



AWS Certified Solutions Architect (SAA-C02)

The AWS logo is displayed in white lowercase letters against a dark blue background. The background features a stylized circuit board pattern with glowing blue lines and nodes. A large, thick orange arrow, characteristic of the Amazon logo, curves from the bottom left towards the bottom right, passing behind the text.

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Introduction to Cloud Computing

- What is Cloud
- Why Cloud?
- Types of Cloud Deployment Models
- Types of Cloud Services
- Future of Cloud Technologies
- Advantages and Disadvantages of Cloud

Introduction to Amazon Web Services (AWS)

- What is AWS?
- How to Subscribe for AWS account
- What is the AWS Free Usage Tier
- AWS Certification
- Introduction to the AWS management Console
- List of services given by AWS



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Compute Services:

Elastic compute Cloud (EC2)

- What is Amazon EC2
- Features of Amazon EC2
- Managing the EC2 infrastructure
- EC2 Dashboard
- Pricing for Amazon EC2

Regions and Availability Zone Concepts

- Describing Regions
- Availability ion EIS, and Endpoints
- Managing instances in an Availability Zone

Amazon Machine Image (AMI)

- Managing AMIs
- Working with Windows, Linux AMIs.
- Shared and Paid AMP
- Making an AMI Public

EC2 Instances

- Instance Type
- Instance life cycle
- Differences between reboot, slop, and terminate
- Building an EC2 windows and linux instances
- To install instance in public and private subnet
- Security via Key Pairs
- EC2 Class and VPC Security Groups
- Managing Elastic IP's

- Pricing model in EC2 instances
 - EC2 with Amazon command line interface
-

Amazon Elastic Block Store (EBS)

- Features of Amazon EBS
- Amazon EBS volumes
- Managing EBS volumes
- Increasing the volume size
- Amazon EBS snapshots

Load Balancing

- Creating a load balancer
- Internal and external load balancer
- Load balancing protocols
- Security groups for the load balancer
- Health check for the load balancer
- Cross-zone load balancing
- Connection Draining

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Scaling and Managing Applications in AWS

Auto Scaling

- What is auto scaling?
- Auto scaling components
- Benefits of auto scaling
- Creation of launch configuration
- Configuration of auto scaling policies
- Advantages of using auto scaling with ELB

Network & Security

- Security Groups
- Elastic IPs
- Key Pairs
- Network Interfaces

Elastic Beanstalk

- Deploy, manage, scale on application
- How management complexity are reduced
- Workflow of Elastic Beanstalk
- Create Application
- Launch Environment
- Manage Environment
- Modifying the properties of the deployment

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Networking Services:

Amazon Virtual Private Cloud (VPC)

- What is Amazon VPC
- VPC Essentials
- Default and Non default VPC
- VPC Networking and ACL
- Security Groups
- DNS and DHCP Options Sets
- VPC Peering and Endpoints
- Sub net Routing
- VPC Internet Gateway
- Elastic IP addresses and network interfaces
- VPC integration with many other AWS services
- Creating a NAT instance in a VPC
- Configuring a Web application in VPC

Amazon Route 52

- Route 53 as your DNS service
- Using Traffic Flow
- Route 53 Health Checks
- Configuring DNS. Failover
- Latency Based Routing
- Weighted Routing Policies

Cloud Front:

Storage & Content Delivery Services Amazon S3

- What is object Storage?
- Data as objects
- Lifecycles Of S3
- Managing Buckets
- Accessing S3 storage via tools
- Creation of a static website using S3 storage

Amazon Glacier

- Low-cost storage service
- Storage for data backup and archival
- Pricing model for Glacier storage
- Working with vaults and archives

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Database Services:

Relational Database Service (RDS)

- RDS Essentials
- Launching RDS Instance
- selecting the Engine
- Configuring the Database Engine
- Managing RDS Database
- Setting up automatic backups
- Authorizing access to the DB

Dynamo DB (NoSQL Service)

- DynamoDB overview
- What is NoSQL database? .
- How It Works
- Using the DynamoDB Console
- Creating tables and Loading Sample Data
- Query and Scan Operations in DynamoDB

Management Tools:

Amazon CloudWatch

- Amazon CloudWatch Architecture
- List of services monitored by CloudWatch
- Collect and track metrics
- Monitoring memory and disk Metrics
- Monitoring logs., Graphs
- Set Alarms

Cloud Formation

- Building AWS infrastructure as a code
- Design a template
- Create a Stack
- Create a Template from your Existing Resources

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Cloud Trail:

Amazon Simple Email Service (SES)

- Simple email service overview
- Configuring Amazon email service
- Amazon SES and Deliverability
- Amazon SES Email- Sending Process
- Email format and Limits of SES

Amazon Simple Queue Service (SQS)

- Simple Queue service overview
- SQS for background work task
- Creating a Queue
- Confirming the Queue exists
- Add a permission to the Queue

Amazon Simple Notification Service (SNS)

- Simple notification service overview
- Publishers and subscribers



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