

AWS (Amazon Cloud) Essentials

Course Outline:

- **AWS Introduction**
 - AWS eco system overview
 - Services available
 - Use case examples
 - Build a couple of scenarios on AWS
 - Understand migration path from on-premise to Cloud
- **Elastic Compute (EC2)**
 - EC2 concepts : AMI, Instance
 - Machine storage : Ephemeral, EBS, S3
 - Networking : VPC, public IPs
 - Security groups
 - Spot instances
 - Available machine types and costs
 - Creating custom machine images
 - Labs :
- **Storage**
 - Understand various storage options
 - Snapshots and backups with EBS
 - Storage benchmarks
 - Labs
- **Amazon S3**
 - Using S3 as durable cloud storage

- Creating buckets, files
- Permissions and access rules
- Labs
- **Accounts and User Management**
 - Root account
 - IAM users
 - Setting permissions and roles
 - Access audit
- **Networking**
 - Security groups
 - Subnets
 - VPC
 - Routers and Gateways
 - Private , public IP addresses
 - Controlling access via rules
 - Labs
- **Databases**
 - RDS Intro
 - Available database choices
 - Security
 - Scaling datastore
 - Backup and failover
 - Hardware and capacity planning
 - Labs
- **NoSQL**
 - DynamoDB

- Redis
- **Elastic Beanstalk**
 - Beanstalk overview and concepts
 - Designing an Beanstalk application
 - Scaling
- **Services**
 - Amazon Simple Queue Service (SQS)
 - Simple Email Service (SES)
- **CloudWatch monitoring**
 - Overview
 - Configuring Cloudwatch
 - Setting up alerts