

AZURE CLOUD

SYLLABUS

PART 1 – AZURE BASICS

1.Cloud Computing – Overview

- Architecture of Cloud Computing
- Types of Cloud
- Benefits of Cloud
- SPI

2.Windows Azure

- Azure as PaaS (Platform as a Service)
- Azure as IaaS (Infrastructure as a Service)
- Azure Management Portal

3.Azure – Components

- Compute / Execution Models
- Data Management
- Networking
- Big Data and Big Compute
- Messaging
- Caching
- Identity and Access.
- Mobile Service
- Backup
- Media
- Commerce
- Software Development Kit (SDK)



4. Compute Module

- Create a Web App**
- Create a Virtual Machine**
- Creating a Mobile Service**
- Creating Batch Service**

5. Fabric Controller

6. Storage

- Creating Azure Storage Account**
- Storage Account Endpoints**
- Generating an Access Key**
- Managing Data to Azure Storage**

7. Blobs

- Create a Container**
- Upload a Blob using PowerShell.**
- Download a Blob**
- Manage Blobs using Azure Storage Explorer**

8. Queues

- Managing Queues using PowerShell**
- Managing Queues using Azure Storage Explorer**

9. Tables

- How to Manage Tables Using PowerShell?**
- How to Manage Table using Azure Storage Explorer?**

10. CDN

- Create a CDN**
- Create CDN for Custom Origin Links**
- Manage CDN**
- Map a Custom Domain Name**

11. Applications

12. Security

- Creating an Active Directory**
- Mapping a Custom Domain**
- Creating Users**
- Integrating with Azure Active Directory**
- Integrating On-Premise Active Directory**
- Reports**

13.Datacenters

-How to Choose the Right Data Center for Your Application?

14.Scenarios

- Software Development**
- Enterprise Process Offloading**
- Enterprise Application Integration**

PART 2: AZURE ADVANCED

15.Management Portal

- Create a New Application**
- Check Credit and Subscriptions**
- Add a New Subscription**
- Azure Preview Portal**

16.Create Virtual Network

- Creating a Virtual Network in Clouds Only**
- Creating a Virtual Network in Cloud Only (Advanced Settings)**

17.Deploying Virtual Machines

- Quick Create**
- Create Virtual Machine with Advanced Settings**
- Connecting with a Virtual Network**
- Accessing the Virtual Machine**

18.Endpoint Configuration

- Access Control of Endpoint**

19.Point-to-Site Connectivity

- Enabling Point-to-Site Connectivity on Existing Virtual Network**
- Create a New Virtual Network with Point-to-site Connectivity**
- Generate Certificates.**

20.Site-to-Site Connectivity

- Creating a Site-to-Site Connectivity Network.**

21.Traffic Manager

- Create Traffic Manager**
- Create Endpoints to be Monitored via Traffic Manager**
- Configure the Policy**

22.PowerShell

- Installing Azure PowerShell**
- Connecting to Your Subscription**
- Connect to Your Azure Account**
- Remove Azure Account**
- Get Help**

22. Monitoring Virtual Machines

- Monitor VM in Azure Management Portal**
- Enable Diagnostics**

23. Setting Up Alert Rules

24. Application Deployment

- Application Deployment**
- Deploying a Web App from PowerShell**
- Create a Deployment Package**
- Create a Website in Azure using PowerShell**
- Deploy Website using Deployment Package**

25. Backup & Recovery

- Create Backup Vault**
- Schedule a Backup**

26. Self-Service Capabilities

- Group Management**
- Password Management**

27. Multi-Factor Authentication

- Create a Multi-Factor Authentication Provider**
- Enable the Multi-Factor Authentication for Existing Directory**
- Enable Multi-Factor Authentication for On-premises Applications**

28.Forefront Identity Manager

29.Data Import and Export Job

- Data Export Job**
- Create an Export Job**
- Create Import job**

30.Websites

- Create a Website in Azure Management Portal**
- Deploying Azure Website from Visual Studio**
- Monitoring the Website**
- Staged Publishing**

31.Scalability

32.Disk Configuration

- Virtual Machine and Disks**
- Create/Attach a Disk in Virtual Machine**
- Configure the Disk in Virtual Machine**
- Delete the Disk**
- Image Disks**

33.Disk Caching

34.Personalize Azure Access

35.Personalize Company Branding

- Active Free Trial of Azure Active Directory (ADD) Premium Edition**
- Customize Branding**
- Login with Customized Sign-in Page.**

36. Self-Service Group Management

- Policy Setup for Self-service Group Management.

37. Create a Group

38. Security Reports and Alerts

- Anomalies Reports
- Activity Reports
- Integrated Application
- Search Activity of a Particular User

39. Orchestrated Recovery

- Create a Site Recovery Vault
- Between On-premises VMM Site and Azure
- Between On-premises Hyper-V Site and Azure
- Between On-premises Site with VMWare / Physical Server and Azure
- Between Two On-premises VMWare Sites
- Between Two On-premises VMM Sites and SAN Array

Application

- Create a Recovery Plan

40. Health Monitoring

41. Upgrades

- Update a Cloud Service
- VIP (Virtual IP) Swap.

Others:

- Labs and Theory special notes