

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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