

MICROSOFT AZURE SYLLABUS

Hi Folks,

Oranium Tech introducing some amazing content on Microsoft Azure. The Azure cloud platform is more than 200 products and cloud services designed to help you bring new solutions to life—to solve today's challenges and create the future. Build, run, and manage applications across multiple clouds, on-premises, and at the edge, with the tools and frameworks of your choice.

Objectives

The Azure platform aims to help businesses manage challenges and meet their organizational goals. It offers tools that support all industries -- including e-commerce, finance and a variety of Fortune 500 companies -- and is compatible with open source technologies.

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

LAB:

- Installation of Azure cmdlets on windows PowerShell

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

LAB:

- Creation of VMs with portal, ARM Templates and PowerShell
- Deploying two VMs in Availability Set and load balancing it.

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
- Understanding of Deployment Traffic Manager

LAB:

- Create a VET-to-VNET virtual networks
- Create a point-to-site virtual network.
- Create a site-to-site virtual network.
- Load Balancing using Azure 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

LAB:

- Provisioning Azure Storage services
- Create an Azure Storage Account
- Deploying Blob Storage
- Deploying Table Storage
- Deploying Queue Storage
- Deploying File Storage

5) Manage Azure Active 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

LAB:

- Implement Azure Active Directory.
- Configure Self-Service Password Reset
- Implement Azure AD Identity Protection
- Configure integrated SaaS applications
- Configure domains and tenants, users and groups
- Manage roles and devices
- Migration of OnPrem AD Users to Azure AD
- Configure MFA

6) Manage App Service Plans

- App Service Overview
- App Service monitoring overview
- Web Role and Worker Role
- Lab:
- App Service Plan
- Deploy Web App
- App Service Diagnostics

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
- Azure SQL Data Warehouse

LAB:

- Migrate a database from on premise to SQL Azure

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

LAB:

- Configure a Recovery Service Vault and backup files from on premise to cloud
- Site Recovery of a VM
- Back up of a VM

BELOW Content is for Developing Solutions for Microsoft Azure – AZ -203 Exam [Will be conducted extra]

9) Azure ARM Template

- Introduction to Azure ARM Templates and its content

LAB:

- Deploying ARM Template with PowerShell

10) Configure Serverless Computing

- Serverless Computing, Functions and Logic Apps

LAB:

- Logic Apps
- Creating a Function App

11) Manage App Services

- App Settings
- Deployment Slots

LAB:

- 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

LAB:

- Orchestrating the On-Prem data from SQL DB to Azure DB by creating a data pipeline using Blob storage.

13)Azure Container Service

- Introduction to Azure Container Service
- Overview of Containers
- Introduction to Azure Container Registry
- Azure Kubernetes Services
- Introduction

LAB:

- Deploy an Azure container registry
- Build a container image using Azure Container Registry Tasks
- Deploy the container to an Azure container instance
- Replicate the container image to multiple Azure datacenters
- Run Docker containers with Azure Container Instance
- Run Azure Container Instances
- Deploying AKS in Azur

14)Azure Cosmos DB

- Introduction
- What is a request unit?
- What is Partition Strategy and Key?
- Query types

LAB:

- Create an Azure Cosmos DB account in the Azure portal
- Create a database and collection in Azure Cosmos DB
- Run queries in the Azure portal

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