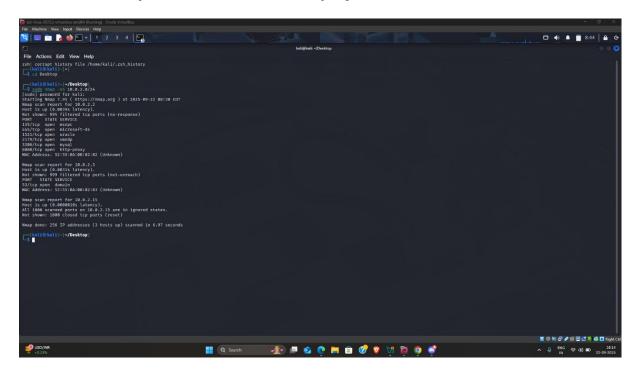
❖ Run: nmap -sS 192.168.1.0/24 to perform TCP SYN scan.



- ***** Research common services running on those ports.
- > 135/tcp (msrpc): This port is used by Microsoft Remote Procedure Call (MSRPC), which allows distributed applications to communicate with each other.
- 445/tcp (microsoft-ds): This port is for Microsoft-DS (Directory Service), which is used by Server Message Block (SMB) for file sharing and printer access on Windows networks.
- > 1521/tcp (oracle): This is the default port for the Oracle Database listener service.
- 2179/tcp (vmrdp): This port is associated with VMware VirtualCenter Agent and is used for its Remote Desktop Protocol (RDP).
- > 3306/tcp (mysql): This is the default port for the MySQL database system.
- > 8080/tcp (http-proxy): This is a common alternate port for HTTP, often used for web proxies or as a secondary web server.

❖ Identify potential security risks from open ports.

- ❖ Port 135 (MSRPC): This Windows service has been historically vulnerable to exploits that can allow an attacker to take over the system.
- ❖ Port 445 (Microsoft-DS): Used for file sharing, this port is a common target for ransomware and malware, notably exploited by the WannaCry and NotPetya attacks.
- ❖ Port 1521 (Oracle): This is the default port for Oracle databases and can be vulnerable to attacks like SQL injection and buffer overflows, which could lead to data theft.
- ❖ Port 2179 (VMware RDP): This remote access service can be susceptible to brute-force attacks and has had known vulnerabilities that could allow an attacker to gain control of the virtual machine.
- ❖ Port 3306 (MySQL): The default port for MySQL databases is often targeted with brute-force attacks and SQL injection attempts to steal or corrupt data.
- ❖ Port 8080 (HTTP-Proxy): This port, often used for web services, is a target for general web attacks like cross-site scripting (XSS) and denialof-service (DoS) attacks.
- Optionally analyze packet capture with Wireshark.



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