



MS Azure Cloud AZ-104

***“UNLOCK OPPORTUNITIES, POWER INNOVATION
WITH AZURE CLOUD”***

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



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Prodeep NK
MANAGING DIRECTOR

Microsoft Azure-104 Administration

Course Outline

Module 1: Identity

- In this module, you will learn how to secure identities with Azure Active Directory, and implement users and groups.

Lessons

- Azure Active Directory.
- Users and Groups
- **LAB : Manage Azure Active Directory Identities**
- After completing this module, students will be able to:
- Secure and manage identities with Azure Active Directory.
- Implement and manage users and groups.

Module 2: Governance and Compliance

- In this module, you will learn about managing your subscriptions and accounts, implementing Azure policies, and using Role-Based Access Control.

Lessons

- Subscriptions and Accounts
- Azure Policy
- Role-based Access Control (RBAC)

- **Lab : Manage Subscriptions and RBAC**
- **Lab : Manage Governance via Azure Policy**
- After completing this module, students will be able to:
- Implement and manage Azure subscriptions and accounts.
- Implement Azure Policy, including custom policies.
- Use RBAC tassign permissions.

Module 3: Azure Administration

- In this module, you will learn about the tools an Azure Administrator uses tmanage their infrastructure. This
- includes the Azure Portal, Cloud Shell, Azure PowerShell, CLI, and Resource Manager Templates. This module
- includes:

Lessons

- Azure Resource Manager
- Azure Portal and Cloud Shell
- Azure PowerShell and CLI
- ARM Templates
- **Lab : Manage Azure resources by Using the Azure Portal**
- **Lab : Manage Azure resources by Using ARM Templates**
- **Lab : Manage Azure resources by Using Azure PowerShell**
- **Lab : Manage Azure resources by Using Azure CLI**
- After completing this module, students will be able to:
- Leverage Azure Resource Manager to organize resources.
- Use the Azure Portal and Cloud Shell.
- Use Azure PowerShell and CLI.
- Use ARM Templates to deploy resources.

Module 4: Virtual Networking

- In this module, you will learn about basic virtual networking concepts like virtual networks and subnetting, IP
- addressing, network security groups, Azure Firewall, and Azure DNS.

Lessons

- Virtual Networks
- IP Addressing
- Network Security groups
- Azure Firewall
- Azure DNS
- **Lab : Implement Virtual Networking**
 - After completing this module, students will be able to:
 - Implement virtual networks and subnets.
 - Configure public and private IP addressing.
 - Configure network security groups.
 - Configure Azure Firewall.
 - Configure private and public DNS zones.

Module 5: Intersite Connectivity

- In this module, you will learn about intersite connectivity features including VNet Peering, Virtual Network
- Gateways, and Site-to-Site Connections.

Lessons

- VNet Peering
- VPN Gateway Connections
- ExpressRoute and Virtual WAN
- **Lab : Implement Intersite Connectivity**

- After completing this module, students will be able to:
- Configure VNet Peering.
- Configure VPN gateways.
- Choose the appropriate intersite connectivity solution.

Module 6: Network Traffic Management

- In this module, you will learn about network traffic strategies including network routing and service endpoints,
- Azure Load Balancer, Azure Application Gateway, and Traffic Manager.

Lessons

- Network Routing and Endpoints
- Azure Load Balancer
- Azure Application Gateway
- Traffic Manager
- **Lab : Implement Traffic Management**
 - After completing this module, students will be able to:
 - Configure network routing including custom routes and service endpoints.
 - Configure an Azure Load Balancer.
 - Configure and Azure Application Gateway.
 - Choose the appropriate network traffic solution

Module 7: Azure Storage

- In this module, you will learn about basic storage features including storage accounts, blob storage, Azure files
- and File Sync, storage security, and storage tools.

Lessons

- Storage Accounts
- Blob Storage
- Storage Security
- Azure Files and File Sync

- Managing Storage
- **Lab : Manage Azure storage**
- After completing this module, students will be able to:
- Create Azure storage accounts.
- Configure blob containers.
- Secure Azure storage.
- Configure Azure files shares and file sync.
- Manage storage with tools such as Storage Explorer.

Module 8: Azure Virtual Machines

- In this module, you will learn about Azure virtual machines including planning, creating, availability and extensions.

Lessons

- Virtual Machine Planning
- Creating Virtual Machines
- Virtual Machine Availability
- Virtual Machine Extensions
- **Lab : Manage virtual machines**
- After completing this module, students will be able to:
- Plan for virtual machine implementations.
- Create virtual machines.
- Configure virtual machine availability, including scale sets.
- Use virtual machine extensions.

Module 9: Serverless Computing

- In this module, you will learn administer serverless computing features like Azure App Service, Azure Container
- Instances, and Kubernetes.

Lessons

- Azure App Service Plans
- Azure App Service
- Container Services
- Azure Kubernetes Service
- **Lab : Implement Web Apps**
- **Lab : Implement Azure Container Instances**
- **Lab : Implement Azure Kubernetes Service**
- After completing this module, students will be able to
- Create an app service plan.
- Create a web app.
- Implement Azure Container Instances.
- Implement Azure Kubernetes Service.

Module 10: Data Protection

- In this module, you will learn about backing up files and folders, and virtual machine backups.

Lessons

- File and Folder Backups
- Virtual Machine Backups

- **Lab : Implement Data Protection**

- After completing this module, students will be able to:
- Backup and restore file and folders.
- Backup and restore virtual machines.

Module 11: Monitoring

- In this module, you will learn about monitoring your Azure infrastructure including Azure Monitor, alerting, and log analytics.

Lessons

- Azure Monitor
- Azure Alerts
- Log Analytics
- Network Watcher

Lab : Implement Monitoring

- After completing this module, students will be able to:
- Use Azure Monitor.
- Create Azure alerts.
- Query using Log Analytics.
- Use Network Watcher.

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