

# Prepare

# AZ-104

## Azure Administrator



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# AZURE PRACTICAL BASED LEARNING GUIDE

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## What do you learn in AZ-104: Microsoft Azure Administrator?

- Manage Azure identities and governance
- Implement and manage storage
- Deploy and manage Azure compute resources;
- Configure and manage virtual networking
- Monitor and back up Azure resources

**Pre- requisite:** Basic knowledge of Networking

### 1. MANAGE AZURE IDENTITIES AND GOVERNANCE

#### MANAGE AZURE ACTIVE DIRECTORY (AZURE AD) OBJECTS

- create users and groups
- manage user and group properties
- manage device settings
- perform bulk user updates
- manage guest accounts
- configure Azure AD join
- configure self-service password reset

### 2. MANAGE ROLE-BASED ACCESS CONTROL (RBAC)

- create a custom role
- provide access to Azure resources by assigning roles at different scopes
- interpret access assignments

### 3. DEPLOY AND MANAGE AZURE COMPUTE RESOURCES

#### AUTOMATE DEPLOYMENT OF VIRTUAL MACHINES (VMS) BY USING AZURE RESOURCE MANAGER TEMPLATES

- modify an Azure Resource Manager template
- configure a virtual hard disk (VHD) template
- deploy from a template
- save a deployment as an Azure Resource Manager template
- deploy virtual machine extensions

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## 4. CONFIGURE VMS

- configure Azure Disk Encryption
- move VMs from one resource group to another
- manage VM sizes
- add data disks
- configure networking
- redeploy VMs
- configure high-availability
- deploy and configure scale sets

## 5. CREATE AND CONFIGURE AZURE APP SERVICE

- create an App Service plan
- configure scaling settings in an App Service plan
- create an App Service
- secure an App Service
- configure custom domain names
- configure backup for an App Service
- configure networking settings
- configure deployment settings

## 6. CONFIGURE AND MANAGE VIRTUAL NETWORKING

### IMPLEMENT AND MANAGE VIRTUAL NETWORKING

- create and configure virtual networks, including peering
- configure private and public IP addresses
- configure user-defined network routes
- implement subnets
- configure endpoints on subnets
- configure private endpoints
- configure Azure DNS, including custom DNS settings and private or public DNS zones

## 7. SECURE ACCESS TO VIRTUAL NETWORKS

- create security rules
- associate a network security group (NSG) to a subnet or network interface
- evaluate effective security rules
- implement Azure Firewall
- implement Azure Bastion

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## 8. CONFIGURE LOAD BALANCING

- configure Azure Application Gateway
- configure an internal or public load balancer
- troubleshoot load balancing

## 9. MONITOR AND TROUBLESHOOT VIRTUAL NETWORKING

- monitor on-premises connectivity
- configure and use Network Performance Monitor
- troubleshoot external networking
- troubleshoot virtual network connectivity

## 10. INTEGRATE AN ON-PREMISES NETWORK WITH AN AZURE VIRTUAL NETWORK

- create and configure Azure VPN Gateway
- create and configure Azure ExpressRoute
- configure Azure Virtual WAN

## 11. MONITOR AND BACK UP AZURE RESOURCES

### MONITOR RESOURCES BY USING AZURE MONITOR

- configure and interpret metrics
- configure Azure Monitor logs
- query and analyze logs
- set up alerts and actions

## 12. IMPLEMENT BACKUP AND RECOVERY

- create a Recovery Services vault
- create and configure a backup policy
- perform backup and restore operations by using Azure Backup
- perform site-to-site recovery by using Azure Site Recovery
- configure and review backup reports