



H.No: 7-1-413/2, Beside Sonabai Temple, Near Reliacne Fresh, Balkampet Rd, Ameerpet, Hyderabad - 500038

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 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**

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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-Archtected 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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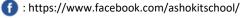


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13. SQL Servers

- 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**