**AZ-104: Microsoft Azure Administrator**

**Practice Test 1 MCQs**

1. Your company has multiple virtual machines (VMs) in a single resource group. You want to logically organize these VMs by department without moving them. What should you do?  
   A) Create separate resource groups for each department  
   B) Assign tags to each VM indicating the department  
   C) Move VMs to different subscriptions  
   D) Use Azure Management Groups for each department
2. You need to enforce that all members of the Global Administrators group use Multi-Factor Authentication (MFA) and only access Azure resources from Azure AD-joined devices. Which Azure feature should you use?  
   A) Azure AD Conditional Access Policy  
   B) Azure AD Privileged Identity Management  
   C) Role-Based Access Control (RBAC)  
   D) Azure Policy
3. Which Azure service allows you to monitor and analyze the performance and health of your Azure virtual machines?  
   A) Azure Monitor  
   B) Azure Security Center  
   C) Azure Advisor  
   D) Azure Sentinel
4. You want to automate the deployment of multiple identical VMs with the same configuration in Azure. Which tool should you use?  
   A) Azure Resource Manager (ARM) templates  
   B) Azure CLI interactive mode  
   C) Azure Portal manual deployment  
   D) Azure DevOps Pipelines
5. You have an Azure Storage account and want to ensure that all blobs are encrypted using customer-managed keys stored in Azure Key Vault. What must you configure?  
   A) Enable Azure Storage Service Encryption with Microsoft-managed keys  
   B) Enable Azure Storage Service Encryption with customer-managed keys  
   C) Enable Azure Disk Encryption  
   D) Enable Azure Defender for Storage
6. You want to provide temporary access to an Azure Blob storage container for a third-party vendor without sharing your storage account keys. What should you use?  
   A) Shared Access Signature (SAS)  
   B) Storage Account Keys  
   C) Azure AD Role Assignment  
   D) Azure Private Endpoint
7. Your company requires that all virtual machines use managed disks. Which of the following is a benefit of managed disks over unmanaged disks?  
   A) Managed disks provide automatic backup  
   B) Managed disks eliminate the need to manage storage accounts  
   C) Managed disks are cheaper than unmanaged disks  
   D) Managed disks do not support snapshots
8. You have an Azure virtual network with multiple subnets. You want to restrict inbound traffic to a subnet to only allow HTTP and HTTPS traffic. What should you configure?  
   A) Network Security Group (NSG) with inbound rules  
   B) Azure Firewall with application rules  
   C) Azure DDoS Protection  
   D) Route Table with forced tunneling
9. You want to implement Azure AD Privileged Identity Management (PIM) to enforce just-in-time (JIT) access for administrators. What is a key benefit of using PIM?  
   A) Permanent elevated access for all admins  
   B) Time-limited access with approval workflow  
   C) Automatic password rotation  
   D) Multi-factor authentication enforcement
10. You need to configure Azure Backup to protect on-premises Windows servers. Which Azure Backup component should you install on the servers?  
    A) Azure Backup Agent  
    B) Azure Site Recovery Provider  
    C) Azure Monitor Agent  
    D) Azure Arc
11. Your organization wants to enforce naming conventions for Microsoft Entra groups, such that all group names start with the department name prefix. How can you achieve this?  
    A) Use Group Naming Policy in Microsoft Entra ID  
    B) Rename groups manually as they are created  
    C) Use Azure Policy to enforce group names  
    D) Use PowerShell scripts to rename groups daily
12. You want to deploy an Azure Kubernetes Service (AKS) cluster with autoscaling enabled. Which component manages the scaling of the nodes?  
    A) Cluster Autoscaler  
    B) Azure Monitor  
    C) Azure Policy  
    D) Azure Load Balancer
13. You need to restrict access to an Azure SQL Database to only allow connections from a specific Azure virtual network subnet. What should you configure?  
    A) Virtual Network Service Endpoints  
    B) Azure Firewall  
    C) Network Security Group (NSG)  
    D) Private Link
14. You want to monitor the CPU utilization of Azure VMs and trigger an alert if it exceeds 80% for 5 minutes. Which Azure service should you use?  
    A) Azure Monitor Metrics and Alerts  
    B) Azure Security Center  
    C) Azure Advisor  
    D) Azure Sentinel
15. You have an Azure VM that is part of an availability set. You want to ensure the VM is automatically backed up daily. Which Azure service should you use?  
    A) Azure Backup with VM backup  
    B) Azure Site Recovery  
    C) Azure Automation  
    D) Azure Monitor
16. You want to deploy a new Azure VM and ensure it is joined to your on-premises Active Directory domain during provisioning. Which tool or service should you use?  
    A) Azure AD Domain Services  
    B) Azure Arc  
    C) Azure VM Custom Script Extension  
    D) Azure AD Join
17. You want to create a custom role in Azure RBAC that allows users to restart virtual machines but not delete them. Which permission should you include?  
    A) Microsoft.Compute/virtualMachines/restart/action  
    B) Microsoft.Compute/virtualMachines/delete/action  
    C) Microsoft.Compute/virtualMachines/start/action  
    D) Microsoft.Compute/virtualMachines/write
18. You want to implement Azure Policy to audit whether all storage accounts have secure transfer enabled. Which effect should you use in the policy definition?  
    A) Audit  
    B) Deny  
    C) Append  
    D) DeployIfNotExists
19. You want to ensure that all Azure resources in a subscription are tagged with a cost center tag. Which Azure feature allows you to enforce this?  
    A) Azure Policy with a required tag rule  
    B) Azure Role-Based Access Control  
    C) Azure Management Groups  
    D) Azure Monitor
20. You need to configure Azure AD to allow users to sign in using their social media accounts such as Google or Facebook. Which Azure AD feature supports this?  
    A) Azure AD B2C (Business to Consumer)  
    B) Azure AD Privileged Identity Management  
    C) Azure AD Conditional Access  
    D) Azure AD Connect
21. You want to deploy an Azure VM scale set with custom images. Which Azure service or tool should you use to create and manage the custom images?  
    A) Azure Compute Gallery (Shared Image Gallery)  
    B) Azure Marketplace  
    C) Azure DevOps Pipelines  
    D) Azure Blob Storage
22. You want to ensure that a web application hosted in Azure App Service can only be accessed from your corporate network. What should you configure?  
    A) Access Restrictions (IP Filtering) on App Service  
    B) Azure Firewall  
    C) Azure DDoS Protection  
    D) Network Security Group on subnet
23. You want to encrypt data in transit between your Azure VM and Azure SQL Database. Which protocol should you ensure is enabled?  
    A) TLS (Transport Layer Security)  
    B) IPsec  
    C) SSH  
    D) FTP
24. You want to automate the patching of your Azure VMs during a specified maintenance window. Which Azure service should you use?  
    A) Azure Update Management  
    B) Azure Automation Runbooks  
    C) Azure Monitor Alerts  
    D) Azure Security Center
25. You want to configure Azure AD Connect to synchronize only specific organizational units (OUs) from your on-premises Active Directory. Which feature allows this?  
    A) OU Filtering  
    B) Password Hash Synchronization  
    C) Pass-through Authentication  
    D) Federation
26. You need to implement Azure Bastion to provide secure RDP and SSH access to your VMs without exposing public IP addresses. Which network configuration is required?  
    A) Deploy Azure Bastion in the virtual network containing the VMs  
    B) Assign public IP addresses to VMs  
    C) Configure NSG to allow inbound RDP/SSH from internet  
    D) Create VPN Gateway
27. You want to deploy an Azure Firewall to control outbound internet traffic from your virtual network. Which feature allows you to create application-level filtering rules?  
    A) Application Rules  
    B) Network Rules  
    C) Route Tables  
    D) NSG Rules
28. You want to implement Azure Monitor Logs to collect logs from your Azure VMs and analyze them. Which agent must be installed on the VMs?  
    A) Azure Monitor Agent (AMA)  
    B) Azure Backup Agent  
    C) Log Analytics Agent (MMA)  
    D) Azure Security Center Agent
29. You want to configure Azure AD to require MFA for all users accessing Azure resources from outside the corporate network. Which feature should you implement?  
    A) Conditional Access Policy based on location  
    B) Azure AD Identity Protection  
    C) Azure AD Privileged Identity Management  
    D) Azure AD Password Protection
30. You want to create a virtual network peering between two Azure virtual networks in different subscriptions. Which of the following is true?  
    A) Both subscriptions must be under the same Azure AD tenant  
    B) Peering is not supported across subscriptions  
    C) Peering requires VPN Gateway  
    D) Peering automatically configures NSGs
31. You want to deploy an Azure VM with ephemeral OS disk to improve boot times. Which VM feature allows this?  
    A) Ephemeral OS Disk  
    B) Managed Disk  
    C) Premium SSD  
    D) Ultra Disk
32. You want to implement Azure Policy to automatically remediate non-compliant storage accounts by enabling secure transfer. Which policy effect should you use?  
    A) DeployIfNotExists  
    B) Audit  
    C) Deny  
    D) Append
33. You need to configure Azure AD to allow users to reset their passwords without administrator intervention. Which feature should you enable?  
    A) Self-Service Password Reset (SSPR)  
    B) Azure AD Privileged Identity Management  
    C) Azure AD Conditional Access  
    D) Azure AD B2B
34. You want to monitor network traffic between subnets in a virtual network. Which Azure service provides flow logs for NSGs?  
    A) Network Watcher NSG Flow Logs  
    B) Azure Monitor Metrics  
    C) Azure Firewall Logs  
    D) Azure Sentinel
35. You want to configure Azure AD to synchronize password hashes from on-premises Active Directory. Which synchronization method does this?  
    A) Password Hash Synchronization  
    B) Pass-through Authentication  
    C) Federation with ADFS  
    D) Seamless Single Sign-On
36. You want to deploy an Azure VM scale set with automatic OS upgrades enabled. Which setting should you configure?  
    A) Upgrade Policy with Automatic mode  
    B) Manual upgrade mode  
    C) Rolling upgrade mode  
    D) Scheduled upgrade mode
37. You want to restrict access to an Azure Key Vault to only specific Azure virtual networks. Which feature should you use?  
    A) Virtual Network Service Endpoints for Key Vault  
    B) Azure Firewall  
    C) NSG rules on subnet  
    D) Azure Policy
38. You want to configure Azure Monitor to collect performance counters from your Windows VMs. Which data source should you add?  
    A) Performance Counters  
    B) Event Logs  
    C) Syslog  
    D) Azure Activity Logs
39. You want to create an Azure AD dynamic group that automatically includes users from the Sales department. Which attribute should you use in the membership rule?  
    A) Department  
    B) Job Title  
    C) User Principal Name  
    D) Object Id
40. You want to deploy an Azure VM with a custom script extension to install software after provisioning. Which Azure resource type should you use?  
    A) Microsoft.Compute/virtualMachines/extensions  
    B) Microsoft.Automation/automationAccounts  
    C) Microsoft.DevTestLab/schedules  
    D) Microsoft.OperationsManagement/solutions
41. You want to ensure that all Azure VMs are deployed with a specific tag indicating the environment (e.g., "Production"). Which Azure feature can enforce this at deployment?  
    A) Azure Policy with append effect  
    B) Azure RBAC  
    C) Azure Management Groups  
    D) Azure Monitor
42. You want to implement Azure AD Privileged Identity Management (PIM) to require approval for activating a role. Which role setting should you configure?  
    A) Activation requires approval  
    B) Permanent assignment  
    C) Multi-factor authentication disabled  
    D) Role expiration disabled
43. You want to configure Azure Backup to retain backups for 1 year with daily backups. Which retention policy should you configure?  
    A) Daily retention with 365 days  
    B) Weekly retention with 52 weeks  
    C) Monthly retention with 12 months  
    D) Yearly retention with 1 year
44. You want to deploy an Azure App Service with deployment slots for staging and production. Which feature allows you to swap slots with no downtime?  
    A) Slot Swap  
    B) Blue-Green Deployment  
    C) Canary Release  
    D) Traffic Manager
45. You want to secure Azure Storage access by allowing only trusted Microsoft services to bypass the firewall. Which setting should you enable?  
    A) Allow trusted Microsoft services to access this storage account  
    B) Enable Azure Defender for Storage  
    C) Enable Private Endpoint  
    D) Configure Service Endpoints
46. You want to configure Azure AD to require MFA only when users access Azure resources from unmanaged devices. Which Conditional Access condition should you use?  
    A) Device state condition  
    B) Location condition  
    C) Application condition  
    D) User risk condition
47. You want to deploy an Azure VM with a managed identity to access Azure Key Vault secrets. Which managed identity type should you use?  
    A) System-assigned managed identity  
    B) User-assigned managed identity  
    C) Service principal  
    D) Azure AD Application
48. You want to monitor the health and performance of your Azure SQL Database. Which Azure service provides advanced threat protection and performance recommendations?  
    A) Azure SQL Analytics  
    B) Azure Monitor  
    C) Azure Security Center  
    D) Azure Advisor
49. You want to configure an Azure virtual network to route traffic through a network virtual appliance (NVA) for inspection. Which Azure feature enables this?  
    A) User-Defined Routes (UDR)  
    B) Azure Firewall  
    C) NSG rules  
    D) Azure DDoS Protection
50. You want to configure Azure AD Connect to enable seamless single sign-on (SSO) for on-premises users. Which feature must be enabled?  
    A) Seamless Single Sign-On  
    B) Password Hash Synchronization  
    C) Pass-through Authentication  
    D) Federation with ADFS