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# Professional Cloud Solutions Architect Global Knowledge

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Associate Exam

Cloud Computing

The Enterprise Cloud

A handy guide to designing, developing, and managing enterprise-grade GCP cloud solutions

Solutions Architect's Handbook

Designing Data-Intensive Applications

AWS Certified Solutions Architect Study Guide

Google Cloud Certified Professional Cloud Architect Study Guide

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Architecting Google Cloud Solutions

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Best Practices for Transforming Legacy IT

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## **WILLIAMS CROSS**

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The complete vCAT printed reference: knowledge, tools, and validated designs for building high-value vCloud® solutions The vCloud Architecture Toolkit (vCAT) brings together validated designs, tools, and knowledge for architecting, implementing, operating, and consuming modern vCloud infrastructure based on the Software Defined Data Center (SDDC). vCAT has already helped hundreds of VMware customers succeed with vCloud. Now, pioneering VMware architect John Arrasjid has integrated essential vCAT information into a definitive printed guide, adding even more context and examples for successful planning and deployment. To do so, Arrasjid has distilled contributions from more than 100 VMware architects, consultants, administrators, engineers, project managers, and other technical leaders. VMware vCloud Architecture Toolkit (vCAT) is your complete roadmap for using virtualization to simplify data centers and related IT infrastructure. You'll find up-to-the-minute, field-proven insights for addressing a wide spectrum of challenges—from availability to interoperability, security to business continuity. Coverage includes vCAT design guidelines and patterns for efficiently architecting, operating, and consuming VMware cloud computing solutions Software-defined datacenter services for storage, networking, security, and availability People, process, and technology issues associated with effective vCloud operation and maintenance Efficient service consumption: consumption models, service catalogs, vApps, and service provider interactions Workflows to coordinate and automate task sequences, which extend beyond vCloud VMware vCloud Director® Server Resource Kit software tools Advanced “cloud bursting” and autoscaling techniques to dynamically leverage additional computing resources Planning and management of capacity, security, compliance, and disaster recovery  
*Cloud Computing* Pearson Education

Everything you need to know for the Solutions Architect - Associate Exam, fully updated The AWS Certified Solutions Architect Study Guide: Associate (SAA-C01) Exam is your complete and fully updated resource to the AWS Solutions Architect - Associate certification. This invaluable Sybex study guide covers all relevant aspects of the AWS Solutions Architect job role, including mapping multi-tier architectures to AWS services, loose coupling and stateless systems, applying AWS security features, deploying and managing services, designing large scale distributed systems, and many more. Written by two AWS subject-matter experts, this self-study guide and reference provides all the tools and information necessary to master the exam, earn your certification, and gain insights into the job of an AWS Solutions Architect. Efficient and logical presentation of exam objectives allows for flexible study of topics, and powerful learning tools increase comprehension and retention of key exam elements. Practice questions, chapter reviews, and detailed examination of essential concepts fully prepare you for the AWS Solutions Architect - Associate certification. The certification is highly valued in IT and cloud computing professionals. Now in a new edition—reflecting the latest changes, additions, and updates to the AWS Solutions Architect - Associate certification exam guide—this book is your complete, one-stop resource: Access the Sybex interactive learning environment and test bank, including chapter tests, practice exams, electronic flashcards, and a searchable glossary of key terms. Learn all the components of the AWS exam and know what to expect on exam day Review challenging exam topics and focus on the areas that need improvement Expand your AWS skillset and keep pace with current cloud computing technologies The AWS Certified Solutions Architect Study Guide: Associate (SAA-C01) Exam enables you to validate your skills, increase your competitive advantage, and take the next step on your career path. Comprehensive and up-to-date content and superior study tools make this guide a must-have resource for those seeking AWS Solutions Architect - Associate certification.  
The Enterprise Cloud John Wiley & Sons

Data is at the center of many challenges in system design today. Difficult issues need to be figured out, such as scalability, consistency, reliability, efficiency, and maintainability. In addition, we have an overwhelming variety of tools, including relational databases, NoSQL datastores, stream or batch processors, and message brokers. What are the right choices for your application? How do you make sense of all these buzzwords? In this practical and comprehensive guide, author Martin Kleppmann helps you navigate this diverse landscape by examining the pros and cons of various technologies for processing and storing data. Software keeps changing, but the fundamental principles remain the same. With this book, software engineers and architects will learn how to apply those ideas in practice, and how to make full use of data in modern applications. Peer under the hood of the systems you already use, and learn how to use and operate them more effectively Make informed decisions by identifying the strengths and weaknesses of different tools Navigate the trade-offs around consistency, scalability, fault tolerance, and complexity Understand the distributed systems research upon which modern databases are built Peek behind the scenes of major online services, and learn from their architectures  
*A handy guide to designing, developing, and managing enterprise-grade GCP cloud solutions* John Wiley & Sons  
Despite the buzz surrounding the cloud computing, only a small percentage of organizations have actually deployed this new style of IT—so far. If you're planning your long-term cloud strategy, this practical book provides insider knowledge and actionable real-world lessons regarding planning, design, operations, security, and application transformation. This book teaches business and technology managers how to transition their organization's traditional IT to cloud computing. Rather than yet another book trying to sell or convince readers on the benefits of clouds, this book provides guidance, lessons learned, and best practices on how to design, deploy, operate, and secure an enterprise cloud based on real-world experience. Author James Bond provides useful guidance and best-practice checklists based on his field experience with real customers and cloud providers. You'll view

cloud services from the perspective of a consumer and as an owner/operator of an enterprise private or hybrid cloud, and learn valuable lessons from successful and less-than-successful organization use-case scenarios. This is the information every CIO needs in order to make the business and technical decisions to finally execute on their journey to cloud computing. Get updated trends and definitions in cloud computing, deployment models, and for building or buying cloud services Discover challenges in cloud operations and management not foreseen by early adopters Use real-world lessons to plan and build an enterprise private or hybrid cloud Learn how to assess, port, and migrate legacy applications to the cloud Identify security threats and vulnerabilities unique to the cloud Employ a cloud management system for your enterprise (private or multi-provider hybrid) cloud ecosystem Understand the challenges for becoming an IT service broker leveraging the power of the cloud

#### **Solutions Architect's Handbook** "O'Reilly Media, Inc."

Become a Professional Cloud Architect by exploring essential concepts, tools, and services in GCP and working through tests designed to help you get certified Key Features Plan and design a GCP cloud solution architecture Ensure the security and reliability of your cloud solutions and operations Test yourself by taking mock tests with up-to-date exam questions Book Description Google Cloud Platform (GCP) is one of the leading cloud service suites and offers solutions for storage, analytics, big data, machine learning, and application development. It features an array of services that can help organizations to get the best out of their infrastructure. This comprehensive guide covers a variety of topics specific to Google's Professional Cloud Architect official exam syllabus and guides you in using the right methods for effective use of GCP services. You'll start by exploring GCP, understanding the benefits of becoming a certified architect, and learning how to register for the exam. You'll then delve into the core services that GCP offers such as computing, storage, and security. As you advance, this GCP book will help you get up to speed with methods to scale and automate your cloud infrastructure and delve into containers and services. In the concluding chapters, you'll discover security best practices and even gain insights into designing applications with GCP services and monitoring your infrastructure as a GCP architect. By the end of this book, you will be well versed in all the topics required to

pass Google's Professional Cloud Architect exam and use GCP services effectively. What you will learn Manage your GCP infrastructure with Google Cloud management options such as CloudShell and SDK Understand the use cases for different storage options Design a solution with security and compliance in mind Monitor GCP compute options Discover machine learning and the different machine learning models offered by GCP Understand what services need to be used when planning and designing your architecture Who this book is for If you are a cloud architect, cloud engineer, administrator, or any IT professional who wants to learn how to implement Google Cloud services in your organization and become a GCP Certified Professional Cloud Architect, this book is for you. Basic knowledge of server infrastructure, including Linux and Windows Servers, is assumed. Knowledge of network and storage will also be helpful.

**Designing Data-Intensive Applications** John Wiley & Sons Sybex's proven Study Guide format teaches Google Cloud Architect job skills and prepares you for this important new Cloud exam. The Google Cloud Certified Professional Cloud Architect Study Guide is the essential resource for anyone preparing for this highly sought-after, professional-level certification. Clear and accurate chapters cover 100% of exam objectives—helping you gain the knowledge and confidence to succeed on exam day. A pre-book assessment quiz helps you evaluate your skills, while chapter review questions emphasize critical points of learning. Detailed explanations of crucial topics include analyzing and defining technical and business processes, migration planning, and designing storage systems, networks, and compute resources. Written by Dan Sullivan—a well-known author and software architect specializing in analytics, machine learning, and cloud computing—this invaluable study guide includes access to the Sybex interactive online learning environment, which includes complete practice tests, electronic flash cards, a searchable glossary, and more. Providing services suitable for a wide range of applications, particularly in high-growth areas of analytics and machine learning, Google Cloud is rapidly gaining market share in the cloud computing world. Organizations are seeking certified IT professionals with the ability to deploy and operate infrastructure, services, and networks in the Google Cloud. Take your career to the next level by validating your skills and earning certification. Design and plan cloud solution architecture Manage and provision

cloud infrastructure Ensure legal compliance and security standards Understand options for implementing hybrid clouds Develop solutions that meet reliability, business, and technical requirements The Google Cloud Certified Professional Cloud Architect Study Guide is a must-have for IT professionals preparing for certification to deploy and manage Google cloud services.

*AWS Certified Solutions Architect Study Guide* Packt Publishing Ltd

Learn from the AWS subject-matter experts, apply real-world scenarios and clear the AWS Certified Solutions Architect - Associate exam Key Features Build highly reliable and scalable workloads on the AWS platform Pass the exam in less time and with confidence Get up and running with building and managing applications on the AWS platform Book Description Amazon Web Services (AWS) is currently the leader in the public cloud market. With an increasing global interest in leveraging cloud infrastructure, the AWS Cloud from Amazon offers a cutting-edge platform for architecting, building, and deploying web-scale cloud applications. As more the rate of cloud platform adoption increases, so does the need for cloud certification. The AWS Certified Solution Architect - Associate Guide is your one-stop solution to gaining certification. Once you have grasped what AWS and its prerequisites are, you will get insights into different types of AWS services such as Amazon S3, EC2, VPC, SNS, and more to get you prepared with core Amazon services. You will then move on to understanding how to design and deploy highly scalable applications. Finally, you will study security concepts along with the AWS best practices and mock papers to test your knowledge. By the end of this book, you will not only be fully prepared to pass the AWS Certified Solutions Architect - Associate exam but also capable of building secure and reliable applications. What you will learn Explore AWS terminology and identity and access management Acquaint yourself with important cloud services and features in categories such as compute, network, storage, and databases Define access control to secure AWS resources and set up efficient monitoring Back up your database and ensure high availability by understanding all of the database-related services in the AWS Cloud Integrate AWS with your applications to meet and exceed non-functional requirements Build and deploy cost-effective and highly available

applications Who this book is for The AWS Certified Solutions Architect -Associate Guide is for you if you are an IT professional or Solutions Architect wanting to pass the AWS Certified Solution Architect - Associate 2018 exam. This book is also for developers looking to start building scalable applications on AWS

[Google Cloud Certified Professional Cloud Architect Study Guide](#)  
Official Google Cloud Certified Professional Cloud Architect Study Guide

Exam Name : AWS Amazon Certified Solutions Architect - Professional Exam Code : SAP-C01 Edition : Latest Verison (100% valid and stable) Number of Questions : 708 Questions with Answer

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Packt Publishing Ltd

This book brings diverse points of view about cloud computing and architecture design patterns based on various scenarios. It also address numerous issues related to alter administration, security and processing approaches related to cloud computing. It is a complete reference for any computer science professional, IT experts, Cloud architects/designers and corporate professionals who need to progress their understanding of cloud computing made simple: Information Structure and Algorithmic Perplexes could be a solution bank for different issues related to architecture patterns. The book has two parts, Part-A has 19 chapters that deal with fundamentals through advancement of cloud computing and covers respective technicalities like Connected Records, Image Tables and other various concepts. Part-B consists of 10 Chapters which explicitly deals with architectural scenario based design patterns. This book also serves as a guide to plan for interviews, exams, researches, campus preparations and corporate IT specialists' reference.

Salient Highlights: The book aims to supply relevant theoretical and Practical systems, viable applications and deployed services within the range. § Architecture Design patterns § Cloud with AI, Robotics, IoT and Big data § Design Principles and Paradigms § Cloud Security architecture, SOA, Security risks & Issues etc. § Cloud Networking, testing and Automation § Cryptography, MCC and Multicloud § Digital transformations § Methodologies and Deployment models § Cloud advantages, drawbacks, benefits, threats & challenges § Advances in Cloud Technologies and Future Trends § Algorithms, Images & Tables § Problem scenarios,

Enumeration of possible solutions & Pattern implementation § Reference Manual for students, working IT Professionals and Researchers § Contemplations, Illustrations, Similar Patterns and Guidelines § Covers all topics for Cloud computing related technical exams § Campus Preparation

**Architecting Google Cloud Solutions** Notion Press

This book will show you how to create robust, scalable, highly available and fault-tolerant solutions by learning different aspects of Solution architecture and next-generation architecture design in the Cloud environment.

**AWS Certified Solutions Architect Official Study Guide**  
Ctthink!

An indispensable guide to the newest version of the Google Certified Professional Cloud Architect certification The newly revised Second Edition of the Google Cloud Certified Professional Cloud Architect Study Guide delivers a proven and effective roadmap to success on the latest Professional Cloud Architect accreditation exam from Google. You'll learn the skills you need to excel on the test and in the field, with coverage of every exam objective and competency, including focus areas of the latest exam such as Kubernetes, Anthos, and multi-cloud architectures. The book explores the design, analysis, development, operations, and migration components of the job, with intuitively organized lessons that align with the real-world job responsibilities of a Google Cloud professional and with the PCA exam topics. Architects need more than the ability to recall facts about cloud services, they need to be able to reason about design decisions. This study guide is unique in how it helps you learn to think like an architect: understand requirements, assess constraints, choose appropriate architecture patterns, and consider the operational characteristics of the systems you design. Review questions and practice exams use scenario-based questions like those on the certification exam to build the test taking skills you will need. In addition to comprehensive material on compute resources, storage systems, networks, security, legal and regulatory compliance, reliability design, technical and business processes, and more, you'll get: The chance to begin or advance your career as an in-demand Google Cloud IT professional Invaluable opportunities to develop and practice the skills you'll need as a Google Cloud Architect Access to the Sybex online learning center, with chapter review questions, full-length

practice exams, hundreds of electronic flashcards, and a glossary of key terms The ideal resource for anyone preparing for the Professional Cloud Architect certification from Google, [Google Cloud Certified Professional Cloud Architect Study Guide, 2nd Edition](#) is also a must-read resource for aspiring and practicing cloud professionals seeking to expand or improve their technical skillset and improve their effectiveness in the field.

[Cloud Computing Certifications](#) Packt Publishing Ltd

A comprehensive guide to architecting, managing, implementing, and controlling multi-cloud environments Key Features Deliver robust multi-cloud environments and improve your business productivity Stay in control of the cost, governance, development, security, and continuous improvement of your multi-cloud solution Integrate different solutions, principles, and practices into one multi-cloud foundation Book Description Multi-cloud has emerged as one of the top cloud computing trends, with businesses wanting to reduce their reliance on only one vendor. But when organizations shift to multiple cloud services without a clear strategy, they may face certain difficulties, in terms of how to stay in control, how to keep all the different components secure, and how to execute the cross-cloud development of applications. This book combines best practices from different cloud adoption frameworks to help you find solutions to these problems. With step-by-step explanations of essential concepts and practical examples, you'll begin by planning the foundation, creating the architecture, designing the governance model, and implementing tools, processes, and technologies to manage multi-cloud environments. You'll then discover how to design workload environments using different cloud propositions, understand how to optimize the use of these cloud technologies, and automate and monitor the environments. As you advance, you'll delve into multi-cloud governance, defining clear demarcation models and management processes. Finally, you'll learn about managing identities in multi-cloud: who's doing what, why, when, and where By the end of this book, you'll be able to create, implement, and manage multi-cloud architectures with confidence What you will learn Get to grips with the core functions of multiple cloud platforms Deploy, automate, and secure different cloud solutions Design network strategy and get to grips with identity and access management for multi-cloud Design a landing zone spanning multiple cloud platforms Use



automation, monitoring, and management tools for multi-cloud. Understand multi-cloud management with the principles of BaseOps, FinOps, SecOps, and DevOps. Define multi-cloud security policies and use cloud security tools. Test, integrate, deploy, and release using multi-cloud CI/CD pipelines. Who this book is for: This book is for architects and lead engineers involved in architecting multi-cloud environments, with a focus on getting governance right to stay in control of developments in multi-cloud. Basic knowledge of different cloud platforms (Azure, AWS, GCP, VMWare, and OpenStack) and understanding of IT governance is necessary.

[Official Google Cloud Certified Professional Cloud Architect Study Guide](#) John Wiley & Sons

Apply cloud design patterns to overcome real-world challenges by building scalable, secure, highly available, and cost-effective solutions. Key Features: Apply AWS Well-Architected Framework concepts to common real-world use cases. Understand how to select AWS patterns and architectures that are best suited to your needs. Ensure the security and stability of a solution without impacting cost or performance. Book Description: One of the most popular cloud platforms in the world, Amazon Web Services (AWS) offers hundreds of services with thousands of features to help you build scalable cloud solutions; however, it can be overwhelming to navigate the vast number of services and decide which ones best suit your requirements. Whether you are an application architect, enterprise architect, developer, or operations engineer, this book will take you through AWS architectural patterns and guide you in selecting the most appropriate services for your projects. *AWS for Solutions Architects* is a comprehensive guide that covers the essential concepts that you need to know for designing well-architected AWS solutions that solve the challenges organizations face daily. You'll get to grips with AWS architectural principles and patterns by implementing best practices and recommended techniques for real-world use cases. The book will show you how to enhance operational efficiency, security, reliability, performance, and cost-effectiveness using real-world examples. By the end of this AWS book, you'll have gained a clear understanding of how to design AWS architectures using the most appropriate services to meet your organization's technological and business requirements. What you will learn: Rationalize the selection of AWS as the right cloud provider for your organization.

Choose the most appropriate service from AWS for a particular use case or project. Implement change and operations management. Find out the right resource type and size to balance performance and efficiency. Discover how to mitigate risk and enforce security, authentication, and authorization. Identify common business scenarios and select the right reference architectures for them. Who this book is for: This book is for application and enterprise architects, developers, and operations engineers who want to become well-versed with AWS architectural patterns, best practices, and advanced techniques to build scalable, secure, highly available, and cost-effective solutions in the cloud. Although existing AWS users will find this book most useful, it will also help potential users understand how leveraging AWS can benefit their organization.

[AWS Certified Solutions Architect Study Guide](#) Packt Publishing Ltd

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 for Solutions Architects](#) Wiley

[Official Google Cloud Certified Professional Cloud Architect Study Guide](#) John Wiley & Sons

**The Ultimate Exam Guide to AWS Solutions Architect Certification** Packt Publishing Ltd

The AWS Certified Solutions Architect Professional exam validates advanced technical skills and experience in designing distributed applications and systems on the AWS platform. Example concepts you should understand for this exam include: - Designing and deploying dynamically scalable, highly available, fault-tolerant, and reliable applications on AWS - Selecting appropriate AWS services to design and deploy an application based on given requirements - Migrating complex, multi-tier applications on AWS - Designing and deploying enterprise-wide scalable operations on AWS - Implementing cost-control strategies - Recommended AWS Knowledge. This book contains Free Resources. Preview the book & see what's inside.

[AWS Cookbook](#) Packt Publishing Ltd

Develop proficiency in AWS technologies and validate your skills by becoming an AWS Certified Cloud Practitioner. Key Features: Develop the skills to design highly available and fault-tolerant solutions in the cloud. Learn how to adopt best-practice security measures in your cloud applications. Achieve credibility through industry-recognized AWS Cloud Practitioner certification. Book Description: Amazon Web Services is the largest cloud computing service provider in the world. Its foundational certification, AWS Certified Cloud Practitioner (CLF-C01), is the first step to fast-tracking your career in cloud computing. This certification will add value even to those in non-IT roles, including professionals from sales, legal, and finance who may be working with cloud computing or AWS projects. If you are a seasoned IT professional, this certification will make it easier for you to prepare for more technical certifications to progress up the AWS ladder and improve your career prospects. The book is divided into four

parts. The first part focuses on the fundamentals of cloud computing and the AWS global infrastructure. The second part examines key AWS technology services, including compute, network, storage, and database services. The third part covers AWS security, the shared responsibility model, and several security tools. In the final part, you'll study the fundamentals of cloud economics and AWS pricing models and billing practices. Complete with exercises that highlight best practices for designing solutions, detailed use cases for each of the AWS services, quizzes, and two complete practice tests, this CLF-C01 exam study guide will help you gain the knowledge and hands-on experience necessary to ace the AWS Certified Cloud Practitioner exam. What you will learn Create an AWS account to access AWS cloud services in a secure and isolated environment Understand identity and access management (IAM), encryption, and multifactor authentication (MFA) protection Configure multifactor authentication for your IAM accounts Configure AWS services such as EC2, ECS, Lambda, VPCs, and Route53 Explore various storage and database services such as S3, EBS, and Amazon RDS Study the fundamentals of modern application design to shift from a monolithic to microservices architecture Design highly available solutions with decoupling ingrained in your design architecture Who this book is for If you're looking to advance your career and gain expertise in cloud computing, with particular focus on the AWS platform, this book is for you. This guide will help you ace the AWS Certified Cloud Practitioner Certification exam, enabling you to embark on a rewarding career in cloud computing. No previous IT experience is essential to get started with this book, since it covers core IT fundamentals from the ground up.

**The Most Comprehensive and Up-To-date Study Guide for the AWS Solution Architect Associate Certification**

**Available Today** UPTODATE EXAMS

Build highly secure and scalable machine learning platforms to support the fast-paced adoption of machine learning solutions  
Key Features Explore different ML tools and frameworks to solve

large-scale machine learning challenges in the cloud Build an efficient data science environment for data exploration, model building, and model training Learn how to implement bias detection, privacy, and explainability in ML model development Book Description When equipped with a highly scalable machine learning (ML) platform, organizations can quickly scale the delivery of ML products for faster business value realization. There is a huge demand for skilled ML solutions architects in different industries, and this handbook will help you master the design patterns, architectural considerations, and the latest technology insights you'll need to become one. You'll start by understanding ML fundamentals and how ML can be applied to solve real-world business problems. Once you've explored a few leading problem-solving ML algorithms, this book will help you tackle data management and get the most out of ML libraries such as TensorFlow and PyTorch. Using open source technology such as Kubernetes/Kubeflow to build a data science environment and ML pipelines will be covered next, before moving on to building an enterprise ML architecture using Amazon Web Services (AWS). You'll also learn about security and governance considerations, advanced ML engineering techniques, and how to apply bias detection, explainability, and privacy in ML model development. And finally, you'll get acquainted with AWS AI services and their applications in real-world use cases. By the end of this book, you'll be able to design and build an ML platform to support common use cases and architecture patterns like a true professional. What you will learn Apply ML methodologies to solve business problems Design a practical enterprise ML platform architecture Implement MLOps for ML workflow automation Build an end-to-end data management architecture using AWS Train large-scale ML models and optimize model inference latency Create a business application using an AI service and a custom ML model Use AWS services to detect data and model bias and explain models Who this book is for This book is for data

scientists, data engineers, cloud architects, and machine learning enthusiasts who want to become machine learning solutions architects. You'll need basic knowledge of the Python programming language, AWS, linear algebra, probability, and networking concepts before you get started with this handbook. [AWS Certified Solutions Architect Associate](#) "O'Reilly Media, Inc." If you are a .NET developer who wants to develop end-to-end RESTful applications in the cloud, then this book is for you. A working knowledge of C# will help you get the most out of this book.

**Official Google Cloud Certified Professional Cloud Architect Study Guide** "O'Reilly Media, Inc."

Many years ago, when I started my deep dive in computing there was only the command line. Then came the Graphical User Interface (GUI). This was the great buzz in the air that was going to make computing accessible to everyone. Today there are so many GUIs that one cannot keep up. The moment you learn a single GUI, then a new version is released which instantly declares your prior knowledge obsolete. Furthermore, there may be 20 other competing GUIs for doing the same tasks. How can you possibly keep up with this madness? By going back to the command line. Why? The command line has used the same structure for the last 20 years with only updates to the available options or parameters. This consistent command structure allows you to learn one time and take advantage of your years of experience. If you look and DOS, Unix, Linux, or even PowerShell, the command format is the same since they were created. I need not spend more time on this. If you agree then this book is for you. Let's get started. All AWS CLI commands are prefixed with aws. They use a Linux type format which makes it easy to transition to AWS CLI commands if you have prior Linux experience. This book assumes that you have already downloaded and configured the correct credentials for using the AWS CLI. If you have not, first properly configured AWS CLI, then continue.

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