

# Cloud Computing – Amazon Web Services (A W S)



## The Course

AWS is the most popular and most widely used cloud platform in the world. This course, AWS Training is designed to prepare administrators, engineers, architects, and consultants for designing workload deployments on the Amazon Web Services platform. This course will teach you design principles, including strategies for Compute, Networking, Storage, DNS, RDS, monitoring, Serverless computing, load balancing and much more. When you're finished with this course, you'll have the skills and knowledge needed to securely design highly available and scalable systems, and you'll also be highly prepared for the AWS Certifications.

## The Eligibility

Passionate Technology Enthusiasts with a minimal knowledge on IT and Operating Systems.

Good to have basic knowledge on Windows, OS & IT Infrastructure.

## The Rulepaper Promise

Our training methodologies promises to give the students hands on art enterprise skills to delve deeper into the technologies from a practical and enterprise point of view. Extreme Hands-on-Lab with a self doable on the fly practical based training approaches makes transformation of the student from a no vice to a capable experienced cloud computing engineer.



## The Instructor

Enterprise Architect with huge experience on Private and Public Cloud Technologies. The trainers are advisors and members of larger Cloud Computing Forums and seasoned integrators of IT Cloud Computing technologies with more than 12+ years in global large enterprise giants.



# Course Contents

## Module 1

### Datacenter Foundations

In this module you will understand the foundations of Compute, Storage and Network with their contribution to transformation of IT.

- Transformation of IT
- Storage, Compute and Network
- Linux Foundations & Command Line Interface

## Module 2

### Virtualization – Stepping Stone to Cloud Computing

In this module you will learn about virtualization concepts which is foundation stone of Cloud Computing.

- Virtualization - Types, Concepts and Usage
- Virtualization Vendors
- Hypervisors
- VM Templates
- Scenario Learning through VMware case study

## Module 3

### Cloud Computing Foundations

In this module you will learn about foundations of Cloud Computing

- Cloud Computing - Overview
- NIST definition of Cloud
- Deployment & Service models of Cloud Computing
- Private, Public, Hybrid and Community Cloud
- Overview of Cloud Vendors

## Module 4

### AWS Cloud – Introduction to Services

In this, you will understand overview of AWS cloud, types of AWS cloud services, cloud models, features of cloud, different cloud vendors

Topics

- Why to choose AWS?
- AWS Architecture
- Who is using AWS/Customers
- Creating an AWS Account
- Opportunities in Cloud / Market

## Module 5

### AWS Fundamentals

In this module, you will understand the list of AWS services, overview on the each service and its usage along with examples/use cases.

Topics

- Compute Service
- Storage Service
- Database Service
- Content Delivery Service
- Network Service
- Application Service
- Deploy & Management Service



# Course Contents

## Module 5

### Identity and Access Management

In this module you will understand the usage of IAM service.

- IAM Overview
- Users, Groups, Policies, Roles
- Deep Dive on Policies

## Module 6

### EC2-EBS-EFS

In this module you will learn about EC2,EBS and EFS Service in AWS

- EC2, Creating and Managing EC2 Instance
- Snapshot and AMI
- EBS and Snapshot
- EFS
- AWS Command Line Interface

## Module 7

### LoadBalancing(ELB)-Autoscaling

In this module you will learn about Elastic Loadbalancer and Autoscaling services

- ELB
- Application ELB & Network ELB
- Autoscaling

## Module 8

### Storage Services

In this, you will understand different storage services provided by AWS

- S3
- Create an S3 Bucket
- Version Control
- Lifecycle Management & Glacier
- CloudFront
- Transfer Acceleration
- S3 - Security
- Storage Gateway
- Snowball

## Module 9

### Route 53

In this module, you will understand the DNS services by ROUTE 53

- DNS Mapping
- Route 53 Policies
- Private and Public Hosted Zones
- Route 53 Availability
- Traffic Flow



# Course Contents

## Module 10

### VPC – Virtual Private Cloud

In this module you will understand the VPC Service and configuring it.

- VPC Regions and Availability Zones
- Connectivity Options
- Firewall and Security
- Security Group and Access Control Lists
- NAT
- Direct Connect
- Routing Priority
- IPV6 on VPC
- VPC Peering

## Module 11

### CloudWatch – Monitoring Service in Cloud

In this module you will learn about CloudWatch service

- Creating Cloud Watch Alarms
- Installing and Configuring Monitoring Scripts for Amazon EC2 Instances
- Elastic Compute Cloud(EC2) Instance and System Status Checks
- Monitoring EBS
- Monitoring RDS
- Monitoring ELB
- Events

## Module 12

### Database on Cloud

In this, you will understand different database services in AWS

- RDS
- High Availability RDS
- Snapshots and Read Replicas
- Dynamo DB – NoSQL Database
- Columnar Databases
- Difference between both SQL and NoSQL Database as a service provide by AWS

## Module 13

### AWS Simple Queue Service

In this module, you will understand the message queuing service in AWS

- Standard Queue
- FIFO Queue
- Polling
- Console and Command Line Access to Queue
- Dead Letter Queues
- Monitoring



# Course Contents

## Module 14

### AWS Simple Notification Service

In this module you will understand the AWS SNS.

- SNS
- Usage
- Delivery and Tracking
- CloudWatch Log Delivery
- SNS and SQS Integration
- Topic Subscription via Email and SMS

## Module 15

### CloudWatch – Monitoring Service in Cloud

In this module you will learn about CloudWatch service

- Creating Cloud Watch Alarms
- Installing and Configuring Monitoring Scripts for Amazon EC2 Instances
- Elastic Compute Cloud(EC2) Instance and System Status Checks
- Monitoring EBS
- Monitoring RDS
- Monitoring ELB
- Events

## Module 16

### AWS EC2 Container Service ECS

In this, you will understand containers with AWS

- ECS and Docker
- Container Orchestration
- ECS Architecture
- ECS Cluster Setup

## Module 17

### AWS Other Services

In this module, you will understand the primer for other services in AWS

- Cloudformation Templates
- AWS Kinesis
- AWS SES
- AWS Lambda

## Module 18

### Disaster Recovery, Whitepapers,Certification &Resume Preparation

In this module, you will understand the DR strategy

- DR Strategy
- Whitepapers
- Certification Preparation
- Resume and Interview Preparation



## The Duration

Duration of the Course is 40 hours.

## The Lab Requirements

Students must bring their own laptops with basic configuration

## The cost of the Training

Please send an email or contact us at [enquiry@rulepaper.com](mailto:enquiry@rulepaper.com) to know more about the cost and next batch schedules.

## The certifications

Once the training is completed the student have to enroll with AWS for getting certification and the cost is exclusive of this training . Certification is an optional or good to have feature.

