

Security and Compliance

- ☐ **Azure Firewall:** Protects your network with centralized traffic filtering and monitoring.
- ☐ **Network Security Groups (NSGs):** Define and enforce inbound/outbound traffic rules for ☐ subnets and network interfaces.
- ☐ **Azure DDoS Protection:** Automatically mitigates DDoS attacks to safeguard your applications.
- ☐ **Azure Private Link:** Establishes private endpoints for secure access to Azure services.
- ☐ **Azure Bastion:** Provides secure and seamless RDP/SSH access to Azure VMs without public exposure.
- ☐ **Microsoft Defender for Cloud:** Monitors and improves security posture for hybrid and cloud workloads.
- ☐ **Azure Policy:** Automates compliance enforcement for standards like ISO27001 and NIS².

Monitoring and Management

- ☐ **Azure Monitor:** Delivers end-to-end observability for metrics, logs, and diagnostics.
- ☐ **Log Analytics:** Facilitates centralized querying and analysis of logs from network and security components.
- ☐ **Network Watcher:** Offers powerful tools for network diagnostics, monitoring, and visualization.

Azure Services - Hybrid Connectivity Enhancements

- ☐ **EntraID / Entra Connect:** Unifies identity and access management for cloud and On-Premises resources.
- ☐ **Azure Arc (Optional):** Extends Azure's management and security capabilities to On-Premises and multi-cloud environments.
- ☐ **Azure File Sync:** Seamlessly integrates On-Premises file servers with Azure Files for hybrid storage solutions.
- ☐ **Azure Storage (Blob and File):** Reliable, scalable cloud storage for data and backups.

Core Networking

- ☐ **Virtual Network (VNet):** Foundation for hosting Azure resources and ensuring network segmentation. Allows subnets for different workloads (e.g., app, database).
- ☐ **Azure VPN Gateway:** Enables secure site-to-site or point-to-site connectivity between On-Premises and Azure.
- ☐ **ExpressRoute:** Provides dedicated, private, high-bandwidth connectivity to Azure.
- ☐ **Azure Virtual WAN (Optional):** Simplifies global network architecture and provides branch-to-Azure and branch-to-branch connectivity.
- ☐ **Azure DNS:** Provides name resolution for resources within and outside Azure.

Scalability and Performance

- ☐ **Azure Load Balancer:** Balances traffic across VMs, ensuring high availability.
- ☐ **Azure Application Gateway:** Provides advanced Layer 7 routing, SSL termination, and web application firewall (WAF) features.
- ☐ **Traffic Manager:** Uses DNS-based routing to distribute traffic across multiple Azure regions.

IoT and Edge Scenarios

- ☐ **Azure IoT Hub (if IoT integration is required):** Facilitates secure and scalable device-to-cloud communication.
- ☐ **Azure Edge Zones (Optional):** Brings Azure services closer to users for low-latency applications.
- ☐ **Azure Content Delivery Network (CDN):** Speeds up content delivery through caching at global edge locations.

Additional Resources for Redundancy

- ☐ **Azure Availability Zones:** Enhance fault tolerance by distributing resources across isolated zones within a region.
- ☐ **Azure Region Pairing:** Leverages geographically paired Azure regions for disaster recovery and geo-redundancy.



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