

Network Security Controls Checklist for Data Centers

1. Network Architecture

CONTROL	DESCRIPTION	IMPLEMENTED	N/A
Perimeter Firewalls	Deploy and configure firewalls at network boundaries.		
Network Segmentation	Separate networks based on trust level (e.g., production, management, guest).		
DMZ Implementation	Establish a DMZ for public-facing services.		

2. Access Controls

CONTROL	DESCRIPTION	IMPLEMENTED	N/A
Network Access Control	Enforce access restrictions using ACLs, NAC, or VLANs.		
Remote Access Management	Require VPN or secure tunneling for all remote access.		
Multi-factor Authentication	Enable MFA for all privileged and remote network access.		

3. Network Monitoring & Logging

CONTROL	DESCRIPTION	IMPLEMENTED	N/A
Intrusion Detection/Prevention	Deploy IDS/IPS solutions to monitor and block malicious traffic.		
Log Management	Collect and store network logs securely for incident response.		
SIEM Integration	Integrate logs with SIEM for real-time monitoring and alerting.		

4. Security Maintenance

CONTROL	DESCRIPTION	IMPLEMENTED	N/A
Patching and Updates	Apply security patches to all network devices and systems promptly.		

Configuration Management	Maintain and periodically audit device configurations for compliance.
Network Device Hardening	Disable unused services and use secure management protocols (e.g., SSH).

5. Other Controls

CONTROL	DESCRIPTION	IMPLEMENTED	N/A
DDoS Protection	Implement measures to detect and mitigate DDoS attacks.		
Data Encryption	Enforce encryption of data in transit across the network.		
Physical Network Security	Restrict physical access to network infrastructure devices.		