



# MS Azure Architect AZ-305

***"DESIGN SMARTER, SCALE FASTER — LEAD WITH  
AZURE ARCHITECTURE"***

**SYLLABUS**

Version: 1.0

## About Apponix Academy

- ✦ Apponix Academy is a leading training institute offering both online and offline courses in trending technologies like Cloud Computing, DevOps, Cyber Security, Full Stack Development, Data Science, Digital Marketing, and more.
- ✦ Established in 2013, Apponix has trained over 50,000 students across India and abroad, helping them build successful careers in the tech industry.
- ✦ With centers in Bangalore, Pune, Mumbai, Hubli, Aurangabad, Tumkur, Trichy, Gwalior, Ranchi, and more, Apponix continues to expand rapidly across the country.
- ✦ All our courses are designed to be job-oriented, practical, and aligned with real-world industry requirements.
- ✦ Our training is delivered by 100+ highly experienced corporate trainers who are experts in their respective fields.
- ✦ We offer flexible learning options, allowing students to choose between classroom sessions and live online classes.
- ✦ Apponix is ISO certified and provides globally recognized certifications from AWS, Microsoft, and Google.
- ✦ Over 3,000+ Apponix alumni are successfully placed in top MNCs with salaries above ₹15 LPA.
- ✦ Our focus is on 100% hands-on learning, project-based assignments, and real-time case studies.
- ✦ We provide complete career support including resume building, interview preparation, and placement assistance.
- ✦ With a strong presence and proven track record, Apponix Academy continues to be a trusted name in professional IT training.



### COURSE KEY FEATUERS



**Designated Placement Advisor**



**Job Assistance**



**Placement sessions**



**Interview Grooming Sessions**



**Classroom & Online Training**



**Mock interview sessions**



**Delivered by Industry Experts**



**Microsoft Azure certification**



**Professional Resume building session**



**Industry Relevant Syllabus**



## Awards & Accreditations



**IABAC Authorized Partner**



**JAINx University Partner**



**ISO Certified**



**VMWARE Authorized Partner**



**Most Promising  
Training Institute**



**MSME Certified**

## Sample Certificate



## **Microsoft Azure AZ-305 Training**

### **1. Microsoft Azure Cloud Training course objectives:**

- Plan and develop Azure Virtual Machines.
- Configure, manage, and monitor Azure VM (Virtual Machines) to optimize availability and reliability.
- Implement Azure App Service.
- Plan and implement storage and backup, and recovery services.
- Implement container-based workloads in Azure.
- Deploy, configure, monitor, and diagnose cloud services.
- Implement Azure AD.
- Manage an AD(Active Directory) infrastructure in a hybrid environment.
- Azure network and cross site connectivity

**Course Duration: 40Hours**

### **Module 1 - Deploy and configure infrastructure**

#### **1: Analyze resource utilization and consumption**

- configure diagnostic settings on resources
- create and test alerts
- analyze alerts across subscription
- analyze metrics across subscription
- create action groups
- monitor for unused resources
- monitor spend
- report on spend
- view alerts in Azure Monitor logs
- visualize diagnostics data using Azure Monitor Workbooks
- LAB
- configure diagnostic settings on resources
- analyze alerts across subscription

- create action groups
- monitor for unused resources
- monitor spend
- report on spend
- o view alerts in Azure Monitor logs

## **2 : Create and configure storage accounts**

- configure network access to the storage account
- create and configure storage account
- generate shared access signature
- implement Azure AD authentication for storage
- install and use Azure Storage Explorer
- manage access keys
- monitor activity log by using Azure Monitor logs
- implement Azure storage replication
- implement Azure storage account failover
- LAB
- configure network access to the storage account
- create and configure storage account
- generate shared access signature
- install and use Azure Storage Explorer
- manage access keys
- monitor activity log by using Azure Monitor logs

## **3: Create and configure a Virtual Machine (VM) for Windows and Linux configure high availability**

- configure high availability
- configure monitoring, networking, storage, and virtual machine size
- implement dedicated hosts
- deploy and configure scale sets
- LAB
- configure high availability
- configure monitoring, networking, storage, and virtual machine size
- deploy and configure scale sets

#### **4: Automate deployment of Virtual Machines (VMs)**

- Modify Azure Resource Manager template
- configure location of new VMs
- deploy from template
- save a deployment as an Azure Resource Manager template
- deploy Windows and Linux VMs
- LAB
- Modify Azure Resource Manager template
- configure location of new VMs
- deploy from template
- save a deployment as an Azure Resource Manager template
- deploy Windows VMs

#### **5: Create connectivity between virtual networks**

- create and configure VNET peering
- create and configure VNET to VNET connections
- verify virtual network connectivity
- create virtual network gateway
- LAB
- create and configure VNET peering
- create and configure VNET to VNET connections
- verify virtual network connectivity
- create virtual network gateway

#### **6: Implement and manage virtual networking**

- configure private and public IP addresses, network routes, network interface, subnets, and virtual network
- create and configure Network Security Groups and Application Security Groups
- LAB
- configure private and public IP addresses, network routes, network interface, subnets, and virtual network



## **7: Manage Azure Active Directory (AD) add custom domains**

- configure Azure AD Identity Protection, Azure AD Join, and Enterprise State Roaming
- configure self-service password reset
- implement conditional access policies
- manage multiple directories
- perform an access review
- LAB
- add custom domains
- configure self-service password reset
- implement conditional access policies

## **8: Implement and manage hybrid identities**

- install and configure Azure AD Connect
- configure federation and single sign-on
- manage and troubleshoot Azure AD Connect
- troubleshoot password sync and writeback
- LAB
- install and configure Azure AD Connect
- configure single sign-on
- Configure password sync and writeback

## **9: Implement solutions that use virtual machines (VM)**

- Provision VMs
- create Azure Resource Manager templates
- configure Azure Disk Encryption for VMs
- implement Azure Backup for VMs
- LAB
- provision VMs
- create Azure Resource Manager templates
- Implement Azure Backup for VMs

## **Module 2- Implement workloads and security**

## **10: migrate servers using Azure Migrate**

- Configure storage

- create a recovery services vault
- prepare source
- backup and restore data
- Understanding the cron jobs, crons, anacron, crontab,
- deploy Azure Site Recovery agent
- prepare virtual network
- LAB
- migrate servers using Azure Migrate
- create a recovery services vault
- prepare source
- backup and restore data
- deploy Azure Site Recovery agent
- prepare virtual network

## **11: Configure serverless computing**

- create and manage objects
- manage a Logic App resource
- manage Azure Function app settings
- manage Event Grid
- manage Service Bus
- LAB
- create and manage objects
- manage Azure Function app settings

## **12: Implement application load balancing**

- configure application gateway
- configure application gateway load balancing rules
- implement application gateway front end IP configurations
- troubleshoot application gateway load balancing
- configure Azure Front Door service
- configure Azure Traffic Manager
- LAB
- configure application gateway
- configure application gateway load balancing rules
- implement application gateway front end IP configurations
- configure Azure Traffic Manage



### **13. Integrate on-premises network with Azure virtual network**

- create and configure Azure VPN Gateway
- create and configure site to site VPN
- configure Express Route
- configure Virtual WAN
- verify on-premises connectivity
- manage on-premises connectivity with Azure
- LAB
- create and configure Azure VPN Gateway
- create and configure site to site VPN
- verify on-premises connectivity
- manage on-premises connectivity with Azure

### **14: Implement Multi-Factor Authentication (MFA)**

- configure user accounts for MFA
- configure fraud alerts
- configure bypass options
- configure trusted IPs
- configure verification methods
- LAB
- configure user accounts for MFA
- configure fraud alerts
- configure trusted IPs

### **15: Manage role-based access control (RBAC)**

- create a custom role
- configure access to Azure resources by assigning roles
- configure management access to Azure
- troubleshoot RBAC
- implement Azure policies
- assign RBAC roles

## **16: Create web apps by using PaaS**

- create an Azure App Service Web App
- create an App Service Web App for containers
- LAB
- create an Azure App Service Web App
- create an App Service Web App for containers

## **17.Design and develop apps that run in containers**

- configure diagnostic settings on resources
- create a container image by using a Docker file
- create an Azure Kubernetes Service
- publish an image to the Azure Container Registry
- implement an application that runs on an Azure Container Instance
- manage container settings by using code
- LAB
- create a container image by using a Docker file
- create an Azure Kubernetes Service
- publish an image to the Azure Container Registry

## **Module 3 - Implement authentication and secure data**

### **18 : Implement authentication**

- Implement authentication by using certificates, forms-based authentication, tokens, or Windows-integrated
- Authentication
- Implement multi-factor authentication by using Azure AD
- Implement OAuth2 authentication
- Implement Managed identities for Azure resources Service Principal authentication
- LAB
- implement multi-factor authentication by using Azure AD
- implement Managed identities for Azure resources Service Principal authentication

## 19 : Implement secure data solutions

- encrypt and decrypt data at rest and in transit
- encrypt data with Always Encrypted
- implement Azure Confidential Compute and SSL/TLS communications
- create, read, update, and delete keys, secrets, and certificates by using the KeyVault API
- LAB
- implement Azure Confidential Compute and SSL/TLS communications
- create, read, update, and delete keys, secrets, and certificates by using the KeyVault API

## Module 4 - Develop for the cloud and for Azure storage

### 20 :Develop solutions that use Cosmos DB storage

- create, read, update, and delete data by using appropriate APIs - Lesson
- implement partitioning schemes - Lesson
- set the appropriate consistency level for operations
- LAB
- create, read, update, and delete data by using SAS Key
- set the appropriate consistency level for operations

### 21 : Develop solutions that use a relational database

- provision and configure relational databases
- configure elastic pools for Azure SQL Database
- implement Azure SQL Database managed instances
- create, read, update, and delete data tables by using code
- implement Azure Cosmos Database
- LAB
- provision and configure relational databases
- configure elastic pools for Azure SQL Database
- implement Azure SQL Database managed instances
- implement Azure Cosmos Database

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