

# AZURE ADMINISTRATOR (e)gain

**Duration: 30 hours**

Additional: 5 hours Bonus (from Mentor)

## Introduction

- **Creating an Azure Free Account**
- **Concepts in Azure**
- **Tour of the Azure Portal**
- **Quick note on Security Defaults**

## Deploy and Manage Azure Compute Resources

- **Virtual Machine**
- **Azure Virtual Machines - Data Disks**
- **Adding data disks**
- **Server-side encryption - Azure Disk Storage**
- **Encryption with customer managed keys**
- **Azure Disk Encryption**
- **Creating a VM with Premium Disks**
- **Disks - Understanding IOPS and Throughput**
- **Data Disks Snapshot**
- **Azure Shared Disks**
- **Un-managed disks**
- **Custom Script Extensions**
- **Custom Script Extensions for Linux Virtual Machines**
- **Linux Virtual Machines - Cloud init**
- **Virtual Machine - Boot Diagnostics**
- **Virtual Machine - Serial Console**
- **Virtual Machine - Run command**
- **Virtual Machine - Run command - Resources**

- Confidential Computing and Azure Dedicated Host
- Azure Bastion Service
- Redeploying a virtual machine
- Availability Sets
- Availability Zones
- Azure virtual machine scale sets
- Understanding virtual machine images
- Creating a specialized image
- Generalized VM Image
- Resizing a virtual machine
- Note on service limits
- Proximity Placement Groups
- Azure Web App
- Introduction to Docker
- Azure Container Registry
- Azure Kubernetes Service

## Virtual Networking

- Introduction to Virtual Networks in Azure
- Concept behind subnets
- Deploying a machine to the virtual network
- Network Security Groups
- The Azure Load Balancer Service
- Azure Application Gateway
- Virtual Network Peering
- Virtual private network
- NEW - Point-to-Site VPN Connections
- Site to Site VPN Connection
- Azure Virtual WAN

- **Azure ExpressRoute**
- **Network Watcher**
- **User Defined Routes**
- **Azure Firewall**
- **Azure DNS**

## **Storage**

- **Storage accounts**
- **Different types of storage accounts**
- **Azure Blob service**
- **Different authorization techniques**
- **Azure Storage Explorer**
- **Using Access keys**
- **Shared Access Signatures - Blob Level**
- **Azure Storage Accounts - Active Directory Authentication**
- **Data Redundancy**
- **Access Tiers**
- **Azure File shares**

## **Azure Identities and governance**

- **Azure Subscriptions**
- **Azure Active Directory**
- **Role Based Access Control**
- **Custom Roles**
- **Conditional Access Policies**
- **Administrative Units**
- **Resource tags**
- **Locking Resources**
- **Azure Policies**
- **Management Group**
- **Costing**

## **Monitor and Backup**

- **Azure Monitor Service**
- **What is a Log Analytics Workspace**
- **What is Application Insights**
- **Azure Backup feature**
- **Recovery services vault**
- **Azure Backup retention**
- **MARS agent - Backup**
- **Azure Site Recovery**

## **Azure PowerShell and CLI**

## **Azure Resource manager template**

**Project, Interview questions and resume buildup,  
Production use cases**

