

Network Scanning Summary

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Date and time of execution: 08/06/2025 Time 10:00 am

Your Learnings: Nmap learning, error handling, Wireshark handling, Network analysing

Challenges faced during assignment: Facing problems in detection of OS. Easily detected hosts.
Problem faces in analysing traffics

Objective:-

The objective of this project was to identify active hosts, scan for open ports, determine services and OS information, and analyze network traffic using various tools on a home router setup

Tools Used:

- Nmap
- Wireshark
- Kali Linux (via VMWare with Bridged Adapter)
- Terminal commands for routing/interface details

Network Range:

- Target: 192.168.0.0/24
- Default Gateway: 192.168.0.1
- Kali IP: 192.168.0.117

Live Hosts Detected:

IP Address	Device Type	OS / Details	Open Ports
192.168.0.100	Media device (TV?)	OS not detected	None
192.168.0.101	PC or Xbox	Windows 10/11/Xbox/NTI	None
192.168.0.104	Phone (Apple)	iOS 15.X	49152, 62078 (tcpwrapped)
192.168.0.108	Unknown	OS fingerprint too broad	None
192.168.0.109	Phone (Android?)	OS not specific, Port 5060 filtered (SIP)	5060 (filtered)
192.168.0.113	Unknown	OS not specific	None
192.168.0.118	Laptop / Intel device	OS not detected	None

Port & Service Findings:

- **192.168.0.100** – All 1000 ports closed

- **192.168.0.101** – All ports closed; detected as Windows 10/11 or Xbox
- **192.168.0.104** – iOS 15.x; ports 49152/tcp and 62078/tcp open
- **192.168.0.109** – Port 5060/tcp (SIP) filtered; VoIP device (Vivo)
- **192.168.0.108/110/113/118** – All ports closed or filtered

Wireshark Capture Summary:

- Detected ARP scans for host discovery
- Multicast DNS (mDNS) & SSDP (common with mobile/IoT)
- No evidence of malicious traffic

Conclusion:

- Home network appears secure; most devices have no exposed services
- A single device (likely a phone) exposes SIP, potentially used for VoIP
- Network hygiene overall is good
- Monitoring tools were successfully deployed and used

GITHUB link :- <https://github.com/adichoudhari/network-scan-report.git>