Mini Project: Network Scanning & Enumeration dashboard

Made using: Kali Linux, Nmap, Net discover, Bash

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What is Network Scanning & Enumeration?

- **Network Scanning:** Detects live hosts, open ports, and services.

- **Enumeration:** Extracts detailed data from services (users, shares, banners).

- **Why It Matters:** Foundation for vulnerability assessments and pen testing.
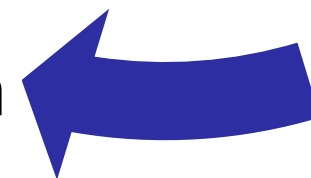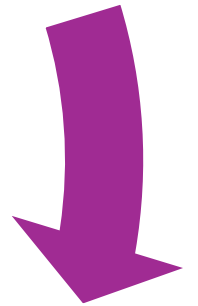
Common tools & Technology

- **OS:** Kali Linux (in VirtualBox)

- **Nmap** : For Network Scanning

- **Net Discover** : Live host discovery

- **Bash Scripting** : Workflow automation

Dashboard Overview

- Discovered Hosts & Ips

- Open Ports per Host

- Identified Services

- Vulnerabilities (CVEs)

- Network Topology or Heatmap

Key Findings & Risks

- 3 Hosts with Outdated SSH (CVE-2023-xxxx)

- Default credentials found on 2 systems

- SNMP exposed on 5 devices

- ⬜ Windows file shares publicly accessible

Recommendations & Conclusion

- Patch outdated services

- Disable unused ports/services

- Harden SNMP/SMB configurations

- Monitor regularly with automated tools