Network Infrastructure Assessment Checklist

IT Leader Evaluation Guide

1. Current Network Performance Baseline

- ☐ Document current bandwidth utilization (peak and average) across all locations
- ☐ Measure latency between critical endpoints (branch-to-HQ, branch-to-cloud)
- ☐ Record packet loss rates during business hours
- ☐ Identify top bandwidth-consuming applications and users
- ☐ Document jitter measurements for voice/video applications
- ☐ Map current QoS policies and verify they match business priorities

2. Network Architecture Review

- ☐ Create or update complete network topology diagram
- ☐ Document all WAN links (type, provider, bandwidth, SLA)
- ☐ Inventory all switches, routers, firewalls, and access points
- ☐ Record firmware/software versions for all network devices
- ☐ Identify single points of failure in the current architecture
- ☐ Document VLAN segmentation and verify it matches security policy
- ☐ Review wireless coverage and identify dead zones or interference

3. Security Posture

- ☐ Verify network segmentation between departments and guest networks
- ☐ Test firewall rules against current security policy
- ☐ Check for unauthorized devices on the network (rogue access points, IoT)
- ☐ Review VPN configurations and remote access policies
- ☐ Verify DNS filtering and content security policies are active
- ☐ Check for unencrypted traffic on internal network segments
- ☐ Review certificate management and expiration dates

4. Scalability & Future Readiness

- ☐ Document current cloud connectivity (direct connect, VPN, SD-WAN)
- ☐ Assess bandwidth headroom for planned growth (12-24 month outlook)
- ☐ Evaluate SD-WAN readiness or current SD-WAN performance
- ☐ Review SaaS application performance from each location
- ☐ Document planned office expansions or remote workforce changes
- ☐ Assess IoT device growth projections and network impact

5. Vendor & Contract Review

Item	Current State	Contract End	Notes
Primary ISP			
Secondary ISP			
SD-WAN Provider			
Firewall Vendor			
Wireless Vendor			
Monitoring Tools			

6. Operational Readiness

- ☐ Network monitoring covers all critical links and devices
- ☐ Alert thresholds are tuned (not generating false positives)
- ☐ Incident response procedures documented for network outages
- ☐ Change management process in place for network modifications
- ☐ Backup configurations stored for all network devices
- ☐ Disaster recovery plan includes network recovery procedures
- ☐ Staff training current on network management tools

7. Assessment Scoring Summary

Category	Score (1-5)	Priority
Network Performance	□ 1 □ 2 □ 3 □ 4 □ 5	□ High □ Med □ Low
Architecture	□ 1 □ 2 □ 3 □ 4 □ 5	□ High □ Med □ Low
Security	□ 1 □ 2 □ 3 □ 4 □ 5	□ High □ Med □ Low
Scalability	□ 1 □ 2 □ 3 □ 4 □ 5	□ High □ Med □ Low
Vendor Management	□ 1 □ 2 □ 3 □ 4 □ 5	□ High □ Med □ Low
Operations	□ 1 □ 2 □ 3 □ 4 □ 5	□ High □ Med □ Low

Overall Score: _____ / 30

Top 3 Priority Areas:

1. _____

2. _____

3. _____

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for mid-sized organizations across Tennessee and the Southeast.

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