

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

Network Architecture: Design Principles	Hybrid 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 availability. 	 □ 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.
☐ Scalability: Design for automated scaling and modular structures.	Regional Network Infrastructure
Security Solutions and Standards Azure Firewall: Centralized access management. Integrates with Azure Sentinel. Network Security Groups: Control traffic via IP, port, and protocol for subnets and VMs. Azure Private Link: Secure access via private endpoints, isolated	 ☐ 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. Best Practices
from the public internet. Compliance Standards: /SO27001 and N/S² for documented security policies.	 ☐ Monitoring: Utilize Azure Monitor and Log Analytics for insights. ☐ Updates: Regularly revise policies per ISO27001 and NIS² standards.
Network Connectivity: On-Premises Integration	Example Architecture
VPN Gateway: Cost-effective secured connections with limited bandwidth. ExpressRoute: Dedicated connection with high bandwidth and no internet dependency. Scalability: Dynamic scaling with Azure Virtual WAN and modular	 □ Connectivity: On-Premises VPN Gateway ↔ Azure VPN Gateway. □ Redundancy: Primary and Secondary Regions configured. □ Security: Azure Firewall and NSGs filter traffic.
extensions.	Connections Overview
Key Metrics to Monitor Performance: Check bandwidth and latency for both VPN and	☐ Use VPN for secure connections or <i>ExpressRoute</i> for dedicated bandwidth. ☐ Prioritize security through <i>AZs</i> and <i>NSGs</i> .
□ Usage: Analyze traffic patterns with Azure Monitor.	
By haraldthegrey Published 9th Januar	

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Last updated 10th January, 2025.
Page 1 of 1.

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