AZ-303: Microsoft Azure Architect Technologies

Course objectives

Module 1: Implement Virtual Networking

Module 2: Implement VMs for Windows and Linux

Module 3: Automate Deployment and Configuration of Resources

Module 4: Implement Load Balancing and Network Security

Module 5: Implement Storage Accounts

Module 6: Implement Azure Active Directory

Module 7: Implement and Manage Azure Governance

Module 8: Implement and Manage Hybrid Identities

Module 9: Manage Workloads in Azure

Module 10: Implement Cloud Infrastructure Monitoring

Module 11: Manage Security for Applications

Module 12: Implement an Application Infrastructure

Module 13: Implement Container-Based Applications

Module 14: Implement NoSQL Databases

Module 15: Implement Azure SQL Databases

Audience

This course is for IT Professionals with expertise in designing and implementing solutions running on Microsoft Azure. They should have broad knowledge of IT operations, including networking, virtualization, identity, security, business continuity, disaster recovery, data platform, budgeting, and governance. Azure Solution Architects use the Azure Portal and as they become more adept they use the Command Line Interface. Candidates must have expert-level skills in Azure administration and have experience with Azure development processes and DevOps processes.

Prerequisite

Successful Azure Solution Architects start this role with experience on operating systems, virtualization, cloud infrastructure, storage structures, and networking.

Understanding of on-premises virtualization technologies, including: VMs, virtual networking, and virtual hard disks.

Understanding of network configuration, including TCP/IP, Domain Name System (DNS), virtual private networks (VPNs), firewalls, and encryption technologies.

Understanding of Active Directory concepts, including domains, forests, domain controllers, replication, Kerberos protocol, and Lightweight Directory Access Protocol (LDAP).

Understanding of resilience and disaster recovery, including backup and restore operations.

Duration

This is **a five-day AZ-303: Microsoft Azure Architect Technologies** course. The course starts at **09:30** and runs until **16:30**.

Alternate timings can be arranged upon request. The course can be held on a **date that suits you.**

Location

Our **AZ-303: Microsoft Azure Architect Technologies** course can be run at **our training venue** near **Liverpool Street (London)** or any preferred location in the **UK or Europe**. The training can also be **delivered Online Remotely using online training platforms**.

AZ-303: Microsoft Azure Architect Technologies Course Outline

Module 1: Implement Virtual Networking

Virtual Network Peering

Implement VNet Peering

Module 2: Implement VMs for Windows and Linux

Select Virtual Machine Size

Configure High Availability

Implement Azure Dedicated Hosts

Deploy and Configure Scale Sets

Configure Azure Disk Encryption

Module 3: Automate Deployment and Configuration of Resources

Azure Resource Manager Templates

Save a Template for a VM

Evaluate Location of New Resources

Configure a Virtual Hard Disk Template

Deploy from a Template

Create and Execute an Automation Runbook

Module 4: Implement Load Balancing and Network Security

Implement Azure Load Balancer

Implement an Application Gateway

Understand Web Application Firewall

Implement Azure Firewall

Implement Azure Front Door

Implementing Azure Traffic Manager

Implement Network Security Groups and Application Security Group

Implement Azure Bastion

Lab : Implementing Highly Available Azure IaaS Compute Architecture

Module 5: Implement Storage Accounts

Storage Accounts

Blob Storage

Storage Security

Managing Storage

Accessing Blobs and Queues using AAD

Configure Azure Storage Firewalls and Virtual Networks

Module 6: Implement Azure Active Directory

Overview of Azure Active Directory

Users and Groups

Domains and Custom Domains

Azure AD Identity Protection

Implement Conditional Access

Configure Fraud Alerts for MFA

Implement Bypass Options

Configure Trusted IPs

Configure Guest Users in Azure AD

Manage Multiple Directories

Module 7: Implement and Manage Azure Governance

Create Management Groups, Subscriptions, and Resource Groups

Overview of Role-Based Access Control (RBAC)

Role-Based Access Control (RBAC) Roles

Azure AD Access Reviews

Implement and Configure an Azure Policy

Azure Blueprints

Lab : Implementing and Configuring Azure Storage File and Blob Services

Lab : Managing Azure Role-Based Access Control

Module 8: Implement and Manage Hybrid Identities

Install and Configure Azure AD Connect

Configure Password Sync and Password Writeback

Configure Azure AD Connect Health

Module 9: Manage Workloads in Azure

Migrate Workloads using Azure Migrate

VMware - Agentless Migration

VMware - Agent-Based Migration

Implement Azure Backup

Azure to Azure Site Recovery

Implement Azure Update Management

Lab : Protecting Hyper-V VMs by using Azure Site Recovery

Module 10: Implement Cloud Infrastructure Monitoring

Azure Infrastructure Security Monitoring

Azure Monitor

Azure Workbooks

Azure Alerts

Log Analytics

Network Watcher

Azure Service Health

Monitor Azure Costs

Azure Application Insights

Unified Monitoring in Azure

Module 11: Manage Security for Applications

Azure Key Vault

Azure Managed Identity

Module 12: Implement an Application Infrastructure

Create and Configure Azure App Service

Create an App Service Web App for Containers

Create and Configure an App Service Plan

Configure Networking for an App Service

Create and Manage Deployment Slots

Implement Logic Apps

Implement Azure Functions

Lab : Configuring a Message-Based Integration Architecture

Lab : Implementing an Azure App Service Web App with a Staging Slot

Module 13: Implement Container-Based Applications

Azure Container Instances

Configure Azure Kubernetes Service

Module 14: Implement NoSQL Databases

Configure Storage Account Tables

Select Appropriate CosmosDB APIs

Module 15: Implement Azure SQL Databases

Configure Azure SQL Database Settings

Implement Azure SQL Database Managed Instances

High-Availability and Azure SQL Database