

# Architecting For The Cloud Aws Best Practices

Use Salesforce's out-of-the-box and advanced integration-based AI capabilities to architect modern enterprise solutions on sales, service, marketing, and commerce clouds to drive digital innovation for your clients

**Key Features**

- Get up to speed with Salesforce's AI features and capabilities to meet ever-evolving client needs
- Get expert advice on key architectural decisions and trade-offs when designing AI-driven Salesforce solutions
- Integrate third-party AI services into applications that modernize your solutions

**Book Description**

The ever-increasing need for designing state-of-the-art solutions using AI features requires a sound understanding of a vast array of AI capabilities that help you to architect modern solutions. Salesforce Einstein is a set of services that allows seamless implementation of advanced artificial intelligence (AI) features while retaining the ability to cater to custom requirements for the business. This book will help you understand the business and technical benefits of building AI solutions and components available in Salesforce. As you work through a case study of a fictional company beginning to adopt AI in its Salesforce ecosystem, you'll learn how to configure and extend the out-of-the-box features on various Salesforce clouds, their pros, cons, and limitations. You'll also discover how to extend these features using on- and off-platform choices and how to make the best architectural choices when designing custom solutions. Later, you'll advance to integrating third-party AI services such as the Google Translation API, Microsoft Cognitive Services, and Amazon SageMaker on top of your existing solutions. This Salesforce book concludes by taking you through key architectural decisions and trade-offs that may impact the design choices you make. By the end of this book, you'll be able to architect Salesforce AI solutions to

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meet various customer requirements confidently. What you will learn Explore the AI components available in Salesforce and the architectural model for Salesforce Einstein Extend the out-of-the-box features using Einstein Services on major Salesforce clouds Use Einstein declarative features to create your custom solutions with the right approach Architect AI solutions on marketing, commerce, and industry clouds Use Salesforce Einstein Platform Services APIs to create custom AI solutions Integrate third-party AI services such as Microsoft Cognitive Services and Amazon SageMaker into Salesforce Who this book is for This book is for existing and aspiring technical and functional architects, technical decision-makers working on the Salesforce ecosystem, and those responsible for designing AI solutions in their Salesforce ecosystem. Lead and senior Salesforce developers who want to start their Salesforce architecture journey will also find this book helpful. Working knowledge of the Salesforce platform is necessary to get the most out of this book.

Continuous delivery adds enormous value to the business and the entire software delivery lifecycle, but adopting this practice means mastering new skills typically outside of a developer's comfort zone. In this practical book, Daniel Bryant and Abraham Marín-Pérez provide guidance to help experienced Java developers master skills such as architectural design, automated quality assurance, and application packaging and deployment on a variety of platforms. Not only will you learn how to create a comprehensive build pipeline for continually delivering effective software, but you'll also explore how Java application architecture and deployment platforms have affected the way we rapidly and safely deliver new software to production environments. Get advice for beginning or completing your migration to continuous delivery Design architecture to enable the continuous delivery of Java applications

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Build application artifacts including fat JARs, virtual machine images, and operating system container (Docker) images Use continuous integration tooling like Jenkins, PMD, and find-secbugs to automate code quality checks Create a comprehensive build pipeline and design software to separate the deploy and release processes Explore why functional and system quality attribute testing is vital from development to delivery Learn how to effectively build and test applications locally and observe your system while it runs in production

Want to test your exam readiness for the Amazon AWS Certified Cloud Practitioner AND feel confident to pass your AWS exam first time? You are about to see a study guide that took hours of hard collection work, expert preparation, and constant feedback. That's why we know this exam prep will help you get that high-score on your journey to certification. Our study guides are the real thing. Our study guides are so accurate. This AWS Certified Cloud Practitioner Practice Exam book covers EVERYTHING you need to know to pass the exam on your first try. Most of our students reported that our course covered all questions that were on the actual test. We highly recommend reading the explanations provided after each practice test. This will help improve your understanding and increase your score dramatically. By paying attention to these and repeating all the tests until you get 90% or more on each one, you should be able to ace the real exam with confidence. What's included? We've crafted this Book to give you the knowledge and technique to pass the AWS Cloud Practitioner exam first time. Thousands of our students have trusted us, and our awesome pass rates show that we've not let them down. Thousands of our students have passed on their first attempt. Our AWS Certified Cloud Practitioner Practice Exam course includes: ? DETAILED EXPLANATIONS: Every question includes a clear and detailed explanation for all correct and

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incorrect answers, to support your learning and help you build up your knowledge and confidence. If you're new to AWS, you'll learn everything quickly because we explain all the terms and technical concepts you need to know clearly and in detail. ? 100% EXAM COVERAGE: it includes 100% of the topics required for the AWS Cloud Practitioner exam. If you study all of our questions, you won't need to read the white papers or any other material. Welcome!

This is a reference book for Architects. This book can be helpful for those developers who wants to increase breadth of knowledge about tools and technology. If you are planning for career advancement and you are interviewing for cloud architect, this book can also be used for interview preparation purpose. You can go through this book before your interview every time, so that you will remember all the concepts before interview. As the technology is evolving very fast, new tools and technologies are coming every day. This book covers fundamental of architecting or re-architecting of the application. This book also makes you aware and provides details about tools and technology available in cloud. This book does not over explain any concepts, keeping in mind that you can complete your reading in less time. With this book, you will get lot of information in less reading time.

AWS is currently the market leader in the public cloud market. 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. This book will help you in performing these tasks easily.

Every day, companies struggle to scale critical applications. As traffic volume and data demands increase, these applications become more complicated and brittle, exposing risks

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and compromising availability. With the popularity of software as a service, scaling has never been more important. Updated with an expanded focus on modern architecture paradigms such as microservices and cloud computing, this practical guide provides techniques for building systems that can handle huge quantities of traffic, data, and demand—without affecting the quality your customers expect. Architects, managers, and directors in engineering and operations organizations will learn how to build applications at scale that run more smoothly and reliably to meet the needs of customers. Learn how scaling affects the availability of your services, why that matters, and how to improve it Dive into a modern service-based application architecture that ensures high availability and reduces the effects of service failures Explore the Single Team Owned Service Architecture paradigm (STOSA)—a model for scaling your development organization in tandem with your application Understand, measure, and mitigate risk in your systems Use the cloud to build highly scalable applications

This book will guide you from the basic functionality of Tableau 2019.x to complex deployment. It is full of useful recipes from industry experts, who will help you master your Tableau skills. The complexity of tasks increase gradually, all the way to mastering advanced functionality through bite-sized, detailed recipes.

"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. 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.

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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."--Back cover.

Design and architect resilient OpenShift clusters and gain a keen understanding of how hundreds of projects are integrated into a powerful solution. While there are many OpenShift resources available for developers, this book focuses on the key elements of infrastructure and operations that teams need when looking to integrate and maintain this platform. You'll review important concepts, such as repeatable deployment techniques, advanced OpenShift RBAC capabilities, monitoring clusters, and integrating with external services. You'll also see how to run specialized workloads in OpenShift and how to deploy non-web based applications on the platform, all designed to help cultivate best practices as your organization continue evolve in microservices architectures. OpenShift has become the main enterprise Kubernetes distribution and its market penetration continues to growth at rapid rate. While OpenShift's documentation provides a great list of configuration options to work with the platform, it can be a daunting task to wade through. Architecting and Operating OpenShift Clusters breaks this content down into clear and useful concepts to provide you with a solid understanding of the OpenShift internal architecture. What You'll Learn Operate high availability in multi-tenant OCP clusters Understand OpenShift SDN models, capabilities, and storage classes Integrate OCP with existing data center capabilities

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and CI/CD pipelines Support advanced capabilities like: Istio, Multus, Kubernetes Operators, hybrid deployments Who This Book Is For Cloud architects, OpenShift cluster administrators, and teams supporting developers in OpenShift environments who have a basic understanding of this platform and microservices architectures.

- This is the latest practice test to pass the Amazon AWS Certified Cloud Practitioner (CLF-C01) Exam. - It contains 633 Questions and Answers. - All the questions are 100% valid and stable. - You can reply on this practice test to pass the exam with a good mark and in the first attempt.

An expert guide to selecting the right cloud service model for your business Cloud computing is all the rage, allowing for the delivery of computing and storage capacity to a diverse community of end-recipients. However, before you can decide on a cloud model, you need to determine what the ideal cloud service model is for your business. Helping you cut through all the haze, Architecting the Cloud is vendor neutral and guides you in making one of the most critical technology decisions that you will face: selecting the right cloud service model(s) based on a combination of both business and technology requirements. Guides corporations through key cloud design considerations Discusses the pros and cons of each cloud service model Highlights major design considerations in areas such as security, data privacy, logging, data storage, SLA monitoring, and more Clearly defines the services cloud providers offer for each service model and the cloud services IT must provide Arming you with the information you need

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to choose the right cloud service provider, Architecting the Cloud is a comprehensive guide covering everything you need to be aware of in selecting the right cloud service model for you.

The AWS Cloud Practitioner exam CLF-C01 is your entry point into the AWS certification world. Although it's not a mandatory step. It covers a broad range of topics including cloud concepts, security, technology, and billing and pricing. After passing this exam you'll have an understanding of the core value proposition of AWS and cloud computing in general. You'll understand the key features of AWS and what they can offer. The pricing structure of AWS services and how they compare to traditional data centers and Identify AWS products that can help solve your business needs. Who is this exam for? Taking the exam would benefit a broad range of people in the tech industry. This isn't limited to developers and architects. Business analysts, product owners, project managers, etc. Everyone can benefit from the Practitioner exam. The exam falls at the base of the AWS certification tree and while it is not a prerequisite for taking some of the more advanced courses. It is required (although not if you have an associate certification already) to take the specialist exams such as security, big data & advanced networking courses. This AWS Cloud Practitioner exam CLF-C01 practice test of AWS Web Services has been advanced to test your knowledge before taking the official exam. Unlike other online simulation practice tests, you get an eBook version easy to read & remember these questions. You can simply rely on these 100+



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questions for successfully certifying this exam.

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.

Cloud computing represents an evolution in technology and a revolution in business, for when a fixed asset like a computer becomes variable and on demand, all sorts of agility and new cost structures open up. The Cloud rEvolution report tackles this new world of information technology in a four-volume series. "Laying the Foundation" (1) introduces the Cloud rEvolution and explores the core technologies that lay the groundwork for cloud computing. "The Art of Abstraction" (2) shows how abstraction loosens the IT stack for flexibility and efficiency, eyeing the ultimate abstraction: the cloud. "The Cloud Effect" (3) describes the impact the cloud is having on IT and business tactically and

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strategically. "A Workbook for Cloud Computing in the Enterprise" (4, downloadable separately) offers guidance for transitioning to the cloud, which is rapidly becoming a question of when and how, not if.

There's a lot of information about big data technologies, but splicing these technologies into an end-to-end enterprise data platform is a daunting task not widely covered. With this practical book, you'll learn how to build big data infrastructure both on-premises and in the cloud and successfully architect a modern data platform. Ideal for enterprise architects, IT managers, application architects, and data engineers, this book shows you how to overcome the many challenges that emerge during Hadoop projects. You'll explore the vast landscape of tools available in the Hadoop and big data realm in a thorough technical primer before diving into:

- Infrastructure: Look at all component layers in a modern data platform, from the server to the data center, to establish a solid foundation for data in your enterprise
- Platform: Understand aspects of deployment, operation, security, high availability, and disaster recovery, along with everything you need to know to integrate your platform with the rest of your enterprise IT
- Taking Hadoop to the cloud: Learn the important architectural aspects of running a big data platform in the cloud while maintaining enterprise security and high availability

AWS is currently the market leader in the public cloud market. 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.

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This book will help you in performing these tasks easily.

Cloud computing has emerged as a new paradigm for hosting and delivering computing resources over the Internet. This research proposed a cross-cloud communication framework (C3F) for enabling communication among clouds with minimal management burden. Further, it enabled the borrowing and lending of resources among clouds whenever required to fulfil the client requests. It also facilitated to share the information of attacks and intruding entities to cater with same attacks on different clouds. The framework was deployed using web-based prototype development to test and validate the cross-cloud communication. The prototype was developed using open source technologies. Moreover, algorithms were developed using low level description technique for the processes of resource borrowing and lending and, sharing of attacks information. The algorithms were analyzed to test their asymptotic running time complexity, and programmed in accordance with prototype of the study for testing and validation. The results showed high success rate of 94.4% for sharing of resources among clouds with mean allocation time of 12 microseconds. It was observed that 94.4% of the time clients' requests were fulfilled successfully after borrowing the resources from cloud network. An average of 100% results were collected for protecting multiple clouds from same attack by sharing the attacks and intruders information among clouds in different situations. It is therefore concluded that cross-cloud communication framework can benefit for sharing of resources and attacks information

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among clouds for efficient resource management and allocation and, protection against same attacks at different clouds.

This book constitutes the refereed proceedings of the International Conference on High Performance Architecture and Grid Computing, HPAGC 2011, held in Chandigarh, India, in July 2011. The 87 revised full papers presented were carefully reviewed and selected from 240 submissions. The papers are organized in topical sections on grid and cloud computing; high performance architecture; information management and network security.

Apply cloud native patterns and practices to deliver responsive, resilient, elastic, and message-driven systems with confidence

Key Features

- Discover best practices for applying cloud native patterns to your cloud applications
- Explore ways to effectively plan resources and technology stacks for high security and fault tolerance
- Gain insight into core architectural principles using real-world examples

Book Description

Cloud computing has proven to be the most revolutionary IT development since virtualization. Cloud native architectures give you the benefit of more flexibility over legacy systems. This Learning Path teaches you everything you need to know for designing industry-grade cloud applications and efficiently migrating your business to the cloud. It begins by exploring the basic patterns that turn your database inside out to achieve massive scalability. You'll learn how to develop cloud native architectures using microservices and serverless computing as your design principles. Then, you'll explore ways to

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continuously deliver production code by implementing continuous observability in production. In the concluding chapters, you'll learn about various public cloud architectures ranging from AWS and Azure to the Google Cloud Platform, and understand the future trends and expectations of cloud providers. By the end of this Learning Path, you'll have learned the techniques to adopt cloud native architectures that meet your business requirements. This Learning Path includes content from the following Packt products: Cloud Native Development Patterns and Best Practices by John Gilbert Cloud Native Architectures by Erik Farr et al. What you will learn

- Understand the difference between cloud native and traditional architecture
- Automate security controls and configuration management
- Minimize risk by evolving your monolithic systems into cloud native applications
- Explore the aspects of migration, when and why to use it
- Apply modern delivery and testing methods to continuously deliver production code
- Enable massive scaling by turning your database inside out

Who this book is for This Learning Path is designed for developers who want to progress into building cloud native systems and are keen to learn the patterns involved. Software architects, who are keen on designing scalable and highly available cloud native applications, will also find this Learning Path very useful. To easily grasp these concepts, you will need basic knowledge of programming and cloud computing.

Accelerating Business and Mission Success with Cloud Computing. Key Features A step-by-step guide that will practically guide you through implementing Cloud

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computing services effectively and efficiently. Learn to choose the most ideal Cloud service model, and adopt appropriate Cloud design considerations for your organization. Leverage Cloud computing methodologies to successfully develop a cost-effective Cloud environment successfully. Book Description Cloud adoption is a core component of digital transformation. Scaling the IT environment, making it resilient, and reducing costs are what organizations want. Architecting Cloud Computing Solutions presents and explains critical Cloud solution design considerations and technology decisions required to choose and deploy the right Cloud service and deployment models, based on your business and technology service requirements. This book starts with the fundamentals of cloud computing and its architectural concepts. It then walks you through Cloud service models (IaaS, PaaS, and SaaS), deployment models (public, private, community, and hybrid) and implementation options (Enterprise, MSP, and CSP) to explain and describe the key considerations and challenges organizations face during cloud migration. Later, this book delves into how to leverage DevOps, Cloud-Native, and Serverless architectures in your Cloud environment and presents industry best practices for scaling your Cloud environment. Finally, this book addresses (in depth) managing essential cloud technology service components such as data storage, security controls, and disaster recovery. By the end of this book, you will have mastered all the design considerations and operational trades required to adopt Cloud services, no matter which cloud service provider you choose. What you will learn Manage

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changes in the digital transformation and cloud transition process Design and build architectures that support specific business cases Design, modify, and aggregate baseline cloud architectures Familiarize yourself with cloud application security and cloud computing security threats Design and architect small, medium, and large cloud computing solutions Who this book is for If you are an IT Administrator, Cloud Architect, or a Solution Architect keen to benefit from cloud adoption for your organization, then this book is for you. Small business owners, managers, or consultants will also find this book useful. No prior knowledge of Cloud computing is needed.

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

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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

Beginning Amazon Web Services with Node.js teaches any novice Node.js developer to configure, deploy, and maintain scalable small to large scale Node.js applications in Amazon Web Services. Hosting a Node.js application in a production environment usually means turning to PaaS hosting, but this approach brings problems. Deploying



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

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book today.

In 2018, '77 Building Blocks of Digital Transformation: The Digital Capability Model' was published to help 'digital practitioners' working in the digital space. Since then, quite a few readers have suggested writing a book about digital transformation for 'the general public' interested in learning more than basics of digital transformation. That is how the book '77 Building Blocks of Digital Transformation: Simply Explained' has been created. This book is intended to deliver the key messages of 'the 77 Building Blocks' to the general public. It aims to help the general public understand 'actual practices' in the digital space. This is not a theory book that discusses the academical ideas and concepts of digital transformation, but a 'practical' field book that describes the proven digital capabilities as the building blocks of digital transformation. This book does however not fully cover the technical detail of the Maturity Model described in '77 Building Blocks of Digital transformation: The Digital Capability Model' that aims to help digital practitioners with measuring digital maturity. Instead, this book provides examples of higher maturity indicators as an introduction to the Maturity Model. If you are looking for a deep dive into the Maturity Model, refer to '77 Building Blocks of Digital transformation: The Digital Capability Model'. This book covers: 1. Digital Customer Experience Management -Digital Customer Journey Management -User Research -Usability Analysis -User Experience Designing -User Experience Testing 2. Social Interaction -Social Listening -Social Media Marketing -Social Media Servicing -Online

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Community Management -Rating & Review Management -Content Moderation -Social Crisis Management3. Digital Marketing -Digital Brand Marketing -Search Engine Optimization -Paid Search -Content Targeting -Affiliate Marketing -Online Advertising -Digital Campaign Management -Lead Management -Marketing Offer Management -Email Marketing -Mobile Marketing -Marketing Automation -Conversion Rate Optimization4. Digital Commerce -Online Merchandising -Shopping Cart & Checkout -Payments & Reconciliation -Order Management & Fulfillment -Account Management & Self-Service5. Digital Channel Management -Channel Mix & Optimization -Cross-Business Integration -Cross-Channel Integration -Multi-Device Presentation6. Knowledge & Content Management -Knowledge Collaboration -Knowledge Base Management -Content Lifecycle Management -Digital Asset Management -Content Aggregation & Syndication -Web Content Management7. Customization & Personalization -Customer Preference Management -Customer Communication Management -Social Behaviour Management -Interaction Tracking & Management -Customer Loyalty Management -Digital Customer Services8. Digital Intelligence -Product Similarity Analytics -Customer Insights -Customer Segmentation -Conversion Analytics -Digital Marketing Effectiveness -Big Data Analytics -Web Analytics -Reporting & Dashboard9. Digital Data Management -Non-relational Data Management -Distributed Data Store Management -Enterprise Search -Master Data Management -Data Quality Management -Digital Data Policy Management10. Digital Infrastructure

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Management -On-Demand Provisioning -User Interaction Services -Process Integration Services -Parallel Processing Services -Federated Access Management -Digital Continuity Management11. Digital Alignment -Digital Innovation -Digital Planning -Digital Governance -Cross-Boundary Collaboration -Digital Journey Readiness12. Digital Development & Operations -Digital Program & Project Management -Digital Design Authority -Digital Capability Development -Digital Capability Introduction -Digital Service Operations -Digital Quality Management

Foreword by Werner Vogels, Vice President and Corporate Technology Officer, Amazon The AWS exam has been updated. Your study guide should be, too. The AWS Certified Developer Official Study Guide—Associate Exam is your ultimate preparation resource for the latest exam! Covering all exam objectives, this invaluable resource puts a team of AWS experts at your side with expert guidance, clear explanations, and the wisdom of experience with AWS best practices. You'll master core services and basic architecture, and equip yourself to develop, deploy, and debug cloud-based applications using AWS. The AWS Developer certification is earned by those who demonstrate the technical knowledge and skill associated with best practices for building secure, reliable cloud-based applications using AWS technology. This book is your official exam prep companion, providing everything you need to know to pass with flying colors. Study the AWS Certified Developer Exam objectives Gain expert insight on core AWS services and best practices Test your understanding of key concepts with

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

AWS Certifications are industry-recognized credentials that validate your technical cloud skills and expertise while assisting in your career growth. These are one of the most valuable IT certifications right now since AWS has established an overwhelming lead in the public cloud market. Even with the presence of several tough competitors such as Microsoft Azure, Google Cloud Engine, and Rackspace, AWS is by far the dominant public cloud platform today, with an astounding collection of proprietary services that continues to grow. The AWS Certified Cloud Practitioner (CLF-C01) examination is intended for individuals who have the knowledge and skills necessary to effectively demonstrate an overall understanding of the AWS Cloud,

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independent of specific technical roles addressed by other AWS certifications (e.g., Solutions Architect - Associate, Developer - Associate, or SysOps Administrator - Associate). The certification will provide you a high level overview on what AWS Cloud is all about. The exam covers four domains, including AWS core services, cloud concepts, security aspect, pricing and support services. AWS Certified Cloud Practitioner is a new entry-level certification and enables individuals to validate their knowledge of the AWS Cloud with an industry-recognized credential. This certification exam validates your ability to define and identify:

- AWS Cloud and its basic global infrastructure
- AWS Cloud architectural principles
- AWS Cloud value proposition
- Key services on the AWS platform and their common use cases (example, compute and analytics)
- Basic security and compliance aspects of the AWS platform and the shared security model
- Billing, account management, and pricing models
- Sources of documentation or technical assistance (example, whitepapers or support tickets)
- Basic and core characteristics of deploying and operating in the AWS Cloud

Validate your AWS skills. This is your opportunity to take the next step in your career by expanding and validating your skills on the AWS cloud. AWS has been the frontrunner in cloud computing products and services, and the AWS Certified Solutions Architect Official Study Guide for the Associate exam will get you fully prepared through expert content, and real-world knowledge, key exam essentials, chapter review questions, access to Sybex's interactive online learning environment, and much more. This official study guide, written by AWS experts, covers exam concepts, and provides key review on exam topics, including: Mapping Multi-Tier Architectures to AWS Services, such as web/app servers, firewalls, caches and load balancers Understanding managed RDBMS through AWS RDS (MySQL, Oracle, SQL Server, Postgres,

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Aurora) Understanding Loose Coupling and Stateless Systems Comparing Different Consistency Models in AWS Services Understanding how AWS CloudFront can make your application more cost efficient, faster and secure Implementing Route tables, Access Control Lists, Firewalls, NAT, and DNS Applying AWS Security Features along with traditional Information and Application Security Using Compute, Networking, Storage, and Database AWS services Architecting Large Scale Distributed Systems Understanding of Elasticity and Scalability Concepts Understanding of Network Technologies Relating to AWS Deploying and Managing Services with tools such as CloudFormation, OpsWorks and Elastic Beanstalk. Learn from the AWS subject-matter experts, review with proven study tools, and apply real-world scenarios. If you are looking to take the AWS Certified Solutions Architect Associate exam, this guide is what you need for comprehensive content and robust study tools that will help you gain the edge on exam day and throughout your career.

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

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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.

Architecting the Cloud  
Design Decisions for Cloud Computing Service Models (SaaS, PaaS, and IaaS)  
John Wiley & Sons



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Want to test your exam readiness for the Amazon AWS Certified Cloud Practitioner AND feel confident to pass your AWS exam first time? Do you want to become an AWS Certified Solutions Architect-Associate? If You Answered "Yes" To Any of The Above, Look No Further. This is the bundle for you! Welcome to "A Bundle of 2 Books: AWS CERTIFIED". 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. This is your opportunity to take the next step in your career by expanding and validating your skills on the AWS cloud. AWS has been the frontrunner in cloud computing products and services. The bundle will help you to learn, prepare, and practice for AWS Certified Cloud Practitioner (CLF-C01) exam and AWS Certified Solutions Architect Associate (SAA-C02) Exam with this Cert Guide from Pearson IT Certification, a leader in IT Certification learning. Bundle consists of the following: Book 1: The Complete AWS Cloud Practitioner Certification Guide (CLF-C01) Introduction About AWS Demystification of The Cloud Computing Understanding AWS Certifications AWS Certified Cloud Practitioner AWS Cloud Practitioner Exam from Home AWS Certification Examine Five Steps Free AWS Cloud Practitioner Question Book 2: AWS Certified Solutions Architect-Associate (SAA-C02) Exam Study Guide Cloud Computing Fundamentals IAM Accounts AWS Organizations S3 - Simple Storage Service VPC - Virtual Private Cloud EC2 - Elastic Cloud Compute ECS And Containers Applications and system logging on EC2 Security Deployment Operations NOSQL and DYNAMODB Interested? In this Introduction to Architecting for the Cloud - Amazon AWS training course, expert author Daniel Hand will teach you the strategies and best practices used to efficiently and securely

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incorporate the AWS cloud into technology platforms. This course is designed for the absolute beginner, meaning no previous Amazon AWS experience is required. You will start by learning about design principles and patterns, including cloud concepts, VPC design patterns, and integration strategies. From there, Daniel will teach you about availability, cost optimization, performance, and scalability and durability. This video tutorial also covers security, including network access controls, security groups, encryption, and logging. Finally, you will learn about Amazon deployment and management services. Once you have completed this computer based training course, you will be fully capable of incorporating the AWS cloud into your organization's technology platform.

Achieve your infrastructure goals and optimize business processes by designing robust, highly available, and dynamic solutions

**Key Features**

- Gain hands-on experience in designing and managing high-performance cloud solutions
- Leverage Google Cloud Platform to optimize technical and business processes using cutting-edge technologies and services
- Use Google Cloud Big Data, AI, and ML services to design scalable and intelligent data solutions

**Book Description**

Google has been one of the top players in the public cloud domain thanks to its agility and performance capabilities. This book will help you design, develop, and manage robust, secure, and dynamic solutions to successfully meet your business needs. You'll learn how to plan and design network, compute, storage, and big data systems that incorporate security and compliance from the ground up. The chapters will cover simple to complex use cases for devising solutions to business problems, before focusing on how to leverage Google Cloud's Platform-as-a-Service (PaaS) and Software-as-a-Service (SaaS) capabilities for designing modern no-operations platforms. Throughout this book, you'll discover how to design

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for scalability, resiliency, and high availability. Later, you'll find out how to use Google Cloud to design modern applications using microservices architecture, automation, and Infrastructure-as-Code (IaC) practices. The concluding chapters then demonstrate how to apply machine learning and artificial intelligence (AI) to derive insights from your data. Finally, you will discover best practices for operating and monitoring your cloud solutions, as well as performing troubleshooting and quality assurance. By the end of this Google Cloud book, you'll be able to design robust enterprise-grade solutions using Google Cloud Platform. What you will learn Get to grips with compute, storage, networking, data analytics, and pricing Discover delivery models such as IaaS, PaaS, and SaaS Explore the underlying technologies and economics of cloud computing Design for scalability, business continuity, observability, and resiliency Secure Google Cloud solutions and ensure compliance Understand operational best practices and learn how to architect a monitoring solution Gain insights into modern application design with Google Cloud Leverage big data, machine learning, and AI with Google Cloud Who this book is for This book is for cloud architects who are responsible for designing and managing cloud solutions with GCP. You'll also find the book useful if you're a system engineer or enterprise architect looking to learn how to design solutions with Google Cloud. Moreover, cloud architects who already have experience with other cloud providers and are now beginning to work with Google Cloud will benefit from the book. Although an intermediate-level understanding of cloud computing and distributed apps is required, prior experience of working in the public and hybrid cloud domain is not mandatory.

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

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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

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Architect - Associate 2018 exam. This book is also for developers looking to start building scalable applications on AWS

Every day, companies struggle to scale critical applications. As traffic volume and data demands increase, these applications become more complicated and brittle, exposing risks and compromising availability. This practical guide shows IT, devops, and system reliability managers how to prevent an application from becoming slow, inconsistent, or downright unavailable as it grows. Scaling isn't just about handling more users; it's also about managing risk and ensuring availability. Author Lee Atchison provides basic techniques for building applications that can handle huge quantities of traffic, data, and demand without affecting the quality your customers expect. In five parts, this book explores: Availability: learn techniques for building highly available applications, and for tracking and improving availability going forward Risk management: identify, mitigate, and manage risks in your application, test your recovery/disaster plans, and build out systems that contain fewer risks Services and microservices: understand the value of services for building complicated applications that need to operate at higher scale Scaling applications: assign services to specific teams, label the criticalness of each service, and devise failure scenarios and recovery plans Cloud services: understand the structure of cloud-based services, resource allocation, and service distribution Many companies move workloads to the cloud only to encounter issues with legacy processes and organizational structures. How do you design new operating models for this environment? This practical book shows IT managers, CIOs, and CTOs how to address the hardest part of any cloud transformation: the people and the processes. Author Mike Kavis (Architecting the Cloud) explores lessons learned from enterprises in the midst of cloud transformations.

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You will learn how to rethink your approach from a technology, process, and organizational standpoint to realize the promise of cost optimization, agility, and innovation that public cloud platforms provide. Learn the difference between working in a data center and operating in the cloud Explore patterns and anti-patterns for organizing cloud operating models Get best practices for making the organizational change required for a move to the cloud Understand why site reliability engineering is essential for cloud operations Improve organizational performance through value stream mapping

This book features a collection of high-quality research papers presented at the International Conference on Intelligent and Cloud Computing (ICICC 2019), held at Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, India, on December 20, 2019. Including contributions on system and network design that can support existing and future applications and services, it covers topics such as cloud computing system and network design, optimization for cloud computing, networking, and applications, green cloud system design, cloud storage design and networking, storage security, cloud system models, big data storage, intra-cloud computing, mobile cloud system design, real-time resource reporting and monitoring for cloud management, machine learning, data mining for cloud computing, data-driven methodology and architecture, and networking for machine learning systems.

This book constitutes the thoroughly refereed proceedings of the Second International Conference on Cloud Computing and Services Science, CLOSER 2012, held in Porto, Portugal, in April 2012. The 15 papers were selected from 145 submissions and are presented together with one invited paper. The papers cover the following topics: cloud computing fundamentals, services science foundation for cloud computing, cloud computing platforms and

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applications, and cloud computing enabling technology.

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