

SecureNet Audit – Network Risk Assessment

Objective:

Simulate a network risk assessment using vulnerability scanning tools and packet capture analysis to identify threats and recommend mitigations.

Tools Used:

- Nessus (for vulnerability scans)
- Wireshark (for PCAP analysis)

Summary of Findings:

- Detected multiple outdated services and misconfigured ports on simulated devices.
- PCAP analysis revealed signs of suspicious external traffic and unencrypted credentials.
- Several medium to high severity CVEs were flagged, requiring attention.

Recommendations:

- Patch outdated systems and apply security updates.
- Segment the network to isolate vulnerable assets.
- Enforce secure transmission protocols (e.g., TLS/SSL) to avoid data leakage.
- Configure IDS/IPS tools for real-time alerting.