
Cloud Computing Aws

Beautiful Code

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Amazon Web Services For Dummies

Mastering AWS Lambda

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Learning Amazon Web Services (AWS)

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Programming AWS Lambda

Machine Learning in the AWS Cloud

MUHAMMAD HOOPER

Beautiful Code John Wiley & Sons

What is the cloud? Discover the secrets of the cloud through simple explanations that use lots of pictures and lots of examples. Why learn about the cloud? It's the future. The cloud is the future of software, the future of computing, and the future of business. If you're not up on the cloud the future will move on without you. Don't miss out. Not a geek? Don't worry. I wrote this book for you! After reading *Explain Cloud Like I'm 10*, you will understand the cloud. That's a promise. How do I deliver on that promise? I'll let you in on a little secret: the cloud is not that hard to understand. It's just that nobody has taken the time to explain it properly. take the time. I go slow. You'll learn step-by-step; one idea at a time. You'll learn something new no matter if you're a beginner, someone who knows a little and wants to know more, or someone thinking about a career change. In *Explain Cloud Like I'm 10*, you'll discover:

- How the cloud got its name. A more interesting story than you might think.
- An intuitive picture based definition of the cloud.
- What it means when someone says a service is in the cloud.
- If stormy weather affects cloud computing.
- How the internet really works. Most people don't know. You will.
- The real genius of cloud computing. Hint: it's not the technology.
- The good, the bad, and the ugly of cloud computing.
- How cloud computing changed how software is made—forever.
- Why Amazon AWS became so popular. Hint: it's not the technology.
- What happens when you press play on Netflix.
- Why Kindle is the perfect example of a cloud service.
- The radically different approaches Apple and Google take to the cloud.
- How Google Maps and Facebook Messenger excel as cloud applications.
- Cloud providers are engaging in a winner-take-all war to addict you to their ecosystems.
- Key ideas like: VM, serverless, container, IaaS, PaaS, SaaS, virtualization, caching, ISP, OpEx, CapEx, network, AMI, EC2, S3, CDN, elastic computing, datacenter, and cloud-native.

And so much more. Sound like gobbledygook? Don't worry! It will all

make sense. I've been a programmer and a writer for over 30 years. I've been in cloud computing since the beginning, and I'm here to help you on your journey to understand the cloud. Consider me your guide. I'll be with you every step of the way. Sound fun? Buy *Explain Cloud Like I'm 10* and let's get started learning about the cloud today!

[AWS System Administration](#) Packt Publishing Ltd

You Are A Click Away From Learning The Limitless Power Of Amazon Web Services (AWS) To Decide Whether It Is The Perfect Cloud Computing Solution For Your Business! The global public cloud computing market is estimated to be worth over \$250 billion, with top companies setting annual cloud computing budgets of over \$2 million per year, equivalent to about 1/3 of the company's IT budget. Indeed, efficient, high performing and profitable companies around the world have realized that cloud computing is the secret to massive growth and efficiency in service delivery on a global scale especially because it (cloud computing) allows data access from anywhere in the world. And at the center of it all is the world's biggest cloud computing solution, AWS, controlling over 47% of the market share, with an estimated market value of \$400 billion. So what makes AWS different from all the other cloud computing solutions? Why should you adopt AWS and not any other cloud computing solution? How does AWS work? What unique benefits does AWS offer? What services does AWS offer that make it the go-to cloud computing solution for thousands of companies around the world? Can a small business adopt AWS? How do you start using AWS in your business? If you have these and any other questions about AWS, this book is for you so keep reading. It covers takes a deep and wide approach to Amazon Web Services, covering both basic and advanced stuff relating to the functionality of AWS from an end-user perspective to help you make an informed decision regarding adopting AWS for your business. More precisely, the book will teach you: What cloud computing is Why cloud computing is preferred to a dedicated server What Amazon Web Services (AWS) is How AWS compares against other cloud providers Some benefits of using AWS Some of the major services AWS provides Debunking of common myths about Amazon web

storage How to set up your Amazon Web Services Account How to automate operational tasks with lambda How to manage your AWS costs And so much more Even if this is your first encounter with the AWS, don't worry; you don't need any technical knowledge to use this book, as it is written with an end-user in mind so it breaks down even the seemingly complex concepts into easy to digest points that will help you to understand AWS like the back of your hand. At the end, you will understand why AWS is regarded as the most scalable, efficient, cost effective and reliable infrastructure for deploying secured web solutions even with minimal technical knowhow and support. Don't wait... Join the fastest growing companies in the world in adopting AWS to deploy your secured web solutions NOW! Click Buy Now With 1-Click or Buy Now to get started!

[Explain the Cloud Like I'm 10](#) Simon and Schuster

Munz, an independent IT professional, explains why running Oracle WebLogic Server and Fusion Middleware in the cloud is often easier, sometimes cheaper, and typically more reliable than in one's own data center.

[AWS Security Cookbook](#) Packt Publishing Ltd

With the increasing global interest in leveraging cloud infrastructure, AWS Cloud from Amazon offers a cutting-edge platform for architecting, building, and deploying web-scale cloud applications. The variety of features available within AWS can reduce overall infrastructure costs and accelerate the development process for both large enterprises and startups alike. Beginning with basic cloud concepts, you'll learn about the various cloud services models and the design implications of multi-tenant applications. You'll then design, implement, and deploy a multi-tier, scalable, highly-available and secure application on the AWS platform. At every step, we explain the key guiding principles driving real-world production-ready application architectures. Finally, you will learn how to automate your cloud infrastructure, set up operations, application monitoring, and DevOps pipeline.

Aws Packt Publishing Ltd

Master Powerful Off-the-Shelf Business Solutions for AI and Machine Learning Pragmatic AI will help you solve real-world

problems with contemporary machine learning, artificial intelligence, and cloud computing tools. Noah Gift demystifies all the concepts and tools you need to get results—even if you don't have a strong background in math or data science. Gift illuminates powerful off-the-shelf cloud offerings from Amazon, Google, and Microsoft, and demonstrates proven techniques using the Python data science ecosystem. His workflows and examples help you streamline and simplify every step, from deployment to production, and build exceptionally scalable solutions. As you learn how machine language (ML) solutions work, you'll gain a more intuitive understanding of what you can achieve with them and how to maximize their value. Building on these fundamentals, you'll walk step-by-step through building cloud-based AI/ML applications to address realistic issues in sports marketing, project management, product pricing, real estate, and beyond. Whether you're a business professional, decision-maker, student, or programmer, Gift's expert guidance and wide-ranging case studies will prepare you to solve data science problems in virtually any environment. Get and configure all the tools you'll need Quickly review all the Python you need to start building machine learning applications Master the AI and ML toolchain and project lifecycle Work with Python data science tools such as IPython, Pandas, Numpy, Jupyter Notebook, and Sklearn Incorporate a pragmatic feedback loop that continually improves the efficiency of your workflows and systems Develop cloud AI solutions with Google Cloud Platform, including TPU, Colaboratory, and Datalab services Define Amazon Web Services cloud AI workflows, including spot instances, code pipelines, boto, and more Work with Microsoft Azure AI APIs Walk through building six real-world AI applications, from start to finish Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

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

Do you want to know why AWS is the Future of data management and security? Would you like to Discover why AWS is your best solution? Do you want to Dip Your Feet Into AWS? If you answered "YES!", then you need to look no further. This book will answer practically every question you may be having about AWS, from various angles to allow you to have in-depth knowledge of why AWS is considered the most adaptable, extremely scalable, cost-effective as well as reliable infrastructure that you can utilize for

expanding secured web solutions with very minimum maintenance irrespective of your demands! In this book, you will gain a complete understanding of AWS from a user perspective, including: Why cloud computing is the future. How and why Amazon ended up developing AWS. A comprehensive overview of AWS services. Optional AWS support services that you can employ to improve the user experience. In-depth understanding of AWS features in comparison to the other options on the marketplace. How AWS is an incredibly versatile and powerful cloud service Key development tools of AWS that you can leverage to propel your business to the next level. And much, much, more! If you made it up to this point it's because you are serious about embracing advanced cloud computing systems and AWS has everything you need. Discover how to obtain the most from its advanced cloud computing capacities. In this no-nonsense, no-holds-barred guide, I show you all the benefits of AWS and how it can transform your business for the better. What are you waiting for? Scroll Up and get your copy now.

Aws Independently Published

Learn to design, build, and manage your infrastructure on the most popular of all the Cloud platforms—Amazon Web Services About This Book Learn how to leverage various Amazon Web Services (AWS) components and services to build a secure, reliable, and robust environment to host your applications on Deep dive into the core AWS service offerings with hands-on tutorials, real-world use case scenarios, and best practices A self-paced, systematic, and step-by-step guide to learning and implementing AWS in your own environment Who This Book Is For This book is for those who want to learn and leverage AWS. Although no prior experience with AWS is required, it is recommended that you have some hands-on experience of Linux, Web Services, and basic networking What You Will Learn A brief introduction to Cloud Computing and AWS accompanied by steps to sign up for your first AWS account Create and manage users, groups, and permissions using AWSS Identity and Access Management services Get started with deploying and accessing EC2 instances, working with EBS Volumes and Snapshots Customize and create your very own Amazon Machine Image Design and deploy your instances on a highly secured, network isolated environment using Amazon VPC Effectively monitor your AWS environment using specialized alarms, custom monitoring

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

Cloud Computing Independently Published

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.

Amazon Web Services in Action, Third Edition CRC Press

This book describes cloud computing as a service that is "highly scalable" and operates in "a resilient environment". The authors emphasize architectural layers and models - but also business and security factors.

AWS Certified Cloud Practitioner Study Guide with Online Labs John Wiley & Sons

Build cost-effective and highly scalable Serverless applications using AWS Lambda. About This Book Leverage AWS Lambda to significantly lower your infrastructure costs and deploy out massively scalable, event-driven systems and applications Learn how to design and build Lambda functions using real-world examples and implementation scenarios Explore the Serverless ecosystem with a variety of toolsets and AWS services including DynamoDB, API Gateway, and much more! Who This Book Is For If you are a Cloud administrator and/or developer who wishes to explore, learn, and leverage AWS Lambda to design, build, and deploy Serverless applications in the cloud, then this is the book for you! The book assumes you have some prior knowledge and hands-on experience with AWS core services such as EC2, IAM,

S3, along with the knowledge to work with any popular programming language such as Node.js, Java, C#, and so on. What You Will Learn Understand the hype, significance, and business benefits of Serverless computing and applications Plunge into the Serverless world of AWS Lambda and master its core components and how it works Find out how to effectively and efficiently design, develop, and test Lambda functions using Node.js, along with some keen coding insights and best practices Explore best practices to effectively monitor and troubleshoot Serverless applications using AWS CloudWatch and other third-party services in the form of Datadog and Loggly Quickly design and develop Serverless applications by leveraging AWS Lambda, DynamoDB, and API Gateway using the Serverless Application Framework (SAF) and other AWS services such as Step Functions Explore a rich variety of real-world Serverless use cases with Lambda and see how you can apply it to your environments In Detail AWS is recognized as one of the biggest market leaders for cloud computing and why not? It has evolved a lot since the time it started out by providing just basic services such as EC2 and S3 and today; they go all the way from IoT to Machine Learning, Image recognition, Chatbot Frameworks, and much more! One of those recent services that is also gaining a lot of traction is AWS Lambda! Although seemingly simple and easy to use, Lambda is a highly effective and scalable compute service that provides developers with a powerful platform to design and develop Serverless event-driven systems and applications. The book begins with a high-level introduction into the world of Serverless computing and its advantages and use cases, followed by a deep dive into AWS Lambda! You'll learn what services AWS Lambda provides to developers; how to design, write, and test Lambda functions; as well as monitor and troubleshoot them. The book is designed and accompanied with a vast variety of real-world examples, use cases, and code samples that will enable you to get started on your Serverless applications quickly. By the end of the book, you will have gained all the skills required to work with AWS Lambda services! Style and approach This step-by-step guide will help you build Serverless applications and run Serverless workloads using the AWS Lambda service. You'll be able to get started with it in a matter of minutes with easy-to-follow code snippets and examples. *Aws Addison-Wesley Professional*

Discover the infinite world of Amazon Web Services (AWS) and become a master of cloud computing! Amazon Web Services is the world's most comprehensive and broadly adopted cloud platform. That is why millions of people, developing startups, corporations, and even government agencies use 175 features on an everyday basis. If AWS sounds like a must-have tool, you are right, but how about learning how to use this universal platform? Don't worry, we have figured it out for you with "AWS: The Ultimate Step-by-Step Guide from Beginners to Advanced for Amazon Web Services". This comprehensive volume can teach you everything from the basis of AWS to more advanced functions, so you can ace this cloud platform and get the security and innovation you deserve. Written by top experts in cloud computing and AWS, this easy-to-follow guide is great for getting a grasp at what Amazon Web Services can do for you, as well as how to master this new and improved cloud platform. What can you learn with this AWS handbook? You will start your journey by understanding what AWS and what it can really do for you and your business. Afterward, you will get a short and comprehensive background of how this cloud platform was born and its history. Learning the first steps of AWS is going to be simple once you have a view of what cloud computing is and what are the main benefits of AWS. Now that you have acquired the basic knowledge, you can move on to the more advanced steps: learning about service development for website owners, AWS storage devices, big data and notification services, security, database, and cost management. With this book, you can: Improve your knowledge about cloud systems and data analysis Get a handle on the basic concepts of AWS Make it easier to work with the 175 features of the AWS platform Learn about the myths surrounding AWS that you should stop and get the real facts instead Understand why knowing about cloud computing is a real asset for you and your company Learn how AWS was born and developed by the experts behind it Discover some of the weaknesses of the system and how to make them work in your advantage Understand why the feature of cloud computing for the big players lies in Amazon Elastic Compute Clouding Learn the role of AWS in advanced systems and innovative ideas such as big data, machine learning, and AI Become a better professional that can help you advance in your career or grow your business Enjoy a secured database system that will never fail you or your

company Learn how to use platform available in almost any region of the world, with no compromises on location Experience innovative ideas and become a highly skilled professional! And much more! Still having doubts? Don't worry, this book is easy to follow and will thoroughly explain every concept in a simple way that is easy to understand by everyone. Don't hesitate and start your AWS learning journey NOW! Click Buy Now With 1-Click or Buy Now to get started

Pragmatic AI Packt Publishing Ltd

AWS is an amazing cloud computing platform. It represent the 58% of Amazon's total receipts and offers more than 175 services to companies and start-ups; it is also economically advantageous: it's not a casualty that its services are adopted by millions of people. Would you like to discover the world of the best cloud platform ever? Are you interested in expanding your knowledge about AWS? Are you tired by the delays of the framework provisioning? This book will help you to solve all your doubts and problems giving you the right keys to use Amazon's on demand services for your company even if you're a beginner. Reading this book you will learn more about: The functions of Amazon Web Services Elaborating cloud computing Having a full understanding of Amazon's Marketing Philosophy Setting Up Your Amazon Web Services Account AWS Platform Services Cloud Computing Models Many other advices to raise to another level your knowledge about this incredible cloud computing platform. If you want to be a pro level AWS user, if you need an efficient and extra-complete guide, this book is perfect for you! Buy and enjoy your copy!

Designing AWS Environments Pearson Education

Set yourself apart by becoming an AWS Certified Cloud Practitioner Take the next step in your career by expanding and validating your skills on the Amazon Web Services (AWS) Cloud. The AWS Certified Cloud Practitioner Study Guide: Exam CLF-C01 provides a solid introduction to this industry-leading technology, relied upon by thousands of businesses across the globe, as well as the resources you need to prove your knowledge in the AWS Certification Exam. This guide offers complete and thorough treatment of all topics included in the exam, beginning with a discussion of what the AWS cloud is and its basic global infrastructure and architectural principles. Other chapters dive into the technical, exploring core characteristics of deploying and operating in the AWS Cloud Platform, as well as basic security and

compliance aspects and the shared security model. In addition, the text identifies sources of documentation or technical assistance, such as white papers or support tickets. To complete their coverage, the authors discuss the AWS Cloud value proposition and define billing, account management, and pricing models. This includes describing the key services AWS can provide and their common use cases (e.g., compute, analytics, etc.). Distinguish yourself as an expert by obtaining a highly desirable certification in a widely used platform Hone your skills and gain new insights on AWS whether you work in a technical, managerial, sales, purchasing, or financial field Fully prepare for this new exam using expert content and real-world knowledge, key exam essentials, chapter review questions, and other textual resources Benefit from 1 year free access to the Sybex online interactive learning environment and test bank, including chapter tests, practice exams, key term glossary, and electronic flashcards, all supported by Wiley's support agents who are available 24x7 via email or live chat to assist with access and login questions The AWS Certified Cloud Practitioner Study Guide is essential reading for any professional in IT or other fields that work directly with AWS, soon-to-be graduates studying in those areas, or anyone hoping to prove themselves as an AWS Certified Cloud Practitioner.

Amazon Web Services in Action John Wiley & Sons

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: > Fundamentals of cloud computing; > Basic terminologies for the AWS cloud platform; > Cloud computing security (VERY IMPORTANT for businesses!); > Basics of SaaS, PaaS, IaaS cloud computing services; > Cloud computing development models; > Mobile Services with AWS Amplify,

Pinpoint and AWS AppSync; > Network and Content Delivery; > Developer tools such as AWS Code Commit and AWS X-Ray; > Management tools such as Cloud Formation and AWS control tower; > Using managed Blockchain for Amazon Quantum Ledger Databases (QLDB); > Security, Identity and compliance; > Business applications such as Alexa, Amazon Chime and Toll (video conferencing); > Cost Management (Often Overlooked!); > Desktop and App streaming; > Which one is better? Artificial intelligence or Machine Learning?; > Game Dev (Fantastic for Indie Developers!); > Internet of things (IOT); > And so much more! 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!

Learning AWS Packt Publishing Ltd

How do the experts solve difficult problems in software development? In this unique and insightful book, leading computer scientists offer case studies that reveal how they found unusual, carefully designed solutions to high-profile projects. You will be able to look over the shoulder of major coding and design experts to see problems through their eyes. This is not simply another design patterns book, or another software engineering treatise on the right and wrong way to do things. The authors think aloud as they work through their project's architecture, the tradeoffs made in its construction, and when it was important to break rules. This book contains 33 chapters contributed by Brian Kernighan, KarlFogel, Jon Bentley, Tim Bray, Elliotte Rusty Harold, Michael Feathers,Alberto Savoia, Charles Petzold, Douglas Crockford, Henry S. Warren,Jr., Ashish Gulhati, Lincoln Stein, Jim Kent, Jack Dongarra and PiotrLuszczek, Adam Kolawa, Greg Kroah-Hartman, Diomidis Spinellis, AndrewKuchling, Travis E. Oliphant, Ronald Mak, Rogerio Atem de Carvalho andRafael Monnerat, Bryan Cantrill, Jeff Dean and Sanjay Ghemawat, SimonPeyton Jones, Kent Dybvig, William Otte and Douglas C. Schmidt, AndrewPatzner, Andreas Zeller, Yukihiro Matsumoto, Arun Mehta, TV Raman,Laura Wingerd and Christopher Seiwald, and Brian Hayes. Beautiful Code is an opportunity for master coders to tell their story. All author royalties will be donated to Amnesty International.

Cloud Application Architectures John Wiley & Sons

Become an Expert at Amazon Web Services and Transform Your Business! If cloud computing is one of the leading trends in the IT

industry (and it most certainly is), then Amazon Web Services Platform (AWS) is the champion of that trend. If you want to be a part of the competitive markets, you need to jump on this ascending wagon and get familiar with the AWS. There's a reason successful businesses like Netflix and Pinterest use this platform. The math is simple: higher performance, security, and reliability at a lower cost. This book offers a guide to AWS, for both beginner and advanced users. If you want to reduce your companies operating costs, and control the safety of your data, use this step-by-step guide for computing and networking in the AWS cloud. What you'll be able to do after reading this guide: Use developing tools of AWS to your company's advantage Manage cloud architecture through AWS services Upgrade your outsourcing Create a private network in the cloud Implement AWS technology in your projects Create cloud storage and virtual desktop environment Use Amazon Workspaces and Amazon S3 service And so much more! The best part about AWS is that it works on any scale. You can be the owner of both big and small businesses in order to implement AWS in your operations. Even if you're familiar with the AWS cloud, this guide will help you expand your knowledge on the topic. You'll find out everything there is on AWS strategies, cloud selection, and how to make money with a smart AWS implementation in your company. You don't need to be an IT expert to use AWS. You simply need this comprehensive and easy to understand guide. Join millions of customers around the world and skyrocket your profits! Scroll up, click on 'Buy Now with 1-Click' and Get Your Copy!

Middleware and Cloud Computing Packt Publishing Ltd Secure your Amazon Web Services (AWS) infrastructure with permission policies, key management, and network security, while following cloud security best practices Key Features Explore useful recipes for implementing robust cloud security solutions on AWS Monitor your AWS infrastructure and workloads using CloudWatch, CloudTrail, Config, GuardDuty, and Macie Prepare for the AWS Certified Security - Specialty exam by exploring various security models and compliance offerings Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionAs a security consultant, implementing policies and best practices to secure your infrastructure is critical. This cookbook discusses practical solutions for safeguarding infrastructure, covering services and features within AWS that help implement security

models, such as the CIA triad (confidentiality, integrity, and availability) and the AAA triad (authentication, authorization, and accounting), as well as non-repudiation. This updated second edition starts with the fundamentals of AWS accounts and organizations. The book then guides you through identity and access management, data protection, network security, and encryption. You'll explore critical topics such as securing EC2 instances, managing keys with KMS and CloudHSM, and implementing endpoint security. Additionally, you'll learn to monitor your environment using CloudWatch, CloudTrail, and AWS Config, while maintaining compliance with services such as GuardDuty, Macie, and Inspector. Each chapter presents practical recipes for real-world scenarios, allowing you to apply security concepts. By the end of this book, you'll be well versed in techniques required for securing AWS deployments and be prepared to gain the AWS Certified Security - Specialty certification. What you will learn Manage AWS accounts and users with AWS Organizations and IAM Identity Center Secure data and infrastructure with IAM policies, RBAC, and encryption Enhance web security with TLS, load balancers, and firewalls Use AWS services for logging, monitoring, and auditing Ensure compliance with machine-learning-powered AWS services Explore identity management with Cognito, AWS directory services, and external providers such as Entra ID Follow best practices to securely share data across accounts Who this book is for If you're an IT security professional, cloud security architect, or a cloud application developer working on security-related roles and are interested in using AWS infrastructure for secure application deployments, then this Amazon Web Services book is for you. You'll also find this book useful if you're looking to achieve AWS certification. Prior knowledge of AWS and cloud computing is required to get the most out of this book.

Online Learning Analytics Packt Publishing Ltd

"In our increasingly digitally enabled education world, analytics used ethically, strategically, and with care holds the potential to help more and more diverse students be more successful on higher education journeys than ever before. Jay Liebowitz and a cadre of the fields best 'good trouble' makers in this space help shine a light on the possibilities, potential challenges, and the power of learning together in this work." —Mark David Milliron, Ph.D., Senior Vice President and Executive Dean of the Teachers

College, Western Governors University Due to the COVID-19 pandemic and its aftereffects, we have begun to enter the "new normal" of education. Instead of online learning being an "added feature" of K-12 schools and universities worldwide, it will be incorporated as an essential feature in education. There are many questions and concerns from parents, students, teachers, professors, administrators, staff, accrediting bodies, and others regarding the quality of virtual learning and its impact on student learning outcomes. Online Learning Analytics is conceived on trying to answer the questions of those who may be skeptical about online learning. Through better understanding and applying learning analytics, we can assess how successful learning and student/faculty engagement, as examples, can contribute towards producing the educational outcomes needed to advance student learning for future generations. Learning analytics has proven to be successful in many areas, such as the impact of using learning analytics in asynchronous online discussions in higher education. To prepare for a future where online learning plays a major role, this book examines: Data insights for improving curriculum design, teaching practice, and learning Scaling up learning analytics in an evidence-informed way The role of trust in online learning. Online learning faces very real philosophical and operational challenges. This book addresses areas of concern about the future of education and learning. It also energizes the field of learning analytics by presenting research on a range of topics that is broad and recognizes the humanness and depth of educating and learning.

Cloud Computing with AWS "O'Reilly Media, Inc."

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

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