

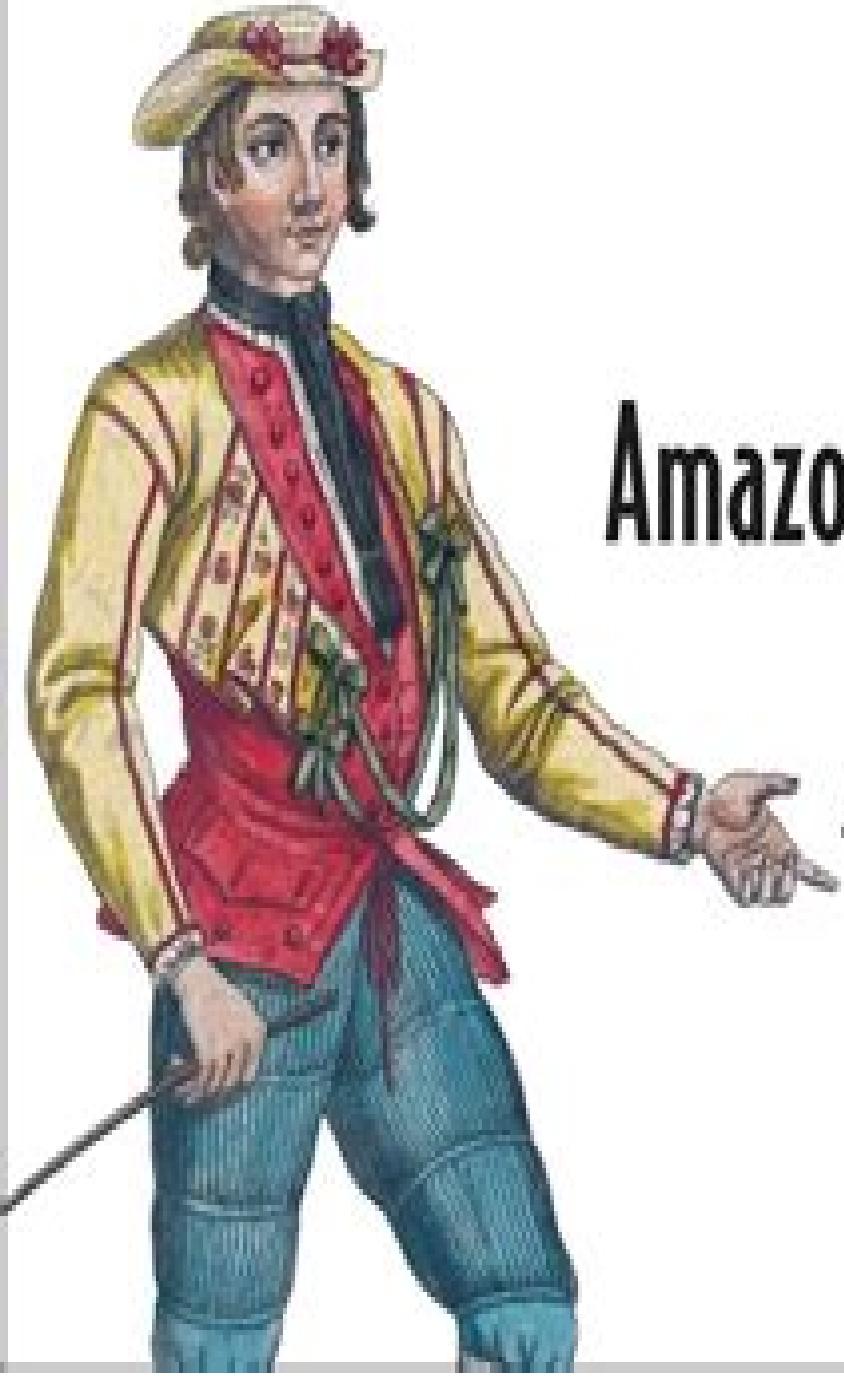


# Amazon Web Services in Action

Third Edition

An in-depth guide to AWS

Andreas Wittig  
Michael Wittig



# Amazon Web Services In Action

**Michael Wittig**

## Amazon Web Services In Action:

**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    **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

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mid level developers DevOps or platform engineers architects and system administrators Rich in examples and best practices this Manning bestseller is the all practical complete handbook to computing storage and networking for all core AWS services [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 [\*\*AWS in Action\*\*](#) Michael Wittig,2015 Amazon Web Services in Action introduces you to computing storing and networking in the AWS cloud The book will teach you about the most important services on AWS You will also learn about best practices regarding security high availability and scalability You ll start with a broad overview of cloud computing and AWS and learn how to spin up servers manually and from the command line You ll learn how to automate your infrastructure by programmatically calling the AWS API to control every part of AWS You will be introduced to

the concept of Infrastructure as Code with the help of AWS CloudFormation You will learn about different approaches to deploy applications on AWS You'll also learn how to secure your infrastructure by isolating networks controlling traffic and managing access to AWS resources Next you'll learn options and techniques for storing your data You will experience how to integrate AWS services into your own applications by the use of SDKs Finally this book course teaches you how to design for high availability fault tolerance and scalability Physical data centers require lots of equipment and take time and resources to manage If you need a data center but don't want to build your own Amazon Web Services may be your solution Whether you're analyzing real time data building software as a service or running an e-commerce site AWS offers you a reliable cloud based platform with services that scale Resource description page [AWS in ACTION Part -1](#) Poonam Devi,2023-10-01

Unlock the power of Amazon Web Services AWS with our comprehensive guide Whether you're just starting your journey in the world of cloud computing or you're an experienced professional looking to enhance your skills this book is your essential companion Inside you'll find step by step tutorials best practices and real world examples that demystify the AWS platform Learn how to design scalable architectures master essential services and secure your cloud environment With this guide you'll be equipped to build, deploy, and manage applications with confidence in the AWS cloud Join the ranks of successful cloud professionals who've harnessed AWS to drive innovation and efficiency Whether you're pursuing AWS certifications or striving for cloud excellence our guide will help you navigate the cloud landscape, maximize your potential and succeed in your AWS endeavors Start your AWS journey today and become an AWS expert tomorrow [\*\*AWS Lambda in Action\*\*](#)

Danilo Poccia,2016-11-27 Summary AWS Lambda in Action is an example driven tutorial that teaches you how to build applications that use an event driven approach on the back end Foreword by James Governor About the Technology With AWS Lambda you write your code and upload it to the AWS cloud AWS Lambda responds to the events triggered by your application or your users and automatically manages the underlying computer resources for you Back end tasks like analyzing a new document or processing requests from a mobile app are easy to implement Your application is divided into small functions leading naturally to a reactive architecture and the adoption of microservices About the Book AWS Lambda in Action is an example driven tutorial that teaches you how to build applications that use an event driven approach on the back end Starting with an overview of AWS Lambda the book moves on to show you common examples and patterns that you can use to call Lambda functions from a web page or a mobile app The second part of the book puts these smaller examples together to build larger applications By the end you'll be ready to create applications that take advantage of the high availability, security, performance, and scalability of AWS What's Inside Create a simple API Create an event driven media sharing application Secure access to your application in the cloud Use functions from different clients like web pages or mobile apps Connect your application with external services About the Reader Requires basic knowledge of JavaScript Some examples are also provided in Python No AWS experience is assumed About the Author Danilo Poccia is a technical

evangelist at Amazon Web Services and a frequent speaker at public events and workshops Table of Contents Running functions in the cloud Your first Lambda function Your function as a web API Managing security Using standalone functions Managing identities Calling functions from a client Designing an authentication service Implementing an authentication service Adding more features to the authentication service Building a media sharing application Why event driven Improving development and testing Automating deployment Automating infrastructure management Calling external services Receiving events from other services PART 1 FIRST STEPS PART 2 BUILDING EVENT DRIVEN APPLICATIONS PART 3 FROM

DEVELOPMENT TO PRODUCTION PART 4 USING EXTERNAL SERVICES **Transforming Your Business with AWS**

Philippe Abdoulaye,2021-10-06 Expert guidance on how to use Amazon Web Services to supercharge your digital services business In *Transforming Your Business with AWS* Getting the Most Out of Using AWS to Modernize and Innovate Your Digital Services renowned international consultant and sought after speaker Philippe Abdoulaye delivers a practical and accessible guide to using Amazon Web Services to modernize your business and the digital services you offer This book provides you with a concrete action plan to build a team capable of creating world class digital services and long term competitive advantages You ll discover what separates merely average digital service organizations from the truly outstanding as well as how moving to the cloud will enable your business to deliver your services faster better and more efficiently This book also includes A comprehensive overview of building industry leading digital service delivery capabilities including discussions of the development lifecycle best practices and AWS based development infrastructure Explanations of how to implement a digital business transformation strategy An exploration of key roles like DevOps Continuous Delivery Continuous Deployment Continuous Integration Automation and DevSecOps Hands on treatments of AWS application management tools including Elastic Beanstalk CodeDeploy and CodePipeline Perfect for executives managers and other business leaders attempting to clarify and implement their organization s digital vision and strategy *Transforming Your Business with AWS* is a must read reference that answers the why and most importantly the how of digital transformation with Amazon Web Services

**AWS in Action Part -2** Poonam Devi,2023-10-03 Unleash the Power of the Cloud Mastering AWS Your Comprehensive Guide to Amazon Web Services Are you ready to harness the full potential of Amazon Web Services AWS and revolutionize your cloud computing experience Dive into the world of AWS with our comprehensive ebook and discover everything you need to know about this industry leading cloud platform From setting up your first virtual server to mastering complex data analytics our expert guidance will lead you through every step Whether you re an IT professional a developer or a business leader Mastering AWS is your roadmap to success in the cloud Embrace AWS and embark on a journey to transform your business streamline your operations and achieve unprecedented scalability Don t miss out on the cloud revolution join the ranks of AWS experts today

**Amazon Web Services for Mobile Developers** Abhishek Mishra,2017-10-30 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

**Aws: The Most Complete Guide to Amazon Web Services from Beginner to Advanced Level** Raoul Alongi,2020-06-14 STRUGGLING TO COME TO GRIPS WITH CLOUD TECHNOLOGY Amazon Web Services offer on demand cloud services created with customer satisfaction in mind AWS is one of the best cloud services out there but starting the tech can be tricky if you don t have the right guide This book was written exactly for anyone wanting to use cloud systems in their place of work for the first time It s one of the only books on the market that holds your hand and guides you step by step to setting up Amazon Web Services for yourself You won t get this quality of cloud computing information anywhere else It gets straight to the point allowing you get finished with setting up the ground breaking technology FASTER No hype No fuss Just pure value This amazing book will cover Finally you will be able to effectively utilise the resource that is AWS cloud services in record time and you ll have fun along the way

**Internet Technologies at Work** Fred T. Hofstetter,2005 This

textbook will provide an introduction to Internet client and server technologies through real world case studies and step by step tutorials that will encourage students to learn by doing

*Natural Language Processing in Action, Second Edition*

Hobson Lane,Maria Dyshel,2025-02-25 Develop your NLP skills from scratch with an open source toolbox of Python packages Transformers Hugging Face vector databases and your own Large Language Models Natural Language Processing in Action Second Edition has helped thousands of data scientists build machines that understand human language In this new and revised edition you ll discover state of the art Natural Language Processing NLP models like BERT and HuggingFace

transformers popular open source frameworks for chatbots and more You ll create NLP tools that can detect fake news filter spam deliver exceptional search results and even build truthfulness and reasoning into Large Language Models LLMs In Natural Language Processing in Action Second Edition you will learn how to Process analyze understand and generate natural language text Build production quality NLP pipelines with spaCy Build neural networks for NLP using Pytorch BERT and GPT transformers for English composition writing code and even organizing your thoughts Create chatbots and other conversational AI agents In this new and revised edition you ll discover state of the art NLP models like BERT and HuggingFace transformers popular open source frameworks for chatbots and more Plus you ll discover vital skills and techniques for optimizing LLMs including conversational design and automating the trial and error of LLM interactions for effective and accurate results About the technology From nearly human chatbots to ultra personalized business reports to AI generated email news stories and novels natural language processing NLP has never been more powerful Groundbreaking advances in deep learning have made high quality open source models and powerful NLP tools like spaCy and PyTorch widely available and ready for production applications This book is your entrance ticket and backstage pass into the next generation of natural language processing About the book Natural Language Processing in Action Second Edition introduces the foundational technologies and state of the art tools you ll need to write and publish NLP applications You learn how to create custom models for search translation writing assistants and more without relying on big commercial foundation models This fully updated second edition includes coverage of BERT Hugging Face transformers fine tuning large language models and more What s inside NLP pipelines with spaCy Neural networks with PyTorch BERT and GPT transformers Conversational design for chatbots About the reader For intermediate Python programmers familiar with deep learning basics About the author Hobson Lane is a data scientist and machine learning engineer with over twenty years of experience building autonomous systems and NLP pipelines Maria Dyshel is a social entrepreneur and artificial intelligence expert and the CEO and cofounder of Tangible AI Cole Howard and Hannes Max Hapke were co authors of the first edition **Data Mesh in Action** Jacek Majchrzak,Sven Balnojan,Marian Siwiak,2023-03-21 Revolutionize the way your organization approaches data with a data mesh This new decentralized architecture outpaces monolithic lakes and warehouses and can work for a company of any size In Data Mesh in Action you will learn how to Implement a data mesh in your organization Turn data into a data product Move from your current data architecture to a data mesh Identify data domains and decompose an organization into smaller manageable domains Set up the central governance and local governance levels over data Balance responsibilities between the two levels of governance Establish a platform that allows efficient connection of distributed data products and automated governance Data Mesh in Action reveals how this groundbreaking architecture looks for both small startups and large enterprises You won t need any new technology this book shows you how to start implementing a data mesh with flexible processes and organizational change You ll explore both an extended case study and multiple real world examples As

you go you'll be expertly guided through discussions around Socio Technical Architecture and Domain Driven Design with the goal of building a sleek data as a product system Plus dozens of workshop techniques for both in person and remote meetings help you onboard colleagues and drive a successful transition About the technology Business increasingly relies on efficiently storing and accessing large volumes of data The data mesh is a new way to decentralize data management that radically improves security and discoverability A well designed data mesh simplifies self service data consumption and reduces the bottlenecks created by monolithic data architectures About the book Data Mesh in Action teaches you pragmatic ways to decentralize your data and organize it into an effective data mesh You'll start by building a minimum viable data product which you'll expand into a self service data platform chapter by chapter You'll love the book's unique sliders that adjust the mesh to meet your specific needs You'll also learn processes and leadership techniques that will change the way you and your colleagues think about data What's inside Decompose an organization into manageable domains Turn data into a data product Set up central and local governance levels Build a fit for purpose data platform Improve management initiation and support techniques About the reader For data professionals Requires no specific programming stack or data platform About the author Jacek Majchrzak is a hands on lead data architect Dr Sven Balnojan manages data products and teams Dr Marian Siwiak is a data scientist and a management consultant for IT scientific and technical projects Table of Contents PART 1 FOUNDATIONS 1 The what and why of the data mesh 2 Is a data mesh right for you 3 Kickstart your data mesh MVP in a month PART 2 THE FOUR PRINCIPLES IN PRACTICE 4 Domain ownership 5 Data as a product 6 Federated computational governance 7 The self serve data platform PART 3 INFRASTRUCTURE AND TECHNICAL ARCHITECTURE 8 Comparing self serve data platforms 9 Solution architecture design **Apache Kafka in Action** Anatoly Zelenin, Alexander Kropp, 2025-06-03 Apache Kafka start to finish Apache Kafka in Action From basics to production guides you through the concepts and skills you'll need to deploy and administer Kafka for data pipelines event driven applications and other systems that process data streams from multiple sources Authors Anatoly Zelenin and Alexander Kropp have spent years using Kafka in real world production environments In this guide they reveal their hard won expert insights to help you avoid common Kafka pitfalls and challenges Inside Apache Kafka in Action you'll discover Apache Kafka from the ground up Achieving reliability and performance Troubleshooting Kafka systems Operations governance and monitoring Kafka use cases patterns and anti patterns Clear concise and practical Apache Kafka in Action is written for IT operators software engineers and IT architects working with Kafka every day Chapter by chapter it guides you through the skills you need to deliver and maintain reliable and fault tolerant data driven applications Foreword by Adam Bellemare About the technology Apache Kafka is the gold standard streaming data platform for real time analytics event sourcing and stream processing Acting as a central hub for distributed data it enables seamless flow between producers and consumers via a publish subscribe model Kafka easily handles millions of events per second and its rock solid design ensures high fault tolerance and smooth scalability About the

book Apache Kafka in Action is a practical guide for IT professionals who are integrating Kafka into data intensive applications and infrastructures The book covers everything from Kafka fundamentals to advanced operations with interesting visuals and real world examples Readers will learn to set up Kafka clusters produce and consume messages handle real time streaming and integrate Kafka into enterprise systems This easy to follow book emphasizes building reliable Kafka applications and taking advantage of its distributed architecture for scalability and resilience What's inside Master Kafka's distributed streaming capabilities Implement real time data solutions Integrate Kafka into enterprise environments Build and manage Kafka applications Achieve fault tolerance and scalability About the reader For IT operators software architects and developers No experience with Kafka required About the author Anatoly Zelenin is a Kafka expert known for workshops across Europe especially in banking and manufacturing Alexander Kropf specializes in Kafka and Kubernetes contributing to cloud platform design and monitoring Table of Contents Part 1 1 Introduction to Apache Kafka 2 First steps with Kafka Part 2 3 Exploring Kafka topics and messages 4 Kafka as a distributed log 5 Reliability 6 Performance Part 3 7 Cluster management 8 Producing and persisting messages 9 Consuming messages 10 Cleaning up messages Part 4 11 Integrating external systems with Kafka Connect 12 Stream processing 13 Governance 14 Kafka reference architecture 15 Kafka monitoring and alerting 16 Disaster management 17 Comparison with other technologies 18 Kafka's role in modern enterprise architectures Appendixes A Setting up a Kafka test environment B Monitoring setup **LINQ in Action** Fabrice Marguerie, Steve Eichert, Jim Wooley, 2008-02-14 LINQ Language INtegrated Query is a new extension to the Visual Basic and C programming languages designed to simplify data queries and database interaction This comprehensive fast paced guide serves as a multi purpose tutorial for professional developers *AWS Certified Developer Associate All-in-One Exam Guide (Exam DVA-C01)* Kamesh Ganesan, 2020-11-27 This effective self study system delivers complete coverage of every topic on the AWS Certified Developer Associate Exam Take the challenging AWS Certified Developer Associate Exam with confidence using the comprehensive information contained in this effective test preparation guide Written by an Amazon Web Services certified expert and experienced trainer AWS Certified Developer Associate All in One Exam Guide Exam DVA C01 covers every subject on the exam and clearly explains how to create deploy migrate monitor and debug cloud native applications Designed to help you pass the exam with ease this guide also serves as an ideal on the job reference Covers all topics on the exam including Getting started with AWS Journey AWS high availability and fault tolerance Working with cloud storage Authentication and authorization Creating SQL and NoSQL databases in AWS Cloud AWS application integration and management Developing cloud native applications in AWS Building deploying and debugging cloud applications Electronic content includes 130 practice questions Test engine containing full length practice exams and customizable quizzes

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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

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### **Amazon Web Services In Action Introduction**

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