



AWS Certified Solutions Architect Associate SAA-C02 Course Outline

Introduction:

- Introduction and Overview
- The exam blueprint
- Why Should I Learn and Get Certified with AWS?

AWS - 10,000-Foot Overview

- The History of AWS So Far
- AWS - 10,000-Foot Overview
- How to Sign up for AWS
- AWS Certified Solutions Architect Associate 2020 - AWS - 10,000 Foot Overview Quiz

Identity and Access Management & S3

- Identity and Access Management 101
- Identity and Access Management - Demo
- Create a Billing Alarm - Demo
- S3 101
- Create an S3 Bucket - Demo
- S3 Pricing Tiers [SAA-C02]
- S3 Security and Encryption
- S3 Versioning - Demo
- Lifecycle Management with S3 - Demo
- S3 Object Lock and Glacier Vault Lock [SAA-C02]
- S3 Performance [SAA-C02]
- S3 Select and Glacier Select [SAA-C02]
- AWS Organizations and Consolidated Billing [SAA-C02]
- Sharing S3 Buckets Across Accounts - Lab [SAA-C02]
- Cross-Region Replication - Demo
- S3 Transfer Acceleration
- AWS DataSync [SAA-C02]
- CloudFront
- Create a CloudFront Distribution - Demo
- CloudFront Signed URLs and Cookies [SAA-C02]
- Snowball

- Snowball - Demo
- Storage Gateway
- Athena vs. Macie [SAA-C02]
- S3 and IAM Summary
- AWS Certified Solutions Architect Associate 2020 - Identity Access Management & S3 - Identity Access Management Quiz

EC2

- EC2 101 - Elastic Compute Cloud
- Launch Our First EC2 Instance: Part 1 - Demo
- Launch Our First EC2 Instance: Part 2 - Demo
- Security Groups - Demo
- EBS 101
- EBS Volumes and Snapshots - Demo
- AMI Types (EBS vs. Instance Store)
- ENI vs. ENA vs. EFA [SAA-C02]
- Encrypted Root Device Volumes and Snapshots - Demo
- Spot Instances and Spot Fleets [SAA-C02]
- EC2 Hibernate [SAA-C02]
- CloudWatch 101
- CloudWatch - Demo
- AWS Command Line (CLI) - Demo
- Identity and Access Management Roles - Demo
- Using Bootstrap Scripts - Demo
- Instance Metadata - Demo
- EFS - Lab [SAA-C02]
- Amazon FSx for Windows and Amazon FSx for Lustre [SAA-C02]
- EC2 Placement Groups
- HPC on AWS [SAA-C02]
- AWS WAF [SAA-C02]
- EC2 Summary
- AWS Certified Solutions Architect Associate 2020 - EC2 Quiz

Databases on AWS

- Databases 101
- Let's Create Our First RDS Instance - Demo
- RDS: Backups, Multi-AZ, and Read Replicas
- RDS: Backups, Multi-AZ, and Read Replicas - Demo
- DynamoDB
- Advanced DynamoDB [SAA-C02]
- Redshift
- Aurora [SAA-C02]
- ElastiCache
- Database Migration Service (DMS) [SAA-C02]
- Caching Strategies on AWS [SAA-C02]
- EMR Overview [SAA-C02]
- Databases Summary
- AWS Certified Solutions Architect Associate 2020 - Databases On AWS Quiz

Advanced IAM

- AWS Directory Service [SAA-C02]
- IAM Policies [SAA-C02]
- AWS Resource Access Manager (RAM) [SAA-C02]
- AWS Single Sign-On [SAA-C02]

- Advanced IAM Summary [SAA-C02]

Route 53

- DNS 101
- Register a Domain Name - Demo
- Route 53 Routing Policies Available on AWS
- Route 53: Simple Routing Policy - Demo
- Route 53: Weighted Routing Policy - Demo
- Route 53: Latency-Based Policy - Demo
- Route 53: Failover Routing Policy - Demo
- Route 53: Geolocation Routing Policy - Demo
- Route 53: Geoproximity Routing Policy (Traffic Flow Only) - Demo
- Route 53: Multivalued Answer Policy - Demo
- DNS Summary
- AWS Certified Solutions Architect Associate 2020 - Route53 Quiz

VPCs

- VPC Overview
- Create Your Own Custom VPC: Part 1 - Demo
- Create Your Own Custom VPC: Part 2 - Demo
- NAT Instances and NAT Gateways - Demo
- Network Access Control Lists vs. Security Groups - Demo
- Custom VPCs and ELBs - Demo
- VPC Flow Logs - Demo
- Bastions
- Direct Connect
- Setting Up Direct Connect [SAA-C02]
- Global Accelerator [SAA-C02]
- VPC Endpoints [SAA-C02]
- AWS PrivateLink [SAA-C02]
- AWS Transit Gateway [SAA-C02]
- AWS VPN CloudHub [SAA-C02]
- AWS Network Costs [SAA-C02]
- VPC Summary
- Creating a Basic VPC and Associated Components in AWS
- AWS Certified Solutions Architect Associate 2020 - VPCs Quiz

HA Architecture

- Elastic Load Balancers
- Load Balancers and Health Checks - Demo
- Advanced Load Balancer Theory [SAA-C02]
- Auto Scaling [SAA-C02]
- Launch Configurations and Auto Scaling Groups - Demo
- HA Architecture
- Building a Fault-Tolerant WordPress Site: Getting Set Up - Demo
- Building a Fault-Tolerant WordPress Site: Setting Up EC2 - Demo
- Building a Fault-Tolerant WordPress Site: Adding Resilience and Auto Scaling - Demo
- Building a Fault-Tolerant WordPress Site: Cleaning Up - Demo
- Building a Fault-Tolerant WordPress Site: CloudFormation - Demo
- Elastic Beanstalk
- High Availability with Bastion Hosts [SAA-C02]
- On-Premises Strategies with AWS [SAA-C02]
- HA Architecture Summary
- AWS Certified Solutions Architect Associate 2020 - HA Architecture Quiz

Applications

- SQS [SAA-C02]
- Simple Workflow Service
- Simple Notification Service
- Elastic Transcoder
- API Gateway
- Kinesis 101 [SAA-C02]
- Web Identity Federation and Cognito
- Event Processing Patterns [SAA-C02]
- Applications Summary
- WS Certified Solutions Architect Associate 2020 - Applications Quiz

Security

- Reducing Security Threats [SAA-C02]
- Key Management Service (KMS) [SAA-C02]
- CloudHSM [SAA-C02]
- Systems Manager Parameter Store [SAA-C02]
- Secrets Manager [SAA-C02]
- AWS Shield [SAA-C02]
- Web Application Firewall (WAF) [SAA-C02]

Serverless

- Lambda
- Build a Serverless Web Page with API Gateway and Lambda - Demo
- Let's Build an Alexa Skill - Demo
- Serverless Application Model (SAM) [SAA-C02]
- Elastic Container Service (ECS) [SAA-C02]
- Serverless Summary
- AWS Certified Solutions Architect Associate 2020 - Serverless Quiz
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