

Network Security Audit Checklist

Version: 1.0 | Author: VarnaAI (varnaai.com) | License: Free for commercial use

Audit Information

Field	Value
Audit ID	NSA--
Audit Date	//_____
Auditor	
Scope	
Standards Referenced	<input type="checkbox"/> ISO 27001 <input type="checkbox"/> PCI DSS <input type="checkbox"/> NIS2 <input type="checkbox"/> CIS Controls <input type="checkbox"/> NIST CSF

1. Perimeter Security

#	Check	Status	Evidence/Notes
1.1	Firewall deployed at all internet entry points	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
1.2	Default deny rule in place (inbound and outbound)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
1.3	DMZ architecture separates public-facing services	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
1.4	IDS/IPS deployed and signatures current (<7 days)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
1.5	Web Application Firewall (WAF) on public web apps	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
1.6	DDoS protection in place	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
1.7	No direct internet access from internal networks	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
1.8	DNS filtering/security configured	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
1.9	Email gateway with anti-spam/anti-phishing	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
1.10	SSL/TLS inspection on outbound traffic	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	

2. Internal Segmentation

#	Check	Status	Evidence/Notes
2.1	Network segmented into security zones	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
2.2	VLANs implemented with inter-VLAN filtering	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
2.3	Server, user, and management networks separated	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
2.4	PCI cardholder data environment (CDE) isolated	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	

2.5	IoT/OT devices on separate network segment	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
2.6	Guest Wi-Fi isolated from corporate network	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
2.7	Microsegmentation for critical applications	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
2.8	East-west traffic monitoring in place	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	

3. Access Control

#	Check	Status	Evidence/Notes
3.1	Network device access via SSH only (no Telnet)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
3.2	Management interfaces on dedicated OOB network	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
3.3	Multi-factor authentication for network device admin	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
3.4	RADIUS/TACACS+ for centralized authentication	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
3.5	Role-based access control (RBAC) configured	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
3.6	Default credentials changed on all devices	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
3.7	Password complexity requirements enforced	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
3.8	802.1X (NAC) for endpoint authentication	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
3.9	VPN with MFA for remote access	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
3.10	Privileged access management (PAM) for network admin	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	

4. Monitoring and Logging

#	Check	Status	Evidence/Notes
4.1	Centralized log management (SIEM) deployed	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
4.2	All firewall logs forwarded to SIEM	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
4.3	All switch/router logs forwarded to SIEM	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
4.4	NTP synchronized across all network devices	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
4.5	Log retention meets compliance requirements (90+ days)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
4.6	Alerting configured for critical events	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
4.7	NetFlow/sFlow collection for traffic analysis	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
4.8	Failed login attempts monitored and alerted	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
4.9	Configuration change detection enabled	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
4.10	Regular log review process documented	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	

5. Vulnerability Management

#	Check	Status	Evidence/Notes
5.1	Network device firmware current (within 1 major version)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
5.2	Known vulnerabilities patched within SLA	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
5.3	Quarterly vulnerability scans performed	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
5.4	Annual penetration test performed	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
5.5	Unused services disabled on all devices	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
5.6	SNMP v3 only (v1/v2c disabled)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
5.7	Unused ports administratively shut down	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
5.8	Network device hardening baseline applied	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	

6. Resilience and Recovery

#	Check	Status	Evidence/Notes
6.1	Network device configs backed up (automated, daily)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
6.2	Backups stored off-device and encrypted	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
6.3	Redundant firewalls (HA pair) for critical paths	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
6.4	Redundant switches/routers for critical paths	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
6.5	Disaster recovery plan includes network restoration	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
6.6	DR plan tested within last 12 months	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
6.7	Network topology diagram current (<6 months old)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
6.8	Change management process documented and followed	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	

Audit Summary

Category	Pass	Fail	N/A	Score
Perimeter Security (10)				/10
Internal Segmentation (8)				/8
Access Control (10)				/10
Monitoring and Logging (10)				/10
Vulnerability Management (8)				/8
Resilience and Recovery (8)				/8

TOTAL (54)				/54
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Overall Grade: ____

Grade	Score	Meaning
A	90-100%	Excellent — minor improvements only
B	75-89%	Good — some gaps to address
C	60-74%	Fair — significant improvements needed
D	40-59%	Poor — major security risks present
F	<40%	Critical — immediate remediation required

Sign-Off

Role	Name	Signature	Date
Auditor			
IT Manager			
CISO / Security Lead			

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