

# Azure Cloud Syllabus

## 1.Introduction to Cloud Computing

- What is Cloud Computing
- Advantages of Cloud Computing
- Types of Cloud's
- Different Cloud Services SaaS, PaaS and IaaS

## 2. Core Concepts of Azure

- Introduction to Microsoft Azure
- Creation of Azure Account
- Azure Physical Structure
- Azure Management Infrastructure
- Create Azure resource

## 3. Azure Compute and network services

- Azure Virtual Machines
- Azure Containers
- Azure Functions
- Application Hosting Options
- Azure Virtual Network
- Configure Network Private Access
- Azure Virtual Private Network
- Azure ExpressRoute
- Azure DNS

## 4. Load balancer and Traffic Manager

- Configure Load balancer and traffic manager
- Overview of Traffic Manager
- Configuring Traffic manager
- Overview and configuring of firewall
- Create and configure VNET peering
- Create and configure VNET to VNET

## 5. Azure Storage Services

- Azure Storage account
- Azure Storage redundancy
- Azure Storage Services
- Create Blob Storage
- Azure Migration Options
- Azure File Movement

## 6. Azure Identity , access and security

- Azure Directory Services
- Azure Authentication Methods
- Azure External identities
- Azure Conditional access
- Azure role-based access control
- Microsoft Defender for cloud

## 7. Microsoft Cloud Adoption Framework for Azure

- Automating Deployment with a multi-stage Release Pipelines
- Define Strategy
- Plan
- Ready
- Adopt
- Govern & Manage

## 8. Microsoft Azure Well-Architecture Framework

- Azure Well-Architected Framework pillars
- Cost optimization
- Operational excellence
- Performance efficiency
- Reliability
- Security
- Features of Azure test plan
- Managing Test Plans, Suites and Cases
- Subscribe to the test plan free trial
- Azure Test and Feedback extension

## 9. Azure App Services

- Overview of App services
- Deploying the web app
- Configuring the App Services
- Scaling of Websites
- Overview of Logic App's
- Configuring the Logic App's
- Practical Session

## 10. Azure Recovery Service Vault

- Overview of Azure Recovery Service Vault
- Creating Recovery Service Vault
- Create and configure backup policy
- Configure VM backup
- Configure file backup
- Practical Session

## 11. Azure Backups

- Restore the VM Backups
- Restore the File Backup
- Overview of Disaster Recovery
- Configuring the DR for the VMs
- Replicating the VM's using ASR
- Practical Session

## 12. Azure Monitoring

- Overview of Azure Monitoring
- Configuring the Alerts
- Creating the Azure alerts using Azure Monitor
- Overview of Azure advisors
- Automating the Patch Management
- Practical Session



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### **13. SQL Servers**

- Overview of the SQL Servers
- Configuring the Log Analytic Workspace
- Configuring Logs for Azure services
- Practical Session




### **14. Azure Database**

- Configuring the databases in the Azure
- Advance Capabilities
- Benefits of SQL Database
- Scaling SQL Database
- Practical Session


### **15. Database Backup**

- Configuring the database backups
- Configuring the database backups
- Configuring the Authentication for the SQL Databases
- Restoring the Corrupted database
- Practical Session

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