Section 6: Infrastructure Strategy
Preparation Course for Exam AZ-301
Microsoft Azure Architect Design

Design an infrastructure strategy (15-20%)

Design a Storage Strategy

Design a storage provisioning strategy; design storage access strategy; identify storage requirements; recommend a storage solution and storage management tools

- Introduction to Azure Storage
- Deciding when to use Azure Blobs, Azure Files, or Azure Disks
- What is Azure Blob storage?
- Introduction to Azure Data Lake Storage Gen2
- Azure Storage Overview pricing
- Azure Storage Client Tools

Design a Compute Strategy

Design compute provisioning and secure compute strategies; determine appropriate compute technologies (e.g., virtual machines, functions, service fabric, container instances, etc.); design an Azure HPC environment; identify compute requirements; recommend management tools for compute

- Overview of Azure compute options
- Decision tree for Azure compute services
- Criteria for choosing an Azure compute service
- High Performance Computing (HPC) on Azure
- What is Azure Batch?
- Overview of Azure compute options
- Use infrastructure automation tools with virtual machines in Azure
- How to monitor virtual machines in Azure

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Design a Networking Strategy

Design network provisioning and network security strategies; determine appropriate network connectivity technologies; identify networking requirements; recommend network management tools

- Azure network security overview
- Security groups
- Virtual Network Service Endpoints
- Configure VPN gateway transit for virtual network peering
- Azure best practices for network security
- Plan virtual networks
- What is Azure Network Watcher?

Design a Monitoring Strategy for Infrastructure

Design for alert notifications; design an alert and metrics strategy

- Azure Monitor overview
- Overview of alerts in Microsoft Azure
- Understand how metric alerts work in Azure Monitor

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