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Virtual, hands-on learning labs allow you to apply your technical skills in realistic environments. So Sybex has bundled AWS labs from XtremeLabs with our popular **Aws Certified Solutions Architect Study Guide** to give you the same experience working in these labs as you prepare for the **Certified Solutions Architect Exam** that you would face in a real-life application. These labs in

addition to the book are a proven way to prepare for the certification and for work as an **AWS Solutions Architect**. 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 **UPDATED AWS Certified Solutions Architect Study Guide, Third Edition**, for the **Associate SAA-C02 Exam** will get you fully prepared. This study guide covers exam concepts, and provides key review of exam topics, including: **Designing resilient architectures**

Designing high-performing architectures
Designing secure applications and architectures
Designing cost-optimized architectures
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. Readers will have access to Sybex's superior online interactive learning environment and test bank, including hundreds of test questions, practice exams, electronic flashcards, and a glossary of key terms. And included

with this version of the book, XtremeLabs virtual labs that run from your browser. The registration code is included with the book and gives you 6 months of unlimited access to XtremeLabs AWS Certified Solutions Architect Labs with 12 unique lab modules based on the book. If you are unable to register your lab PIN code, please contact Wiley customer support for a replacement PIN code. The software development ecosystem is constantly changing, providing a constant stream of new tools, frameworks, techniques, and paradigms. Over the past few years, incremental

developments in core engineering practices for software development have created the foundations for rethinking how architecture changes over time, along with ways to protect important architectural characteristics as it evolves. This practical guide ties those parts together with a new way to think about architecture and time. 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

cloudBuild an efficient data science environment for data exploration, model building, and model trainingLearn how to implement bias detection, privacy, and explainability in ML model developmentBook 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 learnApply ML methodologies to solve business problemsDesign a practical enterprise ML platform

architectureImplement MLOps for ML workflow automationBuild an end-to-end data management architecture using AWSTrain large-scale ML models and optimize model inference latencyCreate a business application using an AI service and a custom ML modelUse AWS services to detect data and model bias and explain modelsWho 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. The ultimate guide to successful interviews for Enterprise, Business, Domain, Solution, and Technical Architect roles as well as IT Advisory Consultant and Software Designer roles About This Book Learn about Enterprise Architects IT strategy and NFR - this book provides you with methodologies, best practices, and frameworks to ace your interview A holistic view of key architectural skills and competencies with 500+

questions that cover 12 domains 100+ diagrams depicting scenarios, models, and methodologies designed to help you prepare for your interview Who This Book Is For This book is for aspiring enterprise, business, domain, solution, and technical architects. It is also ideal for IT advisory consultants and IT designers who wish to interview for such a role. Interviewers will be able leverage this book to make sure they hire candidates with the right competencies to meet the role requirements. What You Will Learn Learn about IT strategies, NFR, methodologies, best practices, and

frameworks to ace your interview Get a holistic view of key concepts, design principles, and patterns related to evangelizing web and Java enterprise applications Discover interview preparation guidelines through case studies Use this as a reference guide for adopting best practices, standards, and design guidelines Get a better understanding with 60+ diagrams depicting various scenarios, models, and methodologies Benefit from coverage of all architecture domains including EA (Business, Data, Infrastructure, and Application), SA, integration, NFRs, security, and SOA,

with extended coverage from IT strategies to the NFR domain In Detail An architect attends multiple interviews for jobs or projects during the course of his or her career. This book is an interview resource created for designers, consultants, technical, solution, domain, enterprise, and chief architects to help them perform well in interview discussions and launch a successful career. The book begins by providing descriptions of architecture skills and competencies that cover the 12 key domains, including 350+ questions relating to these domains. The goal of this book is to cover all

the core architectural domains. From an architect's perspective, it is impossible to revise or learn about all these key areas without a good reference guide - this book is the solution. It shares experiences, learning, insights, and proven methodologies that will benefit practitioners, SMEs, and aspirants in the long run. This book will help you tackle the NFR domain, which is a key aspect pertaining to architecting applications. It typically takes years to understand the core concepts, fundamentals, patterns, and principles related to architecture and

designs. This book is a goldmine for the typical questions asked during an interview and will help prepare you for success! Style and approach This book will help you prepare for interviews for architectural profiles by providing likely questions, explanations, and expected answers. It is an insight-rich guide that will help you develop strategic, tactical, and operational thinking for your interview. With this **ESSENTIAL EXAM TRAINING** for the AWS Certified Solutions Architect Associate, you'll learn everything you need to know to ace your exam! The powerful

combination of exam cram essentials (in this book) and video course (accessible online) will prepare you thoroughly for the real exam so that you get to pass with flying colors. This book is the perfect tool for quick revision of the most important facts before you sit your exam. With the purchase of this book, you get **FREE** access to the popular video course for the AWS Certified Solutions Architect Associate from Digital Cloud Training. Gain the edge on exam day and learn how to master the cloud in the real world. This in-depth training combines hands-on practical exercises with a high-quality level of theoretical

training. By the end of the course, you will have developed a strong experience-based skillset on AWS along with the confidence to ace your AWS Solutions Architect exam first time! **REFLECTING LATEST SAA-C02 EXAM: New** content has been added to these training materials covering all of the new topics of the latest SAA-C02 exam blueprint **28 HOURS OF GUIDED HANDS-ON LECTURES:** Learn how to architect and build applications on Amazon Web Services (AWS) **QUIZ QUESTIONS:** At the end of each section, you get to test your understanding and measure your

progress HIGH-QUALITY VISUALS: We've spared no effort to create a highly visual training course with lots of tables and graphs to illustrate the concepts PRESENTED IN A PROFESSIONAL WAY: Your instructor, Neal Davis, uses clear language and presents the material in a professional way Fast-track your exam success and join the AWS Community of over 150,000 students who have enrolled in the Digital Cloud Training Courses. Six and a half Hours of Video Instruction More than six hours of video instruction covering the knowledge necessary to pass

the AWS Solutions Architect Associate certification exam, including an in-depth review of AWS architecture principles and best practices, and technical details pertaining to the implementation of services in accordance with the Well Architected Framework as published by Amazon Web Services. The AWS Certified Solutions Architect Associate Complete Video Course was developed specifically for the latest edition of the exam released in February of 2018. The AWS Solutions Architect Associate certification is ideal for anyone in a solutions architect or similar technical

role, and this course is designed to help you pass the AWS Certified Solutions Architect Associate exam. We will cover all the key areas addressed in the exam and review a number of use cases designed to help you ingrain the principles and practices on which this certification is based so that you have an intellectual framework with which to formulate the correct answers. We will use a combination of demonstrations, architectural diagram walkthroughs, and case studies to help you understand the tools available to you for passing the exam. Throughout this course you will gain a deeper

understanding of AWS architecture following the five pillars of the Well-architected framework. Demonstrations of Amazon Web Services and third-party cloud solutions are included to provide a clear guide to understanding the services offered by Amazon Web Services and the needs those services meet. Quizzes are also offered to help viewers gauge their ability to understand and retain the information presented. Topics include: Lesson 1: Solutions Architect Associate Certification Lesson 2: High Availability Lesson 3: Network Topology Lesson 4:

Application Design Lesson 5: Network Performance Lesson 6: Compute Performance Lesson 7: Storage Performance Lesson 8: Database Performance Lesson 9: Leveraging Managed Services Lesson 10: Identity and Access Management Lesson 11: Detection Lesson 12: Securing Infrastructure Lesson 13: Securing Data Lesson 14: Cost Optimization Lesson 15: Operational Excellence About the Instructor Richard A. Jones is a certified AWS Solution Architect and an experienced instructor having taught the IT teams of numerous

Fortune 500s and postgraduate students at the University of Colorado. Programming since age 10, Richard has spent more than 25 years furthering... Design and build high-performance, secure, and scalable Salesforce solutions to meet business demands and gain practical experience using real-world scenarios by creating engaging end-to-end solution presentations Key Features Learn common integration, data migration, and security patterns for designing scalable and reliable solutions on the Salesforce Lightning platform Build an end-to-end delivery

framework pipeline for delivering successful projects within specified timelines Gain access to an exclusive book club of skilled Salesforce professionals, to discuss ideas, best practices, and share experiences of designing modern solutions using Salesforce Book Description Salesforce Certified Technical Architect (CTA) is the ultimate certification to validate your knowledge and skills when it comes to designing and building high-performance technical solutions on the Salesforce platform. The CTA certificate is granted after successfully passing

the CTA review board exam, which tests your platform expertise and soft skills for communicating your solutions and vision. You'll start with the core concepts that every architect should master, including data lifecycle, integration, and security, and build your aptitude for creating high-level technical solutions. Using real-world examples, you'll explore essential topics such as selecting systems or components for your solutions, designing scalable and secure Salesforce architecture, and planning the development lifecycle and deployments. Finally, you'll work

on two full mock scenarios that simulate the review board exam, helping you learn how to identify requirements, create a draft solution, and combine all the elements together to create an engaging story to present in front of the board or to a client in real life. By the end of this Salesforce book, you'll have gained the knowledge and skills required to pass the review board exam and implement architectural best practices and strategies in your day-to-day work. What you will learn Explore data lifecycle management and apply it effectively in the Salesforce

ecosystemDesign appropriate enterprise integration interfaces to build your connected solutionUnderstand the essential concepts of identity and access managementDevelop scalable Salesforce data and system architectureDesign the project environment and release strategy for your solutionArticulate the benefits, limitations, and design considerations relating to your solutionDiscover tips, tricks, and strategies to prepare for the Salesforce CTA review board examWho this book is for This book is for Salesforce

architects who want to become certified technical architects by learning how to design secure and scalable technical solutions for their organizations. A solid understanding of the Salesforce platform is required, ideally combined with 3 to 5 years of practical experience as an application architect, system architect, enterprise architect, or solution architect. Develop enterprise architect skills by building secure, highly available, and cost-effective solutions with Oracle Functions, Terraform, and the Oracle Cloud VMware Solution Key FeaturesExplore Oracle's Gen 2.0

Cloud infrastructure and its high-performance computing capabilitiesUnderstand and hybrid cloud capabilities and learn to migrate apps from on-premises VMware clusters to OCI Learn to create Kubernetes clusters and run containerized applications on Oracle's Container EngineBook Description Oracle Cloud Infrastructure (OCI) is a set of complementary cloud services that enables you to build and run a wide range of applications and services in a highly available hosted environment. This book is a fast-paced practical guide that

will help you develop the capabilities to leverage OCI services and effectively manage your cloud infrastructure. Oracle Cloud Infrastructure for Solutions Architects begins by helping you get to grips with the fundamentals of Oracle Cloud Infrastructure, and moves on to cover the building blocks of the layers of Infrastructure as a Service (IaaS), such as Identity and Access Management (IAM), compute, storage, network, and database. As you advance, you'll delve into the development aspects of OCI, where you'll learn to build cloud-

native applications and perform operations on OCI resources as well as use the CLI, API, and SDK. Finally, you'll explore the capabilities of building an Oracle hybrid cloud infrastructure. By the end of this book, you'll have learned how to leverage the OCI and gained a solid understanding of the persona of an architect as well as a developer's perspective. What you will learn Become well-versed with the building blocks of OCI Gen 2.0 CloudControl access to your cloud resources using IAM components Manage and operate various compute instances Tune and

configure various storage options for your apps Develop applications on OCI using OCI Registry (OCIR), Cloud Shell, OCI Container Engine for Kubernetes (OKE), and Service Mesh Discover ways to use object-relational mapping (ORM) to create infrastructure blocks using Terraform code Who this book is for This book is for cloud architects, cloud developers, and DevSecOps engineers who want to learn how to architect and develop on Oracle Cloud Infrastructure by leveraging a wide range of OCI IAAS capabilities. Working knowledge of Linux, exposure to basic

programming, and a basic understanding of networking concepts are needed to get the most out of this book. Preparing for the AWS Certified Solutions Architect exam? Assess your exam readiness with these Practice Tests to maximize your chance of passing your AWS certification exam first time. Fully updated to reflect the latest SAA-C02 exam, these 6 sets of Practice Tests will prepare you thoroughly for the real exam so that you get to ace your exam with confidence. Presented with and without answers so you can study or simulate an exam. There are 6 practice exams with

65 questions each, covering all domains of the latest AWS exam blueprint (SAA-C02). Each set of practice exams reflects the difficulty of the real AWS exam. With these Practice Tests, you'll know when you are ready to ace your AWS Solutions Architect exam! The exam covers a broad set of technologies and it's vital to ensure you are armed with the knowledge to answer whatever question comes up in your certification exam. We recommend reviewing these practice questions until you're confident in all areas and ready to achieve a great score! Here's how this popular exam

prep tool will shortcut your study time: ALWAYS UP TO DATE: These practice questions reflect the latest SAA-C02 exam blueprint and are regularly updated - based on recent student feedback from the real exam. GAIN THE EDGE ON EXAM DAY: These practice tests are patterned to reflect the difficulty of the real AWS exam and use the question format of the AWS certification exam. PREMIUM-QUALITY: These practice questions are free from typos and technical errors which makes your learning experience much more pleasant. DETAILED EXPLANATIONS FOR ALL

ANSWERS: Every question includes a detailed explanation that explains why each answer is correct or incorrect, supporting your understanding of AWS Services which is key to passing the exam. These AWS Practice Tests have been created to help you to gain a competitive advantage and ensure that you pass your AWS Certified Solutions Architect certification exam first attempt with confidence. 2020 BONUS MATERIAL Get FREE access to the Online Exam Simulator from Digital Cloud Training with over 500 UNIQUE Practice Questions to simulate the real

exam. The full-length Practice Tests is timed and scored (passing score is 72%) mimicking the real exam environment so you get familiar with the actual AWS exam format. Every question includes deep-dive reference links and detailed explanations that explain why each answer is correct or incorrect. This up-to-date study guide offers 100% coverage of every objective for the current version of the AWS Certified Solutions Architect Professional exam. Get complete coverage of all objectives included on the SAA-C02 exam from this comprehensive resource. Written by an expert AWS

Solutions Architect and well-respected author, this authoritative guide fully addresses the knowledge and skills required for passing the AWS Certified Solutions Architect - Associate exam. You'll find learning objectives at the beginning of each chapter, exam tips, practice exam questions, and in-depth explanations. You'll also build your practical knowledge with the many hands-on labs found throughout this guide. Designed to help you pass the exam with ease, this definitive volume also serves as an essential on-the-job reference. Covers all exam domains, including: Design Resilient

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Design High-
Performing
Architectures
Design Secure
Applications and
Architectures
Design Cost-
Optimized
Architectures
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questions Test
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application, a
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component UI
library, and other
exciting projects. In
doing so, you'll
implement popular
technologies such
as Angular Router,
Scully, Electron,
Angular service
workers, Jamstack,
NgRx, and more. By
the end of this

book, you will have the skills you need to build Angular apps using a variety of different technologies according to your or your client's needs. What you will learn Set up Angular applications using Angular CLI and Nx Console Create a personal blog with Jamstack, Scully plugins, and SPA techniques Build an issue management system using typed reactive forms Use PWA techniques to enhance user experience Make SEO-friendly web pages with server-side rendering Create a monorepo application using Nx tools and NgRx for state management Focus on mobile application

development using Ionic Develop custom schematics by extending Angular CLI Who this book is for This book is for developers with beginner-level Angular experience who want to become proficient in using essential tools and dealing with the various use cases in Angular. Beginner-level knowledge of web application development and basic experience of working with ES6 or TypeScript is essential before you dive in. This book focuses on practical applications of Angular. If you want to deepen your understanding of this framework, we recommend that you also look at Learning Angular

from the same author. Master Powerful Off-the-Shelf Business Solutions for AI and Machine Learning Pragmatic AI will help you solve real-world problems with contemporary machine learning, artificial intelligence, and cloud computing tools. Noah Gift demystifies all the concepts and tools you need to get results—even if you don't have a strong background in math or data science. Gift illuminates powerful off-the-shelf cloud offerings from Amazon, Google, and Microsoft, and demonstrates proven techniques using the Python data science ecosystem. His workflows and

examples help you streamline and simplify every step, from deployment to production, and build exceptionally scalable solutions. As you learn how machine language (ML) solutions work, you'll gain a more intuitive understanding of what you can achieve with them and how to maximize their value. Building on these fundamentals, you'll walk step-by-step through building cloud-based AI/ML applications to address realistic issues in sports marketing, project management, product pricing, real estate, and beyond. Whether you're a business professional, decision-maker,

student, or programmer, Gift's expert guidance and wide-ranging case studies will prepare you to solve data science problems in virtually any environment. Get and configure all the tools you'll need Quickly review all the Python you need to start building machine learning applications Master the AI and ML toolchain and project lifecycle Work with Python data science tools such as IPython, Pandas, Numpy, Jupyter Notebook, and Sklearn Incorporate a pragmatic feedback loop that continually improves the efficiency of your workflows and

systems Develop cloud AI solutions with Google Cloud Platform, including TPU, Colaboratory, and Datalab services Define Amazon Web Services cloud AI workflows, including spot instances, code pipelines, boto, and more Work with Microsoft Azure AI APIs Walk through building six real-world AI applications, from start to finish Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details. "Due to the rapid adaptation of the cloud platform, the need for cloud certification has also increased. This

course is your one stop solution, getting you from zero to certified. The main focus of this video is on getting you Amazon Certified and building highly reliable and scalable applications on AWS. This course starts with a quick introduction to AWS and the prerequisites. Next, the video dives deep into topics such as Amazon S3, EC2, VPC, and more to get you prepared with core Amazon services. Moving forward, this tutorial teaches you how to design and deploy highly scalable and optimized workloads. Finally, we cover security and troubleshooting concepts along with

AWS architecture best practices."-- Resource description page. 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, 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
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Understanding of
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Concepts
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tools, and apply
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edge on exam day
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highly reliable and
scalable workloads
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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 learnExplore AWS terminology and identity and access managementAcquaint yourself with important cloud services and features in categories such as compute, network, storage, and databasesDefine access control to secure AWS resources and set up efficient monitoringBack up your database and

ensure high availability by understanding all of the database-related services in the AWS CloudIntegrate AWS with your applications to meet and exceed non-functional requirementsBuild and deploy cost-effective and highly available applicationsWho 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 Salary surveys worldwide regularly

place software architect in the top 10 best jobs, yet no real guide exists to help developers become architects. Until now. This book provides the first comprehensive overview of software architecture's many aspects. Aspiring and existing architects alike will examine architectural characteristics, architectural patterns, component determination, diagramming and presenting architecture, evolutionary architecture, and many other topics. Mark Richards and Neal Ford—hands-on practitioners who have taught software architecture classes

professionally for years—focus on architecture principles that apply across all technology stacks. You'll explore software architecture in a modern light, taking into account all the innovations of the past decade. This book examines: Architecture patterns: The technical basis for many architectural decisions Components: Identification, coupling, cohesion, partitioning, and granularity Soft skills: Effective team management, meetings, negotiation, presentations, and more Modernity: Engineering practices and operational

approaches that have changed radically in the past few years Architecture as an engineering discipline: Repeatable results, metrics, and concrete valuations that add rigor to software architecture 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.

Virtual, hands-on learning labs allow you to apply your technical skills in realistic environments. So Sybex has bundled AWS labs from XtremeLabs with our popular AWS Certified Solutions Architect Study Guide to give you the same experience working in these labs as you prepare for the Certified Solutions Architect Exam that you would face in a real-life application. These labs in addition to the book are a proven way to prepare for the certification and for work as an AWS Solutions Architect. 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: 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. Readers will also have one year of free access to the Sybex interactive online learning environment and test bank, providing a suite of robust study tools including an assessment test, chapter tests, bonus practice exam, electronic flashcards, and a

glossary of key terms. 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. And with this edition you also get XtremeLabs virtual labs that run from your browser. The registration code is included with the book and gives you 6 months unlimited access to XtremeLabs AWS

Certified Solutions Architect Labs with 10 unique lab modules based on the book. The AWS Certified Solutions Architect - Associate examination is intended for individuals who perform a solutions architect role and have one or more years of hands-on experience designing available, cost-efficient, fault-tolerant, and scalable distributed systems on AWS. Preparing for the AWS Certified Solutions Architect Associate Exam (AWS CSAA) to become an AWS Certified Solutions Architect? Here we've brought 500+ AWS Solutions Architect Associate Exam Questions for you

so that you can prepare well for the AWS Solution Architect Associate exam. This AWS Certified Solutions Architect - Associate exam 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 500+ questions for successfully certifying this exam. This book is a comprehensive exam guide to help prepare for AWS Certified Solutions Architect -- Associate exam. The book has extensive diagrams

to help understand topics much easier way. The book is divided into different sections to logically group related chapters in one section. It has the following sections: AWS Fundamentals (What is AWS, AWS Account, AWS Free Tier, AWS Cost & Billing Management, AWS Global Cloud Infrastructure (part I)), IAM, EC2 AWS Advanced (EC2 Advanced, ELB, Advanced S3, Route 53, AWS Global Cloud Infrastructure (part II), Advanced Storage on AWS, AWS Monitoring, Audit, and Performance), AWS RDS and Databases (AWS RDS and Cache, AWS Databases)

Serverless (Serverless Computing, AWS Integration, and Messaging) Container & CI/CD (Container, AWS CI/CD services) Data & Analytics (Data & Analytics) Machine Learning (AWS ML/AI Services) Security (AWS Security & Encryption, AWS Shared Responsibility Model, How to get Support on AWS, Advanced Identity) Networking (AWS Networking) Disaster Management (Backup, Recovery & Migrations) Solutions Architecture (Cloud Architecture Key Design Principles, AWS Well-Architected Framework, Classic Solutions)

Architecture,
Serverless
Solutions
Architecture,
Solutions
Architecture
Miscellaneous)
Practice Tests
Includes 325
Practice Exam
Questions with
Answers The book
Includes AWS
services/features
such as IAM, S3,
EC2, EC2
purchasing options,
EC2 placement
groups, Load
Balancers, Auto
Scaling, S3 Glacier,
S3 Storage classes,
Route 53 Routing
policies,
CloudFront, Global
Accelerator, EFS,
EBS, Instance
Store, AWS Snow
Family, AWS
Storage Gateway,
AWS Transfer
Family, Amazon
CloudWatch,
EventBridge,

CloudWatch
Insights, AWS
CloudTrail, AWS
Config, Amazon
RDS, Amazon
Aurora, Amazon
ElasticCache, Amazon
DocumentDB,
Amazon Keyspaces,
Amazon Quantum
Ledger Database,
Amazon
Timestream,
Amazon Managed
Blockchain, AWS
Lambda, Amazon
DynamoDB,
Amazon API
Gateway, SQS,
SNS, SES, Amazon
Kinesis, Amazon
Kinesis Firehose,
Amazon Kinesis
Data Analytics,
Amazon Kinesis
Data Streams,
Amazon Kinesis
ECS, Amazon
Kinesis ECR,
Amazon EKS, AWS
CloudFormation,
AWS Elastic
Beanstalk, AWS
CodeBuild, AWS

OpsWorks, AWS
CodeGuru, AWS
CodeCommit,
Amazon Athena,
Amazon Redshift,
Amazon EMR,
Amazon
QuickSight, AWS
Glue, AWS Lake
Formation, Amazon
MSK, Amazon
Rekognition,
Amazon Transcribe,
Amazon Polly,
Amazon Translate,
Amazon Lex,
Amazon Connect,
Amazon
Comprehend,
Amazon
Comprehend
Medical, Amazon
SageMaker,
Amazon Forecast,
Amazon Kendra,
Amazon
Personalize,
Amazon Textract,
Amazon Fraud
Detector, Amazon
Sumerian, AWS
WAF, AWS Shield
Standard, AWS
Shield Advanced,

AWS Firewall Manager, AWS GuardDuty, Amazon Inspector, Amazon Macie, Amazon Detective, SSM Session Manager, AWS Systems Manager, S3 Replication & Encryption, AWS Organization, AWS Control Tower, AWS SSO, Amazon Cognito, AWS VPC, NAT Gateway, VPC Endpoints, VPC Peering, AWS Transit Gateway, AWS Site-to-Site VPC, Database Management Service (DMS), and many others. In the last section (Practice Tests), there are five practice test sets with answers containing 65 exam-like questions. These questions will help you apply your

learning to better prepare for the exam. As the digital economy changes the rules of the game for enterprises, the role of software and IT architects is also transforming. Rather than focus on technical decisions alone, architects and senior technologists need to combine organizational and technical knowledge to effect change in their company's structure and processes. To accomplish that, they need to connect the IT engine room to the penthouse, where the business strategy is defined. In this guide, author Gregor Hohpe shares real-world advice and

hard-learned lessons from actual IT transformations. His anecdotes help architects, senior developers, and other IT professionals prepare for a more complex but rewarding role in the enterprise. This book is ideal for: Software architects and senior developers looking to shape the company's technology direction or assist in an organizational transformation Enterprise architects and senior technologists searching for practical advice on how to navigate technical and organizational topics CTOs and senior technical architects who are devising an IT

strategy that impacts the way the organization works IT managers who want to learn what's worked and what hasn't in large-scale transformation 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.

Design, build, and deploy multi-platform apps to overcome crucial business problems by leveraging the capabilities of low-code and no-code development enabled through Microsoft Power Platform and Teams Key Features Find out how you can accelerate the digital transformation of your organization as a citizen developer Build your first app with the help of step-by-step guidance and add capabilities with flows and bots Learn about lifecycle management for applications, environments, and licensing Book Description Microsoft Dataverse for

Teams is a built-in, low-code data platform for Teams and enables everyone to easily build and deploy apps, flows, and intelligent chatbots using Power Apps, Power Automate, and Power Virtual Agents (PVA) embedded in Microsoft Teams. Without learning any coding language, you will be able to build apps with step-by-step explanations for setting up Teams, creating tables to store data, and leverage the data for your digital solutions. With the techniques covered in the book, you'll be able to develop your first app with Dataverse for Teams within an hour! You'll then learn how to

automate repetitive tasks or build alerts using Power Automate and Power Virtual Agents. As you get to grips with building these digital solutions, you'll also be able to understand when to consider upgrading from Dataverse for Teams to Dataverse, along with its advanced features. Finally, you'll explore features for administration and governance and understand the licensing requirements of Microsoft Dataverse for Teams and PowerApps. Having acquired the skills to build and deploy an enterprise-grade digital solution, by the end of the book,

you will have become a qualified citizen developer and be ready to lead a digital revolution in your organization. What you will learn Gain a deeper understanding of Microsoft Dataverse for Teams by exploring various business scenarios Design, build, and deploy enterprise-grade applications for Teams Develop Power Automate flows and PVA bots using Dataverse for Teams Discover administration and security best practices Understand the licensing requirements and advanced features of Microsoft Dataverse Identify scenarios in your organizations

where your citizen development skills can be leveraged
Who this book is for
The book is for citizen developers, business professionals, or anyone looking to develop applications to solve critical business problems. Basic knowledge of using software like PowerPoint, Excel-like formulae, and navigating between application screens is all you need to get started with this book. **COVERS THE NEW 2018 EXAM SAA-C01!** This effective study guide provides 100% coverage of every topic on the AWS Certified Solutions Architect Associate exam. Get complete coverage of all objectives included on the

February 2018 SAA-C01 exam from this comprehensive resource. Written by an expert AWS Solutions Architect and well-respected author, this authoritative guide fully addresses the knowledge and skills required for passing the AWS Certified Solutions Architect Associate exam. You'll find learning objectives at the beginning of each chapter, exam tips, practice exam questions, and in-depth explanations. Designed to help you pass the exam with ease, this definitive volume also serves as an essential on-the-job reference. Covers all exam domains, including: •Design Resilient Architectures •Define Performant

Architectures
•Specify Secure Applications and Architectures
•Design Cost-Optimized Architectures
•Define Operationally Excellent Architectures
Digital content includes: •130 practice exam questions •Test engine that provides practice exams or quizzes that can be customized by chapter or exam objective
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 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, 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. This is the eBook version of the print title. Note that the eBook does not provide access to the practice test software that accompanies the print book. Learn, prepare, and practice for AWS Certified Solutions Architect - Associate (SAA-C01) exam success with this Cert Guide from Pearson IT Certification, a leader in IT Certification

learning. Master AWS Certified Solutions Architect - Associate (SAA-C01) exam topics Assess your knowledge with chapter-ending quizzes Review key concepts with exam preparation tasks AWS Certified Solutions Architect - Associate (SAA-C01) Cert Guide is a best-of-breed exam study guide. Best-selling author and expert instructor Anthony Sequeira shares preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your

understanding and retention of exam topics. The book presents you with an organized test-preparation routine through the use of proven series elements and techniques. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. Review questions help you assess your knowledge, and a final preparation chapter guides you through tools and resources to help you craft your final study plan. Well regarded for its level of detail, assessment features, and challenging review questions and exercises, this

study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time. The study guide helps you master all the topics on the AWS Certified Solutions Architect - Associate exam, including how to · Design resilient architectures that ensure storage high availability while providing for decoupling mechanisms, multitier infrastructure, and high availability · Define performant architectures with efficient storage and databases, caching optimizations, and improved elasticity · Specify secure applications and architectures,

encompassing application tiers, data, and networking infrastructure · Design cost-optimized architectures, addressing both storage and compute · Define operationally excellent architectures, and understand their characteristics Level up your IT career with the knowledge required to become an Associate level AWS Certified Solutions Architect. This expert-led certification study resource provides a guided path to exam success using video from the Complete Video Course series, Cert Guide chapters, two types of quizzes, and practice tests.

New for 2019! Start with the basics, then learn everything you need to know to pass the AWS Solutions Architect exam About This Video Learn the basics of AWS and set up a free AWS account to run an instance Grasp AWS essentials and prepare for the AWS Solutions Architect - Associate certification In Detail Are you looking to learn more about AWS and what it can do for you or your company? Have you heard about it, but don't know how to take your business and network solutions to the AWS cloud? Perhaps you're a seasoned network techie looking to

become an AWS Certified Solutions Architect Associate. If you can relate to any of those, the AWS Essentials and Solutions Architect Associate course is for you. This course includes both AWS Technical Essentials and AWS Certified Solutions Architect - Associate courses. If you're new to AWS and looking for a crash course to get to grips with the foundations, we recommend that you start right from the beginning with the Technical Essentials course, which isn't a certification exam prep course and doesn't cover exam domains, however, the following is a list of what it covers: Terminology and

concepts related to the AWS platform How to navigate the AWS Management Console Key concepts for AWS security measures and AWS Identity and Access Management (IAM) Foundational services-Amazon Elastic Compute Cloud (Amazon EC2), Amazon Virtual Private Cloud (Amazon VPC), Amazon Simple Storage Service (Amazon S3), and Amazon Elastic Block Store (Amazon EBS) Database services-Amazon DynamoDB and Amazon Relational Database Service (Amazon RDS) Management services-AWS Auto Scaling, Amazon CloudWatch, Elastic Load Balancing (ELB), and AWS

Trusted Advisor Once you're well-versed with the basics, you'll move on to the AWS Solutions Architect - Associate video course, which will take you through the exam domains which are as follows: Domain 1: Design Resilient Architectures (34%) Domain 2: Define Performant Architectures (24%) Domain 3: Specify Secure Applications and Architectures (26%) Domain 4: Design Cost-Optimized Architectures (10%) Domain 5: Define Operationally Excellent Architectures (6%) Downloading the example code for this course: You can download the example code files for this course on

GitHub at the following link: <https://github.com/PacktPublishing/AWS-Essentials-and-Solutions-Architect-Associate-The-Total-Course> . If you require support please email: customercare@packt.com. This is the eBook version of the print title. Note that the eBook does not provide access to the practice test software that accompanies the print book. Learn, prepare, and practice for AWS Certified Solutions Architect - Associate (SAA-C02) exam success with this Cert Guide from Pearson IT Certification, a leader in IT certification. * Master AWS Certified Solutions Architect -

Associate (SAA-C02) exam topics * Assess your knowledge with chapter-ending quizzes * Review key concepts with exam preparation tasks AWS Certified Solutions Architect - Associate (SAA-C02) Cert Guide from Pearson IT Certification prepares you to succeed on the exam by directly addressing the exam's official objectives as stated by Amazon. Leading Cloud expert Mark Wilkins shares preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner,

focusing on increasing your understanding and retention of exam topics. The book presents you with an organized test-preparation routine through the use of proven series elements and techniques. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. Review questions help you assess your knowledge, and a final preparation chapter guides you through tools and resources to help you craft your final study plan. Well regarded for its level of detail, assessment features, and challenging review

questions and exercises, this study guide helps you master the concepts and techniques that will help you succeed on the exam the first time. This study guide helps you master all the topics on the AWS Certified Solutions Architect - Associate (SAA-C02) exam, including * Resilient Architectures: multi-tier architecture solutions; highly available and/or fault-tolerant architectures; decoupling mechanisms using AWS services; resilient storage * High-Performing Architectures: elastic and scalable compute solutions; high-performing

and scalable storage solutions, networking solutions, and database solutions * Secure Applications and Architectures: secure access to AWS resources; secure application tiers; data security options * Cost-Optimized Architectures: cost-effective storage solutions and compute and database services; cost-optimized network architectures Do you want to become an AWS Certified Solutions Architect Associate? Are you ready to get started on the amazing journey to get the prized AWS Certification? These AWS Certified Solutions Architect - Associate SAA-C03 practice tests are

patterned after the latest exam format AWS Certified Solutions Architect practice tests are TOP-NOTCH and the CLOSEST to the actual exam, The AWS Certified Solutions Architect Associate is consistently among the top-paying IT certifications, considering that Amazon Web Services (AWS) is the leading cloud services platform in the world with almost 50% market share! Earn over \$150,000 per year with an AWS Solutions Architect certification! But before you become an AWS Certified Solutions Architect Professional, it is recommended for you to pass the AWS Solutions Architect Associate

certification exam first, and this is where AWS practice tests come in. It is possible that you have read all of the available AWS documentation online yet still fail the exam! These AWS practice tests simulate the actual certification exam and ensure that you indeed understand the subject matter. Who should take this exam? AWS Certified Solutions Architect - Associate is a great starting point on the AWS Certification path for individuals who may have any of the following:

- Experience in AWS technology
- Strong on-premises IT experience and understanding of mapping on-

premises to cloud Experience working in other cloud services Who this course is for: For those who are about to take the AWS Certified Solutions Architect Associate SAA-C03 exam For all IT Professionals who want to gauge their AWS Knowledge for their upcoming job interview For anyone who want to take their career, and salary, to a whole new level with an AWS certification! This is the eBook version of the print title. Note that the eBook does not provide access to the practice test software that accompanies the print book. Learn, prepare, and practice for AWS Certified Solutions

Architect - Associate (SAA-C03) exam success with this Cert Guide from Pearson IT Certification, a leader in IT Certification. Master AWS Certified Solutions Architect - Associate (SAA-C03) exam topics Assess your knowledge with chapter-ending quizzes Review key concepts with exam preparation tasks AWS Certified Solutions Architect - Associate (SAA-C03) Cert Guide from Pearson IT Certification prepares you to succeed on the exam by directly addressing the exam's official objectives as stated by Amazon. Leading Cloud expert Mark Wilkins shares

preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. The book presents you with an organized test preparation routine using proven series elements and techniques. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. Review questions help you assess your knowledge, and a final preparation

chapter guides you through tools and resources to help you craft your final study plan. Well regarded for its level of detail, study plans, assessment features, and challenging review questions and exercises, this study guide helps you master all the topics on the AWS Certified Solutions Architect - Associate (SAA-C03) exam, including Secure Architectures: Secure access to AWS resources, secure workloads and applications, data security controls Resilient Architectures: Scalable and loosely coupled architectures, highly available and fault-tolerant architectures High-

Performing Architectures: High-performing and scalable storage solutions; high-performing and elastic compute solutions; high-performing database solutions, scalable network architecture, data ingestion, and transformations solutions Cost-Optimized Architectures: Cost-optimized storage solutions, compute solutions, and database solutions; cost-effective network architectures 6+ Hours of Video Instruction Overview The AWS Certified Solutions Architect - Associate (SAA-C02) Complete Video Course is designed to provide users with more

than 6 hours of instruction with the goal of fully preparing them for all aspects of the exam. The course walks through the exam objective coverage in a way that is easy to digest, apply in the workplace, and implement for the exam. The course instructor, Chad Smith, is an experienced and certified architect with a focus on AWS. The course provides walk-throughs of the exam objectives as well as best strategies and demonstrations for optimal application. Each lesson ends with two sample questions, which are explained in detail for both correct and incorrect answers.

The four domains of the AWS SAA-C02 exam align with Modules 2 through 5 of this course to provide the best outcome for the learner intending to take and pass the AWS Certified Solutions Architect Associate (SAA-C02) Exam. Topics include Module 1: AWS Certified Solutions Architect Overview Module 2: Design Resilient Architectures Module 3: Design High-Performing Architectures Module 4: Specify Secure Applications and Architectures Module 5: Design Cost-Optimized Architectures About the Instructor Chad Smith is the principal cloud architect at [Brightkey.cloud](https://www.brightkey.cloud). He

is a certified architect for both Amazon Web Services and Google Cloud Platform and brings a wealth of relevant experience in cloud adoption, infrastructure design, data security, and cloud operations. Chad holds current AWS certifications in Architecture (Associate and Professional), SysOps, and Security. Skill Level Intermediate to advanced Learn How To Use architectural patterns to design resilient, highly available, and decoupled infrastructures Deploy high-performance compute, network, storage, and database resources

Design least-privilege access control and secure application tiers, and deploy data protection mechanisms for encryption in transit and at rest
Recognize cost-effective compute, network, storage, and database implementation
Pass the AWS Certified Solutions Architect Associate SAA-C02 exam
Who Should Take This Course
AWS architects
AWS SysOps professionals
AWS security professionals
AWS developers and engineers
Intermediate to advanced students
Course Requirements
Strong understanding of the AWS ecosystem

and infrastructure architecture
Working knowledge of commonly used AWS services such as EC2, S3, IAM, Cloudwatch, et...
Accelerating Business and Mission Success with Cloud Computing. Key Features
A step-by-step guide that will practically guide you through implementing Cloud 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 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. "In this course, you will learn about AWS and its different features. It will start by taking you through the AWS command line and show you hands-on how to enter your

own commands in it. You will then be taken through the DynamoDB, CloudWatch and Route 53. In the course will teach you on how to back in case of any disaster and to recover it? The course will then teach you about the AWS Elastic Load Balancing and scaling it up followed by lab assembly of the Architecture and using the ElasticCache Redis. It then shows you how to troubleshoot AWS and cloud trail it. Finally, you will learn to monitor your AWS to see its performance."-- Resource description page. AWS Certified Solutions Architect - Professional is considered one of

the top certifications in the world and there have been a few discrepancies due to the lack of a well-defined study guide which can help individuals to prepare for the certification. The book, based on the famous AWS Solutions Architect - Professional video course by Zeal, brings the much-needed step by step guide, followed by a well-defined learning process and exam preparation quizzes which will help you prepare for this challenging certification. With the detailed preparation guide and instructor support via email, join us in the journey to be an AWS Certified

Solutions Architect - Professional. This practical guide provides over 100 self-contained recipes to help you creatively solve issues you may encounter in your AWS cloud endeavors. If you're comfortable with rudimentary scripting and general cloud concepts, this cookbook will give you what you need to both address foundational tasks and create high-level capabilities. AWS Cookbook provides real-world examples that incorporate best practices. Each recipe includes code that you can safely execute in a sandbox AWS account to ensure that it works. From there, you can

customize the code to help construct your application or fix your specific existing problem. Recipes also include a discussion that explains the approach and provides context. This cookbook takes you beyond theory, providing the nuts and bolts you need to successfully build on AWS. You'll find recipes for: Organizing multiple accounts for enterprise deployments Locking down S3 buckets Analyzing IAM roles Autoscaling a containerized service Summarizing news articles Standing up a virtual call center Creating a chatbot that can pull answers from a knowledge

repository Automating security group rule monitoring, looking for rogue traffic flows And more. Learn about the responsibilities of a .NET solution architect and explore solution architecture principles, DevOps solutions, and design techniques and standards with hands-on examples of design patterns Key Features Find out what are the essential personality traits and responsibilities of a solution architect Become well-versed with architecture principles and modern design patterns with hands-on examples Design modern web solutions and make

the most of Azure DevOps to automate your development life cycle Book Description Understanding solution architecture is a must to build and integrate robust systems to meet your client's needs. This makes it crucial for a professional .NET software engineer to learn the key skills of a .NET solution architect to create a unique digital journey and build solutions for a wide range of industries, from strategy and design to implementation. With this handbook, developers working with the .NET technology will be able to put their knowledge to work. The book takes a

hands-on approach to help you become an effective solution architect. You'll start by learning the principles of the software development life cycle (SDLC), the roles and responsibilities of a .NET solution architect, and what makes a great .NET solution architect. As you make progress through the chapters, you'll understand the principles of solution architecture and how to design a solution, and explore designing layers and microservices. You'll complete your learning journey by uncovering modern design patterns and techniques for designing and

building digital solutions. By the end of this book, you'll have learned how to architect your modern web solutions with ASP.NET Core and Microsoft Azure and be ready to automate your development life cycle with Azure DevOps. What you will learn Understand the role and core responsibilities of a .NET solution architect Study popular UML (Unified Modeling Language) diagrams for solution architecture Work with modern design patterns with the help of hands-on examples Become familiar with microservices and designing layers Discover how

to design modern web solutions Automate your development life cycle with Azure DevOps Who this book is for This book is for intermediate and advanced .NET developers and software engineers who want to advance their careers and expand their knowledge of solution architecture and design principles. Beginner or intermediate-level solution architects looking for tips and tricks to build large-scale .NET solutions will find this book useful. From fundamentals and design patterns to the different strategies for creating secure and reliable architectures in

AWS cloud, learn everything you need to become a successful solutions architect. Key Features: Create solutions and transform business requirements into technical architecture with this practical guide. Understand various challenges that you might come across while refactoring or modernizing legacy applications. Dive into security automation, DevOps, and validation of solution architecture. Book Description: Becoming a solutions architect gives you the flexibility to work with cutting-edge technologies and define product strategies. This

handbook takes you through the essential concepts, design principles and patterns, architectural considerations, and all the latest technology that you need to know to become a successful solutions architect. This book starts with a quick introduction to the fundamentals of solution architecture design principles and attributes that will assist you in understanding how solution architecture benefits software projects across enterprises. You'll learn what a cloud migration and application modernization framework looks like, and will use microservices,

event-driven, cache-based, and serverless patterns to design robust architectures. You'll then explore the main pillars of architecture design, including performance, scalability, cost optimization, security, operational excellence, and DevOps. Additionally, you'll also learn advanced concepts relating to big data, machine learning, and the Internet of Things (IoT). Finally, you'll get to grips with the documentation of architecture design and the soft skills that are necessary to become a better solutions architect. By the end of this book, you'll have learned techniques

to create an efficient architecture design that meets your business requirements. What you will learnExplore the various roles of a solutions architect and their involvement in the enterprise landscapeApproach big data processing, machine learning, and IoT from an architect's perspective and understand how they fit into modern architectureDiscover different solution architecture patterns such as event-driven and microservice patternsFind ways to keep yourself updated with new technologies and enhance your skillsModernize legacy applications

with the help of cloud integrationGet to grips with choosing an appropriate strategy to reduce costWho this book is for This book is for software developers, system engineers, DevOps engineers, architects, and team leaders working in the information technology industry who aspire to become solutions architect professionals. A good understanding of the software development process and general programming experience with any language will be useful.

- [AWS Certified Solutions Architect Associate](#)

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