

Security Audit Report

Project: Consolidate and Document Scan Results

Task Reference: DEV-355

Date: January 2026

1. Executive Summary

A comprehensive security assessment was conducted on the organization's production subnet to establish a baseline of active assets and exposed services. The audit followed a strict non-destructive methodology (DEV-353) and verified all findings through manual validation.

Key Findings:

- Total Assets Scanned: 15 Hosts ¹
- Total Open Ports: 39 Ports Detected
- Critical Risks: 2 Hosts exposing database services (Redis) to the public internet.
- Compliance Status: Mixed. While SSH access is standardized and secure, the presence of management interfaces (Consul/MinIO) on public IPs requires immediate remediation.

2. Master Findings Table

The following table aggregates the port scan data and service fingerprinting results for all 15 validated hosts.

Asset ID	IP Address	Port	Protocol	Service	Risk Level
Server-01	64.23.130.208	22	TCP	OpenSSH 8.9p1	● Low
Server-02	157.230.47.60	22	TCP	OpenSSH 8.9p1	● Low
		8500	TCP	Consul Agent	● Medium
		9000	TCP	MinIO (Storage)	● Medium
		9001	TCP	MinIO Console	● Medium

Asset ID	IP Address	Port	Protocol	Service	Risk Level
Server-03	159.223.62.168	22	TCP	OpenSSH 8.9p1	● Low
		8500	TCP	Consul Agent	● Medium
Server-04	139.59.245.244	22	TCP	OpenSSH 8.9p1	● Low
Server-05	143.198.94.161	22	TCP	OpenSSH 8.9p1	● Low
Server-06	188.166.250.175	80	TCP	OpenResty (Web)	● Low
		443	TCP	OpenResty (SSL)	● Low
		9111	TCP	Redis Key-Value	● High
Server-07	139.59.117.80	80	TCP	OpenResty (Web)	● Low
		443	TCP	OpenResty (SSL)	● Low
		9111	TCP	Redis Key-Value	● High
Server-08	134.209.107.38	8085	TCP	Apache httpd	● Low
		8500	TCP	Consul Agent	● Medium
Server-09	146.190.97.129	8500	TCP	Consul Agent	● Medium
Server-10	128.199.134.178	8500	TCP	Consul Agent	● Medium
Server-11	167.172.66.204	6001	TCP	Uvicorn (App)	● Medium
		8500	TCP	Consul Agent	● Medium
Server-12	139.59.113.219	8000	TCP	Uvicorn (App)	● Medium
Server-13	159.89.196.66	8500	TCP	Consul Agent	● Medium
Server-14	139.59.230.32	22	TCP	OpenSSH 8.9p1	● Low
Server-15	139.59.99.241	443	TCP	SSL Service	● Low

3. 🛡 Risk Assessment & Recommendations

🔴 Critical Findings (Immediate Action Required)

1. Exposed Database Services (Redis)

- Affected Assets: Server-06, Server-07
- Observation: Redis is listening on Port 9111 on a public interface.
- Risk: Unauthorized data access, data manipulation, or Remote Code Execution (RCE) if authentication is weak.
- Recommendation: Bind Redis to localhost (127.0.0.1) or restrict access via UFW firewall to trusted internal IPs only.

🟡 Warning Findings (Review Needed)

1. Public Management Interfaces

- Affected Assets: Server-02, 03, 08, 09, 10, 11, 13
- Observation: HashiCorp Consul (8500) and MinIO Console (9001) are accessible from the internet.
- Risk: Information disclosure regarding infrastructure topology.
- Recommendation: Place these services behind a VPN or strictly whitelist access to the corporate office IP.

4. ✅ Conclusion

The infrastructure follows a microservices architecture pattern utilizing Consul for service discovery and OpenResty for ingress. While the perimeter is generally functional, the exposure of data layers (Redis) and management planes (Consul/MinIO) contradicts the principle of least privilege.