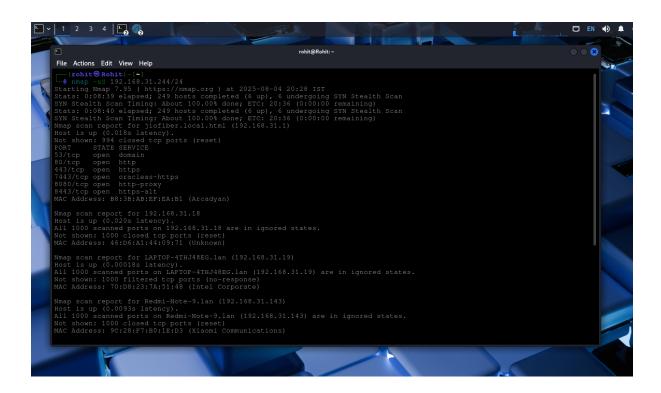
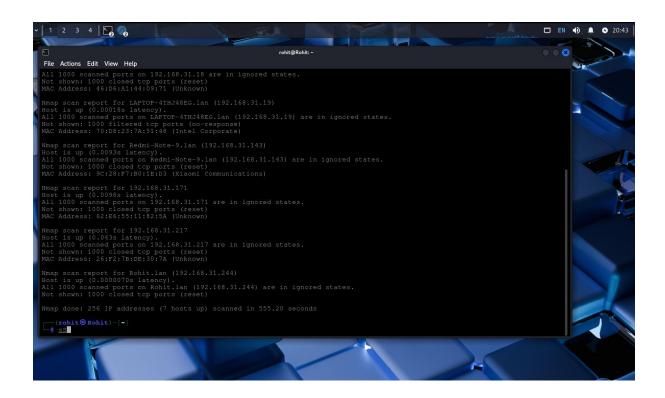
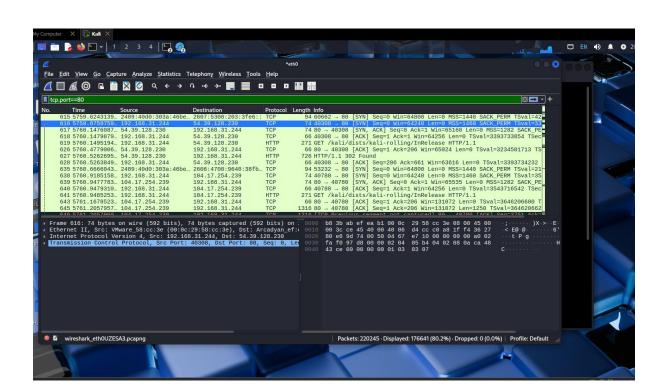
TASK 1

```
File Actions Edit View Help

File Actions Edit View Edit View
```







Analysis of Each Port

Port 53 (TCP) – Domain Name System (DNS)

Service: DNS

Common Use: Resolving domain names to IPs; TCP is used for large queries or zone

transfers.

Security Risks:

- DNS Zone Transfer: If misconfigured, attackers can download entire DNS records.
- o **DNS Tunneling**: Used to exfiltrate data.
- o **Amplification Attacks**: Can be used in DDoS attacks if open resolvers exist.

Port 80 – HTTP

Service: Web server

Common Use: Hosting websites

Security Risks:

- o **Unencrypted Traffic**: Can leak sensitive data (login credentials, cookies).
- o **Outdated Web Apps**: Vulnerable to XSS, SQL Injection, RCE.
- o Directory Traversal or Misconfigured File Permissions

Port 443 – HTTPS (Encrypted Web Traffic)

Service: Secure HTTP

Common Use: Secure communication with SSL/TLS

Security Risks:

- o Weak SSL/TLS Versions: Support for SSLv2/SSLv3 or TLS 1.0 is insecure.
- o **Self-signed Certificates**: May allow MITM attacks.

o Vulnerable Web App Behind HTTPS: Still attackable despite encryption.

Port 7443 – Oracle Application Server HTTPS

Service: Often used for web-based management portals

Common Use: Admin panels or dashboards

Security Risks:

o Weak authentication: Admin access exposed

Known CVEs in Oracle WebLogic (like RCE vulnerabilities)

Unpatched CMS or dashboard

Port 8080 - HTTP Proxy / Alternate HTTP

Service: Proxy servers, Tomcat, Jenkins, or custom web servers

Common Use: Dev/test servers, admin panels

Security Risks:

Default credentials in admin apps (like Jenkins, Tomcat)

o **Outdated Dev Servers** with known bugs

Proxy Abuse for bypassing firewalls

Port 8443 – HTTPS Alternate (Common for APIs & Admin Portals)

Service: HTTPS for custom apps (like Spring Boot, Palo Alto, VMware)

Common Use: Encrypted admin interfaces or APIs

Security Risks:

Exposed Admin Panels (often default on 8443)

Weak TLS or Default Credentials

API Abuse if input validation is weak