Lambda provides to developers. To refine your skills further, it demonstrates how to design, write, test, monitor, and troubleshoot Lambda functions. By the end of this Learning Path, you'll be able to create a highly secure, fault-tolerant, and scalable environment for your applications.

This Learning Path includes content from the following Packt products: AWS Administration: The Definitive Guide, Second Edition by Yohan Wadia AWS Administration Cookbook by Rowan Udell, Lucas Chan Mastering AWS Lambda by Yohan Wadia, Udit Gupta What you will learn Explore the benefits of serverless computing and applications Deploy apps with AWS Elastic Beanstalk and Amazon Elastic File System Secure environments with AWS CloudTrail, AWSConfig, and AWS Shield Run big data analytics with Amazon EMR and Amazon Redshift Back up and safeguard data using AWS Data Pipeline Create monitoring and alerting dashboards using CloudWatch Effectively monitor and troubleshoot serverless applications with AWS Design serverless apps via AWS Lambda, DynamoDB, and API Gateway Who this book is for This Learning Path is specifically designed for IT system and network administrators, AWS architects, and DevOps engineers who want to effectively implement AWS in their organization and easily manage daily activities. Familiarity with Linux, web services, cloud computing platforms, virtualization, networking, and other administration-related tasks will assist in understanding the concepts in the book. Prior hands-on experience with AWS core services such as EC2, IAM, S3, and programming languages, such as Node.js, Java, and C#, will also prove beneficial.

Build high-performance CI/CD pipelines that are powered by AWS and the most cutting-edge tools and techniques Key FeaturesMaster the full AWS developer toolchain for building high-performance, resilient, and powerful CI/CD pipelinesGet to grips with Chaos engineering, DevSecOps, and AIOps as applied to CI/CDEmploy the latest tools and techniques to build a CI/CD pipeline for application and infrastructureBook Description Continuous integration and continuous delivery (CI/CD) has never been so simple, but these days the landscape is more bewildering than ever; its terrain riddled with blind alleys and pitfalls that seem almost designed to trap the less-experienced developer. If you're determined enough to keep your balance on the cutting edge, this book will help you navigate the landscape with ease. This book will guide you through the most modern ways of building CI/CD pipelines with AWS, taking you step-by-step from the basics right through to the most advanced topics in this domain. The book starts by covering the basics of CI/CD with AWS. Once you're well-versed with tools such as AWS CodeStar, Proton, CodeGuru, App Mesh, SecurityHub, and CloudFormation, you'll focus on chaos engineering, the latest trend in testing the fault tolerance of your system. Next, you'll explore the advanced concepts of AIOps and DevSecOps, two highly sought-after skill sets for securing and optimizing your CI/CD systems. All along, you'll cover the full range of AWS CI/CD features, gaining real-world expertise. By the end of this AWS book, you'll have the confidence you need to create resilient, secure, and performant CI/CD pipelines using the best techniques and technologies that AWS has to offer. What you will learnUnderstand data engineering concepts and emerging technologiesIngest streaming data with Amazon Kinesis Data FirehoseOptimize, denormalize, and join datasets with AWS Glue StudioUse Amazon S3 events to trigger a Lambda process to transform a Lambda process to transform a fileRun complex SQL queries on data lake data using Amazon AthenaLoad data into a Redshift data warehouse and run queriesCreate a visualization of your data using Amazon QuickSightExtract sentiment data from a dataset using Amazon ComprehendWho this book is for This book is for data engineers, data analysts, and data architects who are new to AWS and looking to extend their skills to the AWS cloud. Anyone new to data engineering who wants to learn about the foundational concepts while gaining practical experience with common data engineering services on AWS will also find this book useful. A basic understanding of big data-related topics and Python coding will help you get the most out of this book but it's not a prerequisite. Familiarity with the AWS console and core services will also help you follow along.

Scale and maintain outstanding performance in your AWS-based infrastructure using DevOps principles Key FeaturesImplement continuous integration and continuous deployment pipelines on AWSGain insight from an expert who has worked with Silicon Valley's most high-profile companiesImplement DevOps principles to take full advantage of the AWS stack and servicesBook 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 to 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 your 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 learnImplement 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.

Develop proficiency in AWS technologies and validate your skills by becoming an AWS Certified Cloud Practitioner Key Features Develop the skills to design highly available and fault-tolerant solutions in the cloud Learn how to adopt best-practice security measures in your cloud applications Achieve credibility through industry-recognized AWS Cloud Practitioner certification Book Description Amazon Web Services is the largest cloud computing service provider in the world. Its foundational certification, AWS Certified Cloud Practitioner (CLF-C01), is the first step to fast-tracking your career in cloud computing. This certification will add value even to those in non-IT roles, including professionals from sales, legal, and finance who may be working with cloud computing or AWS projects. You are a seasoned IT professional, this certification will make it easier for you to prepare for more technical certifications to progress up the AWS ladder and improve your career prospects. The book is divided into four parts: The first part focuses on the fundamentals of cloud computing and the AWS global infrastructure. The second part examines key AWS technology services, including compute, network, storage, and database services. The third part covers AWS security, the shared responsibility model, and several security tools. In the final part, you'll study the fundamentals of cloud economics and AWS pricing models and billing practices. Complete with exercises that highlight best practices for designing solutions, detailed use cases for each of the AWS services, quizzes, and two complete practice tests, this CLF-C01 exam study guide will help you gain the knowledge and hands-on experience necessary to ace the AWS Certified Cloud Practitioner exam. What you will learn Create an AWS account to access AWS cloud services in a secure and isolated environment Understand identity and access management (IAM), encryption, and multifactor authentication (MFA) protect Configure multifactor authentication for your IAM accounts Configure AWS services such as EC2, ECS, Lambda, VPCs, and Route53 Explore various storage and database services such as S3, EBS, and Amazon RDS Study the fundamentals of modern application design to shift from a monolithic to microservices architecture Design highly available solutions with decoupling ingrained in your design architecture Who this book is for If you're looking to advance your career and gain expertise in cloud computing, with particular focus on the AWS platform, this book is for you. This guide will help you ace the AWS Certified Cloud Practitioner Certification exam, enabling you to embark on a rewarding career in cloud computing. No previous IT experience is essential to get started with this book.

since it covers core IT fundamentals from the ground up

Create and deploy Streamlit web applications from scratch in Python

Learn how to build forecasting models and detect anomalies in your time series data

AWS Certified Security - Specialty Exam Guide

Effective DevOps with AWS

Amazon Redshift Cookbook

Build cloud-native mobile and web apps from scratch through continuous delivery and test automation

Time Series Analysis on AWS

Understand the IAM toolsets, capabilities, and paradigms of the AWS platform and learn how to apply practical identity use cases to AWS at the administrative and application level Key FeaturesLearn administrative lifecycle management and authorizationExtend workforce identity to AWS for applications deployed to Amazon Web Services (AWS)Understand how to use native AWS IAM capabilities with apps deployed to AWSBook Description AWS identity management offers a powerful yet complex array of native capabilities and connections to existing enterprise identity systems for administrative and application identity use cases. This book breaks down the complexities involved by adopting a use-case-driven approach that helps identity and cloud engineers understand how to use the right mix of native AWS capabilities and external IAM components to achieve the business and security outcomes they want. You will begin by learning about the IAM toolsets and paradigms within AWS. This will allow you to determine how to best leverage them for administrative control, extending workforce identities to the cloud, and using IAM toolsets and paradigms on an app deployed on AWS. Next, the book demonstrates how to extend your on-premise administrative IAM capabilities to the AWS backplane, as well as how to make your workforce identities available for AWS-deployed applications. In the concluding chapters, you'll learn how to use the native identity services with applications deployed on AWS. By the end of this IAM Amazon Web Services book, you will be able to build enterprise-class solutions for administrative and application identity using AWS IAM tools and external identity systems. What you will learnUnderstand AWS IAM concepts, terminology, and servicesExplore AWS IAM, Amazon Cognito, AWS SSO, and AWS Directory Service to solve customer and workforce identity problemsApply the concepts you learn about to solve business, process, and compliance challenges when expanding into AWSNavigate the AWS CLI to unlock the programmatic administration of AWSExplore how AWS IAM, its policy objects, and notational language can be applied to solve security and access management use casesRelate concepts easily to your own environment through IAM patterns and best practicesWho this book is for Identity engineers and administrators, cloud administrators, security architects, or anyone who wants to explore and manage IAM solutions in AWS will find this book useful. Basic knowledge of AWS cloud infrastructure and services is required to understand the concepts covered in the book more effectively.

Build, automate, and manage your infrastructure on the most popular cloud platform - AWS

AWS Certified Security Study Guide

Implementing Identity Management on AWS

Technology Workbook

Applications, Techniques and Challenges

Disciplined Growth Strategies

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