
Mastering Aws Cost Optimization Real World Techni

Mastering AWS

Mastering LLM Applications with LangChain and Hugging Face

Cloud Cost Optimization Handbook for AWS

Mastering AWS Lambda

Mastering Serverless: A Deep Dive into AWS Lambda

Mastering AWS for Cloud Professionals

AWS Certified Cloud Cost Optimization

IBM Cloud Pak for Data

Efficient Cloud FinOps

Multi-Cloud Handbook for Developers

AWS Certified E-Commerce Architect

AWS Certified Cloud Migration Specialist

Mastering Amazon Web Services (AWS)

Mastering AWS Security

Mastering AWS

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Mastering Multi-Cloud Paradigm for Enterprises

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Mastering AWS

PaaS, IaaS, And SaaS: Complete Cloud Infrastructure

Mastering Cloud Storage

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SILAS MENDEZ

Mastering AWS Rob Botwright

Master the art of designing and creating serverless architectures and applications KEY FEATURES ● Learn to create serverless applications that leverage serverless functions, databases, data stores, and application programming interfaces. ● Learn the serverless concepts needed to provide serverless solutions for websites, mobile apps, APIs, backends, notifications, Artificial Intelligence, and Machine Learning. ● Create serverless, event-driven architectures and designs through hands-on exercises throughout the book. DESCRIPTION Serverless computing is relatively new compared to server-based designs. Amazon Web Services launched its serverless computing offering by introducing AWS Lambda. Lambda has introduced a revolution in cloud computing, where servers could be excluded from architectures, and events could be used to trigger other resources. The AWS serverless services have allowed developers, startups, and large enterprises to focus more on developing and creating features and spend less time managing and securing servers. It covers key concepts like serverless architecture and AWS services. You will learn to create event-driven apps, launch websites, and build APIs with hands-on exercises. The book will explore storage options and data processing, including serverless Machine Learning. Discover best practices for architecture, security, and cost optimization. The book will cover advanced topics like AWS SAM and Lambda

layers for complex workflows. Finally, get guidance on creating new serverless apps and migrating existing ones. The knowledge gained from this book will help you create a serverless website, application programming interface, and backend. In addition, the information covered in the book will help you process and analyze data using a serverless design. WHAT YOU WILL LEARN ● Creating a serverless website using Amazon S3 and CloudFront. ● Creating a serverless API using Amazon API Gateway. ● Create serverless functions with AWS Lambda. ● Save data using Amazon DynamoDB and Amazon S3. ● Perform authentication and authorization with Amazon Cognito. WHO THIS BOOK IS FOR The book targets professionals and students who want to gain experience in software development, cloud computing, web development, data processing, or Amazon Web Services. It is ideal for cloud architects, developers, and backend engineers seeking to leverage serverless services for scalable and cost-effective applications. TABLE OF CONTENTS 1. Introduction to AWS Serverless 2. Overview of Serverless Applications 3. Designing Serverless Architectures 4. Launching a Website 5. Creating an API 6. Saving and Using Data 7. Adding Authentication and Authorization 8. Processing Data using Automation and Machine Learning 9. Sending Notifications 10. Additional Automation Topics 11. Architecture Best Practices 12. Next Steps Mastering LLM Applications with LangChain and Hugging Face Cybellium Ltd
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Cloud Cost Optimization Handbook for AWS Cybellium Ltd

DESCRIPTION Unlock the power of AWS and elevate your cloud expertise with "Mastering AWS for Cloud Professionals." This comprehensive guide illuminates the path to cloud mastery, offering a blend of theoretical knowledge and practical expertise. Dive deep into Amazon Web Services (AWS), exploring its vast potential to revolutionize business operations and IT infrastructure. This book offers a visually enriched approach to learning AWS, using diagrams and illustrations to simplify complex concepts. Drawing from real-world experiences, it provides practical insights into implementing AWS in enterprise environments. Learn containerization through practical case studies and industry-proven methodologies, and master AWS monitoring tools for optimizing cloud-based applications and infrastructure. This comprehensive guide ensures a deep understanding of AWS solutions for practical use. With real-life scenarios and practical examples woven throughout, you will not only understand AWS solutions but will also be able to apply them effectively. You will be well-versed in leveraging AWS services to design, deploy, and manage secure, scalable, and cost-effective cloud solutions. You will understand how to optimize your cloud environment for performance and efficiency, ensuring your applications are always available and reliable. **KEY FEATURES** ● Comprehensive exploration of cloud computing principles and AWS-specific methodologies. ● Simplify complex AWS concepts with clear, visual diagrams and illustrations. ● Bridge the gap between theory and practice with industry-relevant architectures. **WHAT YOU WILL LEARN** ● Master AWS architectural fundamentals and build flexible, scalable cloud solutions. ● Design and deploy high-performance, globally distributed applications. ● Harness the power of containerization and serverless computing paradigms. ● Architect microservices and apply AWS Well-Architected Framework best practices. ● Leverage data analytics and machine learning capabilities in cloud environments. ● Secure, monitor, analyze, and optimize AWS deployments using native observability tools. **WHO THIS BOOK IS FOR** This book is tailored for a diverse audience of technology professionals, including cloud architects, system engineers, software developers, and IT operations specialists. This comprehensive guide serves as an excellent resource for those preparing for the AWS Solution Architect certification exam. **TABLE OF CONTENTS** 1. AWS Architectural Fundamentals 2. AWS Networking: Basic Constructs 3. AWS Networking: Advanced Constructs 4. AWS Compute 5. AWS Storage 6. AWS Database 7. Data Analytics 8. Containers in AWS ECS 9. Containers in AWS EKS 10. Microservices 11. ML and GenAI 12. Security in AWS 13. Observability in AWS

Mastering AWS Lambda Cybellium Ltd

Unlocking the Cloud's Infinite Possibilities **KEY FEATURES** ● Design scalable cloud storage solutions and optimize costs. ● Integrate cloud storage seamlessly into your applications. ● Apply theoretical knowledge to real-world scenarios through hands-on case studies. **DESCRIPTION** In today's data-driven world, cloud storage has emerged as an indispensable tool for businesses and individuals alike. With its ability to store and manage vast amounts of data seamlessly, cloud storage has revolutionized the way we handle information. However, navigating the complexities of cloud storage can be a daunting task. This is where this book steps in. Commence on a comprehensive journey through cloud computing fundamentals, exploring evolution, service models, and deployment strategies. Uncover diverse cloud storage technologies, including object, block, and file storage, and look into Amazon S3, Azure Blob Storage, and Google Cloud Storage. Learn to configure storage effectively, implement scalable solutions, and seamlessly integrate with applications. Master disaster recovery, data migration, and hybrid cloud architectures for optimal resource utilization. Perfect the art of cost optimization and performance monitoring, maximizing your cloud storage investment. Mastering Cloud Storage is your ultimate guide to achieving operational excellence, improving system reliability, and enhancing your career in cloud engineering and DevOps. **WHAT YOU WILL LEARN** ● Master Amazon S3 and Azure Blob Storage. ● Implement robust data security and encryption. ● Apply DevOps and DevSecOps in cloud storage. ● Optimize for high availability and reliability. ● Navigate industry-specific regulations and compliance. **WHO THIS BOOK IS FOR** Whether you are a seasoned IT professional, a DevOps engineer, a data scientist, system administrators, or a cloud architect, this systematic guide empowers you to unlock the full potential of cloud storage. **TABLE OF CONTENTS** 1. Introduction to Cloud Computing 2. Understanding Cloud Storage Technologies 3. Exploring Cloud Storage Providers 4. Data Encryption and Security Best Practices 5. Data Redundancy and High Availability 6. Disaster Recovery in the Cloud 7. Configuring Cloud Storage Services 8. Scalable Cloud Storage Solutions 9. Integrating Cloud Storage into Applications 10. Data Migration Techniques 11. Hybrid Cloud Architectures 12. Cost Optimization and Performance Monitoring 13. Industry Trends and Future of Cloud Storage *Mastering Serverless: A Deep Dive into AWS Lambda* [Cloudcostoptimizationhandbook.com](https://cloudcostoptimizationhandbook.com)

The purpose of this handbook is to share our experiences and knowledge in optimizing and controlling AWS Cloud expenses. This is a handbook. Get a copy, work through the sections in each chapter, and you can drive down your AWS costs systematically. If you have a cross-functional team tackling AWS costs, this book guides you through the processes, provides you a blue-print for action items, and facilitates communication and collaboration between finance, IT, devops engineers, software developers and team leads. This book is thorough but concise - it covers major cost saving strategies and major AWS services. We encourage you to contact us to get a copy of Table of Contents. This book is full of details so that both finance and technical person can understand and get started. If you are an executive in business or finance, use this book to understand AWS resources and services, manage cost proactively and promote a frugal culture in the Cloud environment. Both authors are members of FinOps Foundation - a movement to bring technology, business and finance together to manage cloud operations. If you have any questions or feedback, please find us on LinkedIn or on our Web site: <https://cloudcostoptimizationhandbook.com/>. Finally, please get a copy for yourself and for your team.

Mastering AWS for Cloud Professionals Cybellium Ltd

Explore cloud economics and cost optimization for Azure, AWS, and GCP with this practical guide covering methods, strategies, best practices, and real-world examples, bridging theory and application **Key Features** Learn cost optimization best practices on different cloud services using FinOps principles and examples Gain hands-on expertise in improving cost estimations and devising cost reduction plans for Azure, AWS, and GCP Analyze case studies that illustrate the application of FinOps in diverse real-world scenarios Purchase of the print or Kindle book includes a free PDF eBook **Book Description**In response to the escalating challenges of cloud adoption, where balancing costs and maximizing cloud values is paramount, FinOps

practices have emerged as the cornerstone of financial optimization. This book serves as your comprehensive guide to understanding how FinOps is implemented in organizations worldwide through team collaboration and proper cloud governance. Presenting FinOps from a practical point of view, covering the three phases—inform, optimize, and operate—this book demonstrates an end-to-end methodology for optimizing costs and performing financial management in the cloud. You'll learn how to design KPIs and dashboards for judicious cost allocation, covering key features of cloud services such as reserved instances, rightsizing, scaling, and automation for cost optimization. This book further simplifies architectural concepts and best practices, enabling you to design superior and more optimized solutions. Finally, you'll discover potential synergies and future challenges, from the integration of artificial intelligence to cloud sustainability considerations, to prepare for the future of cloud FinOps. By the end of this book, you'll have built the expertise to seamlessly implement FinOps practices across major public clouds, armed with insights and ideas to propel your organization toward business growth. **What you will learn** Examine challenges in cloud adoption and cost optimization Gain insight into the integration of FinOps within organizations Explore the synergies between FinOps and DevOps, IaC, and change management Leverage tools such as Azure Advisor, AWS CUDOS, and GCP cost reports Estimate and optimize costs using cloud services key features and best practices Implement cost dashboards and reports to improve visibility and control Understand FinOps roles and processes crucial for organizational success Apply FinOps through real-life examples and multicloud architectures **Who this book is for** This book is for cloud engineers, cloud and solutions architects, as well as DevOps and SysOps engineers interested in learning more about FinOps and cloud financial management for efficiently architecting, designing, and operating software solutions and infrastructure using the public clouds. Additionally, team leads, project managers, and financial teams aiming to optimize cloud resources will also find this book useful. Prior knowledge of cloud computing and major public clouds is assumed.

AWS Certified Cloud Cost Optimization Edwin Cano

Welcome to the forefront of knowledge with Cybellium, your trusted partner in mastering the cutting-edge fields of IT, Artificial Intelligence, Cyber Security, Business, Economics and Science. Designed for professionals, students, and enthusiasts alike, our comprehensive books empower you to stay ahead in a rapidly evolving digital world. *** Expert Insights:** Our books provide deep, actionable insights that bridge the gap between theory and practical application. *** Up-to-Date Content:** Stay current with the latest advancements, trends, and best practices in IT, AI, Cybersecurity, Business, Economics and Science. Each guide is regularly updated to reflect the newest developments and challenges. *** Comprehensive Coverage:** Whether you're a beginner or an advanced learner, Cybellium books cover a wide range of topics, from foundational principles to specialized knowledge, tailored to your level of expertise. Become part of a global network of learners and professionals who trust Cybellium to guide their educational journey. www.cybellium.com

IBM Cloud Pak for Data Packt Publishing Ltd

In depth informative guide to implement and use AWS security services effectively. **About This Book** Learn to secure your network, infrastructure, data and applications in AWS cloud Log, monitor and audit your AWS resources for continuous security and continuous compliance in AWS cloud Use AWS managed security services to automate security. Focus on increasing your business rather than being diverged onto security risks and issues with AWS security. Delve deep into various aspects such as the security model, compliance, access management and much more to build and maintain a secure environment. **Who This Book Is For** This book is for all IT professionals, system administrators and security analysts, solution architects and Chief Information Security Officers who are responsible for securing workloads in AWS for their organizations. It is helpful for all Solutions Architects who want to design and implement secure architecture on AWS by the following security by design principle. This book is helpful for personnel in Auditors and Project Management role to understand how they can audit AWS workloads and how they can manage security in AWS respectively. If you are learning AWS or championing AWS adoption in your organization, you should read this book to build security in all your workloads. You will benefit from knowing about security footprint of all major AWS services for multiple domains, use cases, and scenarios. **What You Will Learn** Learn about AWS Identity Management and Access control Gain knowledge to create and secure your private network in AWS Understand and secure your infrastructure in AWS Understand monitoring, logging and auditing in AWS Ensure Data Security in AWS Learn to secure your applications in AWS Explore AWS Security best practices In Detail Mastering AWS Security starts with a deep dive into the fundamentals of the shared security responsibility model. This book tells you how you can enable continuous security, continuous auditing, and continuous compliance by automating your security in AWS with the tools, services, and features it provides. Moving on, you will learn about access control in AWS for all resources. You will also learn about the security of your network, servers, data and applications in the AWS cloud using native AWS security services. By the end of this book, you will understand the complete AWS Security landscape, covering all aspects of end - to -end software and hardware security along with logging, auditing, and compliance of your entire IT environment in the AWS cloud. Lastly, the book will wrap up with AWS best practices for security. **Style and approach** The book will take a practical approach delving into different aspects of AWS security to help you become a master of it. It will focus on using native AWS security features and managed AWS services to help you achieve continuous security and continuous compliance.

Efficient Cloud FinOps BPB Publications

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.

Multi-Cloud Handbook for Developers Walzone Press

In depth informative guide to implement and use AWS security services effectively.About This Book* Learn to secure your network, infrastructure, data and applications in AWS cloud* Log, monitor and audit your AWS resources for continuous security and continuous compliance in AWS cloud* Use AWS managed security services to automate security. Focus on increasing your business rather than being diverged onto security risks and issues with AWS security.* Delve deep into various aspects such as the security model, compliance, access management and much more to build and maintain a secure environment.Who This Book Is ForThis book is for all IT professionals, system administrators and security analysts, solution architects and Chief Information Security Officers who are responsible for securing workloads in AWS for their organizations. It is helpful for all Solutions Architects who want to design and implement secure architecture on AWS by the following security by design principle. This book is helpful for personnel in Auditors and Project Management role to understand how they can audit AWS workloads and how they can manage security in AWS respectively.If you are learning AWS or championing AWS adoption in your organization, you should read this book to build security in all your workloads. You will benefit from knowing about security footprint of all major AWS services for multiple domains, use cases, and scenarios.What You Will Learn* Learn about AWS Identity Management and Access control* Gain knowledge to create and secure your private network in AWS* Understand and secure your infrastructure in AWS* Understand monitoring, logging and auditing in AWS* Ensure Data Security in AWS* Learn to secure your applications in AWS* Explore AWS Security best practicesIn DetailMastering AWS Security starts with a deep dive into the fundamentals of the shared security responsibility model. This book tells you how you can enable continuous security, continuous auditing, and continuous compliance by automating your security in AWS with the tools, services, and features it provides.Moving on, you will learn about access control in AWS for all resources. You will also learn about the security of your network, servers, data and applications in the AWS cloud using native AWS security services.By the end of this book, you will understand the complete AWS Security landscape, covering all aspects of end - to -end software and hardware security along with logging, auditing, and compliance of your entire IT environment in the AWS cloud.Lastly, the book will wrap up with AWS best practices for security.Style and approachThe book will take a practical approach delving into different aspects of AWS security to help you become a master of it. It will focus on using native AWS security features and managed AWS services to help you achieve continuous security and continuous compliance.

AWS Certified E-Commerce Architect Orange Education Pvt Ltd

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AWS Certified Cloud Migration Specialist Cybellium Ltd

Unlocking the Cloud's Infinite Possibilities KEY FEATURES ● Design scalable cloud storage solutions and optimize costs. ● Integrate cloud storage seamlessly into your applications. ● Apply theoretical knowledge to real-world scenarios through hands-on case studies. DESCRIPTION In today's data-driven world, cloud storage has emerged as an indispensable tool for businesses and individuals alike. With its ability to store and manage vast amounts of data seamlessly, cloud storage has revolutionized the way we handle information. However, navigating the complexities of cloud storage can be a daunting task. This is where this book steps in. Commence on a comprehensive journey through cloud computing fundamentals, exploring evolution, service models, and deployment strategies. Uncover diverse cloud storage technologies, including object, block, and file storage, and look into Amazon S3, Azure Blob Storage, and Google Cloud Storage. Learn to configure storage effectively, implement scalable solutions, and seamlessly integrate with applications. Master disaster recovery, data migration, and hybrid cloud architectures for optimal resource utilization. Perfect the art of cost optimization and performance monitoring, maximizing your cloud storage investment. Mastering Cloud Storage is your ultimate guide to achieving operational excellence, improving system reliability, and enhancing your career in cloud engineering and DevOps. WHAT YOU WILL LEARN ● Master Amazon S3 and Azure Blob Storage. ● Implement robust data security and encryption. ● Apply DevOps and DevSecOps in cloud storage. ● Optimize for high availability and reliability. ● Navigate industry-specific regulations and compliance. WHO THIS BOOK IS FOR Whether you are a seasoned IT professional, a DevOps engineer, a data scientist, system administrators, or a cloud architect, this systematic guide empowers you to unlock the full potential of cloud storage. TABLE OF CONTENTS 1. Introduction to Cloud Computing 2. Understanding Cloud Storage Technologies 3. Exploring Cloud Storage Providers 4. Data Encryption and Security Best Practices 5. Data Redundancy and High Availability 6. Disaster Recovery in

the Cloud 7. Configuring Cloud Storage Services 8. Scalable Cloud Storage Solutions 9. Integrating Cloud Storage into Applications 10. Data Migration Techniques 11. Hybrid Cloud Architectures 12. Cost Optimization and Performance Monitoring 13. Industry Trends and Future of Cloud Storage

Mastering Amazon Web Services (AWS) Packt Publishing Ltd

Explore proven techniques and best practices for designing, deploying, and managing cloud-native applications in multi-cloud environments with the help of real-world examples, success stories, and emerging technologies Key Features Discover optimal solutions in multi-cloud environments using AWS, Azure, and GCP tools and technologies Excel in designing, developing, and securing cloud-native apps with Docker, Kubernetes, and Istio Learn design patterns, cost optimization, best practices, and pitfalls to avoid in multi-cloud apps Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionUnleash the power of cloud computing with Multi-Cloud Handbook for Developers, your guide to mastering the nuances of cloud-native and multi-cloud, covering practical strategies for design, development, and management. Explore the essential concepts, challenges, and methodologies critical for navigating the complex landscape of modern cloud computing. Using core architectural and design principles (such as microservices and 12-factor architecture) and advanced strategies (such as distributed application design patterns, domain-driven design (DDD), and API-first strategies), you'll learn how to build portable and efficient apps across various cloud platforms. You'll understand how to leverage Infrastructure as Code (IaC), continuous integration and deployment (CI/CD), GitOps, and DevOps practices, along with containerization and orchestration techniques using Docker and Kubernetes. You'll also get to grips with data, security, compliance, and cloud cost management strategies in multi-cloud environments. With real-world case studies, best practices, and insights into future trends, this book will equip you with the skills to develop, manage, troubleshoot, and innovate cloud-native applications across diverse cloud platforms, positioning you at the forefront of the cloud computing revolution.What you will learn Understand the core structures and implications of cloud-native and multi-cloud apps Explore key principles and patterns to build agile, scalable, and future-proof apps Master cloud-native essentials: service mesh, DDD, and API-centric approaches Implement deployment pipelines with advanced IaC, CI/CD, DevSecOps, and GitOps techniques Manage and monitor data, security, compliance, and identity access in multi-cloud scenarios Optimize your cloud costs with shift-left and FinOps practices Get ready for the future of cloud-native and multi-cloud technology Who this book is for Ideal for cloud-native and cloud developers, platform engineers, software architects, and IT professionals focused on building and managing cloud-native applications in multi-cloud environments, this book is an indispensable guide for students and researchers seeking insights into cloud-native concepts and multi-cloud architectures. A basic understanding of cloud computing, contemporary software development, system design, and cloud platforms such as AWS, Azure, and GCP, will prove useful.

Mastering AWS Security BPB Publications

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How a web-scale network of autonomous micromanagers can challenge the AI revolution and combat the high cost of quantitative business optimization. The artificial intelligence (AI) revolution is leaving behind small businesses and organizations that cannot afford in-house teams of data scientists. In Microprediction, Peter Cotton examines the repeated quantitative tasks that drive business optimization from the perspectives of economics, statistics, decision making under uncertainty, and privacy concerns. He asks what things currently described as AI are not "microprediction," whether microprediction is an individual or collective activity, and how we can produce and distribute high-quality microprediction at low cost. The world is missing a public utility, he concludes, while companies are missing an important strategic approach that would enable them to benefit—and also give back. In an engaging, colloquial style, Cotton argues that market-inspired "superminds" are likely to be very effective compared with other orchestration mechanisms in the domain of microprediction. He presents an ambitious yet practical alternative to the expensive "artisan" data science that currently drains money from firms. Challenging the machine learning revolution and exposing a contradiction at its heart, he offers engineers a new liberty: no longer reliant on quantitative experts, they are free to create intelligent applications using general-purpose application programming interfaces (APIs) and libraries. He describes work underway to encourage this approach, one that he says might someday prove to be as valuable to businesses—and society at large—as the internet.

Mastering AWS Security MIT Press

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Mastering Multi-Cloud Paradigm for Enterprises Cybellium Ltd

In depth informative guide to implement and use AWS security services effectively. About This Book Learn to secure your network, infrastructure, data and applications in AWS cloud Log, monitor and audit your AWS resources for continuous security and continuous compliance in AWS cloud Use AWS managed security services to automate security. Focus on increasing your business rather than being diverged onto security risks and issues with AWS security. Delve deep into various aspects such as the security model, compliance, access management and much more to build and

maintain a secure environment. Who This Book Is For This book is for all IT professionals, system administrators and security analysts, solution architects and Chief Information Security Officers who are responsible for securing workloads in AWS for their organizations. It is helpful for all Solutions Architects who want to design and implement secure architecture on AWS by the following security by design principle. This book is helpful for personnel in Auditors and Project Management role to understand how they can audit AWS workloads and how they can manage security in AWS respectively. If you are learning AWS or championing AWS adoption in your organization, you should read this book to build security in all your workloads. You will benefit from knowing about security footprint of all major AWS services for multiple domains, use cases, and scenarios. What You Will Learn Learn about AWS Identity Management and Access control Gain knowledge to create and secure your private network in AWS Understand and secure your infrastructure in AWS Understand monitoring, logging and auditing in AWS Ensure Data Security in AWS Learn to secure your applications in AWS Explore AWS Security best practices In Detail Mastering AWS Security starts with a deep dive into the fundamentals of the shared security responsibility model. This book tells you how you can enable continuous security, continuous auditing, and continuous compliance by automating your security in AWS with the tools, services, and features it provides. Moving on, you will learn about access control in AWS for all resources. You will also learn about the security of your network, servers, data and applications in the AWS cloud using native AWS security services. By the end of this book, you will understand the complete AWS Security landscape, covering all aspects of end - to -end software and hardware security along with logging, auditing, and compliance of your entire IT environment in the AWS cloud. Lastly, the book will wrap up with AWS best practices for security. Style and approach The book will take a practical approach delving into different aspects of AWS security to help you become a master of it. It will focus on using native AWS security features and managed AWS services to help you achieve continuous security and continuous compliance.

Mastering AWS Security BPB Publications

Master Amazon EC2 with this comprehensive guide to unleashing the full potential of cloud computing, optimizing performance, and revolutionizing your business processes Key Features Gain an in-depth understanding of EC2 core components, connectivity, networking, and security best practices Build resilient applications with load balancing, autoscaling and diverse storage options Learn advanced concepts and use cases for serverless, containers, HPC, and hybrid/multi cloud architecture Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionThis comprehensive guide demystifies the complex landscape of Amazon EC2, from fundamentals to advanced concepts. You'll begin by understanding EC2 core components, creating and managing AMIs, selecting the right instance type and size, establishing networking and connectivity, and implementing security best practices. Next, you'll start building resilient apps on EC2, load balancing, auto scaling, storage options, performance optimization, monitoring, logging, and auditing. You'll also explore advanced concepts like containers, serverless, hybrid/multi-cloud architectures, high performance computing, big data, and disaster recovery strategies. By the end, you'll be equipped with the knowledge and confidence to harness the full potential of Amazon EC2. What you will learn Discover how to create, manage, and select the right EC2 AMIs Explore load balancing and auto scaling with Elastic Load Balancing (ELB) and Auto Scaling Groups (ASGs) Study EC2 storage options and performance optimization Master monitoring and maintenance with Amazon Web Services (AWS) tools Understand containerization, serverless computing, and EC2 automation Get up to speed with migration, modernization, and compliance in EC2 Who this book is for This Amazon book is for IT professionals, DevOps engineers, cloud architects and developers looking to delve into Amazon EC2 and cloud computing. No prior AWS experience is required as the book takes you through the fundamentals, gradually advancing toward more complex topics.

AWS Certified Cloud Developer □ Associate Packt Publishing Ltd

The rapid advancements in technology have shifted the landscape of how businesses operate, innovate, and grow. At the center of this transformation is cloud computing—a paradigm that eliminates the constraints of traditional infrastructure, enabling scalability, agility, and cost-efficiency. Amazon Web Services (AWS) has emerged as the leading cloud provider, offering a comprehensive suite of services that power startups, enterprises, and governments worldwide. This book, Mastering AWS, serves as a gateway to understanding and utilizing AWS to its full potential.

Whether you're a professional aiming to enhance your technical skills, a business leader seeking to drive innovation, or a student exploring the possibilities of cloud computing, this book is crafted to guide you step-by-step through the AWS ecosystem. Why AWS? AWS is a pioneer in the cloud computing space, providing an unmatched array of services for compute, storage, databases, machine learning, IoT, and much more. Its global infrastructure ensures reliability, while its pay-as-you-go pricing model makes it accessible to organizations of all sizes. AWS has become synonymous with innovation, enabling companies to experiment, iterate, and succeed faster than ever before. What Will You Learn? This book covers a wide range of topics, including: The fundamental concepts of cloud computing and AWS architecture. Setting up and managing your AWS account securely and efficiently. Deploying scalable applications using services like EC2, Lambda, and Elastic Beanstalk. Harnessing data with storage solutions such as S3, RDS, and DynamoDB. Advanced topics like AI/ML with SageMaker, IoT solutions, and DevOps practices. Cost management strategies and real-world use cases to maximize the value of AWS. Who Is This Book For? This book is designed for readers at all skill levels: Beginners will appreciate the step-by-step explanations and foundational concepts. Intermediate users will gain insights into best practices, cost optimization, and advanced features. Experts will find value in the comprehensive coverage of AWS services and practical examples. How to Use This Book The chapters are structured to provide a logical progression from basics to advanced topics. Each chapter includes practical examples, hands-on exercises, and tips to help you apply the concepts effectively. You can read the book sequentially or jump to specific sections based on your interests and needs. A Journey to Mastery Mastering AWS is not just about learning how to use its services; it's about understanding how to leverage the cloud to solve challenges, innovate faster, and achieve your goals. By the end of this book, you'll have the knowledge and confidence to harness AWS for any project or initiative, whether you're launching a startup, optimizing enterprise operations, or exploring cutting-edge technologies. Let's begin this exciting journey into the world of AWS, where the only limit is your imagination.

Mastering AWS Security Independently Published

Build end-to-end AI solutions with IBM Cloud Pak for Data to operationalize AI on a secure platform based on cloud-native reliability, cost-effective multitenancy, and efficient resource management Key Features Explore data virtualization by accessing data in real time without moving it Unify the data and AI experience with the integrated end-to-end platform Explore the AI life cycle and learn to build, experiment, and operationalize trusted AI at scale Book Description Cloud Pak for Data is IBM's modern data and AI platform that includes strategic offerings from its data and AI portfolio delivered in a cloud-native fashion with the flexibility of deployment on any cloud. The platform offers a unique approach to addressing modern challenges with an integrated mix of proprietary, open-source, and third-party services. You'll begin by getting to grips with key concepts in modern data management and artificial intelligence (AI), reviewing real-life use cases, and developing an appreciation of the AI Ladder principle. Once you've gotten to grips with the basics, you will explore how Cloud Pak for Data helps in the elegant implementation of the AI Ladder practice to collect, organize, analyze, and infuse data and trustworthy AI across your business. As you advance, you'll discover the capabilities of the platform and extension services, including how they are packaged and priced. With the help of examples present throughout the book, you will gain a deep understanding of the platform, from its rich capabilities and technical architecture to its ecosystem and key go-to-market aspects. By the end of this IBM book, you'll be able to apply IBM Cloud Pak for Data's prescriptive practices and leverage its capabilities to build a trusted data foundation and accelerate AI adoption in your enterprise. What you will learn Understand the importance of digital transformations and the role of data and AI platforms Get to grips with data architecture and its relevance in driving AI adoption using IBM's AI Ladder Understand Cloud Pak for Data, its value proposition, capabilities, and unique differentiators Delve into the pricing, packaging, key use cases, and competitors of Cloud Pak for Data Use the Cloud Pak for Data ecosystem with premium IBM and third-party services Discover IBM's vibrant ecosystem of proprietary, open-source, and third-party offerings from over 35 ISVs Who this book is for This book is for data scientists, data stewards, developers, and data-focused business executives interested in learning about IBM's Cloud Pak for Data. Knowledge of technical concepts related to data science and familiarity with data analytics and AI initiatives at various levels of maturity are required to make the most of this book.