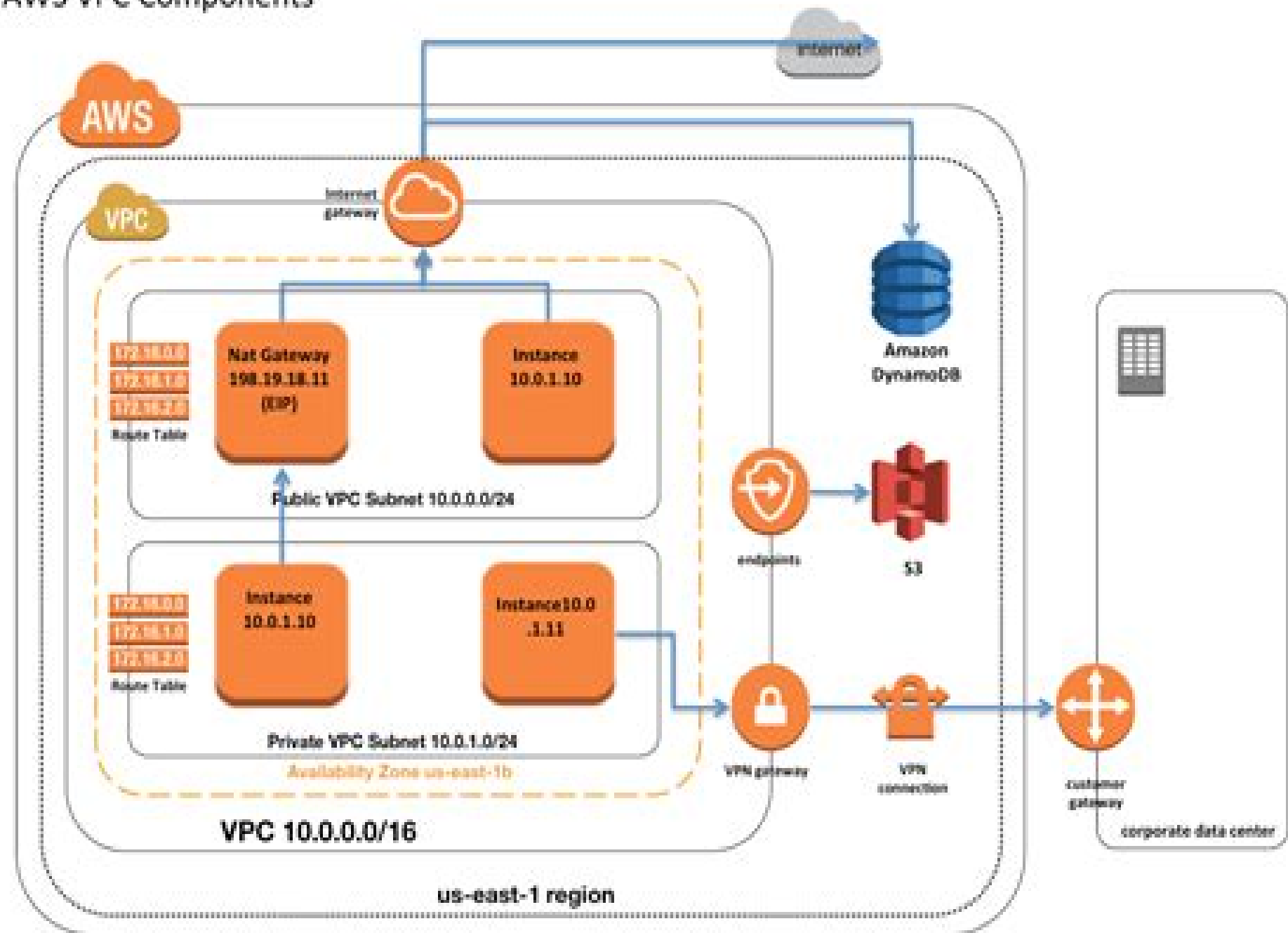


AWS VPC Components



Amazon Aws Vpc Documentation

RD Boyd



Amazon Aws Vpc Documentation:

Amazon Virtual Private Cloud Network Administrator Guide Documentation Team, 2018-06-24 Welcome to the Amazon VPC Network Administrator Guide This guide is for customers who plan to use an AWS managed IPsec VPN connection with their virtual private cloud VPC The topics in this guide help you configure your customer gateway which is the device on your side of the VPN connection The VPN connection lets you bridge your VPC and IT infrastructure and extend your existing security and management policies to EC2 instances in your VPC as if they were running within your own infrastructure

AWS certification guide - AWS Certified Advanced Networking - Specialty Cybellium, AWS Certification Guide AWS Certified Advanced Networking Specialty Master the Complex World of AWS Networking Embark on a deep dive into the specialized world of AWS networking with this essential guide for the AWS Certified Advanced Networking Specialty certification This comprehensive resource is designed for networking professionals seeking to demonstrate their expertise in designing and implementing AWS and hybrid IT network architectures at scale What You Will Find Inside In Depth Networking Concepts Explore the nuances of AWS networking including VPCs Direct Connect routing and more with detailed explanations and practical applications Advanced Architectural Strategies Learn to design and implement robust scalable network architectures that meet complex requirements and leverage AWS services to their fullest potential Focused Exam Preparation Gain an understanding of the certification exam structure with content closely aligned to each exam domain and ample practice questions to sharpen your skills Real World Scenarios Engage with case studies and practical examples that demonstrate sophisticated networking solutions and problem solving in live AWS environments Crafted by an AWS Networking Expert Written by a seasoned AWS network specialist this guide combines deep technical knowledge with practical insights providing you with an authoritative resource in AWS networking Your Pathway to Specialty Certification Whether you are an experienced network engineer or looking to specialize in AWS networking this book is your comprehensive companion guiding you through the complexities of AWS networks and preparing you for the Specialty certification exam Elevate Your Networking Expertise This guide is more than a study aid it s a deep dive into the intricacies of AWS networking designed to equip you with the advanced skills and knowledge required to excel in this specialized field Begin Your Journey to AWS Networking Excellence Step into the role of an AWS Certified Advanced Networking Specialist with confidence This guide is your first step towards achieving this prestigious certification and advancing your career in the dynamic field of AWS networking 2023 Cybellium Ltd All rights reserved www.cybellium.com

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AWS Certified Advanced Networking Study Guide Todd Montgomery, 2023-09-26 The latest edition of the official study guide for the AWS Advanced Networking certification specialty exam The newly revised second edition of the AWS Certified Advanced Networking Study Guide Specialty ANS C01 Exam delivers an expert review of Amazon Web Services Networking fundamentals as they relate to the ANS C01 exam You ll find detailed explanations of critical exam topics combined with real world scenarios that will help you build the robust knowledge base you need for the test and to succeed in the field as an AWS Certified Networking specialist Learn about the design implementation and deployment of AWS cloud based Networking solutions core services implementation AWS service architecture design and maintenance including architectural best practices monitoring Hybrid networks security compliance governance and network automation The book also offers one year of free access to Sybex s online interactive learning environment and expert study tools featuring flashcards a glossary of useful terms chapter tests practice exams and a test bank to help you keep track of your progress and measure your exam readiness The coveted AWS Advanced Networking credential proves your skills with Amazon Web Services and hybrid IT network architectures at scale It assesses your ability to apply deep technical knowledge to the design and implementation of AWS Networking services This book provides you with comprehensive review and practice opportunities so you can succeed on the challenging ANS C01 exam the first time around It also offers Coverage of all relevant exam domains and competencies Explanations of how to apply the AWS skills

discussed within to the real world in the context of an AWS Certified Networking related career Complimentary access to the practical Sybex online learning environment complete with practice exams flashcards a glossary and test bank AWS certification proves to potential employers that you have the knowledge and practical skills you need to deliver forward looking resilient cloud based solutions The AWS Certified Advanced Networking Study Guide Specialty ANS C01 Exam 2nd Edition is your ticket to the next big step in your career **Amazon Virtual Private Cloud User Guide** Documentation Team,2018-06-26 Amazon Virtual Private Cloud Amazon VPC enables you to launch AWS resources into a virtual network that you ve defined This virtual network closely resembles a traditional network that you d operate in your own data center with the benefits of using the scalable infrastructure of AWS [Amazon Redshift: The Definitive Guide](#) Rajesh Francis,Rajiv Gupta,Milind Oke,2023-10-03 Amazon Redshift powers analytic cloud data warehouses worldwide from startups to some of the largest enterprise data warehouses available today This practical guide thoroughly examines this managed service and demonstrates how you can use it to extract value from your data immediately rather than go through the heavy lifting required to run a typical data warehouse Analytic specialists Rajesh Francis Rajiv Gupta and Milind Oke detail Amazon Redshift s underlying mechanisms and options to help you explore out of the box automation Whether you re a data engineer who wants to learn the art of the possible or a DBA looking to take advantage of machine learning based auto tuning this book helps you get the most value from Amazon Redshift By understanding Amazon Redshift features you ll achieve excellent analytic performance at the best price with the least effort This book helps you Build a cloud data strategy around Amazon Redshift as foundational data warehouse Get started with Amazon Redshift with simple to use data models and design best practices Understand how and when to use Redshift Serverless and Redshift provisioned clusters Take advantage of auto tuning options inherent in Amazon Redshift and understand manual tuning options Transform your data platform for predictive analytics using Redshift ML and break silos using data sharing Learn best practices for security monitoring resilience and disaster recovery Leverage Amazon Redshift integration with other AWS services to unlock additional value

Mastering AWS Cloud Paulo H. Leocadio,2025-10-28 DESCRIPTION Cloud computing has redefined how modern businesses scale secure and innovate Amazon Web Services AWS is the world s leading cloud platform providing the essential compute storage networking and database power that runs modern applications It stands as the global leader in cloud platforms empowering millions of organizations with robust infrastructure automation and AI driven services This book provides a comprehensive expert guided journey through the AWS ecosystem You will explore core services advanced networking infrastructure as code serverless design edge computing and real world deployment architectures Each chapter demystifies one vital aspect of AWS mastery including governance observability media streaming IoT AI and global infrastructure best practices By the end readers will confidently architect secure and optimize scalable cloud solutions using AWS The readers will possess a vast practical knowledge of over 200 AWS services and be able to confidently apply the AWS

Well Architected Framework's six strategic pillars to design, optimize, and manage any cloud solution. WHAT YOU WILL LEARN: Design enterprise-grade AWS architectures; Master Spark execution model (RDDs, DAGs); Catalyst and Adaptive Query Execution; Automate infrastructure with IaC tools; Apply secure networking and Zero Trust models; Build resilient serverless and edge solutions; Deploy AI/ML workloads with AWS services; Optimize media, IoT, and hybrid environments; Architect for observability and cost efficiency; Scale infrastructure across global zones. WHO THIS BOOK IS FOR: This book is for cloud architects, DevOps engineers, solution designers, IT managers, and technical leads aiming to gain practical mastery of AWS. It also benefits advanced learners, certification candidates, and professionals building real-world production-ready cloud systems.

TABLE OF CONTENTS: Prologue, 1 AWS Architecture, 2 Compute, 3 Storage, 4 Content Delivery Network, 5 Security, Identity, and Compliance, 6 Database, 7 Developer Tools and DevOps Part 1, 8 Developer Tools and DevOps Part 2, 9 End-user Front-end and Mobile, 10 Applications for Business, 11 Analytics and Machine Learning, 12 Management and Governance, 13 Migration and Transfer, 14 AWS Well Architected Framework, Appendix 1 Smart City Architecture with AWS and the Well Architected Framework, Appendix 2 Bibliography.

AWS Certified Solutions Architect Official Study Guide Joe Baron, Hisham Baz, Tim Bixler, Biff Gaut, Kevin E. Kelly, Sean Senior, John Stamper, 2016-10-17. Validate your AWS skills. This is your opportunity to take the next step in your career by expanding and validating your skills on the AWS cloud. AWS has been the frontrunner in cloud computing products and services, and the AWS Certified Solutions Architect Official Study Guide for the Associate exam will get you fully prepared through expert content and real-world knowledge. Key exam essentials, chapter review questions, access to Sybex's interactive online learning environment, and much more. This official study guide, written by AWS experts, covers exam concepts and provides key review on exam topics including Mapping Multi-Tier Architectures to AWS Services such as web app servers, firewalls, caches, and load balancers; Understanding managed RDBMS through AWS RDS (MySQL, Oracle SQL Server, Postgres, Aurora); Understanding Loose Coupling and Stateless Systems; Comparing Different Consistency Models in AWS Services; Understanding how AWS CloudFront can make your application more cost-efficient, faster, and secure; Implementing Route Tables, Access Control Lists, Firewalls, NAT, and DNS; Applying AWS Security Features along with traditional Information and Application Security; Using Compute, Networking, Storage, and Database AWS services; Architecting Large-Scale Distributed Systems; Understanding of Elasticity and Scalability Concepts; Understanding of Network Technologies Relating to AWS; Deploying and Managing Services with tools such as CloudFormation, OpsWorks, and Elastic Beanstalk. Learn from the AWS subject matter experts' review with proven study tools and apply real-world scenarios. If you are looking to take the AWS Certified Solutions Architect Associate exam, this guide is what you need for comprehensive content and robust study tools that will help you gain the edge on exam day and throughout your career.

AWS Solutions Architect Exam Practice Questions and dumps with explanations Exam SAA-C01 Maester Books, 2020-01-14. 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 Preparing for the AWS Certified Solutions Architect Associate Exam AWS CSAA to become an AWS Certified Solutions Architect Here we ve brought 500 AWS Solutions Architect Associate Exam Questions for you so that you can prepare well for the AWS Solution Architect Associate exam This AWS Certified Solutions Architect Associate exam practice test of AWS Web Services has been advanced to test your knowledge before taking the official exam Unlike other online simulation practice tests you get an eBook version easy to read remember these questions You can simply rely on these 500 questions for successfully certifying this exam [Cloud Security Handbook](#) Eyal Estrin,2025-04-30 A complete guide to securing the core components of cloud services with practical real world examples using the built in security features of Azure AWS and GCP Key Features Discover hands on techniques for implementing robust cloud security implementation Protect your data and cloud infrastructure with tailored security strategies for your business Learn how to implement DevSecOps apply encryption detect threats and misconfigurations and maintain cloud compliance Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionSecuring cloud resources is no easy task each provider has its unique set of tools processes and challenges demanding specialized expertise This book cuts through the complexity delivering practical guidance on embedding security best practices across the core infrastructure components of AWS Azure and GCP It equips information security professionals and cloud engineers with the skills to identify risks and implement robust security controls throughout the design deployment and maintenance of public cloud environments Starting with the shared responsibility model cloud service models and deployment models this book helps you get to grips with fundamental concepts such as compute storage networking identity management and encryption You ll then explore common threats and compliance requirements for cloud environments As you progress you ll implement security strategies across deployments ranging from small scale environments to enterprise grade production systems including hybrid and multi cloud setups This edition expands on emerging topics like GenAI service security and DevSecOps with hands on examples leveraging built in security features of AWS Azure and GCP By the end of this book you ll confidently secure any cloud environment with a comprehensive understanding of cloud security principles What you will learn Grasp the fundamental concepts of cloud services Secure compute storage and networking services across cloud platforms Get to grips with identity management in the cloud Secure Generative AI services in the cloud Audit and monitor cloud services with a security focused approach Identify common threats and implement encryption to safeguard cloud services Implement security in hybrid and multi cloud environments Design and maintain scalable security for large scale cloud deployments Who this book is for This book is for IT professionals and information security personnel taking their first steps in the public cloud or migrating existing environments to the cloud Cloud engineers cloud architects and cloud security professionals responsible for maintaining production environments in the cloud will also benefit from this book Prior experience with deploying virtual machines using

storage services and networking will help you to get the most out of this book

Edge Computing with Amazon Web Services Sean Howard, 2024-02-29 Build scalable cost effective high performance and secure architectures using AWS Outposts AWS Local Zones AWS Wavelength and AWS Snow services guided by best practices and practical examples Key Features Take advantage of the opportunities and challenges arising from the exponential growth of connected devices Use AWS edge compute services to extend your applications to wherever they are needed Follow guided tutorials for building an IIoT gateway and a distributed edge application with AWS services Purchase of the print or Kindle book includes a free PDF eBook Book Description The surge in connected edge devices has driven organizations to capitalize on the opportunities presented by the massive amounts of data generated by these devices However adapting to this landscape demands significant changes in application architectures This book serves as your guide to edge computing fundamentals shedding light on the constraints and risks inherent in selecting solutions within this domain You ll explore an extensive suite of edge computing services from AWS gaining insights into when and how to use AWS Outposts AWS Wavelength AWS Local Zones AWS Snow Family and AWS IoT Greengrass With detailed use cases technical requirements and architectural patterns you ll master the practical implementation of these services and see how they work in real life through step by step examples using the AWS CLI and AWS Management Console To conclude you ll delve into essential security and operational considerations to maximize the value delivered by AWS services By the end of this book you ll be ready to design powerful edge computing architectures and handle complex edge computing use cases across multiple AWS services What you will learn Overcome network challenges faced at the near and far edge Leverage services in over 450 points of presence at the edge of the AWS global backbone Deploy edge solutions in disconnected scenarios using AWS Snow Family Build multi access edge MEC solutions with 5G and AWS Wavelength Reduce latency for your users with AWS Local Zones Configure AWS Snowcone as an IIoT gateway with AWS IoT Greengrass Extend your AWS VPC into your on premise data center with AWS Outposts Deploy distributed applications for core near and far edge cloud services Who this book is for This book is designed for cloud architects cloud engineers solutions architects and IoT architects tasked with building edge compute solutions using AWS If you want to master the full range of edge computing services offered by AWS this book is for you A basic understanding of AWS services and networking is assumed

Ansible for Real-Life Automation Gineesh Madapparambath, 2022-09-30 Learn how to automate and manage your IT infrastructure and applications using Ansible Key Features Develop Ansible automation use cases by automating day to day IT and application operations Use Ansible to automate private and public cloud application containers and container platforms Improve your DevOps workflow with Ansible Book Description Get ready to leverage the power of Ansible s wide applicability to automate and manage IT infrastructure with Ansible for Real Life Automation This book will guide you in setting up and managing the free and open source automation tool and remote managed nodes in the production and dev staging environments Starting with its installation and deployment you ll learn

automation using simple use cases in your workplace You ll go beyond just Linux machines to use Ansible to automate Microsoft Windows machines network devices and private and public cloud platforms such as VMWare AWS and GCP As you progress through the chapters you ll integrate Ansible into your DevOps workflow and deal with application container management and container platforms such as Kubernetes This Ansible book also contains a detailed introduction to Red Hat Ansible Automation Platform to help you get up to speed with Red Hat AAP and integration with CI CD and ITSM What s more you ll implement efficient automation solutions while learning best practices and methods to secure sensitive data using Ansible Vault and alternatives to automate non supported platforms and operations using raw commands command modules and REST API calls By the end of this book you ll be proficient in identifying and developing real life automation use cases using Ansible What you will learnExplore real life IT automation use cases and employ Ansible for automationDevelop playbooks with best practices for production environmentsApproach different automation use cases with the most suitable methodsUse Ansible for infrastructure management and automate VMWare AWS and GCPIntegrate Ansible with Terraform Jenkins OpenShift and KubernetesManage container platforms such as Kubernetes and OpenShift with AnsibleGet to know the Red Hat Ansible Automation Platform and its capabilitiesWho this book is for This book is for DevOps and systems engineers looking to adopt Ansible as their automation tool To get started with this book basic knowledge of Linux is necessary along with an understanding of how tasks are done the manual way before setting out to automate them

Disruptive Cloud Computing and It Rajakumar Sampathkumar,2015-05-26 Cloud Computing is a daily spoken and most commonly used terminology in every forum Every conversation with a CIO has a reference to cloud computing The objective of this book is to simplify cloud computing explain what is cloud computings impact on Enterprise IT and how business should be prepared to leverage the benefits of cloud in the right way THIS BOOK WILL BE YOUR KNOWLEDGE GATEWAY TO CLOUD COMPUTING AND NEXT GENERATION INFORMATION TECHNOLOGY MANAGEMENT Besides core cloud computing concepts and process you will also be presented with latest technologies and tools available today to onboard your assets to cloud and manage cloud better A cloud computing professional who has worked with several cloud providers and organizations of varied sizes writes this book so expect real life examples techniques process and working models for every scenario in strategizing migrating and managing IT infrastructure in the cloud The book is carefully structured to gradually take the readers through the basics of cloud computing concepts terminologies implementation and management techniques through traditional IT management so that readers can easily connect ends Several transformational working models and best practices are discussed throughout the book If you are looking for a book on cloud computing thecloudbook is the right book for you If you have already purchased any books on cloud computing read thecloudbook and then go through the other books you will understand the other books better thecloudbook is a must for every IT professional

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1 Question Bank Suggested Answers Learn the rationale behind each correct choice 2 Summary of Internet Discussions Gain insights from online conversations that break down complex topics 3 AI Recommended Answers with Full Reasoning and Citations Trust in clear accurate explanations powered by AI backed by reliable references Your Path to Certification Success This isn't just another study guide it's a complete learning tool designed to empower you to grasp the core concepts of AWS Certified Cloud Practitioner Our practice questions prepare you for every aspect of the CLF C02 exam ensuring you're ready to excel Say goodbye to confusion and hello to a confident in depth understanding that will not only get you certified but also help you succeed long after the exam is over Start your journey to mastering the AWS Certified AWS Certified Cloud Practitioner certification today with our CLF C02 question bank Learn more AWS Certified AWS Certified Cloud Practitioner <https://aws.amazon.com/certification/certified-cloud-practitioner> *DVA-C02 Practice Questions for AWS Developer - Associate Certification* Dormouse Quillsby, NotJustExam DVA C02 Practice Questions for AWS Developer Associate Certification Master the Exam Detailed Explanations Online Discussion Summaries AI Powered Insights Struggling to find quality study materials for the AWS Certified Developer Associate DVA C02 exam Our question bank offers over 550 carefully selected practice questions with detailed explanations insights from online discussions and AI enhanced reasoning to help you master the concepts and ace the certification Say goodbye to inadequate resources and confusing online answers we're here to transform your exam preparation experience Why Choose Our DVA C02 Question Bank Have you ever felt that official study materials for the DVA C02 exam don't cut it Ever dived into a question bank only to find too few quality questions Perhaps you've encountered online answers that lack clarity reasoning or proper citations We understand your frustration and our DVA C02 certification prep is designed to change that Our DVA C02 question bank is more than just a brain dump it's a comprehensive study companion focused on deep understanding not rote memorization With over 550 expertly curated practice questions you get 1 Question Bank Suggested Answers Learn the rationale behind each correct choice 2 Summary of Internet Discussions Gain insights from online conversations that break down complex topics 3 AI Recommended Answers with Full Reasoning and Citations Trust in clear accurate explanations powered by AI backed by reliable references Your Path to Certification Success This isn't just another study guide it's a complete learning tool designed to empower you to grasp the core concepts of Developer Associate Our practice questions prepare you for every aspect of the DVA C02 exam ensuring you're ready to excel Say goodbye to confusion and hello to a confident in depth understanding that will not only get you certified but also help you succeed long after the exam is over Start your journey to mastering the AWS Certified Developer Associate certification today with our DVA C02 question bank Learn more AWS Certified Developer Associate <https://aws.amazon.com/certification/certified-developer-associate> **Mastering Infrastructure as Code with AWS CloudFormation** Anchal Gupta, 2024-12-24 DESCRIPTION In today's evolving cloud landscape IaC bridges software development and infrastructure management AWS CloudFormation a powerful AWS service enables you to define provision

and manage infrastructure through code This comprehensive guide is your key to unlocking the full potential of AWS CloudFormation providing the knowledge and skills needed to create automate and optimize AWS infrastructures with precision Begin your journey with the essentials of AWS CloudFormation and create templates manage stacks and navigate the CloudFormation console with confidence Progress to mastering the design of scalable secure and efficient cloud architectures Explore advanced techniques such as dynamic parameters reusable templates and stack dependency management With practical real world examples you will not only learn the theory but also gain hands on experience automating deployments implementing security protocols and ensuring compliance in your cloud environment Upon completing this guide you will emerge as a proficient AWS CloudFormation expert capable of crafting and managing AWS infrastructures with code The future of cloud technology is agile scalable and version controlled and you will be at the forefront of this transformative shift

KEY FEATURES Learn how to automate AWS Cloud infrastructure using CloudFormation templates with infrastructure as code IaC Master the design of reusable and scalable CloudFormation templates for better efficiency Discover advanced topics like stack dependencies dynamic parameters and best practices for secure AWS infrastructure

WHAT YOU WILL LEARN Automate AWS infrastructure with reusable CloudFormation templates Design scalable secure cloud infrastructure with best practices Manage stack dependencies and dynamic parameters efficiently Integrate compliance and monitoring into cloud environments using automation Optimize infrastructure deployments minimizing downtime and manual errors Confidently manage complex AWS infrastructure setups with IaC principles

WHO THIS BOOK IS FOR This book is a versatile resource for a diverse audience including AWS enthusiasts architects IT professionals DevOps practitioners SREs and developers It caters to all skill levels from beginners to advanced users aiming to master CloudFormation and IaC

TABLE OF CONTENTS Section I Foundations of AWS CloudFormation 1 Getting Started with AWS CloudFormation 2 CloudFormation Template Fundamentals Section II Template Deep Dive 3 Version Description and Resources 4 Parameters Metadata Mappings and Conditions 5 Macros Transform and Outputs 6 Pseudo Parameters and Intrinsic Functions 7 Enhancing Amazon Web Services CloudFormation 8 Advanced CloudFormation Custom Deployment and VPC Endpoint 9 Harnessing the Power of CloudFormation Designer Section III Stack Management 10 Understanding Stacks and Management 11 Nested Stacks 12 Understanding StackSets and Change Sets Section IV Continuous delivery and Best Practices 13 CloudFormation Continuous delivery 14 Best Practices and Sample Templates

Effective DevOps with AWS Yogesh Raheja, Giuseppe Borgese, Nathaniel Felsen, 2018-09-28 Scale and maintain outstanding performance in your AWS based infrastructure using DevOps principles Key Features Implement continuous integration and continuous deployment pipelines on AWS Gain insight from an expert who has worked with Silicon Valley s most high profile companies Implement DevOps principles to take full advantage of the AWS stack and services

Book Description The DevOps movement has transformed the way modern tech companies work Amazon Web Services AWS which

has been at the forefront of the cloud computing revolution has also been a key contributor to the DevOps movement creating a huge range of managed services that help you implement DevOps principles Effective DevOps with AWS Second Edition will help you to understand how the most successful tech start ups launch and scale their services on AWS and will teach you how you can do the same This book explains how to treat infrastructure as code meaning you can bring resources online and offline as easily as you control your software You will also build a continuous integration and continuous deployment pipeline to keep your app up to date Once you have gotten to grips with all this we'll move on to how to scale your applications to offer maximum performance to users even when traffic spikes by using the latest technologies such as containers In addition to this you'll get insights into monitoring and alerting so you can make sure your users have the best experience when using your service In the concluding chapters we'll cover inbuilt AWS tools such as CodeDeploy and CloudFormation which are used by many AWS administrators to perform DevOps By the end of this book you'll have learned how to ensure the security of your platform and data using the latest and most prominent AWS tools What you will learn Implement automatic AWS instance provisioning using CloudFormation Deploy your application on a provisioned infrastructure with Ansible Manage infrastructure using Terraform Build and deploy a CI/CD pipeline with Automated Testing on AWS Understand the container journey for a CI/CD pipeline using AWS ECS Monitor and secure your AWS environment Who 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

AWS Administration - The Definitive Guide Yohan Wadia, 2016-02-12 Learn to design build and manage your infrastructure on the most popular of all the Cloud platforms Amazon Web Services About This Book Learn how to leverage various Amazon Web Services AWS components and services to build a secure reliable and robust environment to host your applications on Deep dive into the core AWS service offerings with hands on tutorials real world use case scenarios and best practices A self paced systematic and step by step guide to learning and implementing AWS in your own environment Who This Book Is For This book is for those who want to learn and leverage AWS Although no prior experience with AWS is required it is recommended that you have some hands on experience of Linux Web Services and basic networking What You Will Learn A brief introduction to Cloud Computing and AWS accompanied by steps to sign up for your first AWS account Create and manage users groups and permissions using AWS IAM Identity and Access Management services Get started with deploying and accessing EC2 instances working with EBS Volumes and Snapshots Customize and create your very own Amazon Machine Image Design and deploy your instances on a highly secured network isolated environment using Amazon VPC Effectively monitor your AWS environment using specialized alarms custom monitoring metrics and much more Explore the various benefits of Database as a Service offerings and leverage them using Amazon RDS and Amazon DynamoDB Take an in depth look at what's new with AWS including EC2 Container Service and Elastic File System In Detail

AWS is at the forefront of Cloud Computing today Many businesses are moving away from traditional datacenters and toward AWS because of its reliability vast service offerings lower costs and high rate of innovation Because of its versatility and flexible design AWS can be used to accomplish a variety of simple and complicated tasks such as hosting multitier websites running large scale parallel processing content delivery petabyte storage and archival and lots more Whether you are a seasoned sysadmin or a rookie this book will provide you with all the necessary skills to design deploy and manage your applications on the AWS cloud platform The book guides you through the core AWS services such as IAM EC2 VPC RDS and S3 using a simple real world application hosting example that you can relate to Each chapter is designed to provide you with the most information possible about a particular AWS service coupled with easy to follow hands on steps best practices tips and recommendations By the end of the book you will be able to create a highly secure fault tolerant and scalable environment for your applications to run on Style and approach This in depth and insightful guide is filled with easy to follow examples real world use cases best practices and recommendations that will help you design and leverage AWS

Pro PowerShell for Amazon Web Services Brian Beach, 2014-01-14 *Pro PowerShell for Amazon Web Services* is written specifically for Windows professionals who already know PowerShell and want to learn to host Windows workloads in the Amazon Elastic Cloud Compute EC2 cloud service The cloud offers information technology workers significant cost savings and agility unimaginable even just a few years ago Tasks that traditionally took weeks of work costing thousands of dollars can be completed in minutes for a fraction of a penny This book is a resource for using Microsoft's powerful scripting language PowerShell to create host manage and administer workloads using a service widely recognized as the industry leader in cloud computing Inside find scripts to create and manage virtual machines provision storage configure networks with agility and more all using your preferred Windows scripting language Use your PowerShell knowledge to harness the power of Amazon EC2 today What you'll learn Create manage and terminate Windows servers in the cloud Manage storage options including backup and recovery Configure a virtual network including subnets and route tables Secure your servers using security groups and access control lists Use Auto Scaling to respond to changing conditions Deploy SQL Server using Relational Database Service Use Simple Storage Service S3 to reliably store and archive data Control access to resources using Identity and Access Management IAM Who this book is for *Pro PowerShell for Amazon Web Services* is for the intermediate to advanced Windows professional who is ready to make the leap to the Amazon cloud

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