

AWS

Overview: **Amazon** Web Services offers a broad set of global cloud-based products including compute, storage, databases, analytics, networking, mobile, developer tools, management tools, IoT, security, and enterprise applications: on-demand, available in seconds, with pay-as-you-go pricing. From data warehousing to deployment tools, directories to content delivery, over 200 AWS services are available.

New services can be provisioned quickly, without the upfront fixed expense. This allows enterprises, start-ups, small and medium-sized businesses, and customers in the public sector to access the building blocks they need to respond quickly to changing business requirements. This whitepaper provides you with an overview of the benefits of the **AWS** Cloud and introduces you to the services that make up the platform.

Course Objectives

- Understand the AWS and services
- What Is Cloud Computing & Advantages of Cloud Computing
- AWS Elastic Compute Cloud- AWS EC2
- AWS Storage Fundamentals
- AWS Simple Storage Service (S3)
- Amazon IAM (Identity and Access Management)
- Database Fundamentals for AWS

Module 1: - Introduction to Cloud Computing & AWS Preview

- ❖ Introduction to cloud Computing
- ❖ Cloud Services and Deployment Models
- ❖ What is AWS?
- ❖ AWS service Domains
- ❖ AWS Suite
- ❖ Starting off with AWS
- ❖ Virtualization in AWS
- ❖ Computing and AWS - Quiz

Module 2: - Introduction to EC2, EBS and EFS

- ❖ Introduction to EC2, EBS and EFS
- ❖ Launching EC2 instance
- ❖ What is an AMI?

Module 3: - Elastic Load Balancer

- ❖ Introduction to EC2, EBS and EFS
- ❖ Launching EC2 instance

- ❖ What is an AMI?

Module 4: - Virtual Private Cloud

- ❖ VPC

Module 5: - Simple Storage Service (S3)

- ❖ ELB, Auto Scaling, Route-53

Module 6: - Database and In Memory Data Stores

- ❖ Database Services (RDS)

Module 7: - Management and Application Services

- ❖ CF
- ❖ FNS
- ❖ SES
- ❖ SQS

Module 8: - Access Management and Monitoring Services

- ❖ IAM
- ❖ Cloud Watch

Module 9: - Automation and Configuration Management

- ❖ Lamda
- ❖ Beanstalk

Module 10: - FSX organizations, GA, ENI, & EFi

Module 11: - AWS Migration

Module 12: - AWS Projects

Module 16: - Exception Handling

- ❖ Handling Exception
- ❖ Try catch block
- ❖ Finally block

Module 17: - Database Connection

- ❖ Create database with MYSQL
- ❖ Create tables
- ❖ Select, Insert and Delete data

At the end of the course participants will be able to do some assignments

- ❖ DEMO WEB APPLICATION (SHOPTING CART)