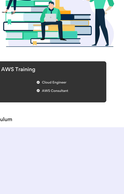
AWS Course



AWS Training in Online

- AWS Classroom and Online training.
- Real time projects, Interviews and Job Support
- Get trained by industry experts

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Job Roles After AWS Training

- Infrastructure Engineer
- AWS Engineer
- AWS Architect
- Cloud Architect
- Cloud Engineer
- AWS Consultant

Curriculum

AWS Overview

- Fundamentals of Datacenter
- Fundamentals of Servers
- Fundamentals of Cloud Computing
- Cloud Providers - AWS vs AZURE vs GCP
- Lean Out Of Applications On Cloud
- AWS – Cloud Terminologies
- AWS – Security
- AWS – High Availability
- AWS – Fault Tolerance
- AWS – Scalability
- Walk through AWS Free Tier Account
- AWS Management Console
- Cloud Offerings - IAAS vs PAAS vs SAAS
- IAAS - Infrastructure As A Service
- PAAS – Platform As A Service
- SAAS – Software As A Service

Operating system & Linux basics

- Introduction to Linux OS
- Linux Hierarchy
- Linux Architecture
- Understanding Command Line Interface – CLI
- Understanding Linux File System
- Using Text Editor GUI
- File & Directory Management
- Archive Files Using tar and zip utilities
- Package Management
- User Management
- File Permissions

Application components

- Installing and Configuring Apache HTTP Server
- Deploying Frontend Application, Using Apache HTTP Server
- High Availability Concepts For Production Scenario
- Load Balancing with AWS Classic Load Balancer
- PHP Setup For Deploying Backend Tier
- Creation of RDS instances on AWS for application stack
- Understand the architecture of an application
- Integration of Web, Application and Database to work as a stack
- Setting Up Web Application – Presentation + Business + Data

AWS global Infrastructure

- AWS Global Footprint
- Overview of AWS Services
- AWS Regions
- AWS Availability Zones
- AWS Edge Locations

Amazon Virtual Private Cloud - VPC

- Networking Layer
- Traditional Networking Components
- Logical Data Centers
- Understanding Requirements From Client
- Amazon VPC Features & Benefits
- Amazon VPC Components Overview
- Networking Basics - Protocol – Port – Firewall
- Understanding Default VPC
- Designing Custom VPC – Client Requirement
- VPC Routing Basics
- AWS Internet Gateway
- VPC Subnetting
- VPC Public Subnets
- VPC Private Subnets
- VPC Route Tables
- VPC NACL's
- VPC Security Groups

Hands on

- Creating Custom VPC
- Creating Subnets
- Creating Internet Gateways
- Creating Route Tables
- Creating Security Group
- Creating Network ACL

Amazon Elastic Compute Cloud - EC2

- Fundamentals of Virtualization
- Desktops vs Servers
- Amazon EC2 Features
- Amazon EC2 Components
- Amazon EC2 Instance Types
- Amazon EC2 Purchase Options
- Amazon Machine Images (AMI)
- EC2 IP Address Types Private vs Public vs Elastic
- Amazon EC2 Userdata
- Amazon EC2 Metadata

Hands on

- Launch and Connect to an EC2 instance
- Work with SSH Key Pairs
- SSH Softwares – GitBash & Putty & Terminal
- Deploying Web Application On EC2 Instance
- Setup Elastic IP For EC2 Instance
- Deploying Web Application Using Userdata
- Fetching Metadata for Dynamic Scripts
- Design Dynamic Scripts Using Userdata & Metadata

Amazon Elastic Block Storage - EBS

- Amazon EBS Features
- EBS ROOT Volume
- EBS ADDITIONAL Volume
- EBS Volume Types
- EBS Volumes Limitations
- EBS Volume Backups - SNAPSHOTS
- Disaster Recovery with SNAPSHOTS
- Custom Amazon Machine Images

Amazon Elastic File System - EFS

- Shared File Systems – NFS
- Amazon EFS Features
- EFS Fully Managed
- EFS Use Cases
- EFS Storage Classes
- EFS Mount Points
- EBS vs EFS

Amazon Simple Storage Service - S3

- Online Data Storage
- Amazon S3 Features
- EBS vs EFS vs S3
- Use Case – What Storage To Opt – Client Req
- Amazon S3 Buckets
- Amazon S3 Objects
- Amazon S3 Access ACL's
- Amazon S3 Access Bucket Policy
- Amazon S3 Storage Classes
- Amazon S3 Lifecycle Policy
- Amazon S3 Versioning
- Amazon S3 Web Hosting

Identity and Access Management - IAM

- Account & Services Layer
- IAM Overview
- Root User vs IAM User
- IAM Access Keys
- IAM Policies
- IAM Groups
- IAM Roles

Hands on

- Creating an IAM User
- Creating an IAM Group
- Creating an IAM Policy
- Creating an IAM Role

AWS Command Line Interface - CLI

- Graphical Interface vs Command Line Interface
- AWS CLI Features
- AWS CLI Configurations
- Understanding CLI Reference

Hands on

- AWS CLI on Amazon Linux
- Install AWS CLI on CentOS
- Configure AWS CLI
- Using Multiple CLI profiles
- Creating a Custom VPC Using AWS CLI

Infrastructure As Code - Cloud Formation

- Graphical or Command Line Interface vs Code
- Infrastructure Challenges
- Infrastructure As Code – IaC
- AWS Cloud Formation Features
- AWS Cloud Formation Templates
- AWS CloudFormation vs Terraform

Hands on

- Cloud formation Templates JSON
- Cloud formation Templates YAML
- Creating a Custom VPC Using Cloud formation
- Configure Reusable Infrastructure Using Cloud formation

Advanced VPC Techniques - Security

- VPC Peering
- Bastion Hosts
- Nat Gateway

Hands on

- VPC Peering
- Bastion Hosts
- Nat Gateway

Relational Database Service - RDS

- Fundamentals of Virtualization
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Elastic Beanstalk

- Elastic Beanstalk Features
- Server Setup – PAAS
- Apache Tomcat Use Case

Hands on

- Create Beanstalk Environment – Tomcat
- Deploying Java Web Application
- Connecting Web Application to RDS Instance
- Checking High Availability & Fault Tolerance

Cloudwatch Monitoring Tool

- Simple Notification Service – SNS
- SNS Topics
- SNS Subscriptions
- SNS Publishers
- Monitoring – Cloud watch
- Cloud watch Dashboards
- Cloud watch Alarms

Hands on

- Create SNS Topic
- Create SNS Subscriptions
- Publish Messages Using SNS
- Create Cloud watch Dashboard
- Create Cloud watch Alarm
- Configure Email For High CPU Usage
- Take EC2 Action Using – Cloud Watch

Fault Tolerance

- Introduction to Fault Tolerance
- Introduction to Scalability
- Launch Configurations
- Auto Scaling Groups

Hands on

- Create Launch Configurations
- Create Auto Scaling Group
- Creating Update Policy
- Creating Down Scale Policy
- Attach Load Balancer to Auto Scaling

Route 53

- Route 53

Final Project - Hosting a Java and PHP application in AWS cloud

- Final Project – Hosting a Java and PHP application in AWS cloud

Resume Preparation and Interview tips

- Resume Preparation and Interview tips

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FAQ

Who should take this course?

What are the prerequisites for the AWS Course?

When are the classes conducted?

What is the duration of the Course?

What is the duration of the class?

What is the course curriculum?

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