# Azure Course Curriculum

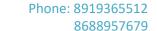## 1. Cloud Computing & Microsoft Azure Fundamentals

- ➢ Introduction to Azure
- ➢ Different segments SaaS, PaaS, and IaaS
- ➢ Azure Regions and Data Centers
- ➢ Understanding of Microsoft Azure portal
- ➢ Introduction to all Azure services
- ➢ Windows Azure Subscription
- ➢ Setting Up a Trial Subscription

## 2. Azure Virtual Machines

- ➢ Operating System Images Supported
- ➢ Virtual Machine instances
- ➢ Azure VM types and Pricing
- ➢ Types of Provisioning
- ➢ Disks & Images
- ➢ Virtual Machine management, automation and scripting
- ➢ Cloud Service and Resource Model Deployment
- ➢ Setting up VM in Availability set using Load Balanced Endpoint
- ➢ VM Availability using Availability Sets

## 3. Introduction to Azure Virtual Network and Services

- ➢ Types of Azure Virtual Network VNET to VNET, point-to-site and site-to-site, Express Route
- ➢ Creating Virtual Networks in Azure
- ➢ Azure Subnet and IP ranges
- ➢ Endpoints
- ➢ Load Balancing Endpoints
- ➢ Understanding Network ACL and Network Security Group Setting up Private and Public IP
- ➢ Introduction to Azure Traffic Manager
- ➢ Available options in Azure Traffic Manager

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➢ Understanding of Deployment Traffic Manager

## 4. Microsoft Azure Storage

➢ Overview of Microsoft Azure Storage
➢ Storage Account
➢ Storage Account Replication Techniques
➢ Protocols and Consistency Model
➢ Type of Azure Storage Account
➢ Storage Services Blob, Table, queue, File
➢ Azure CDN Services, Managed and Unmanaged Disk

## 5. Manage AzureActive Directory (AD)

➢ Azure Active Directory Overview
➢ Self-Service Password Reset
➢ Azure AD Identity Protection
➢ Integrating SaaS Applications with Azure AD
➢ Azure Domains and Tenants
➢ Azure Users and Groups
➢ Azure Roles
➢ Managing Devices

## 6. Manage App Service Plans

➢ App Service Overview
➢ App Service monitoring overview
➢ Web Role and Worker Role

## 7. Azure SQL Database

➢ Understanding Database as a service
➢ Difference between SQL server and Azure SQL
➢ Advantage and Benefits of SQL database Scaling SQL database
➢ Backup and Performance Options Security in Azure
➢ SQL Pricing Model

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➢ Azure SQL Data Warehouse

## 8. Azure Backup and Site Recovery

Azure Vaults

➢ Configuring backups
➢ Data Protection Manager
➢ Azure Site Recovery and Disaster Recovery
➢ On Premise Migration using Recovery Services

## 9. Azure ARM Template

➢ Introduction to Azure ARM Templates and its content

## 10. Configure Serverless Computing

➢ Serverless Computing, Functions and Logic Apps

## 11.  Manage App Services

➢ App Settings
➢ Deployment Slots

## 12. Data Factory

➢ Introduction to Azure Data Factory
➢ Core Concepts – Data sets, Pipelines and activities, Scheduling and execution
➢ Run Samples – Customer Profiling
➢ Moving Data, Transformation and Analysis
➢ Monitoring and managing the Pipelines
➢ Common Use Cases and Samples

## 13. Azure Container Service

➢ Introduction to Azure Container Service

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➢ Overview of Containers

➢ Introduction to Azure Container Registry

➢ Azure Kubernetes Services

➢ Introduction

## 14. Azure Cosmos DB

➢ Introduction

➢ What is a request unit?

➢ What is Partition Strategy and Key?

➢ Query types

## 15. Projects & Resume Preparation