

# **Microsoft Azure Boot Camp 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. Introduction to Microsoft Azure**

- Overview to Microsoft Azure
- Azure Regions and Data Centers
- Overview of Azure Portal
- Creation of free subscription account in Azure portal
- Hands on experience for the services
- Manage Azure subscription, resources and Azure tenants

## **3. Overview of Azure Services**

- Overview to Azure Virtual Machines
- Overview of VM creation
- Create and configure a VM for Windows
- Add data disks
- Configure high availability
- Deploy and configure scale sets
- Add network interfaces
- Manage VM sizes
- Redeploy VMs
- Deploying Custom Images
- Practical session

## **4. Azure Storage Accounts**

- Implement and manage storage accounts
- Data replication
- Azure Storage Explorer
- Blob Storage
- Shared access keys
- Practical Session

## **5. Azure Virtual Network**

- Configure and manage virtual network
- Configure private and public IP address, network routes
- Configure network interface, subnets

- Create Security rules
- Associate NSG to a subnet or network interface
- Identify required ports
- Practical Session

## **6. 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
- Practical Session

## **7. Virtual Private Network**

- Overview of VPN's
- Configuring Virtual Network Private Gateway
- Configuring P-T-S VPN
- Verify Virtual Network Connectivity
- Practical Session

## **8. 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

## **9. Windows Active Directory**

- Creating Windows AD
- Creating Users and Groups
- Creating Custom RBAC policies
- Creating Azure Active Directory (Entra ID)
- Managing Azure Active Directory (Entra ID)
- Integrating Windows D with Azure AD
- Enable the MFA for bulk users
- 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

## **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