Mini Project : Network Scanning and Enumeration Dashboard

- Title: *Mini Project : Network Scanning & Enumeration Dashboard*
- Subtitle: *Built on Kali Linux (CLI Based)*

Objective

- Automate network scanning & enumeration

- Discover active devices, open ports, OS details

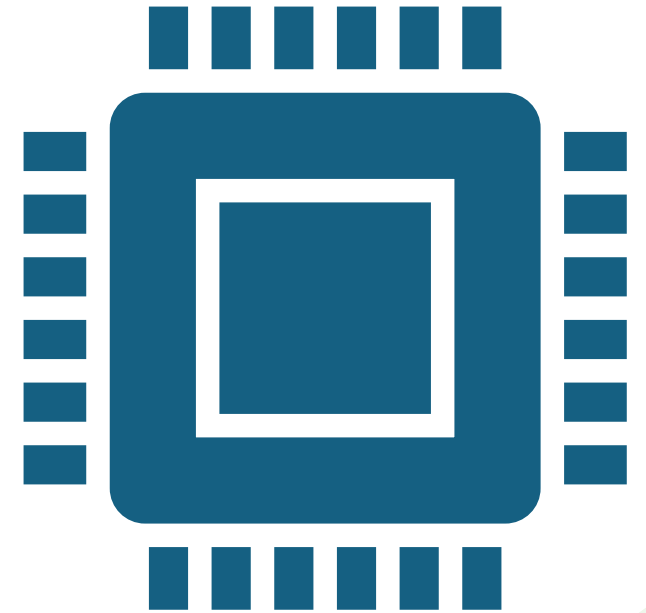- Generate CLI dashboard & save reports

Tools Used

- **Nmap** → Port & service scanning
- **Net discover** → Host discovery
- **Bash Scripting** → Automation & reporting

Workflow

- Discover devices with `net discover`
- Scan open ports & services with `nmap`
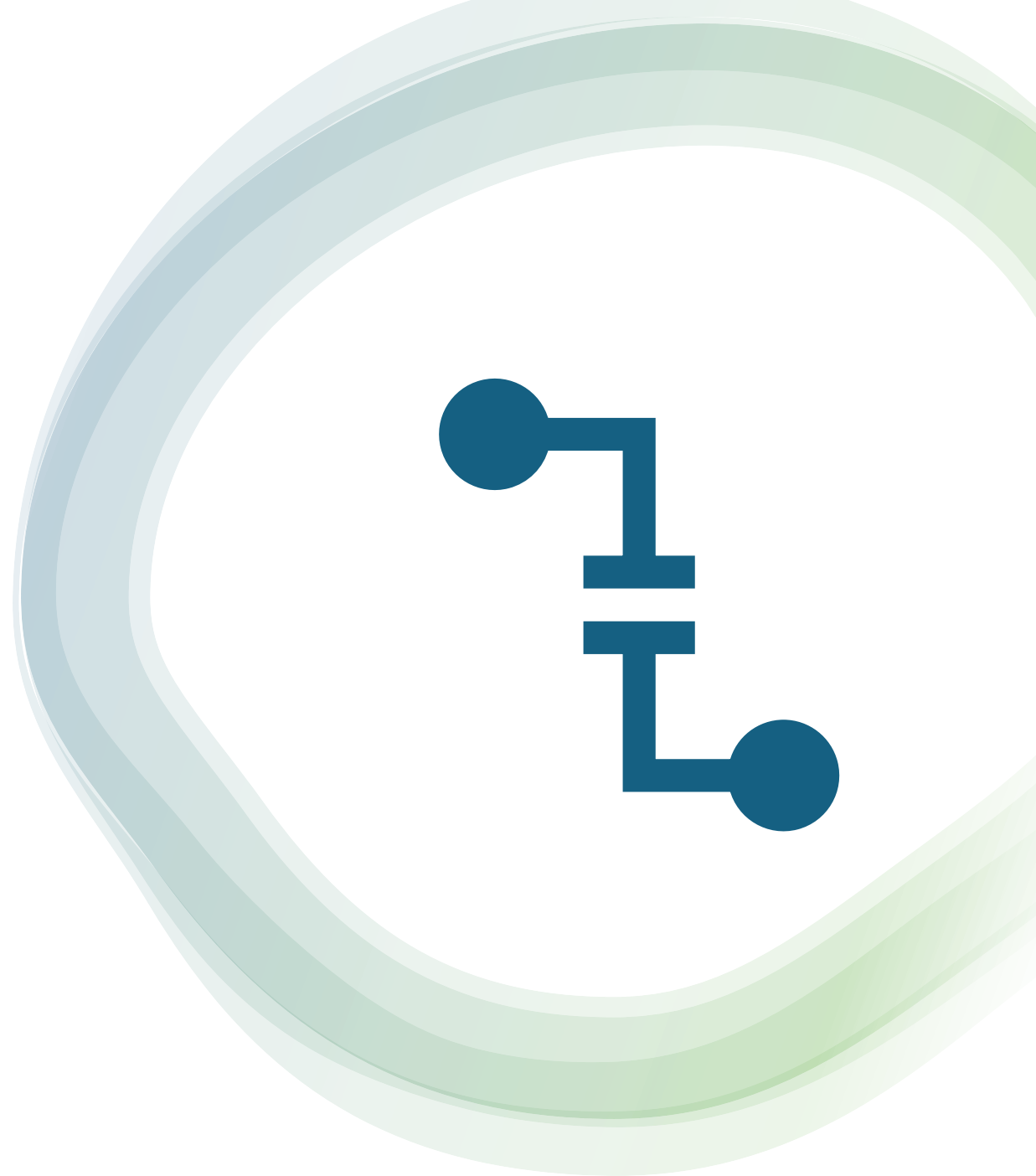- Detect OS fingerprint
- Log results → Dashboard

Script & Output

- Script automates scanning & saves logs
- Dashboard shows:
- Active Hosts
- Open Ports
- Detected OS

Defense Recommendations

- Close unused ports
- Enable firewalls & IDS/IPS
- Monitor logs regularly
- Segment network with VLANs

Conclusion

- Learned network discovery & enumeration

- Automated scanning with Bash script

- Built a CLI dashboard for analysis