Microsoft Azure Cloud Training Syllabus

Cloud Computing Introduction

- 1. What is Cloud Computing
- 2. Cloud Characteristics
- 3. Cloud Computing Service Models
- 4. Deployment Models in Cloud Computing
- 5. Advantages and Disadvantages of Cloud Computing

Getting Starting with Azure

- 1. Introduction to Azure
- 2. Azure Hosting Models
- 3. Azure Services
- 4. Subscribing to Microsoft Azure
- 5. Azure Portals
- 6. Azure Resource Group
- 7. Installing Microsoft Azure SDK

Azure App Services - Web Apps

- 1. Introduction
- 2. App Types
- 3. Deploying Web App directly from Visual Studio
- 4. Automate deployment from Dropbox
- 5. Continuous Delivery using Visual Studio Team Service
- 6. Scaling a Web Apps
- 7. Traffic Manager
- 8. Application Settings Configuration
- 9. Understanding Deployment Slots
- 10. Configure a custom domain name
- 11. Enable SSL for your custom domain
- 12. Monitoring, Debugging and Diagnosis

Windows Azure SQL Database

- 1. Introduction/Overview
- 2. Comparing SQL Azure Database to Azure / On-Premise SQL Server
- 3. Creating and Using SQL Server and SQL Database
- 4. Azure SQL Database Tools
- 5. Using Azure SQL Database with EF Code First
- 6. Migrating on premise database to SQL Azure
- 7. Create Excel Report with data from Azure SQL Database.

DocumentDB Service

1. Understanding DocumentDB database Schema

- 2. Creating and Saving Documents
- 3. Reading Documents

Azure Storage

- 1. About Azure Storage
- 2. C# / MS.NET Azure Storage SDK
 - Working with Blob Storage
 - Working with Tables Storage
 - Working with Queues Storage
 - Working with Files Storage
- 3. REST API
 - Working with Storage Tables
 - Working with Azure Queues

Azure Web Jobs

- 1. Introduction
- 2. Developing and Hosting Web Jobs Application
- 3. Azure WebJobs SDK
- 4. Sample Application including WebApps and WebJobs.

App Service – Mobile Apps

- 1. Mobile Apps Introduction
- 2. Creating Server and Client Projects
- 3. Working with Easy tables using Azure Portal
- 4. Developing Windows 8 Client Application
- 5. Mobile App Authentication
 - Facebook Authentication
 - Azure Active Directory Authentication
- 6. Enabling Offline Sync
- 7. Implementating Push Notification

App Service - API Apps

- 1. Introduction
- 2. Creating an API App
- 3. Deploying an API App
- 4. Consuming an API App
- 5. Using API App in Logic App

Azure App Service - Logic Apps

- 1. Introduction
- 2. Creating a Simple Logic App
- 3. Handling array of Items using for-each and condition
- 4. Understanding Triggers and Actions
- 5. Using Custom API App in Logic App

Azure Cloud Service

- 1. What is Cloud Service
- 2. Cloud Service vs App Service
- 3. Understand Cloud Service Roles
- 4. Developing Cloud Service Application with Web Role
- 5. Deploying Cloud Service Application
- 6. Production and Staging Slots
- 7. Using Azure Database in Cloud Service
- 8. Adding Worker Role to the Solution.
- 9. Delete deployments and a cloud service
- 10. Configure application for SSL
- 11. Configure Roles for Remote Desktop Login
- 12. Running Multiple Websites
- 13. Scaling a Cloud Service
- 14. Debugging an Azure Cloud Service
- 15. Transient Fault Handling
- 16. To Configure and Run Startup Tasks for a Cloud Service
- 17. Enable Communication for Role Instances in Azure
- 18. Using the .NET SDK to access an endpoint.
- 19. Network traffic rules to control role communication

Managing Azure with Windows PowerShell

- 1. Installing the required modules
- 2. Login to Azure Portal
- 3. Creating Resource Group
- 4. Managing Storage Accounts using PowerShell
- 5. Understanding and Working with ARM Templates

Azure Service Bus

- 1. Service Bus Basics
- 2. Hosting WCF Service in Azure
- 3. Relayed Messaging
- 4. Service BusQueues
- 5. Topics and Subscriptions
- 6. Handling Sessions
- 7. Handling Transactions

Azure Media Service

- 1. What is Media Services
- 2. Media Service in Azure Portal
 - 1. Create an Azure Media Service Account
 - 2. Upload and Encode Video/Audio
 - 3. Publish and Play Content
- 3. Media Services Development with .NET
 - 1. Uploading Media File Programmatically
- 4. Uploading .WMV Encoding to MP4 Format

Azure Virtual Networks

- 1. Overview of Azure Networking
- 2. Virtual Network Benefits
- 3. Understanding Network Resources
- 4. Create a VNet using Azure Portal
- 5. Create a Subnet
- 6. Create a Network Security Group
- 7. Create NIC and PublicIP
- 8. Understanding and Using Azure DNS
- 9. Using PowerShell Commands

Azure Virtual Machine

- 1. Introduction
- 2. Comparing VM with Web Apps and Cloud Services
- 3. Create a Windows Virtual Machine using Portal / PowerShell
- 4. Understanding and Capture VM Images
- 5. Deploy a New VM Instance from the captured Image
- 6. Deploy popular application frameworks by using Azure Resource Manager templates
- 7. Understanding and Creating Availability Sets.
- 8. Load Balancing between multiple Virtual machines

Redis Caching

- 1. Caching Overview
- 2. What is Redis Cache
- 3. Creating a Redis Cache
- 4. Developing Redis Cache Client
- 5. Controlling Expiration

Azure Active Directory

- 1. Azure AD Introduction
- 2. Relationship between AD DS and Azure AD
- 3. Managing Active Directories
- 4. Adding a custom domain name to Azure AD
- 5. Managing Users, Groups and Devices
- 6. Adding Co-Administrators for a Subscription
- 7. Configuring Role Based Access Control
- 8. Integrating On-Premise AD Identities with Azure AD
- 9. Integrating Gallery Applications with Azure AD
- 10. Integrating On-Premise Applications with Azure AD
- 11. Implementing Azure AD B2B Collaboration
- 12. Implementing Azure AD B2C Collaboration

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