AWS
COURSE CONTENT

Fee:

Duration:

Demo Time:

Batch Time:

- **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**

Cloud Watch

- **Cloud watch dashboard**

- **Configuring Monitoring services**

- **Setting thresholds**

- **Configuring actions**

- **Creating a cloud watch alarm**

- **Getting statistics for EC2 instances**

- **Monitoring other AWS services**

- **Configuring Notifications**

- **Integrating cloud watch with Auto scaling**

Simple Notification Service (SNS)

- **What is SNS?**

- **Creating a topic**

- **Create subscription**

- **Subscribed to the subscription (SQS,Email,Email-Jsom, SMS, HTTP,HTPPS,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 Cloud Formation**

Cloud Front

- **Use of cloud front**
- **Creating a cloud front distribution**
- **Hosting a website of cloud front distribution**
- **Implementing restrictions**
- **Configuring origins and behaviors**
- **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 Dynamo db**
- **Configuring alarms**
- **Adding data manually**

Project and AWS Case study

- **Creating and managing two tier applications (WEB and DB) on AWS.**
- **Creating and managing three tier applications (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 Cloud Watch**
- **Troubleshooting using ELB**
- **Using Cloud Trail**

Trusted Advisor

- **Cost Optimization**
- **Performance**
- **Security**
- **Fault Tolerance**

Job Support:

- **FAQ'S**
- **Resume preparation**
- **Placement Assistance**
- **Forwarding Resume to companies**
- **Interview crack level**