



AWS Certified Associate

LEARNING PATHS

OVERVIEW

As these are associate level certifications, most of the knowledge of AWS services required for certification is the same for all certification streams. The application of this core knowledge varies significantly between certification streams.

Solutions Architects will be focussed upon selecting the most appropriate services and architecture for an application.

SysOps Administrators will be more focussed upon deployment and administration of architectures.

Developers will be more focussed upon developing applications using the AWS software development kits.

AWS Certified Solutions Architect Associate

Exam concepts you should understand for this exam include:

- Designing and deploying scalable, highly available, and fault tolerant systems on AWS
- Lift and shift of an existing on-premises application to AWS
- Ingress and egress of data to and from AWS
- Selecting the appropriate AWS service based on data, compute, database, or security requirements
- Identifying appropriate use of AWS architectural best practices
- Estimating AWS costs and identifying cost control mechanisms

AWS Certified SysOps Administrator Associate

Exam concepts you should understand for this exam include:

- Deploying, managing, and operating scalable, highly available, and fault tolerant systems on AWS
- Migrating an existing on-premises application to AWS
- Implementing and controlling the flow of data to and from AWS
- Selecting the appropriate AWS service based on compute, data, or security requirements
- Identifying appropriate use of AWS operational best practices
- Estimating AWS usage costs and identifying operational cost control mechanisms

AWS Certified Developer Associate

Exam concepts you should understand for this exam include:

- Picking the right AWS services for the application
- Leveraging AWS SDKs to interact with AWS services from your application
- Writing code that optimizes performance of AWS services used by your application
- Code-level application security (IAM roles, credentials, encryption, etc.)

CURRICULUM

	Solutions Architect	SysOps Admin	Developer
Section 1: Welcome to the World of AWS!			
Lecture: Introduction to AWS	✓	✓	✓
Lecture: Lab Session - Intro to Storage Services	✓	✓	✓
Lecture: Lab Session - Intro to Database Services	✓	✓	✓
Lecture: Lab Session - Intro to Compute and Networking Services	✓	✓	✓
Lecture: Lab Session - Intro to Messaging Services	✓	✓	✓
Lecture: Lab Session - Intro to Management, Security and Analytics Services	✓	✓	✓
Lecture: Lab Session - Highly Available & Fault Tolerant NodeJS Server	✓	✓	✓
Lecture: AWS Free Tier	✓	✓	✓
Quiz: Overview of Amazon Web Services	✓	✓	✓
Section 2: Bulletproof HTML5 Websites with AWS			
Lecture: Intro	✓	✓	✓
Lecture: Part 1 - Architecture Discussion and Lab Preparation	✓	✓	✓
Lecture: Part 2 - Purchasing Domain Names with Route 53	✓	✓	✓
Lecture: Part 3 - Creating an S3 Bucket and Hosting our Website	✓	✓	✓
Lecture: Part 4 - Creating an SSL Certificate with AWS Certificate Manager	✓	✓	✓
Lecture: Part 5 - Creating a CloudFront Distribution	✓	✓	✓
Lecture: Part 6 - Routing Traffic with AWS Route 53	✓	✓	✓
Section 3: Identity and Access Management (IAM)			
Lecture: Intro	✓	✓	✓
Lecture: Identity and Access Management (IAM)	✓	✓	✓
Lecture: Hands On - Identity and Access Management (IAM)	✓	✓	✓
Lecture: Hands On - Trusted Adviser	✓	✓	✓
Lecture: IAM Best Practices	✓	✓	✓
Quiz: What is IAM?	✓	✓	✓
Quiz: IAM Best Practices and Use Cases	✓	✓	✓
Quiz: The IAM Console and the Sign-in Page	✓	✓	✓
Quiz: Identities (Users and Groups)	✓	✓	✓
Quiz: User Credentials (Passwords, Access Keys, MFA, and Certificates)	✓	✓	✓
Quiz: Identities (Roles - Delegation and Federation)	✓	✓	✓
Quiz: Access Management	✓	✓	✓
Quiz: Troubleshooting	✗	✓	✓
Quiz: AWS IAM FAQs	✓	✓	✓
Section 4: Elastic Compute Cloud (EC2)			
Lecture: Intro	✓	✓	✓
Lecture: Elastic Compute Cloud (EC2) Core Knowledge	✓	✓	✓
Lecture: Hands On - Creating a NodeJS Server on EC2 Linux	✓	✓	✗
Lecture: Hands On - Connect to EC2 using BASH on Windows	✓	✓	✓
Lecture: Hands On - Connecting to EC2 Windows Instances	✓	✓	✗
Lecture: Hands On - Mac OS X connecting to Linux and Windows EC2	✓	✓	✓
Lecture: Hands On - Creating a Custom AMI	✓	✓	✓
Lecture: Hands On - Elastic Block Store (EBS)	✓	✓	✓
Quiz: What Is Amazon EC2?	✓	✓	✓
Quiz: Getting Started with Amazon EC2 Windows Instances	✓	✓	✓
Quiz: Best Practices for Amazon EC2	✓	✓	✓
Quiz: Amazon Machine Images (AMI)	✓	✓	✓
Quiz: Amazon EC2 Instances	✓	✓	✓
Quiz: Instance Lifecycle	✓	✓	✓
Quiz: Storage	✓	✓	✓
Quiz: Resources and Tags	✓	✓	✓

Quiz: Configuring Your Windows Instance	✓	✓	✓
Section 5: Simple Storage Service (S3)			
Lecture: Intro	✓	✓	✓
Lecture: Simple Storage Service (S3) Core Knowledge	✓	✓	✓
Lecture: Hands On - Simple Storage Service (S3) Core Knowledge	✓	✓	✓
Lecture: Hands On - S3 Bucket Policies and ACLs Core Knowledge	✓	✓	✓
Quiz: Introduction to Amazon S3	✓	✓	✓
Quiz: Working with Amazon S3 Buckets	✓	✓	✓
Quiz: Working with Amazon S3 Objects	✓	✓	✓
Quiz: Managing Access Permissions to Your Amazon S3 Resources	✓	✓	✓
Quiz: Protecting Data in Amazon S3	✓	✓	✓
Quiz: Configuring Amazon S3 Event Notifications	✓	✓	✓
Quiz: Performance Optimization	✓	✓	✓
Quiz: AWS S3 FAQ	✓	✓	✓
Section 6: Lab Session - Setting up for NodeJS Development			
Lecture: Intro	✗	✗	✓
Lecture: Part 1 - CDA	✗	✗	✓
Lecture: Part 2 - CDA	✗	✗	✓
Section 7: AWS Command Line Interface (CLI)			
Lecture: Intro	✓	✓	✗
Lecture: AWS Command line Interface (CLI)	✓	✓	✗
Lecture: Hands On - AWS Command Line Interface (CLI)	✓	✓	✗
Quiz: Getting Set Up with the AWS Command Line Interface	✓	✓	✗
Section 8: CloudFront			
Lecture: Intro	✓	✓	✓
Lecture: CloudFront Core Knowledge	✓	✓	✓
Quiz: Getting Started with CloudFront	✓	✓	✓
Quiz: Working with Objects	✓	✓	✓
Quiz: Troubleshooting	✗	✓	✗
Section 8: CloudFront			
Lecture: Intro	✓	✓	✓
Lecture: CloudFront Core Knowledge	✓	✓	✓
Quiz: Getting Started with CloudFront	✓	✓	✓
Quiz: Working with Objects	✓	✓	✓
Section 9: Relational Database Service (RDS)			
Lecture: Intro	✓	✓	✓
Lecture: Relational Database Service (RDS) Core Knowledge	✓	✓	✓
Lecture: Hands On - Relational Database Service (RDS) Core Knowledge	✓	✓	✓
Lecture: Lab Session - RDS PostgreSQL Database Server	✓	✓	✓
Lecture: Lab Session - RDS Oracle Database Server	✓	✓	✓
Lecture: Lab Session - RDS Microsoft SQL Server Database Server	✓	✓	✓
Lecture: Lab Session - Migrating from Oracle to Aurora using AWS Data Migration Service	✓	✓	✓
Quiz: What Is Amazon Relational Database Service (Amazon RDS)?	✓	✓	✓
Quiz: Best Practices for Amazon RDS	✓	✓	✓
Quiz: Amazon RDS DB Instances	✓	✓	✓
Quiz: Storage for Amazon RDS	✓	✓	✓
Quiz: Limits for Amazon RDS	✓	✓	✓
Quiz: Amazon RDS DB Instance Lifecycle	✓	✓	✓
Section 10: DynamoDB			
Lecture: Intro	✓	✓	✓

Lecture: DynamoDB Core Knowledge	✓	✓	✓
Lecture: Hands On - Using DynamoDB	✓	✓	✗
Quiz: What is Amazon DynamoDB?	✓	✓	✓
Quiz: Working with Tables	✓	✓	✓
Quiz: Working with Items	✓	✓	✓
Section 11: Lab Session - Programming DynamoDB with NodeJS			
Lecture: Intro	✗	✗	✓
Lecture: Part 1	✗	✗	✓
Lecture: Part 2	✗	✗	✓
Section 12: Virtual Private Cloud (VPC)			
Lecture: Intro	✓	✓	✓
Lecture: Virtual Private Cloud (VPC) Core Knowledge	✓	✓	✓
Lecture: Hands On - VPC	✓	✓	✓
Quiz: What is Amazon VPC?	✓	✓	✓
Quiz: Your VPC and Subnets	✓	✓	✓
Quiz: Your Default VPC and Subnets	✓	✓	✓
Quiz: Security in Your VPC	✓	✓	✓
Quiz: Networking in Your VPC	✓	✓	✓
Quiz: Adding a Hardware Virtual Private Gateway to Your VPC	✓	✓	✓
Quiz: Dedicated Instances	✓	✓	✓
Quiz: VPC Peering	✓	✓	✓
Quiz: Amazon VPC Limits	✓	✓	✓
Quiz: Amazon VPC FAQs	✓	✓	✓
Section 13: Elastic File Service (EFS)			
Lecture: Elastic File Service (EFS)	✓	✓	✓
Lecture: Hands On - Elastic File Service (EFS)	✓	✓	✓
Section 14: CloudFormation			
Lecture: Intro	✓	✓	✓
Lecture: CloudFormation Core Knowledge	✓	✓	✓
Quiz: What is AWS CloudFormation?	✓	✓	✓
Quiz: Getting Started with AWS CloudFormation	✓	✓	✓
Quiz: AWS CloudFormation FAQs	✓	✓	✓
Section 15: Lab Session - Programming and Deployment using CloudFormation			
Lecture: Intro	✓	✓	✓
Lecture: Part 1	✓	✓	✓
Lecture: Part 2	✓	✓	✓
Section 16: Elastic Beanstalk			
Lecture: Intro	✓	✓	✓
Lecture: Elastic Beanstalk Core Knowledge	✓	✓	✓
Quiz: What Is AWS Elastic Beanstalk?	✓	✓	✓
Quiz: Integrating AWS Services	✓	✓	✓
Section 17: OpsWorks			
Lecture: Intro	✓	✓	✓
Lecture: OpsWorks Core Knowledge	✓	✓	✓
Lecture: Hands On - OpsWorks Core Knowledge	✓	✓	✓
Quiz: What is AWS OpsWorks?	✓	✓	✓
Section 18: Simple Queue Service (SQS)			
Lecture: Intro	✓	✓	✓
Lecture: Simple Queue Service (SQS)	✓	✓	✓

Quiz: What is Amazon Simple Queue Service?	✓	✓	✓
Quiz: How Amazon SQS Queues Work	✓	✓	✓
Quiz: Amazon SQS Long Polling	✓	✓	✓
Quiz: Amazon SQS Delay Queues	✓	✓	✓
Quiz: Using Amazon SQS Dead Letter Queues	✓	✓	✓
Quiz: Monitoring Amazon SQS with CloudWatch	✓	✓	✓
Quiz: Logging Amazon SQS API Calls Using AWS CloudTrail	✓	✓	✓
Quiz: AWS SQS FAQs	✓	✓	✓
Section 19: Simple Workflow Service (SWF)			
Lecture: Intro	✓	✓	✓
Lecture: Simple Workflow Service (SWF)	✓	✓	✓
Quiz: Introduction to Amazon SWF	✓	✓	✓
Quiz: Basic Concepts in Amazon SWF	✓	✓	✓
Quiz: Amazon Simple Workflow Service Resources	✓	✓	✓
Section 20: Simple Notification Service (SNS)			
Lecture: Intro	✓	✓	✓
Lecture: Simple Notification Service (SNS) Core Knowledge	✓	✓	✓
Quiz: What is Amazon SNS?	✓	✓	✓
Quiz: Amazon SNS Mobile Push	✓	✓	✓
Quiz: Sending Messages to Amazon SQS Queues	✓	✓	✓
Quiz: Sending SMS Messages with Amazon SNS	✓	✓	✓
Quiz: Sending Amazon SNS Messages to HTTP/HTTPS Endpoints	✓	✓	✓
Section 21: Lab Session - Programming SQS and SNS with NodeJS			
Lecture: Intro	✗	✗	✓
Lecture: Part 1 - CDA	✗	✗	✓
Lecture: Part 2 - CDA	✗	✗	✓
Section 22: CloudWatch			
Lecture: Intro	✓	✓	✓
Lecture: CloudWatch	✓	✓	✓
Lecture: Hands On - CloudWatch	✓	✓	✗
Quiz: What is Amazon CloudWatch?	✓	✓	✓
Section 23: Big Data Solutions			
Lecture: Intro	✓	✓	✓
Lecture: Big Data Solutions Core Knowledge	✓	✓	✓
Quiz: Big Data Analytics Options on AWS	✓	✓	✓
Section 24: Route 53			
Lecture: Intro	✓	✓	✗
Lecture: Route 53 CSAA / CSOAA	✓	✓	✗
Quiz: What Is Amazon Route 53?	✓	✓	✗
Quiz: Working with Private Hosted Zones	✓	✓	✗
Quiz: Working with Resource Record Sets	✓	✓	✗
Quiz: Health Checks and DNS Failover	✓	✓	✗
Quiz: Amazon Route 53 FAQs	✓	✓	✗
Section 25: Lab Session - Low Latency HTML 5 Websites			
Lecture: Intro	✓	✓	✓
Lecture: Part 1	✓	✓	✓
Lecture: Part 2	✓	✓	✓
Lecture: Part 3	✓	✓	✗
Section 26: API Gateway			
Lecture: Intro	✓	✓	✓

Lab Session 1 - Creating a REST API	✓	✓	✓
Lab Session 2 - Creating a Dynamic Serverless Web App with S3 and API Gateway	✗	✗	✓
Section 27: Deployment			
Lecture: Intro	✓	✓	✓
Lecture: Deployment - Core Knowledge	✓	✓	✓
Lecture: Lab Session - AWS Continuous Integration and Delivery (CI/CD)	✓	✓	✓
Lecture: Lab Session - Integrating CI/CD Build and Test Processes with CodeBuild	✗	✗	✓
Quiz: Deployment	✓	✓	✓
Section 28: Backup & Disaster Recovery			
Lecture: Intro	✓	✓	✓
Lecture: Backup & Recovery	✓	✓	✗
Quiz: Backup & Disaster Recovery	✓	✓	✓
Section 29: Auto Scaling			
Lecture: Intro	✓	✓	✗
Lecture: Auto Scaling	✓	✓	✗
Quiz: What Is Auto Scaling?	✓	✓	✗
Quiz: Scaling your Group	✓	✓	✗
Quiz: Troubleshooting	✗	✓	✗
Section 30: AWS Elastic Load Balancing (ELB)			
Lecture: Intro	✓	✓	✗
Lecture: AWS Elastic Load Balancing (ELB)	✓	✓	✗
Lecture: AWS Application Load Balancers	✓	✓	✗
Lab Session: Application Load Balancers	✓	✓	✗
Lecture: AWS Application Load Balancers	✓	✓	✗
Lab Session: Network Load Balancers	✓	✓	✗
Quiz: What Is Elastic Load Balancing?	✓	✓	✗
Quiz: SSL Negotiation Configurations	✓	✓	✗
Quiz: Monitoring and Logging	✓	✓	✗
Quiz: Troubleshooting	✗	✓	✗
Section 31: Lab Session - Highly Available and Fault Tolerant Architecture			
Lecture: Intro	✓	✓	✓
Lecture: Part 1	✓	✓	✓
Lecture: Part 2	✓	✓	✓
Lecture: Part 3	✓	✓	✓
Lecture: Part 4	✓	✓	✗
Lecture: Part 5	✓	✓	✗
Section 32: ElasticCache			
Lecture: Intro	✓	✓	✓
Lecture: ElasticCache - Core Knowledge	✓	✓	✓
Quiz: Terminology and Concepts - Core Knowledge	✓	✓	✓
Section 33: Lab Session - Using ElasticCache Redis			
Lecture: Intro	✓	✓	✗
Lecture: Part 1	✓	✓	✗
Section 34: Lab Session - Programming ElasticCache with NodeJS			
Lecture: Intro	✗	✗	✓
Lecture: Part 1	✗	✗	✓
Lecture: Part 2	✗	✗	✓

Section 35: CloudTrail			
Lecture: Intro	✓	✓	✗
Lecture: CloudTrail	✓	✓	✗
Section 36: Architecture Design			
Lecture: Intro	✓	✗	✗
Lecture: Architecture Design	✓	✗	✗
Quiz: Architecture Design Patterns	✓	✗	✗
Section 37: Data Security			
Lecture: Intro	✓	✗	✗
Lecture: Data Security	✓	✗	✗
Quiz: Data Security	✓	✗	✗
Section 38: Direct Connect			
Lecture: Intro	✓	✗	✗
Lecture: Direct Connect Solutions Architect	✓	✗	✗
Quiz: Direct Connect	✓	✗	✗
Section 39: Lab Session - AWS JavaScript Browser SDK Applications			
Lecture: Intro	✗	✗	✓
Lecture: Part 1	✗	✗	✓
Lecture: Part 2	✗	✗	✓
Section 40: Lab Session - Programming Lambda with NodeJS			
Lecture: Intro	✗	✗	✓
Lecture: Part 1	✗	✗	✓
Lecture: Part 2	✗	✗	✓
Section 41: Troubleshooting AWS			
Lecture: Troubleshooting EC2	✗	✓	✗
Lecture: Hands on - Troubleshooting EC2	✗	✓	✗
Lecture: Troubleshooting RDS	✗	✓	✗
Lecture: Hands on - Troubleshooting RDS	✗	✓	✗
Quiz: Troubleshooting Instances	✗	✓	✗
Quiz: Troubleshooting Windows Instances	✗	✓	✗
Quiz: Troubleshooting RDS	✗	✓	✗
Section 42: Monitoring AWS			
Lecture: Monitoring EC2	✗	✓	✗
Lab Session: EC2 Monitoring Scripts	✗	✓	✗
Lecture: Monitoring RDS	✗	✓	✗
Lecture: Hands on - Monitoring RDS	✗	✓	✗
Quiz: Monitoring Amazon EC2	✗	✓	✗
Quiz: Monitoring Amazon RDS	✗	✓	✗
Section 43: Practice Exams			
Lecture: Intro	✓	✓	✓
Practice Exam - AWS Certified SysOps Administrator Associate	✗	✓	✗
Practice Exam - AWS Certified Solutions Architect Associate	✓	✗	✗
Practice Exam - AWS Certified Developer Associate	✗	✗	✓