



# AWS Online Training

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Demo video By Chandra sir

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Chandra sir Class 01

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## Content:

### Introduction to Cloud Computing

- Introduction to Cloud Computing
- Why Cloud Computing?
- Benefits of Cloud Computing

### Types of Cloud Computing

- Public Cloud
- Private Cloud
- Hybrid Cloud
- Community Cloud
- Infrastructure as a Service
- Software as a Service
- Platform as a Service

### Cloud Computing Issues

- Security
- Costing Model
- Service Level Agreement (SLA)
- Cloud Interoperability Issue
- What to migrate?
- Legal and compliance

### Virtualization

- What is virtualization?
- Virtualization and cloud computing

- Types of virtualization
- Virtualization terminologies
- Hypervisor
- Benefits
- Vendors

## **Amazon Web Services (AWS)**

### **Introduction to AWS**

- Elastic computing
- Introduction to the AWS products
- Regions and Availability Zones
- Signing up for AWS
- AWS Free usage tier
- Introduction AWS management console

### **EC2 Instances**

- Understanding AMI
- Launching your first AWS instance
- On-demand Instance pricing
- Reserved Instance pricing
- Spot instance pricing
- Setting up security
- Security groups
- Choosing the AMI
- Creating a new AMI
- IP Addressing Scheme

- Public and Private IP's
- Deploying a new instance from the created AMI
- AMI Migration
- Key Pairs
- Elastic IP's

### **ELB (Elastic Load Balancer)**

- Introduction to ELB
- Basic ELB concepts
- Internet-facing ELB
- VPC-facing ELB
- Create an ELB (Elastic Load Balancer)
- Adding and removing instances on ELB

### **EBS (Elastic Block Storage)**

- Create EBS volumes
- Delete EBS Volumes
- Attach and detach EBS volumes
- Mounting and un-mounting EBS volume
- Creating and deleting snapshots
- Creating volumes from snapshots

### **CloudWatch**

- Cloudwatch dashboard
- Configuring Monitoring services
- Setting thresholds
- Configuring actions
- Creating a cloudwatch alarm
- Getting statistics for EC2 instances
- Monitoring other AWS services
- Configuring Notifications
- Integrating cloudwatch with Auto scaling

### **Simple Notification Service (SNS)**

- what is SNS?
- Creating a topic
- Create subscription
- Subscribed to the subscription (SQS,Email,Email-Json,SMS,HTTP,HTTPS,Application)

### **SES (Simple Email Services)**

### **SQS (Simple Queue Service)**

### **Auto scaling**

- Horizontal vs. vertical scaling
- Boot strapping
- Create a launch configuration
- Create an Auto Scaling group
- Create a policy for your Auto Scaling group

- set up an auto-scaled, load-balanced Amazon EC2 application

### **Identity access management (IAM)**

- Creating Users and Groups
- Applying policies
- Password Policy
- Roles
- Command line management.

### **Elastic Beanstalk**

- Creating environment
- Application versioning
- Deploying a sample app

### **S3 (Simple Storage Service)**

- What is S3?
- RRS (Reduced Redundancy storage)
- S3 durability and redundancy
- S3 Buckets
- S3 Uploading Downloading
- S3 Permissions
- S3 Object Versioning
- S3 Lifecycle Policies

### **Glacier storage**

### **Elastic File System**

### **Route53**

- Creating zones
- Hosting a website
- Understanding routing policies
- Weighted simple and failover policies

### **Relational Database Service (RDS)**

- Selecting the Database type
- Configuring the database
- Creating database
- Configuring backups
- Configuring the maintenance windows
- Connecting to the database.

### **Cloud Formation**

- What is cloud formation?
- Deploying template
- Create Stack
- Delete Stack
- Provisioning application resources with CloudFormation

## **CloudFront**

- Use of cloudfront
- Creating a cloudfront distribution
- Hosting a website of cloudfront distribution
- Implementing restrictions
- Configuring origins and behaviours
- CDN (Content Delivery Network)

## **Amazon Virtual Private Cloud (VPC)**

- What is VPC?
- VPC configuration
- VPC security
- Elastic IP's
- Inbound and outbound ACL's

## **Dynamo DB**

- Creating a Dynamodb
- Configuring alarms
- Adding data manually

## **Project and AWS Case study**

- Creating and managing two tier application (WEB and DB) on AWS.
- Creating and managing three tier application (APP, WEB and DB) on AWS.
- Migrating On-Premise application to AWS Cloud.

## **AWS Certification and Cost Strategies**

- Best practices for AWS
- Cost control strategies
- Overview of AWS certification

## **AWS troubleshooting**

- Troubleshooting EC2 instances
- Troubleshooting using CloudWatch
- Troubleshooting using ELB
- Using CloudTrail

## **Trusted Advisor**

- Cost Optimization
- Performance
- Security
- Fault Tolerance

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