

AWS

SAA-C03



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AWS CLOUD

(SOLUTION ARCHITECT ASSOCIATE)

MODULE 1 - GETTING STARTED WITH AWS

- What is Cloud Computing
- AWS Free Tier Account Creation Process
- Amazon Web Services (AWS) Architecture
- Facts about region and best practices

MODULE 2 - AMAZON ELASTIC COMPUTE CLOUD (AMAZON EC2)

- How to create Windows EC2 Instance
- Web site hosting on Windows EC2 Instance
- How to create Linux EC2 Instance

MODULE 3 - AMAZON S3 - ADVANCE

- Amazon S3 Overview
- S3 Bucket Policy
- Amazon S3 Event Notifications
- Amazon S3 Multipart Upload
- AWS Cloud
- Amazon S3 Encryption - Server Side Encryption using S3 Managed Key
- Amazon S3 Encryption using KMS Keys
- Cross-origin resource sharing (CORS)
- Cross-origin resource sharing (CORS) - Configuration
- MFA Delete
- Server Access Logging
- Amazon S3 Access Point

MODULE 4 - AWS STORAGE EXTRA

- AWS Snow Family
- AWS Snow Family Key Features
- AWS Managed Microsoft AD
- Amazon FSx for Windows File Server
- Amazon FSx for Windows File Server Deployment
- AWS Storage Gateway
- AWS Transfer Family
- AWS Transfer Family Pricing
- WS DataSync
- Data Transfer between AWS Services using DatSync

MODULE 5 - ELASTIC LOAD BALANCER (ELB)

- Elastic Load Balancing
- Deployment of Elastic Load Balancer - Application Load Balancer
- Load Balancer Health Checks
- Load Balancer's Security Group
- Review of Application Load Balancer
- Deregistration delay
- Domain binding with load balancer
- Network Load Balancer
- Cross Zone Load Balancing
- Stickiness

MODULE 6 - AUTO SCALING GROUP (ASG)

- Auto Scaling Overview
- Deployment of Auto Scaling Group
- Automatic Scaling - Scale Out
- Automatic Scaling - Scale In
- EC2 & ELB Health Checks
- Scheduled Actions for scaling in Auto Scaling Group
- Predictive scaling policies
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MODULE 7 - AWS DATABASE SOLUTION

- Relational Database Service (RDS)
- Multi-AZ RDS Deployment
- RDS Connection from Windows
- Amazon Aurora
- Aurora DB Cluster Deployment
- Add reader in Aurora DB Cluster
- Aurora Endpoints
- Parameter Groups
- Create Cross-Region Read Replica
- Aurora Auto Scaling
- Amazon Aurora - Restore, Backtracking & Clone
- Delete Aurora DB Cluster
- Amazon ElastiCache Overview
- Deployment of Redis Cluster - Cluster mode disabled
- Review of Cluster Mode Disabled Replication
- Deployment of Redis Cluster - Cluster mode Enabled
- Memcached Cluster Overview & Deployment
- Memcached Cluster's Information Review

MODULE 8 - AMAZON DYNAMODB

- Amazon DynamoDB Overview
- DynamobDB Partition Key
- DynamoDB Table's Custom Settings
- Dynamo DB Table - Primary Key & TTL
- Amazon DynamoDB Backup
- Dynamo DB Global Table
- DynamobDB Exports & Streams
- Amazon DynamoDB Accelerator (DAX)
- DAX Cluster Overview
- DAX Cluster - Step by Step Deployment
- Global Secondary Indexes
- AWS Cloud
- Master in Fullstack Network Engineer
- See AWS Cloud

MODULE 9 - AWS MONITORING

- What is Cloud Watch Overview
- Cloud Watch Custom Metrix creation
- Collect metrics and logs through Cloud Watch agent
- Log Groups & Log Insights
- Alarm
- Events
- Instance Status Check
- Log Integration with Cloud Watch Log Group
- What is CloudTrail
- What is Trails and how to create Trails
- How to stop logging, update & delete trail
- CloudTrail Lake

MODULE 10 - AWS EVENT BRIDGE

- Amazon EventBridge
- How to create Event Bus and Rule
- How to create EventBridge rule for CloudTrail API calls
- How to create Archive in EventBridge

MODULE 11 - APPLICATION DECOUPLING

- Simple Queue Service (SQS)
- SQS Based Case scenario
- How to create Standard SQS Queue
- Key Points related to Standard SQS Queue
- SQS Queue Visibility Timeout
- SQS FIFO Queue
- Long Polling Vs Short Polling
- Delivery Delay
- Dead-letter queues (DLQ)
- Simple Notification Service (Amazon SNS)
- How to create SNS Topic and Add subscriptions
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MODULE 12 - AMAZON KINESIS

- Amazon Kinesis Data Streams Overview
- Kinesis Data Streams - Technical Terminology
- How to create Kinesis Data Streams & provision Shards
- Amazon Kinesis Data Firehose
- Case scenario for Delivery Stream deployment using Kinesis Data Firehose
- Kinesis Data Firehose - Implementation
- Kinesis Data Stream Vs Kinesis Data Firehose

MODULE 13 - CONTAINER ON AWS

- Amazon Elastic Container Service (Amazon ECS)
- Create ECS Cluster and Task
- Create service for cluster to run task
- Amazon Elastic Container Registry (ECR)
- Deploy image in container from ECR Repository using ECS
- What is Kubernetes and why we need it - Overview
- Kubernetes Cluster Architecture
- Provision an EKS Cluster
- Deploy compute for EKS Cluster
- Connect to EKS Cluster using Kubectl tool
- AWS App Runner
- AWS App Runner Deployment

MODULE 14 - IAM & AWS CLI

- Multi-Factor Authentication (MFA)
- Identity and Access Management (IAM)
- IAM Policy Creation - Using JSON
- AWS Policy Generator
- IAM Role
- AWS CLI Installation on Windows
- AWS CLI Installation on Linux
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MODULE 15 - IDENTITY AND ACCESS MANAGEMENT (IAM) - ADVANCED

- AWS Organization
- Add Account in AWS Organization
- Conditions in IAM Policy
- IAM Permission Boundaries
- Policy Evaluation Logic
- IAM Identity Center
- Configuration of IAM Identity Center
- AWS Config - Monitor EC2 Instance for Blacklisted App
- Record configuration change & compliance of security group using AWS Config

MODULE 16 - APPLICATION PROGRAMMING INTERFACE (API)

- What is API
- AWS API Gateway
- How to create API and Methods
- API Cache & Method Throttling

MODULE 17 - DATA & ANALYTICS

- Amazon Athena Overview & Deployment
- Review of Amazon Athena
- Amazon Redshift Overview
- Amazon Redshift Cluster Architecture
- Deployment of Redshift Cluster
- Create Tables in Redshift cluster DB and load data from S3 bucket
- Loading Data in table from Source
- Amazon Redshift Serverless
- Amazon QuickSight
- AWS Glue, AWS Glue Jobs, AWS Glue Triggers
- AWS Lake Formation

- Create Workflow using Blueprint to ingest data in Data Lake
- Master in Fullstack Network Engineer
- AWS Cloud

MODULE 18 - AWS SECURITY AND ENCRYPTION

- AWS Managed Keys
- Customer Managed Keys
- Multi-Region KMS Keys
- Create KMS Key using External Key Material Origin
- Generate Data Key to encrypt-decrypt
- Review Information of Multi-Region Keys

MODULE 19 - DISASTER RECOVERY & MIGRATION

- AWS Elastic Disaster Recovery - Configure & Initialize
- Installation of AWS Replication Agent in Source Server
- Initiate Recovery Job in Disaster

MODULE 20 - SERVERLESS

- Services based on Serverless Architecture
- AWS Lambda Function - Intro & demo
- Lambda Function - How it works
- Upload Lambda Function Logs inside Cloud Watch using IAM Role Permissions
- Lambda Function's Settings
- Configure S3 bucket and DynamoDB with Lambda Function

MODULE 21 - NETWORKING

- Virtual Private Cloud (VPC)
- AWS NAT Gateways
- IP Address
- VPC Peering
- Network Interface



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new possibilities.



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