BOOT CAMP- Azure-Administrator

Duration :- 15 Days Regular Track
Duration :- 8 Days Fast Track

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Azure Fundamental

Microsoft Azure Fundamentals: Describe cloud concepts

Module 1: Describe cloud computing

Module 2: Describe the benefits of using cloud services

Module 3: Describe cloud service types

Azure Fundamentals: Describe Azure architecture and services

Module 1: Describe the core architectural components of Azure

Module 2: Describe Azure compute and networking services

Module 3: Describe Azure storage services

Module 4: Describe Azure identity, access, and security

Azure Fundamentals: Describe Azure management and governance

Module 1: Describe cost management in Azure

Module 2: Describe features and tools in Azure for governance and compliance

Module 3: Describe features and tools for managing and deploying Azure resources

Module 4: Describe monitoring tools in Azure

Azure Administration

Administer Identity

Module 1: Configure Azure Active Directory

Module 2: Configure User and Group Accounts

Administer Governance and Compliance

Module 1: Configure Subscriptions
Module 2: Configure Azure Policy
Module 3: Configure Role Based Access Control

Administer Azure Resources

Module 1: Configure Azure Resources with Tools

Module 2: Configure Resources with ARM Templates

Administer Virtual Networking

Module 1: Configure Virtual Networks

Module 2: Configure Network Groups

Module 3: Configure Azure Firewall

Module 4: Configure Network Watcher

Administer Intersite Connectivity

Module 1: Configure VNet Peering
Module 2: Configure VPN Gateway
Module 3: Configure ExpressRoute and Virtual WAN

Administer Network Traffic

Module 1: Configure Network Routing and Endpoints

Module 2: Configure Azure Load Balancer
Module 3: Configure Azure Application Gateway

Administer Azure Storage

Module 1: Configure Storage Accounts

Module 2: Configure Blob Storage

Module 3: Configure Storage Security

Module 4: Configure Azure Files and File Sync

Administer Azure Virtual Machines

Module 1: Configure Virtual Machines

Module 2: Configure Virtual Machine Availability

Module 3: Configure Virtual Machine Extensions

Administer PaaS Compute Options

Module 1: Configure Azure App Service Plans

Module 2: Configure Azure App Service

Module 3: Configure Azure Container Instances

Module 4: Configure Azure Kubernetes

Administer Data Protection

Module 1: Configure File and Folder Backups

Module 2: Configure Virtual Machine Backups

Administer Monitoring

Module 1: Configure Azure Monitor

Module 2: Configure Azure Alerts

Module 3: Configure Log Analytics

Azure Networking

Introduction to Azure Virtual Networks

- Explore Azure Virtual Networks
- Configure public IP services
- Exercise: design and implement a Virtual Network in Azure
- Design name resolution for your Virtual Network
- Exercise: configure DNS settings in Azure
- Enable Cross-VNet connectivity with peering
- Exercise: connect two Azure Virtual Networks using global virtual network peering
- Implement virtual network traffic routing
- Configure internet access with Azure Virtual NAT

Design and implement Hybrid Networking

- Design and implement Azure VPN Gateway
- Exercise: create and configure a virtual network gateway
- Connect networks with Site-to-site VPN connections
- Connect devices to networks with Point-to-site VPN connections
- Connect remote resources by using Azure Virtual WANs
- Exercise: create a Virtual WAN by using Azure Portal
- Create a network virtual appliance (NVA) in a virtual hub

Design and implement Azure ExpressRoute

- Explore Azure ExpressRoute
- Design an ExpressRoute deployment
- Exercise: configure an ExpressRoute gateway
- Exercise: provision an ExpressRoute circuit
- Configure peering for an ExpressRoute deployment
- Connect an ExpressRoute circuit to a VNet
- Connect geographically dispersed networks with ExpressRoute Global Reach
- Improve data path performance between networks with ExpressRoute FastPath
- Troubleshoot ExpressRoute connection issues

Load balance non-HTTP(S) traffic in Azure

- Explore load balancing
- Design and implement Azure load balancer using the Azure portal
- Exercise: create and configure an Azure load balancer
- Explore Azure Traffic Manager
- Exercise: create a Traffic Manager profile using the Azure portal

Load balance HTTP(S) traffic in Azure

- Design Azure application gateway
- Configure Azure application gateway
- Exercise: deploy Azure application gateway
- Design and configure Azure front door
- Exercise: create a front door for a highly available web application

Design and implement Network security

- Secure your virtual networks in the Azure portal
- Deploy Azure DDoS Protection by using the Azure portal
- Exercise: configure DDoS Protection on a virtual network using the Azure portal
- Deploy Network Security Groups by using the Azure portal
- Design and implement Azure Firewall
- Exercise: deploy and configure Azure Firewall using the Azure portal
- Working with Azure Firewall Manager
- Exercise: secure your virtual hub using Azure Firewall Manager
- Implement a Web Application Firewall on Azure Front Door

Design and implement private access to Azure Services

- Explain virtual network service endpoints
- Define Private Link Service and private endpoint
- Integrate Private Link with DNS
- Exercise: restrict network access to PaaS resources with virtual network service endpoints
- Exercise: create an Azure private endpoint using Azure PowerShell
- Integrate your App Service with Azure virtual networks

Design and implement network monitoring

- Monitor your networks with Azure Monitor
- Exercise: Monitor a load balancer resource by using Azure Monitor
- Monitor your networks with Azure Network Watcher

Azure Administration with Command and Script

- Azure PowerShell
- Azure CLI
- Azure ARM
- Azure Bicep
- Terraform
- IAC (Infrastructure as a code)