

# Download Serial Number Now Amazon Web Services

*A Beginners Guide to Amazon Web Services* Parul Dubey,Rohit Raja.2024-01-18 Amazon Web Services (AWS) provides on-demand cloud computing platforms and application programming interfaces (APIs) to individuals, companies, and govern- ments, along with distributed computing processing capacity and software tools via AWS server farms. This text presents a hands-on approach for beginners to get started with Amazon Web Services (AWS) in a simple way. Key Features It discusses topics such as Amazon Elastic Compute Cloud, Elastic Load Balancing, Auto Scaling Groups, and Amazon Simple Storage Service. It showcases Amazon Web Services' identity, access management resources, and attribute-based access control. It covers serverless computing services, Virtual Private Cloud, Amazon Aurora, and Amazon Comprehend. It explains Amazon Web Services Free Tier, Amazon Web Services Marketplace, and Amazon Elastic Container Service. It includes security in Amazon Web Services, the shared responsibility model, and high-performance computing on Amazon Web Services. The text is primarily written for graduate students, professionals, and academic researchers working in the fields of computer science, engineering, and information technology. Parul Dubey is currently working as an Assistant professor in the Department of Artificial Intelligence at G H Raison College of Engineering, Nagpur, India. She has filed for 15 Indian patents. She is responsible for about 10 publications in conference proceedings,

Scopus, and journals. She has contributed book chapters in an edited book published by CRC Press and other reputed publishers. She is also an AWS Certified Cloud Practitioner. Rohit Raja is working as an associate professor and head in the Department of Information Technology at Guru Ghasidas Vishwavidyalaya, Bilaspur, India. His research interests include facial recognition, signal processing, networking, and data mining. He has published 100 research papers in various international and national journals (including publications by the IEEE, Springer, etc.) and proceedings of reputed international and national conferences (again including publications by Springer and the IEEE).

[Amazon Web Services For Dummies](#) Bernard Golden.2013-08-09 Create dynamic cloud-based websites with Amazon Web Services and this friendly guide! As the largest cloud computing platform in the world, Amazon Web Services (AWS) provides one of the most popular web services options available. This easy-to-understand guide is the perfect introduction to the Amazon Web Services platform and all it can do for you. You'll learn about the Amazon Web Services tool set; how different web services (including S3, Amazon EC2, and Amazon Flexible Payments) and Glacier work; and how you can implement AWS in your organization. Explains how to use Amazon Web Services to store objects, take payments, manage large quantities of data, send e-mails, deploy push notifications, and more from your website Details how AWS can reduce costs, improve efficiency, increase productivity, and cut down on expensive hardware investments - and administrative headaches - in your organization Includes practical examples and helpful step-by-step lists to help you experiment with different AWS features and create a robust website that meets your needs Amazon Web Services For Dummies is exactly what you need to get your head in the cloud with Amazon Web Services!

**Scalable Cloud Ops with Fugue** Josha Stella.2017-07-11 Harness the promise of the cloud with

Fugue, an operating system built for the cloud. Program cloud infrastructure in a fraction of the time it takes with current tools, debug infrastructure at design time, and centralize your change control process. Written by the Fugue development team, this is the definitive resource to scalable cloud operations with Fugue. Cloud computing represents the greatest shift in computing in more than a decade. But the promise of the cloud is unrealized. The cloud isn't just about shedding the physical data center - it's about shedding the data center mindset. Cloud infrastructure can be controlled via API calls. This means we can view it as a giant general-purpose compute - and program it. That's where the Fugue operating system and the Ludwig language come in. They automate the creation, operation, enforcement, and termination of infrastructure in the cloud. This definitive Fugue guide starts with a simple website and moves on to a more robust application with evolving infrastructure needs as you walk through the steps to harnessing the cloud. With Amazon Web Services, launch infrastructure quickly. Debug in design time. Automate deployment and enforcement of your cloud. Centralize your change control process and automate continuous auditing. Rest easy knowing configuration drift, unwanted changes, and infrastructure quality issues are addressed, continuously and automatically. Hands-on chapters lead you through creating this application step by step. If you're a software engineer, architect, DevOps professional, or enterprise team leader using cloud computing for running applications and websites, this book will change the way you view cloud computing. What You Need: An Amazon Web Services (AWS) account and a basic familiarity with the AWS Console.

**Programming Amazon EC2** Jurg van Vliet, Flavia Paganelli. 2011-02-11 If you plan to use Amazon Web Services to run applications in the cloud, the end-to-end approach in this book will save you needless trial and error. You'll find practical guidelines for designing and building applications with

Amazon Elastic Compute Cloud (EC2) and a host of supporting AWS tools, with a focus on critical issues such as load balancing, monitoring, and automation. How do you move an existing application to AWS, or design your application so that it scales effectively? How much storage will you require? Programming Amazon EC2 not only helps you get started, it will also keep you going once you're successfully positioned in the cloud. This book is a must-read for application architects, developers, and administrators. Determine your application's lifecycle and identify the AWS tools you need. Learn how to build and run your application as part of the development process. Migrate simple web applications to the cloud with EC2, Amazon Simple Storage Service, and CloudFront content delivery. Meet traffic demand with EC2's Auto Scaling and Elastic Load Balancing. Decouple your application using Simple Queue Service, Simple Notification Service, and other tools. Use the right tools to minimize downtime, improve uptime, and manage your decoupled system. Jurg and Flavia have done a great job in this book building a practical guide on how to build real systems using AWS. --Werner Vogels, VP & CTO at Amazon.com

**Architecting AWS with Terraform** Erol Kavas. 2023-12-29 Accelerate your business growth by employing Terraform for AWS projects with this comprehensive guide packed with practical implementation tips for start-ups, enterprises, and personal projects. Key Features: Learn Terraform on AWS from 12x AWS certified trainer. Improve reusability and governance for large-scale Terraform projects. Use infrastructure as code practices to fully automate AWS workloads. Purchase of the print or Kindle book includes a free PDF eBook. Book Description: Infrastructure as code (IaC) and Terraform have become essential tools for managing cloud infrastructure and automating deployment processes. Mastering Terraform on AWS presents a step-by-step approach on how to master these tools and build a secure and scalable AWS infrastructure. The book starts with an

introduction to patterns and anti-patterns of IaC and Terraform, explaining the common mistakes and pitfalls you must avoid. You'll then learn about the importance of planning and designing infrastructure projects in AWS and making informed decisions for projects in AWS Terraform. You'll find out how to implement Terraform in your projects and deploy serverless projects. Next, you'll be able to deploy containers in AWS with Terraform, exploring the best practices for Terraform IaC projects. You'll understand how you can leverage Terraform for enterprises, build Git workflows for IaC and Terraform projects, and automate deployment of Terraform projects. The last set of chapters will teach you how to govern AWS with Terraform and build a secure infrastructure. Finally, you'll discover how to achieve a perfect AWS infrastructure with Terraform. By the end of this book, you'll have gained a comprehensive understanding of the various aspects of Terraform and IaC, along with the knowledge required to build, manage, and deploy complex infrastructures on AWS. What you will learn

- Get to grips with Terraform frameworks and best practices
- Use Terraform providers and modules
- Develop your first AWS resource in Terraform
- Build an infrastructure project with Terraform
- Govern an infrastructure project in Terraform
- Deploy Terraform projects to AWS with CI/CD

Who this book is for This book is for cloud and DevOps engineers, developers, and architects responsible for writing or designing infrastructure as code to deploy resources in AWS. You are expected to have a basic understanding of AWS and should have experience deploying resources through the user interface (UI).

**AWS Certified Developer Official Study Guide, Associate Exam** Nick Alteen, Jennifer Fisher, Casey Gerena, Wes Gruver, Asim Jalis, Heiwad Osman, Marife Pagan, Santosh Patlolla, Michael Roth. 2019-08-22 Foreword by Werner Vogels, Vice President and Corporate Technology Officer, Amazon The AWS exam has been updated. Your study guide should be, too. The AWS Certified

Developer Official Study Guide–Associate Exam is your ultimate preparation resource for the latest exam! Covering all exam objectives, this invaluable resource puts a team of AWS experts at your side with expert guidance, clear explanations, and the wisdom of experience with AWS best practices. You'll master core services and basic architecture, and equip yourself to develop, deploy, and debug cloud-based applications using AWS. The AWS Developer certification is earned by those who demonstrate the technical knowledge and skill associated with best practices for building secure, reliable cloud-based applications using AWS technology. This book is your official exam prep companion, providing everything you need to know to pass with flying colors. Study the AWS Certified Developer Exam objectives Gain expert insight on core AWS services and best practices Test your understanding of key concepts with challenging chapter questions Access online study tools including electronic flashcards, a searchable glossary, practice exams, and more Cloud computing offers businesses the opportunity to replace up-front capital infrastructure expenses with low, variable costs that scale as they grow. This customized responsiveness has negated the need for far-future infrastructure planning, putting thousands of servers at their disposal as needed—and businesses have responded, propelling AWS to the number-one spot among cloud service providers. Now these businesses need qualified AWS developers, and the AWS certification validates the exact skills and knowledge they're looking for. When you're ready to get serious about your cloud credentials, the AWS Certified Developer Official Study Guide–Associate Exam is the resource you need to pass the exam with flying colors. NOTE: As of October 7, 2019, the accompanying code for hands-on exercises in the book is available for downloading from the secure Resources area in the online test bank. You'll find code for Chapters 1, 2, 11, and 12.

**Expert AWS Development** Atul Mistry.2018-03-29 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.

**Introduction to Middleware** Letha Hughes Etzkorn.2017-06-12 A stereotype of computer science textbooks is that they are dry, boring, and sometimes even intimidating. As a result, they turn students' interests off from the subject matter instead of enticing them into it. This textbook is the opposite of such a stereotype. The author presents the subject matter in a refreshing story-telling style and aims to bring the Internet-generation of students closer to her stories. --Yingcai Xiao, The University of Akron Introduction to Middleware: Web Services, Object Components, and Cloud Computing provides a comparison of different middleware technologies and the overarching middleware concepts they are based on. The various major paradigms of middleware are introduced and their pros and cons are discussed. This includes modern cloud interfaces, including the utility of Service Oriented Architectures. The text discusses pros and cons of RESTful vs. non-RESTful web services, and also compares these to older but still heavily used distributed object/component middleware. The text guides readers to select an appropriate middleware technology to use for any



given task, and to learn new middleware technologies as they appear over time without being greatly overwhelmed by any new concept. The book begins with an introduction to different distributed computing paradigms, and a review of the different kinds of architectures, architectural styles/patterns, and properties that various researchers have used in the past to examine distributed applications and determine the quality of distributed applications. Then it includes appropriate background material in networking and the web, security, and encoding necessary to understand detailed discussion in this area. The major middleware paradigms are compared, and a comparison methodology is developed. Readers will learn how to select a paradigm and technology for a particular task, after reading this text. Detailed middleware technology review sections allow students or industry practitioners working to expand their knowledge to achieve practical skills based on real projects so as to become well-functional in that technology in industry. Major technologies examined include: RESTful web services (RESTful cloud interfaces such as OpenStack, AWS EC2 interface, CloudStack; AJAX, JAX-RS, ASP.NET MVC and ASP.NET Core), non-RESTful (SOAP and WSDL-based) web services (JAX-WS, Windows Communication Foundation), distributed objects/ components (Enterprise Java Beans, .NET Remoting, CORBA). The book presents two projects that can be used to illustrate the practical use of middleware, and provides implementations of these projects over different technologies. This versatile and class-tested textbook is suitable (depending on chapters selected) for undergraduate or first-year graduate courses on client server architectures, middleware, and cloud computing, web services, and web programming.

Learn Amazon Web Services in a Month of Lunches David Clinton.2017-08-18 Summary Learn Amazon Web Services in a Month of Lunches guides you through the process of building a robust and secure web application using the core AWS services you really need to know. You'll be amazed

by how much you can accomplish with AWS! Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Cloud computing has transformed the way we build and deliver software. With the Amazon Web Services cloud platform, you can trade expensive glass room hardware and custom infrastructure for virtual servers and easy-to-configure storage, security, and networking services. Better, because you don't own the hardware, you only pay for the computing power you need! Just learn a few key ideas and techniques and you can have applications up and running in AWS in minutes. About the Book Learn Amazon Web Services in a Month of Lunches gets you started with AWS fast. In just 21 bite-size lessons, you'll learn the concepts and practical techniques you need to deploy and manage applications. You'll learn by doing real-world labs that guide you from the core AWS tool set through setting up security and storage and planning for growth. You'll even deploy a public-facing application that's highly available, scalable, and load balanced. What's Inside First steps with AWS - no experience required Deploy web apps using EC2, RDS, S3, and Route 53 Cheap and fast system backups Setting up cloud automation About the Reader If you know your way around Windows or Linux and have a basic idea of how web applications work, you're ready to start using AWS. About the Author David Clinton is a system administrator, teacher, and writer. He has administered, written about, and created training materials for many important technology subjects including Linux systems, cloud computing (AWS in particular), and container technologies like Docker. Many of his video training courses can be found on Pluralsight.com, and links to his other books (on Linux administration and server virtualization) can be found at <https://bootstrap-it.com>. Table of Contents Before you begin PART 1 - THE CORE AWS TOOLS The 10-minute EC2 web server Provisioning a more robust EC2 website Databases on AWS DNS: what's in a name? S3: cheap, fast file storage S3: cheap, fast

system backups AWS security: working with IAM users, groups, and roles Managing growth Pushing back against the chaos: using resource tags CloudWatch: monitoring AWS resources for fun and profit Another way to play: the command-line interface PART 2 - THE AWS POWER USER: OPTIMIZING YOUR INFRASTRUCTURE Keeping ahead of user demand High availability: working with AWS networking tools High availability: load balancing High availability: auto scaling High availability: content-delivery networks PART 3 - FOOD FOR THOUGHT: WHAT ELSE CAN AWS DO FOR YOU? Building hybrid infrastructure Cloud automation: working with Elastic Beanstalk, Docker, and Lambda Everything else (nearly) Never the end

**Mastering Python Networking** Eric Chou.2018-08-29 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.

The Kubernetes Bible Nassim Kebbani, Piotr Tylenda, Russ McKendrick. 2022-02-24 Get up and running with Kubernetes 1.19 and simplify the way you build, deploy, and maintain scalable distributed systems Key Features Design and deploy large clusters on various cloud platforms Explore containerized application deployment, debugging, and recovery with the latest Kubernetes version 1.19 Become well-versed with advanced Kubernetes topics such as traffic routing or Pod autoscaling and scheduling Book Description With its broad adoption across various industries, Kubernetes is helping engineers with the orchestration and automation of container deployments on a large scale, making it the leading container orchestration system and the most popular choice for running containerized applications. This Kubernetes book starts with an introduction to Kubernetes and containerization, covering the setup of your local development environment and the roles of the most important Kubernetes components. Along with covering the core concepts necessary to make the most of your infrastructure, this book will also help you get acquainted with the fundamentals of Kubernetes. As you advance, you'll learn how to manage Kubernetes clusters on cloud platforms,

such as Amazon Web Services (AWS), Microsoft Azure, and Google Cloud Platform (GCP), and develop and deploy real-world applications in Kubernetes using practical examples. Additionally, you'll get to grips with managing microservices along with best practices. By the end of this book, you'll be equipped with battle-tested knowledge of advanced Kubernetes topics, such as scheduling of Pods and managing incoming traffic to the cluster, and be ready to work with Kubernetes on cloud platforms. What you will learn

Manage containerized applications with Kubernetes  
Understand Kubernetes architecture and the responsibilities of each component  
Set up Kubernetes on Amazon Elastic Kubernetes Service, Google Kubernetes Engine, and Microsoft Azure Kubernetes Service  
Deploy cloud applications such as Prometheus and Elasticsearch using Helm charts  
Discover advanced techniques for Pod scheduling and auto-scaling the cluster  
Understand possible approaches to traffic routing in Kubernetes

Who this book is for This book is for software developers and DevOps engineers looking to understand how to work with Kubernetes for orchestrating containerized applications and services in the cloud. Prior experience with designing software running in operating system containers, as well as a general background in DevOps best practices, will be helpful. Basic knowledge of Kubernetes, Docker, and leading cloud service providers assist with grasping the concepts covered easily.

*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.  
*ECCWS 2019 18th European Conference on Cyber Warfare and Security* Tiago Cruz ,Paulo Simoes.2019-07-04

**Amazon Web Services** Rob Linton.2011-07-22 Evaluate your Cloud requirements and successfully migrate your .NET Enterprise Application to the Amazon Web Services Platform.

**Oracle Soa Suite Performance Tuning Cookbook** Matthew Brasier.2013-01-01 This is a Cookbook with interesting, hands-on recipes, giving detailed descriptions and lots of practical walkthroughs for boosting the performance of your Oracle SOA Suite.This book is for Oracle SOA Suite 11g administrators, developers, and architects who want to understand how they can maximise the performance of their SOA Suite infrastructure. The recipes contain easy to follow step-by-step instructions and include many helpful and practical tips. It is suitable for anyone with basic operating system and application server administration experience.

[AWS Certified Solutions Architect Official Study Guide](#) Joe Baron,Hisham Baz,Tim Bixler,Biff Gaut,Kevin E. Kelly,Sean Senior,John Stamper.2016-09-28 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.

**Amazon Web Services Bootcamp** Sunil Gulabani.2018-03-30 This fast-paced guide will quickly enhance your skills to develop a highly scalable Cloud environment Key Features Efficiently build a highly scalable and reliable cloud environment for your applications with AWS Leverage the various AWS components and services to build a secure, reliable, and robust environment to host your applications on This quick-start guide will quickly enhance your skills to develop highly scalable services Book Description AWS is at the forefront of Cloud Computing today. Businesses are adopting AWS Cloud because of its reliability, versatility, and flexible design. The main focus of this book is teaching you how to build and manage highly reliable and scalable applications and services on AWS. It will provide you with all the necessary skills to design, deploy, and manage your applications and services on the AWS cloud platform. We'll start by exploring Amazon S3, EC2, and



so on to get you well-versed with core Amazon services. Moving on, we'll teach you how to design and deploy highly scalable and optimized workloads. You'll also discover easy-to-follow, hands-on steps, tips, and recommendations throughout the book and get to know essential security and troubleshooting concepts. By the end of the book, you'll be able to create a highly secure, fault tolerant, and scalable environment for your applications to run on. What you will learn Find out about IAM to access AWS services securely Explore EC2 (virtual server) and scale up/down your application based on heavy traffic Learn about unlimited data storage service S3 and host a static website within minutes Get to grips with Relational Databases and NoSQL databases under the AWS ecosystem Understand the caching mechanism Get to know about notifications service and monitor AWS services Secure and troubleshoot your AWS architecture Who this book is for This book is for IT professionals and system administrators looking to design, deploy, and manage your applications and services on the AWS cloud platform. It's also ideal for developers looking to build highly scalable cloud-based services. A basic understanding of AWS would be beneficial.

**Learning AWS IoT** Agus Kurniawan.2018-01-29 Learn to use AWS IoT services to build your connected applications with the help of this comprehensive guide. Key Features Gets you started with AWS IoT and its functionalities Learn different modules of AWS IoT with practical use cases. Learn to secure your IoT communication Book Description The Internet of Things market increased a lot in the past few years and IoT development and its adoption have showed an upward trend. Analysis and predictions say that Enterprise IoT platforms are the future of IoT. AWS IoT is currently leading the market with its wide range of device support SDKs and versatile management console. This book initially introduces you to the IoT platforms, and how it makes our IoT development easy. It then covers the complete AWS IoT Suite and how it can be used to develop secure communication

between internet-connected things such as sensors, actuators, embedded devices, smart applications, and so on. The book also covers the various modules of AWS: AWS Greengrass, AWS device SDKs, AWS IoT Platform, AWS Button, AWS Management consoles, AWS-related CLI, and API references, all with practical use cases. Near the end, the book supplies security-related best practices to make bi-directional communication more secure. When you've finished this book, you'll be up-and-running with the AWS IoT Suite, and building IoT projects. What you will learn Implement AWS IoT on IoT projects Learn the technical capabilities of AWS IoT and IoT devices Create IoT-based AWS IoT projects Choose IoT devices and AWS IoT platforms to use based on the kind of project you need to build Deploy AWS Greengrass and AWS Lambda Develop program for AWS IoT Button Visualize IoT AWS data Build predictive analytics using AWS IoT and AWS Machine Learning Who this book is for This book is for anyone who wants to get started with the AWS IoT Suite and implement it with practical use cases. This book acts as an extensive guide, on completion of which you will be in a position to start building IoT projects using AWS IoT platform and using cloud services for your projects.

*Amazon Web Services in Action, Third Edition* Andreas Wittig.2023-05-30 Master essential best practices for deploying and managing applications on Amazon Web Services. This revised bestseller is packed with techniques for building highly available and scalable architectures and automating deployment with Infrastructure as Code. Leverage globally distributed data centers to launch virtual machines with EC2 Store and archive large volumes of data with EBS, S3, and EFS Persist and query data with highly available and scalable database systems with RDS and DynamoDB Enhance performance with caching data in-memory with ElastiCache and MemoryDB Use Infrastructure as Code to automate your cloud infrastructure Secure workloads running in the cloud with VPC and

IAM Build fault-tolerant web applications with ALB and SQS Automate common sysadmin tasks with Lambda, CLI, and SDK Build cloud-native applications based on containers with AppRunner, ECS, Fargate Thousands of developers have chosen Amazon Web Services in Action: An in-depth guide to AWS to help them succeed with the AWS cloud. Readers love this all-practical handbook for its complete introduction to computing, storage, and networking, along with best practices for all core AWS services. This revised third edition features new chapters on containerization, along with a variety of AWS innovations. You'll also learn how automating your infrastructure with IAC is a game changer for your cloud deployment, delivering a massive boost to efficiency and quality. About the Technology Amazon Web Services, the leading cloud computing platform, offers customers APIs for on-demand access to computing services. Rich in examples and best practices of how to use AWS, this Manning bestseller is now released in its third, revised, and improved edition. About the Book In Amazon Web Services in Action, Third Edition: An in-depth guide to AWS, the Wittig brothers give you a comprehensive, practical introduction to deploying and managing applications on the AWS cloud platform. With a sharp focus on the most important AWS tasks and services, they will save you hours of unproductive time. You'll learn hands-on as you complete real-world projects like hosting a WordPress site, setting up a private cloud, and deploying an app on containers. What's Inside Leverage globally distributed data centers to launch virtual machines Enhance performance with caching data in-memory Secure workloads running in the cloud with VPC and IAM Build fault-tolerant web applications with ALB and SQS About the Reader Written for mid-level developers, DevOps or platform engineers, architects, and system administrators. About the Author Andreas Wittig and Michael Wittig are software engineers and consultants focused on AWS. Together, they migrated the first bank in Germany to AWS in 2013.

Learn Amazon Web Services in a Month of Lunches David Clinton.2017-08-18 Summary Learn Amazon Web Services in a Month of Lunches guides you through the process of building a robust and secure web application using the core AWS services you really need to know. You'll be amazed by how much you can accomplish with AWS! Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Cloud computing has transformed the way we build and deliver software. With the Amazon Web Services cloud platform, you can trade expensive glass room hardware and custom infrastructure for virtual servers and easy-to-configure storage, security, and networking services. Better, because you don't own the hardware, you only pay for the computing power you need! Just learn a few key ideas and techniques and you can have applications up and running in AWS in minutes. About the Book Learn Amazon Web Services in a Month of Lunches gets you started with AWS fast. In just 21 bite-size lessons, you'll learn the concepts and practical techniques you need to deploy and manage applications. You'll learn by doing real-world labs that guide you from the core AWS tool set through setting up security and storage and planning for growth. You'll even deploy a public-facing application that's highly available, scalable, and load balanced. What's Inside First steps with AWS - no experience required Deploy web apps using EC2, RDS, S3, and Route 53 Cheap and fast system backups Setting up cloud automation About the Reader If you know your way around Windows or Linux and have a basic idea of how web applications work, you're ready to start using AWS. About the Author David Clinton is a system administrator, teacher, and writer. He has administered, written about, and created training materials for many important technology subjects including Linux systems, cloud computing (AWS in particular), and container technologies like Docker. Many of his video training courses can be found on Pluralsight.com, and links to his other books (on Linux administration and

server virtualization) can be found at <https://bootstrap-it.com>. Table of Contents Before you begin PART 1 - THE CORE AWS TOOLS The 10-minute EC2 web server Provisioning a more robust EC2 website Databases on AWS DNS: what's in a name? S3: cheap, fast file storage S3: cheap, fast system backups AWS security: working with IAM users, groups, and roles Managing growth Pushing back against the chaos: using resource tags CloudWatch: monitoring AWS resources for fun and profit Another way to play: the command-line interface PART 2 - THE AWS POWER USER: OPTIMIZING YOUR INFRASTRUCTURE Keeping ahead of user demand High availability: working with AWS networking tools High availability: load balancing High availability: auto scaling High availability: content-delivery networks PART 3 - FOOD FOR THOUGHT: WHAT ELSE CAN AWS DO FOR YOU? Building hybrid infrastructure Cloud automation: working with Elastic Beanstalk, Docker, and Lambda Everything else (nearly) Never the end

*Chef Cookbook* Matthias Marschall.2017-02-03 Master over 80 incredibly effective recipes to manage the day-to-day complications in your infrastructure About This Book Immediately apply Devops techniques and methods, then combine them with powerful Chef tools to manage and automate your infrastructure Address the growing challenges of code management, cloud, and virtualization with Chef quickly Explore and implement the important aspects of Chef Automate using this recipe-based guide Who This Book Is For This book is for system engineers and administrators who have a fundamental understanding of information management systems and infrastructure. It is also for DevOps Engineers, IT professionals, and organizations who want to automate and gain greater control of their infrastructures with Chef. No experience with Chef is needed, but may help. What You Will Learn Test your cookbooks with Test Kitchen Manage cookbook dependencies with Berkshelf Use reporting to keep track of what happens during the

execution of chef-client runs across all of the machines Create custom Ohai and Knife plugins Build a high-availability service using Heartbeat Use a HAProxy to load-balance multiple web servers In Detail Chef is a configuration management tool that lets you automate your more cumbersome IT infrastructure processes and control a large network of computers (and virtual machines) from one master server. This book will help you solve everyday problems with your IT infrastructure with Chef. It will start with recipes that show you how to effectively manage your infrastructure and solve problems with users, applications, and automation. You will then come across a new testing framework, InSpec, to test any node in your infrastructure. Further on, you will learn to customize plugins and write cross-platform cookbooks depending on the platform. You will also install packages from a third-party repository and learn how to manage users and applications. Toward the end, you will build high-availability services and explore what Habitat is and how you can implement it. Style and approach This book follows a recipe-based approach and covers all the important topics you need to know. If you don't want to dig through a whole book before you get started, this book is for you, as it features a set of independent recipes you can try out immediately.

Internet Infrastructure Richard Fox, Wei Hao. 2017-10-20 Internet Infrastructure: Networking, Web Services, and Cloud Computing provides a comprehensive introduction to networks and the Internet from several perspectives: the underlying media, the protocols, the hardware, the servers, and their uses. The material in the text is divided into concept chapters that are followed up with case study chapters that examine how to install, configure, and secure a server that offers the given service discussed. The book covers in detail the Bind DNS name server, the Apache web server, and the Squid proxy server. It also provides background on those servers by discussing DNS, DHCP, HTTP, HTTPS, digital certificates and encryption, web caches, and the variety of protocols that support

web caching. Introductory networking content, as well as advanced Internet content, is also included in chapters on networks, LANs and WANs, TCP/IP, TCP/IP tools, cloud computing, and an examination of the Amazon Cloud Service. Online resources include supplementary content that is available via the textbook's companion website, as well useful resources for faculty and students alike, including: a complete lab manual; power point notes, for installing, configuring, securing and experimenting with many of the servers discussed in the text; power point notes; animation tutorials to illustrate some of the concepts; two appendices; and complete input/output listings for the example Amazon cloud operations covered in the book.

Amazon Web Services in Action Michael Wittig, Andreas Wittig. 2018-09-15 Summary Amazon Web Services in Action, Second Edition is a comprehensive introduction to computing, storing, and networking in the AWS cloud. You'll find clear, relevant coverage of all the essential AWS services you to know, emphasizing best practices for security, high availability and scalability. Foreword by Ben Whaley, AWS community hero and author. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology The largest and most mature of the cloud platforms, AWS offers over 100 prebuilt services, practically limitless compute resources, bottomless secure storage, as well as top-notch automation capabilities. This book shows you how to develop, host, and manage applications on AWS. About the Book Amazon Web Services in Action, Second Edition is a comprehensive introduction to deploying web applications in the AWS cloud. You'll find clear, relevant coverage of all essential AWS services, with a focus on automation, security, high availability, and scalability. This thoroughly revised edition covers the latest additions to AWS, including serverless infrastructure with AWS Lambda, sharing data with EFS, and in-memory storage with ElastiCache. What's inside Completely revised bestseller

Secure and scale distributed applications Deploy applications on AWS Design for failure to achieve high availability Automate your infrastructure About the Reader Written for mid-level developers and DevOps engineers. About the Author Andreas Wittig and Michael Wittig are software engineers and DevOps consultants focused on AWS. Together, they migrated the first bank in Germany to AWS in 2013. Table of Contents PART 1 - GETTING STARTED What is Amazon Web Services? A simple example: WordPress in five minutes PART 2 - BUILDING VIRTUAL INFRASTRUCTURE CONSISTING OF COMPUTERS AND NETWORKING Using virtual machines: EC2 Programming your infrastructure: The command-line, SDKs, and CloudFormation Automating deployment: CloudFormation, Elastic Beanstalk, and OpsWorks Securing your system: IAM, security groups, and VPC Automating operational tasks with Lambda PART 3 - STORING DATA IN THE CLOUD Storing your objects: S3 and Glacier Storing data on hard drives: EBS and instance store Sharing data volumes between machines: EFS Using a relational database service: RDS Caching data in memory: Amazon ElastiCache Programming for the NoSQL database service: DynamoDB PART 4 - ARCHITECTING ON AWS Achieving high availability: availability zones, auto-scaling, and CloudWatch Decoupling your infrastructure: Elastic Load Balancing and Simple Queue Service Designing for fault tolerance Scaling up and down: auto-scaling and CloudWatch

**Learning Amazon Web Services (AWS)** Mark Wilkins.2019-07-02 The Practical, Foundational Technical Introduction to the World's #1 Cloud Platform Includes access to several hours of online training video: Mark Wilkins' expert training video library guides you through setting up core services and prepares you to deploy your own apps and resources. Learning Amazon Web Services (AWS) is the perfect foundational resource for all administrators, developers, project managers, and other IT professionals who want to plan and deploy AWS services and/or earn AWS certification. Top



cloud trainer and evangelist Mark Wilkins teaches best practices that align with Amazon's Well-Architected Framework, introduces key concepts in the context of a running case study, carefully explains how core AWS services operate and integrate, and offers extensively tested tips for maximizing flexibility, security, and value. Companion online videos guide you step-by-step through setting AWS compute, storage, networking, scale, security, automation, and more. Balance cost, compliance, and latency in your service designs Choose the right networking options for your virtual private cloud (VPC) Build, host, launch, manage, and budget for EC2 compute services Plan for scale and resiliency, and make informed decisions about AWS storage Enforce strict security, and automate to improve operational efficiency This book with companion training videos is a valuable learning tool for anyone seeking to demonstrate expertise through formal certification. WEB EDITION: All buyers of the book or ebook can register your book for access to a free online Web Edition of this title, which included videos embedded within the text, plus updates as they become available.

Practical AWS Networking Mitesh Soni.2018-01-04 Your one step guide to learn all about AWS networking. Key Features Master your networking skills on Public Cloud Gain hands-on experience of using Amazon VPC, Elastic Load Balancing, Direct Connect and other AWS products Implement troubleshooting skills and best practices for security on AWS network Book Description Amazon Web Services (AWS) dominates the public cloud market by a huge margin and continues to be the first choice for many organizations. Networking has been an area of focus for all the leading cloud service providers. AWS has a suite of network-related products which help in performing network related task on AWS. This book initially covers the basics of networking in AWS. Then we use AWS VPC to create an isolated virtual cloud for performing network-related tasks. We then provide an

overview of AWS Direct Connect after taking a deep dive into scalability and load balancing using the auto scaling feature, Elastic Load Balancing, and Amazon Route S3. Toward the end of the book, we cover troubleshooting tips and security best practices for your network. By the end of this book, you will have hands-on experience of working with network tasks on AWS. What you will learn

- Overview of all networking services available in AWS
- Gain work with load balance applications across different regions
- Learn auto scale instances based on increases and decreases in traffic
- Deploy applications in a highly available and fault tolerant manner
- Configure Route 53 for a web application
- Troubleshooting tips and best practices

Who this book is for This book is for cloud architects, cloud solution providers, or any stakeholders dealing with networking on AWS Cloud. A prior idea of Amazon Web Services will be an added advantage.

**Amazon Web Services Bootcamp** Sunil Gulabani.2018-03-30 This fast-paced guide will quickly enhance your skills to develop a highly scalable Cloud environment

**Key Features** Efficiently build a highly scalable and reliable cloud environment for your applications with AWS Leverage the various AWS components and services to build a secure, reliable, and robust environment to host your applications on

This quick-start guide will quickly enhance your skills to develop highly scalable services

**Book Description** AWS is at the forefront of Cloud Computing today. Businesses are adopting AWS Cloud because of its reliability, versatility, and flexible design. The main focus of this book is teaching you how to build and manage highly reliable and scalable applications and services on AWS. It will provide you with all the necessary skills to design, deploy, and manage your applications and services on the AWS cloud platform. We'll start by exploring Amazon S3, EC2, and so on to get you well-versed with core Amazon services. Moving on, we'll teach you how to design and deploy highly scalable and optimized workloads. You'll also discover easy-to-follow, hands-on

steps, tips, and recommendations throughout the book and get to know essential security and troubleshooting concepts. By the end of the book, you'll be able to create a highly secure, fault tolerant, and scalable environment for your applications to run on. What you will learn Find out about IAM to access AWS services securely Explore EC2 (virtual server) and scale up/down your application based on heavy traffic Learn about unlimited data storage service S3 and host a static website within minutes Get to grips with Relational Databases and NoSQL databases under the AWS ecosystem Understand the caching mechanism Get to know about notifications service and monitor AWS services Secure and troubleshoot your AWS architecture Who this book is for This book is for IT professionals and system administrators looking to design, deploy, and manage your applications and services on the AWS cloud platform. It's also ideal for developers looking to build highly scalable cloud-based services. A basic understanding of AWS would be beneficial.

Mining Amazon Web Services John Paul Mueller.2006-07-14 Profit with Amazon Web Services—as a Buyer, Seller, or Independent Developer In a few short years, Amazon has evolved from an online bookstore into a complex marketplace comprised of thousands of vendors, millions of customers, and an ever-widening selection of products. With the launch of Amazon Web Services, buyers and sellers have unprecedented access to the immense body of data underpinning this marketplace. Mining Amazon Web Services: Building Applications with the Amazon API shows you what you can do with these powerful tools, and exactly how to do it. As a buyer, you'll build applications that let you comparison-shop far more effectively, consistently saving money and finding exactly the right product. As a seller, you'll leverage Amazon Web Services in ways that help you attract more customers, make more commissioned referrals, and improve your bottom line. This book is also a great resource for independent developers who want to create and publish—even make money

with—applications for others. Here's some of what you'll find covered inside: Performing complex product searches Analyzing the data obtained in your searches Connecting Amazon Web Services to a local database Building a Web Services-based shopping cart Using Amazon-supported search technologies, including XML over HTTP and SOAP Improving speed and reliability Building applications for mobile devices Building and publishing applications for others All that's required is some basic experience with any one of several programming languages, including VBA, Visual Basic 6, Visual C++ 6, Visual Basic .NET, Visual C# .NET, Java, and PHP, all of which are fully represented in the book's downloadable code.

**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 DescriptionThe 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.

*Chef Infrastructure Automation Cookbook - Second Edition* Matthias Marschall. 2015-05-29 This book is for system engineers and administrators who have a fundamental understanding of information management systems and infrastructure. It helps if you've already played around with Chef; however, this book covers all the important topics you will need to know. If you don't want to dig through a whole book before you can get started, this book is for you, as it features a set of independent recipes you can try out immediately.

**Beginning Amazon Web Services with Node.js** Adam Shackelford. 2015-03-16 Beginning Amazon

Web Services with Node.js teaches any novice Node.js developer to configure, deploy, and maintain scalable small to large scale Node.js applications in Amazon Web Services. Hosting a Node.js application in a production environment usually means turning to PaaS hosting, but this approach brings problems. Deploying Node.js directly to AWS solves the problems you encounter in these situations, enabling you to cut out the middle man. You will begin with a basic RESTful web service in Node.js, using the popular Express.js framework, pre-built and ready to run in your local environment. You will be introduced to the most powerful tools in AWS, and learn how to configure your project to take advantage of them. You will be guided through the steps of getting the various key components to work together on AWS. Through code samples using the AWS JavaScript SDK and tutorials in the AWS console, you will gain the knowledge to incorporate secure user authentication, server auto-scaling, a load balancer, CDN, customized caching behavior, and outage monitoring. Node.js is single-threaded, and designed to run high input / high output applications, making it ideal for the cloud environment. If your main task is handling a high volume of requests over HTTP / the web, it will scale very well in proportion to the computing power you allocate to it. Amazon Web Services offers a broad set of services that help organizations move faster, lower costs, and scale applications. Trusted by the largest enterprises and start-ups alike, AWS powers a wide variety of workloads across a broad spectrum. If leveraged properly, you can build a Node.js app on AWS which can automatically power itself up to handle a massive volume of traffic, and then scale back down to a lighter configuration when user demand has dropped. Amazon Web Services offers a broad set of services that help organizations move faster, lower costs, and scale applications. Get started with Node.js and AWS using this book today.

**Docker Management Design Patterns** Deepak Vohra.2017-09-22 Master every aspect of

orchestrating/managing Docker including creating a Swarm, creating services, using mounts, scheduling, scaling, resource management, rolling updates, load balancing, high availability, logging and monitoring, using multiple zones, and networking. This book also discusses the managed services for Docker Swarm: Docker for AWS and Docker Cloud Swarm mode. Docker Management Design Patterns explains how to use Docker Swarm mode with Docker Engine to create a distributed Docker container cluster and how to scale a cluster of containers, schedule containers on specific nodes, and mount a volume. This book is based on the latest version of Docker (17.0x). You will learn to provision a Swarm on production-ready AWS EC2 nodes, and to link Docker Cloud to Docker for AWS to provision a new Swarm or connect to an existing Swarm. Finally, you will learn to deploy a Docker Stack on Docker Swarm with Docker Compose. What You'll Learn Apply Docker management design patterns Use Docker Swarm mode and other new features Create and scale a Docker service Use mounts including volumes Configure scheduling, load balancing, high availability, logging and monitoring, rolling updates, resource management, and networking Use Docker for AWS managed services including a multi-zone Swarm Build Docker Cloud managed services in Swarm mode Who This Book Is For Docker admins, Docker application developers, and container as a service (CAAS) developers. Some prerequisite knowledge of Linux and Docker is required. Apress Pro Docker is recommended as a companion to this book.

**Amazon Web Services for Mobile Developers** Abhishek Mishra.2017-10-17 A practical, real-world introduction to AWS tools and concepts Amazon Web Services for Mobile Developers: Building Apps with AWS presents a professional view of cloud computing and AWS for experienced iOS/Android developers and technical/solution architects. Cloud computing is a rapidly expanding ecosystem, and working professionals need a practical resource to bring them up-to-date on tools

that are rapidly becoming indispensable; this book helps expand your skill set by introducing you to AWS offerings that can make your job easier, with a focus on real-world application. Author and mobile applications developer Abhishek Mishra shows you how to create IAM accounts and try out some of the most popular services, including EC2, Lambda, Mobile Analytics, Device Farm, and more. You'll build a chat application in both Swift (iOS) and Java (Android), running completely off AWS Infrastructure to explore SDK installation, Xcode, Cognito authentication, DynamoDB, Amazon SNS Notifications, and other useful tools. By actually using the tools as you learn about them, you develop a more intuitive understanding that feels less like a shift and more like a streamlined integration. If you have prior experience with Swift or Java and a solid knowledge of web services, this book can help you quickly take your skills to the next level with a practical approach to learning that translates easily into real-world use. Understand the key concepts of AWS as applied to both iOS and Android developers Explore major AWS offerings for mobile developers, including DynamoDB, RDS, EC2, SNS, Cognito, and more Learn what people are talking about when they use buzzwords like PaaS, IaaS, SaaS, and APaaS Work through explanations by building apps that tie into the AWS ecosystem Any job is easier with the right tools, and Amazon Web Services for Mobile Developers: Building Apps with AWS gets you acquainted with an ever-expanding toolkit for mobile app development.

**Hands-On Artificial Intelligence on Amazon Web Services** Subhashini Tripuraneni, Charles Song. 2019-10-04 Perform cloud-based machine learning and deep learning using Amazon Web Services such as SageMaker, Lex, Comprehend, Translate, and Polly Key Features Explore popular machine learning and deep learning services with their underlying algorithms Discover readily available artificial intelligence (AI) APIs on AWS like Vision and Language Services Design robust



architectures to enable experimentation, extensibility, and maintainability of AI apps

**Book Description** From data wrangling through to translating text, you can accomplish this and more with the artificial intelligence and machine learning services available on AWS. With this book, you'll work through hands-on exercises and learn to use these services to solve real-world problems. You'll even design, develop, monitor, and maintain machine and deep learning models on AWS. The book starts with an introduction to AI and its applications in different industries, along with an overview of AWS artificial intelligence and machine learning services. You'll then get to grips with detecting and translating text with Amazon Rekognition and Amazon Translate. The book will assist you in performing speech-to-text with Amazon Transcribe and Amazon Polly. Later, you'll discover the use of Amazon Comprehend for extracting information from text, and Amazon Lex for building voice chatbots. You will also understand the key capabilities of Amazon SageMaker such as wrangling big data, discovering topics in text collections, and classifying images. Finally, you'll cover sales forecasting with deep learning and autoregression, before exploring the importance of a feedback loop in machine learning. By the end of this book, you will have the skills you need to implement AI in AWS through hands-on exercises that cover all aspects of the ML model life cycle. What you will learn

**Gain useful insights into different machine and deep learning models**

**Build and deploy robust deep learning systems to production**

**Train machine and deep learning models with diverse infrastructure specifications**

**Scale AI apps without dealing with the complexity of managing the underlying infrastructure**

**Monitor and Manage AI experiments efficiently**

**Create AI apps using AWS pre-trained AI services**

**Who this book is for** This book is for data scientists, machine learning developers, deep learning researchers, and artificial intelligence enthusiasts who want to harness the power of AWS to implement powerful artificial intelligence solutions. A basic understanding of

machine learning concepts is expected.

*Programming Amazon Web Services* James Murty.2008-03-25 Building on the success of its storefront and fulfillment services, Amazon now allows businesses to rent computing power, data storage and bandwidth on its vast network platform. This book demonstrates how developers working with small- to mid-sized companies can take advantage of Amazon Web Services (AWS) such as the Simple Storage Service (S3), Elastic Compute Cloud (EC2), Simple Queue Service (SQS), Flexible Payments Service (FPS), and SimpleDB to build web-scale business applications. With AWS, Amazon offers a new paradigm for IT infrastructure: use what you need, as you need it, and pay as you go. *Programming Amazon Web Services* explains how you can access Amazon's open APIs to store and run applications, rather than spend precious time and resources building your own. With this book, you'll learn all the technical details you need to: Store and retrieve any amount of data using application servers, unlimited data storage, and bandwidth with the Amazon S3 service Buy computing time using Amazon EC2's interface to requisition machines, load them with an application environment, manage access permissions, and run your image using as many or few systems as needed Use Amazon's web-scale messaging infrastructure to store messages as they travel between computers with Amazon SQS Leverage the Amazon FPS service to structure payment instructions and allow the movement of money between any two entities, humans or computers Create and store multiple data sets, query your data easily, and return the results using Amazon SimpleDB. Scale up or down at a moment's notice, using these services to employ as much time and space as you need Whether you're starting a new online business, need to ramp up existing services, or require an offsite backup for your home, *Programming Amazon Web Services* gives you the background and the practical knowledge you need to start using AWS. Other books explain how to build web services.

This book teaches businesses how to take make use of existing services from an established technology leader.

**Pro PowerShell for Amazon Web Services** Brian Beach.2014-03-05 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!

*AWS Certified Developer Official Study Guide, Associate Exam* Nick Alteen,Jennifer Fisher,Casey Gerena,Wes Gruver,Asim Jalis,Heiwad Osman,Marife Pagan,Santosh Patlolla,Michael Roth.2019-08-23 Foreword by Werner Vogels, Vice President and Corporate Technology Officer, Amazon The AWS exam has been updated. Your study guide should be, too. The AWS Certified Developer Official Study Guide-Associate Exam is your ultimate preparation resource for the latest exam! Covering all exam objectives, this invaluable resource puts a team of AWS experts at your side with expert guidance, clear explanations, and the wisdom of experience with AWS best practices. You'll master core services and basic architecture, and equip yourself to develop, deploy, and debug cloud-based applications using AWS. The AWS Developer certification is earned by those

who demonstrate the technical knowledge and skill associated with best practices for building secure, reliable cloud-based applications using AWS technology. This book is your official exam prep companion, providing everything you need to know to pass with flying colors. Study the AWS Certified Developer Exam objectives Gain expert insight on core AWS services and best practices Test your understanding of key concepts with challenging chapter questions Access online study tools including electronic flashcards, a searchable glossary, practice exams, and more Cloud computing offers businesses the opportunity to replace up-front capital infrastructure expenses with low, variable costs that scale as they grow. This customized responsiveness has negated the need for far-future infrastructure planning, putting thousands of servers at their disposal as needed—and businesses have responded, propelling AWS to the number-one spot among cloud service providers. Now these businesses need qualified AWS developers, and the AWS certification validates the exact skills and knowledge they're looking for. When you're ready to get serious about your cloud credentials, the AWS Certified Developer Official Study Guide—Associate Exam is the resource you need to pass the exam with flying colors. NOTE: As of October 7, 2019, the accompanying code for hands-on exercises in the book is available for downloading from the secure Resources area in the online test bank. You'll find code for Chapters 1, 2, 11, and 12.

*Scala and Spark for Big Data Analytics* Md. Rezaul Karim, Sridhar Alla. 2017-07-25 Harness the power of Scala to program Spark and analyze tonnes of data in the blink of an eye! About This Book Learn Scala's sophisticated type system that combines Functional Programming and object-oriented concepts Work on a wide array of applications, from simple batch jobs to stream processing and machine learning Explore the most common as well as some complex use-cases to perform large-scale data analysis with Spark Who This Book Is For Anyone who wishes to learn how to perform

data analysis by harnessing the power of Spark will find this book extremely useful. No knowledge of Spark or Scala is assumed, although prior programming experience (especially with other JVM languages) will be useful to pick up concepts quicker. What You Will Learn Understand object-oriented & functional programming concepts of Scala In-depth understanding of Scala collection APIs Work with RDD and DataFrame to learn Spark's core abstractions Analysing structured and unstructured data using SparkSQL and GraphX Scalable and fault-tolerant streaming application development using Spark structured streaming Learn machine-learning best practices for classification, regression, dimensionality reduction, and recommendation system to build predictive models with widely used algorithms in Spark MLlib & ML Build clustering models to cluster a vast amount of data Understand tuning, debugging, and monitoring Spark applications Deploy Spark applications on real clusters in Standalone, Mesos, and YARN In Detail Scala has been observing wide adoption over the past few years, especially in the field of data science and analytics. Spark, built on Scala, has gained a lot of recognition and is being used widely in productions. Thus, if you want to leverage the power of Scala and Spark to make sense of big data, this book is for you. The first part introduces you to Scala, helping you understand the object-oriented and functional programming concepts needed for Spark application development. It then moves on to Spark to cover the basic abstractions using RDD and DataFrame. This will help you develop scalable and fault-tolerant streaming applications by analyzing structured and unstructured data using SparkSQL, GraphX, and Spark structured streaming. Finally, the book moves on to some advanced topics, such as monitoring, configuration, debugging, testing, and deployment. You will also learn how to develop Spark applications using SparkR and PySpark APIs, interactive data analytics using Zeppelin, and in-memory data processing with Alluxio. By the end of this book, you will have a

thorough understanding of Spark, and you will be able to perform full-stack data analytics with a feel that no amount of data is too big. Style and approach Filled with practical examples and use cases, this book will not only help you get up and running with Spark, but will also take you farther down the road to becoming a data scientist.

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service, along with creating and publishing APIs on AWS to access the Python application. The concluding chapters will help you get to grips with storing unstructured and semi-structured data using NoSQL and DynamoDB, as well as advance your knowledge using the Glue serverless data integration service in AWS. By the end of this Python book, you'll be able to take your application development skills up a notch with AWS services and advance in your career. What you will learn

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- Find out how to configure AWS services to build Python applications
- Run and deploy Python applications using Lambda, EC2, and Elastic Beanstalk
- Provision EC2 servers on AWS and run Python applications
- Debug and monitor Python applications using PyCharm and CloudWatch
- Understand database operations on AWS by learning about DynamoDB and RDS
- Explore the API gateway service on AWS using Python to grasp API programming

Who this book is for This book is for cloud developers, software developers, and IT specialists who want to develop Python applications on AWS as well as learn the concepts underlying AWS services for implementing the applications. Experience in Python programming is needed to be able to implement the applications on AWS.

Democratizing Cryptography Rebecca Slayton. 2022-08-25 In the mid-1970s, Whitfield Diffie and Martin Hellman invented public key cryptography, an innovation that ultimately changed the world. Today public key cryptography provides the primary basis for secure communication over the internet, enabling online work, socializing, shopping, government services, and much more. While other books have documented the development of public key cryptography, this is the first to provide a comprehensive insiders' perspective on the full impacts of public key cryptography, including six original chapters by nine distinguished scholars. The book begins with an original joint biography of the lives and careers of Diffie and Hellman, highlighting parallels and intersections, and



contextualizing their work. Subsequent chapters show how public key cryptography helped establish an open cryptography community and made lasting impacts on computer and network security, theoretical computer science, mathematics, public policy, and society. The volume includes particularly influential articles by Diffie and Hellman, as well as newly transcribed interviews and Turing Award Lectures by both Diffie and Hellman. The contributed chapters provide new insights that are accessible to a wide range of readers, from computer science students and computer security professionals, to historians of technology and members of the general public. The chapters can be readily integrated into undergraduate and graduate courses on a range of topics, including computer security, theoretical computer science and mathematics, the history of computing, and science and technology policy.

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