

# Amazon Web Services Training Course Content

## PART 1: Introduction to Cloud Computing

### Basics of cloud computing

- ✚ Basics of cloud computing
- ✚ Modules in cloud
- ✚ Cloud architecture

### Overview of Amazon Cloud

- ✚ Introduction to Amazon cloud
- ✚ Creating accounts and analysis of cost breakdowns

## PART 2: SLA Evaluation

- ✚ Command line tool, API and Console
- ✚ Basics of Amazon EC2

## PART 3: Architecture

- ✚ Amazon EC2,EBS,S3,Beanstalk
- ✚ RDS,CloudFront,VPC
- ✚ Simple Database and Cloudwatch
- ✚ SQS

## PART 4: Infrastructure Management & Provisional Resources

- ✚ Amazon Machine Images and Browsing with the Amazon classes.
- ✚ Specifying key pairs and security groups
- ✚ EBS - Evaluating Elastic Blocking Store and instance stores root device.
- ✚ Assigning the elastic IP address.
- ✚ Mapping of different types to the computing needs

## PART 5: Focusing on Data storage and Durability

### Storage of Data in Cloud

- ✚ Transmitting data in/out of the Amazon cloud
- ✚ Creating backups with snapshots
- ✚ Achieving off-instance storage with EBS volumes
- ✚ High durability with Simple Storage Service
- ✚ Simplification of Database Structure
- ✚ It implement a relational database with Database
- ✚ Achieving high availability of non relational data with the Simple Database

## PART 6: Creation of Distributed solutions and AWS Cloud Architecture

- ✚ Leveraging Cloud Front
- ✚ Decoupling applications with the Simple Queuing Service
- ✚ Delivering static and streaming content
- ✚ Choosing a cloud setup for different use case scenarios
- ✚ Applying best practices for a cloud solution

## **PART 7: Customizing the Virtual Machine**

- ✚ Producing new images off of running instances
- ✚ Modifying existing images
- ✚ Modifying an instance store AMI to an EBS

## **PART 8: Handling the Dynamic Resource Optimization**

- ✚ Observing from both sides of the Cloud
- ✚ Fixing alarms to send and receive notifications
- ✚ Visualizing utilization metrics with CloudWatch

## **PART 9: Load Variations in WS**

- ✚ Distributing the traffic flow by the elastic matching of load
- ✚ Dynamically adding & avoiding instances with the Automatic
- ✚ Setting capacity thresholds.
- ✚ Improving Application Delivery
- ✚ Deploying scalable application on the clouds
- ✚ Selecting & launching the required environment
- ✚ Managing the Application Environment
- ✚ Customizing and configuring platform stack.
- ✚ Provisioning the application resource with the Cloud Formation.

## **PART 10: AWS Security Features**

- ✚ Configuring access of the credentials.
- ✚ Managing users with (IAM)
- ✚ API and Amazon Supporting Tools
- ✚ AWS command line Application programming Interface
- ✚ S3 Browser
- ✚ Elastic fox