

## Migrate to Cloud

Length	: 2 days
Audience(s)	: Mix from various functions and departments
Level	: Intermediate
Technology	: Cloud Computing
Delivery Method	: Instructor-led (classroom)

### Course Overview

An intermediate course preparing participants to understand Private Cloud models and Migrating to Public Cloud and also understand cloud decision Matrix, what should go private and what workload should run on public cloud

### Audience Profile

Technical department heads, data centre Implementation and architect teams who intends to understand public cloud services and learn on approach to migrate cloud

### At Course Completion

You will be able to understand various Public cloud providers core services like AWS, Azure and Google cloud and also understand private cloud infrastructure framework. In addition to this will be able to define how to migrate on premise compute, network, storage, applications, database, and firewall to public cloud

### Pre-Requisites

Basic understand IT infrastructure

### Course Outline

#### Module 1: Introduction and overview

#### Module 2: Cloud Foundation

- What is virtualization
- Difference between virtualization and Cloud
- Cloud Infrastructure framework
- Characteristics of Cloud Computing
- Cloud Deployment Models – Private, Public, Hybrid and community cloud
- Cloud Service Models – IaaS, PaaS and SaaS

#### Module 3: AWS cloud Big Picture

- AWS Compute service overview
- AWS Storage Options overview

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- AWS Database services overview
- AWS network services overview
- AWS security services

#### **Module 4: AWS Demos's**

- EC2 windows – launch instance and connect by students
- EBS – attach block storage volumes to windows server – by students
- Elastic load balancer and making application available globally – demo by trainer

#### **Module 5: Agile and devops**

- Differentiate Agile and DevOps
- Microservices and containers
- Infrastructure-As-A-Code
- Demo – Jenkins, Sonarqube, Nexus – Java web app CI/CD pipeline by Trainer
- Demo – Cloud formation and Terraform by Trainer

#### **Review of Day 1 lesson and questions**

#### **Module 6: Azure cloud Big Picture**

- Azure Cloud Compute service overview
- Azure Cloud Storage Options overview
- Azure Cloud Database services overview
- Azure Cloud network services overview
- Azure Cloud security services
- Demo – Windows VM and block storage demo by trainer
- Demo - VPC peering
- Demo - Network access control list

#### **Module 7: Migration to cloud**

- 6 Migration strategy
- Merits of each strategy
- Network Migration to Public Cloud
- Compute Migration to Public cloud
- Application Migration to public cloud
- Database Migration to Public Cloud
- Storage Migration to Public cloud
- Security Migration to public cloud

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**Module 8: Case Study and Assignments**

- Review architecture Cloud migration – customer case study
- Test your knowledge – Online assessment of student of 30 questions

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