

Network Topology and Connectivity -Azure Cheat Sheet by haraldthegrey via cheatography.com/210542/cs/45408/

Network Architecture: Design Principles	Regional Network Infrastructure
 □ Segmentation: Use VNets for workload separation. Subnets for different applications (web, database, API). □ Security: Apply NSGs for traffic filtering. □ Regional Architecture: Implement Availability Zones for high 	 ☐ Regions: Select nearest Azure region to minimize latency; use multiple for redundancy. ☐ Availability Zones: Protect against datacenter-level failures. ☐ Documentation: Keep security and network topology updated.
availability. Scalability: Design for automated scaling and modular structures.	Best Practices
Security Solutions and Standards Azure Firewall: Centralized access management. Integrates with	 ☐ Monitoring: Utilize Azure Monitor and Log Analytics for insights. ☐ Updates: Regularly revise policies per ISO27001 and NIS² standards.
Azure Sentinel. ☐ Network Security Groups: Control traffic via IP, port, and protocol	Example Architecture
for subnets and VMs. Azure Private Link: Secure access via private endpoints, isolated from the public internet. Compliance Standards: ISO27001 and NIS² for documented security policies.	 □ Connectivity: On-Premises VPN Gateway ↔ Azure VPN Gateway. □ Redundancy: Primary and Secondary Regions configured. □ Security: Azure Firewall and NSGs filter traffic.
	Connections Overview
Network Connectivity: On-Premises Integration VPN Gateway: Cost-effective secured connections with limited bandwidth. ExpressRoute: Dedicated connection with high bandwidth and no	 ☐ Use VPN for secure connections or <i>ExpressRoute</i> for dedicated bandwidth. ☐ Prioritize security through <i>AZs</i> and <i>NSGs</i>.
internet dependency. Scalability: Dynamic scaling with Azure Virtual WAN and modular	Key Metrics to Monitor
extensions.	☐ Performance : Check bandwidth and latency for both <i>VPN</i> and <i>ExpressRoute</i> .
Hybrid Network Infrastructure	☐ Usage: Analyze traffic patterns with <i>Azure Monitor</i> .
 □ Architecture Components: On-Premises Datacenter linked via VPN Gateway or ExpressRoute. □ Firewalls: Local security segmentation and Azure integration. □ Security Mechanisms: Use Private Link for secure traffic; monitor via Azure Monitor. 	

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