

AZ-104 – Complete Zero-Miss Revision Checklist

1. Azure Core Fundamentals

- Cloud models – IaaS, PaaS, SaaS
- CapEx vs OpEx
- Regions, Availability Zones, Region Pairs
- High Availability, Scalability, Elasticity
- Resource, Resource Group, Subscription, Tenant
- Management Groups, ARM, Resource Providers
- Tags and Resource Locks

2. Identity and Access Management

- Azure AD / Entra ID concepts
- Users, Groups, Devices
- Tenants and Directories
- Authentication vs Authorization
- MFA, Conditional Access, SSPR
- Azure AD Connect, Hybrid identity
- RBAC scopes and built-in roles
- Custom roles and role assignments

3. App Registrations & Service Principals

- App Registration
- Enterprise Application
- Service Principal
- Client ID, Tenant ID
- Secrets and Certificates
- API Permissions
- Delegated vs Application permissions
- Managed Identities – system and user assigned

4. Governance

- Azure Policy and Initiatives
- Policy assignment and remediation
- Blueprints
- Cost Management and Budgets
- Azure Advisor
- Resource Graph
- Azure Lighthouse and Azure Arc

5. Networking

- VNet and Subnets

- IP addressing and CIDR
- NSG and ASG
- Route Tables and UDR
- VNet Peering and Global Peering
- VPN Gateway and ExpressRoute
- Load Balancer and Application Gateway
- Traffic Manager and Front Door
- Service Endpoint vs Private Endpoint
- Azure Bastion
- Azure Firewall and DDoS Protection
- Network Watcher tools

6. Virtual Machines

- VM creation and management
- Managed disks and disk types
- Availability Sets and Zones
- Scale Sets
- Snapshots and Images
- Extensions and diagnostics
- Auto-shutdown and resizing

7. Storage

- Storage account types
- Blobs, Files, Queues, Tables
- LRS, ZRS, GRS, GZRS
- Hot, Cool, Archive tiers
- SAS tokens and access keys
- Lifecycle management
- Soft delete and versioning
- Azure File Sync
- AzCopy and Storage Explorer

8. Backup and Disaster Recovery

- Recovery Services Vault
- VM backup and restore
- Azure Site Recovery
- Replication, failover, failback
- MARS agent

9. Monitoring

- Azure Monitor
- Metrics and Logs
- Alerts and Action Groups
- Diagnostic settings
- Log Analytics
- Application Insights
- KQL basics

10. App Services

- App Service Plans
- Web Apps
- Scaling
- Deployment slots
- Custom domains and SSL
- Function Apps

11. Containers

- Azure Container Instances
- Azure Kubernetes Service basics
- Azure Container Registry

12. Automation

- ARM Templates
- Bicep
- Azure CLI
- PowerShell
- Automation Accounts and Runbooks

13. Security

- Microsoft Defender for Cloud
- Just-in-Time VM Access
- Key Vault – secrets, keys, certificates
- Managed Identities
- Security Center recommendations

14. Migration

- Azure Migrate
- Database Migration Service
- Data Box scenarios

15. Must-Know Comparisons

- App Registration vs Enterprise App
- Service Principal vs Managed Identity
- NSG vs ASG
- Service Endpoint vs Private Endpoint
- Load Balancer vs Application Gateway
- VPN vs ExpressRoute
- Policy vs RBAC
- Availability Set vs Availability Zone

- Snapshot vs Image
- Metrics vs Logs