# Cloud computing and Amazon cloud

## Course Objectives:

This course teaches you how to:

Describe AWS services and global infrastructure.

Identify core AWS services and relate them to common architectures and solutions.

Use pricing tools to estimate AWS costs and make the most efficient and cost-effective choices for AWS services.

Recognize common concerns about data security in the cloud and articulate the shared responsibility model.

## Table of contents:

- Simple Storage Service (S3) in detail
- Amazon Elastic Compute Cloud (EC2) in detail
- Amazon Elastic Block Storage (EBS) in detail
- Amazon Elastic IP-Address Service in detail
- Amazon Relational Database Service (RDS) in detail
- Amazon Elastic Load Balancer (ELB)
- Amazon CloudWatch
- CDN service from AWS -
- AWS Technical Professional: AWS Security and Compliance
- Auto Scaling of EC2 Instances
- Common Architecture and solutions.
    - Backup and Archive
    - Disaster recovery
    - Web, Mobile and Social
    - Big Data
    - AWS Pricing tools
- AWS Security & Compliance.
    - Identify security measures provided by AWS
    - Identify customer responsibilities for security.
    - Review certification and compliance
    - Fault tolerance.
        - Packet sniffing
        - IP spoofing
        - Distributed denial of service
        - Secured Network.
- Miscellaneous Features and troubleshooting
- Amazon CloudSearch
- Amazon Mechanical Turk
- Trouble shooting
- Introduction to Microsoft Azure Cloud and Openshit/OpenStack. Similarities and differences between these public/private Cloud offerings