

AMAZON WEB SERVICES (AWS)

Course Duration: 40 hrs

AWS CERTIFICATION PATH

ASSOCIATE LEVEL

AWS Certified Solutions Architect - Associate
AWS Certified Developer - Associate
AWS Certified SysOps Administrator - Associate

PROFESSIONAL LEVEL

AWS Certified Solutions Architect - Professional
AWS Certified DevOps Engineer - Professional

NB : covering topics for AWS Certified Solutions Architect - Associate and Professional

AWS TRAINING SYLLABUS

Introduction to cloud computing

- Introduction to Virtualization
- Private, Public and Hybrid cloud
- IaaS, PaaS, SaaS
- Why Cloud Computing?
- Benefits of Cloud Computing

Introduction to AWS

- Introduction to the AWS Product
- Regions and Availability Zones
- Navigate the AWS Management Console
- Recognize AWS Global Infrastructure
- Describe the security measures AWS provides

Elastic Compute Cloud Essentials

- Amazon Machine Images (AMI)
- Setting up security
- Key pairs & Access keys

Compute Services & Networking

- Identify the different AWS compute and networking options

- Describe an Amazon Virtual Private Cloud (VPC)
- Subnet, Nat Servers and Jump Servers
- On-demand, Spot, Reserved instances
- Create an Amazon EC2 instance
- Connect to the Amazon EC2 instance using key pairs

AWS Storage & Content Delivery

- Identify key AWS storage options
- Describe Amazon EBS
- Creating an Elastic Block Store Volume
- Adding an EBS Volume to an Instance
- Snapshotting an EBS Volume and Increasing Performance
- Create an Amazon S3 bucket and manage associated objects

Database Solutions on AWS

- Describe Amazon DynamoDB
- Verify key aspects of Amazon RDS
- Execute an Amazon RDS drive application

Deployment and Management

- Identify AWS CloudFormation
- Describe Amazon CloudWatch metrics and alarms
- Describe Amazon Identity and Access Management (IAM)

AWS DNS service

- Introduction to Route53
- Route53 Configuration and Troubleshooting
- Amazon Route 53 Health Check
- Amazon Route 53 Failover
- Configure a DNS Failover to an Amazon S3 static website

AWS Load Balancing Service

- Introduction Elastic Load Balancer
- Creating and Verifying Elastic Load Balancer

AWS LAMDA

- Introduction to AWS Lambda
- Distributed Environments
- Handling S3 Events using the AWS Lambda Console
- Monitor Lambda S3 functions through Amazon CloudWatch

Infrastructure as Code Assignments

Content Delivery Web Service

Introduction to Amazon CloudFront
Creating an Amazon CloudFront Web Distribution

AWS Simple Monthly Calculator

Introduction to Amazon Simple Monthly Calculator
Spot, Reserved, Utilization Based Estimate
Reviewing Large Scale Design Patterns
Designing for Cost
Assignments

Other AWS Services

Cloud Config, Cloud Trail, Code Deploy, Docker
Introduction to devops tools
Ansible, Jenkins, Github
Auto Scaling
Demonstration of a complete Project
Project/Assignments
Doubts and Question/Answers session.

Prerequisite : Basic Linux knowledge