



amazon web services training

Course Fee: 4,500/-*
Batch starts on 15th & 30th
of Every Month

Cloud hosted web sites and applications are the future of Information Technology. Amazon Web Services (AWS) is a secure cloud services platform, offering compute power, database storage, content delivery, highly reliable, scalable, low-cost pay-for-what-you-use infrastructure platform on the cloud. AWS powers hundreds of thousands of businesses around the world and offers other function-

ality to help businesses scale and grow.

As Cloud Computing has become very popular, there is a great demand for System and Cloud Administrators with AWS skills.

This course is taught by industry experts with several years of experience.

ZOOM
TECHNOLOGIES

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- Introduction to Cloud Computing
- Introduction to Amazon Web Services (AWS)
- Compute Services (EC2, AMI Etc.)
- EC2 Instances
- Amazon Elastic Block Store (EBS)

- LOAD BALANCING & Auto Scaling
- Network & Security
- Elastic Beanstalk, Amazon Virtual Private Cloud (VPC)
- Amazon Route 53
- Security & Identity Services, IAM

- Storage & Content Delivery Services, Amazon S3 & Amazon Glacier
- Database Services (RDS, NoSQL Service)
- Management Tools (Amazon Cloud watch, Cloud Formation)
- Application Services (SES, SQS, SNS)

Course Content

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

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 Zones, and Endpoints
- ▶ Managing instances in an Availability Zone

Amazon Machine Images (AMI)

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

EC2 Instances

- ▶ Instance Type
- ▶ Instance life cycle
- ▶ Differences between reboot, stop, 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
- ▶ AmazonEBS 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

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
- ▶ Placement Groups
- ▶ Key Pairs
- ▶ Network Interfaces

Elastic Beanstalk

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

Networking Services

Amazon Virtual Private Cloud (VPC)

- ▶ What is Amazon VPC?
- ▶ VPC Essentials
- ▶ Default and Nondefault VPC
- ▶ VPC Networking and ACL
- ▶ Security Groups
- ▶ DNS and DHCP Options Sets
- ▶ VPC Peering and Endpoints
- ▶ Subnet 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
- ▶ Pricing for Amazon VPC

Amazon Route 53

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

Security & Identity Services

Identity Access Management (IAM)

- ▶ IAM Features
- ▶ Getting Started With IAM
- ▶ Creation of user, groups, roles
- ▶ Managing policies
- ▶ Credential Report
- ▶ IAM Console and the Sign-in Page

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

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

DynamoDB (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
- ▶ Introduction to JSON

Application Services

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
- ▶ SNS architecture
- ▶ Publishers and subscribers
- ▶ Creation of a topic
- ▶ Subscribing to topic via Email
- ▶ Setting notification for EC2 instance changes