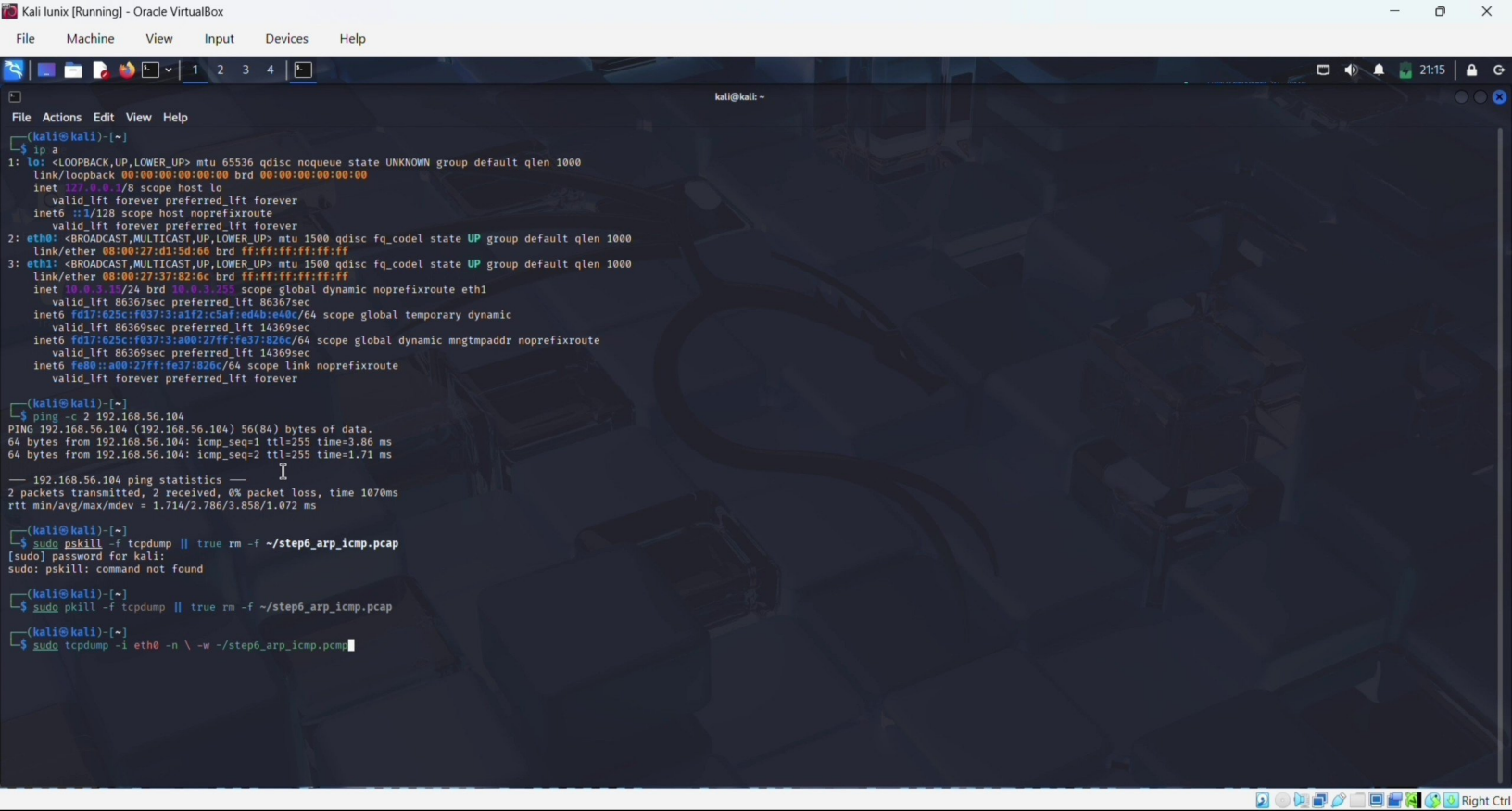
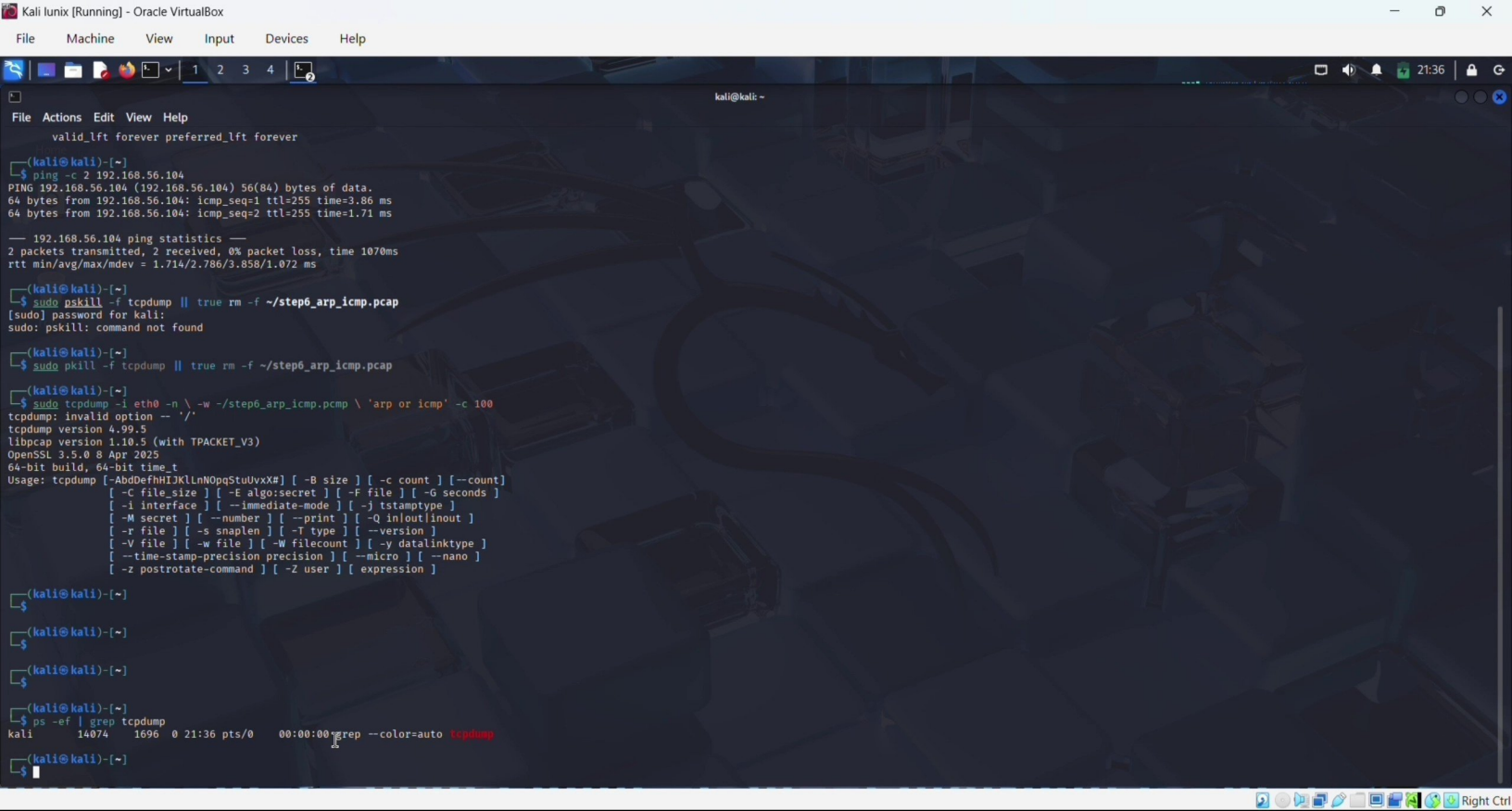
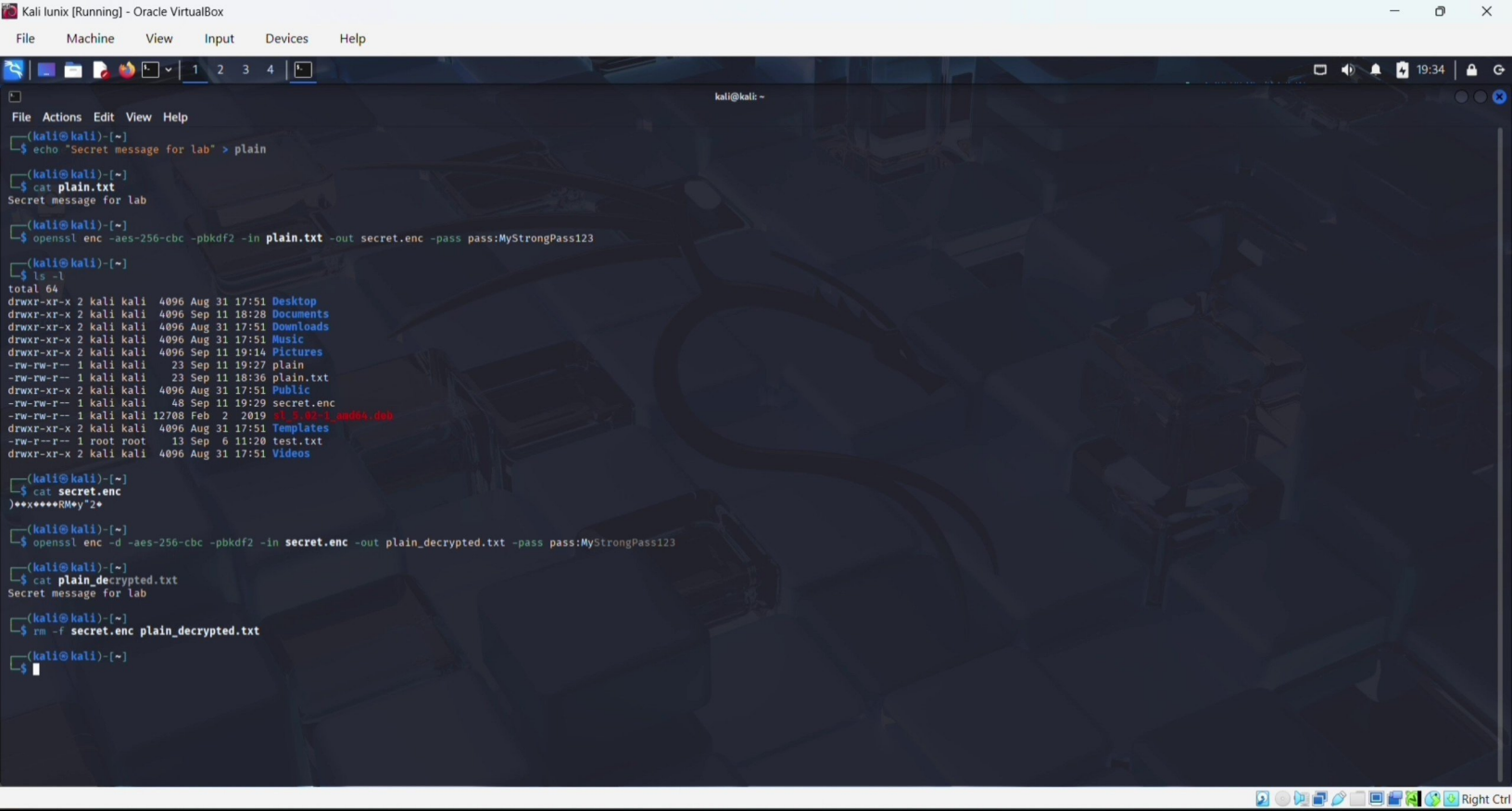
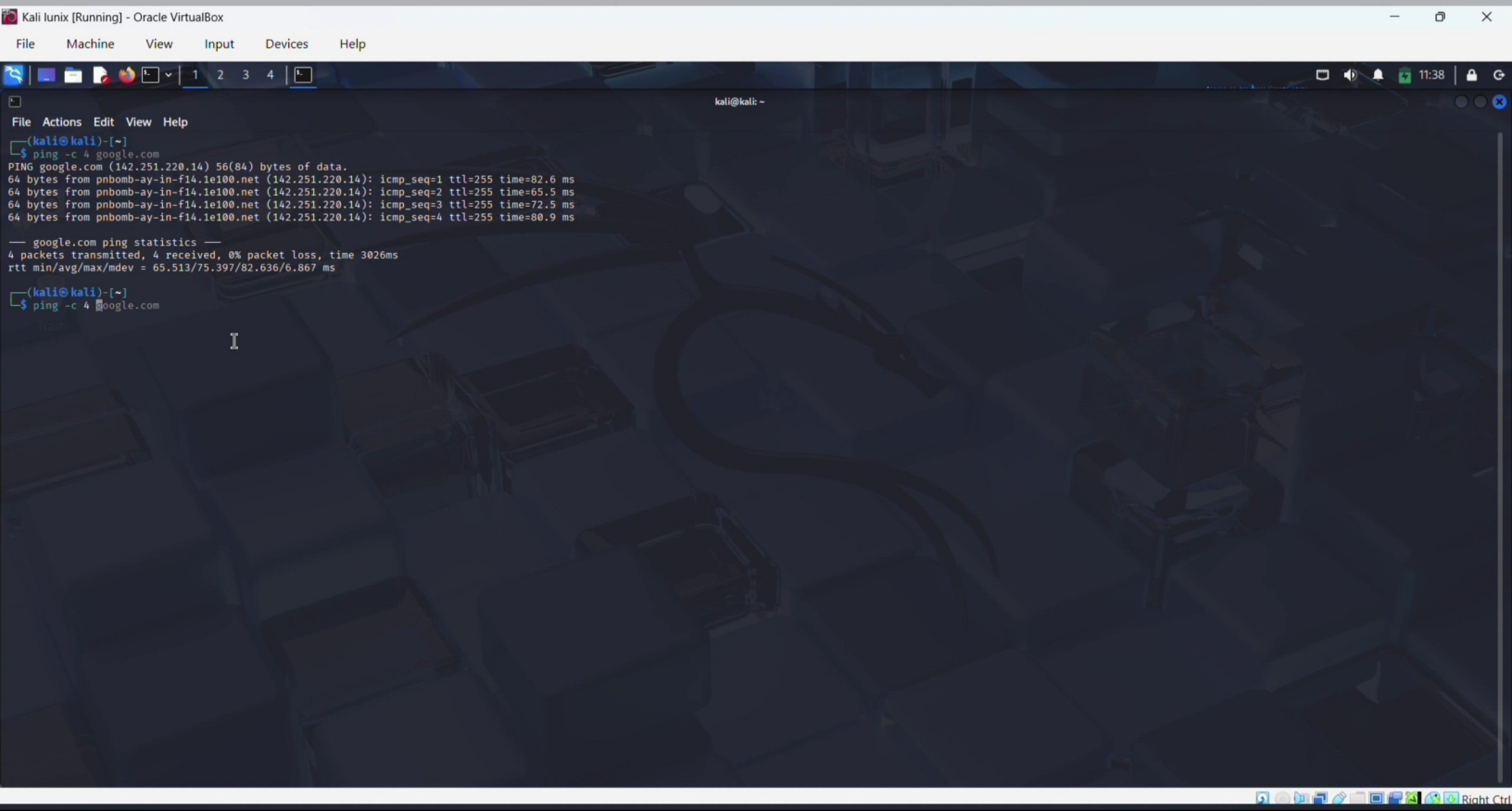
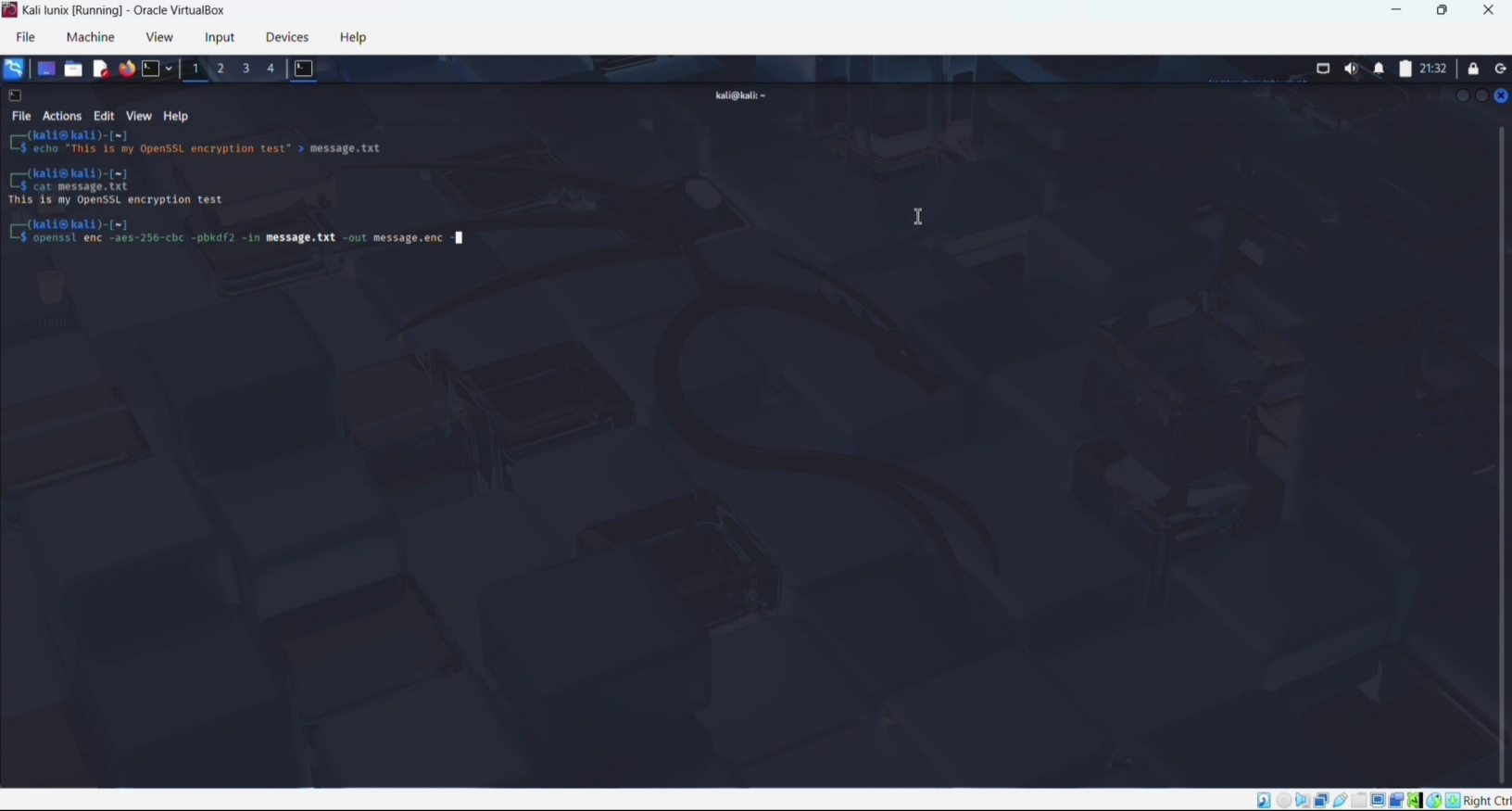
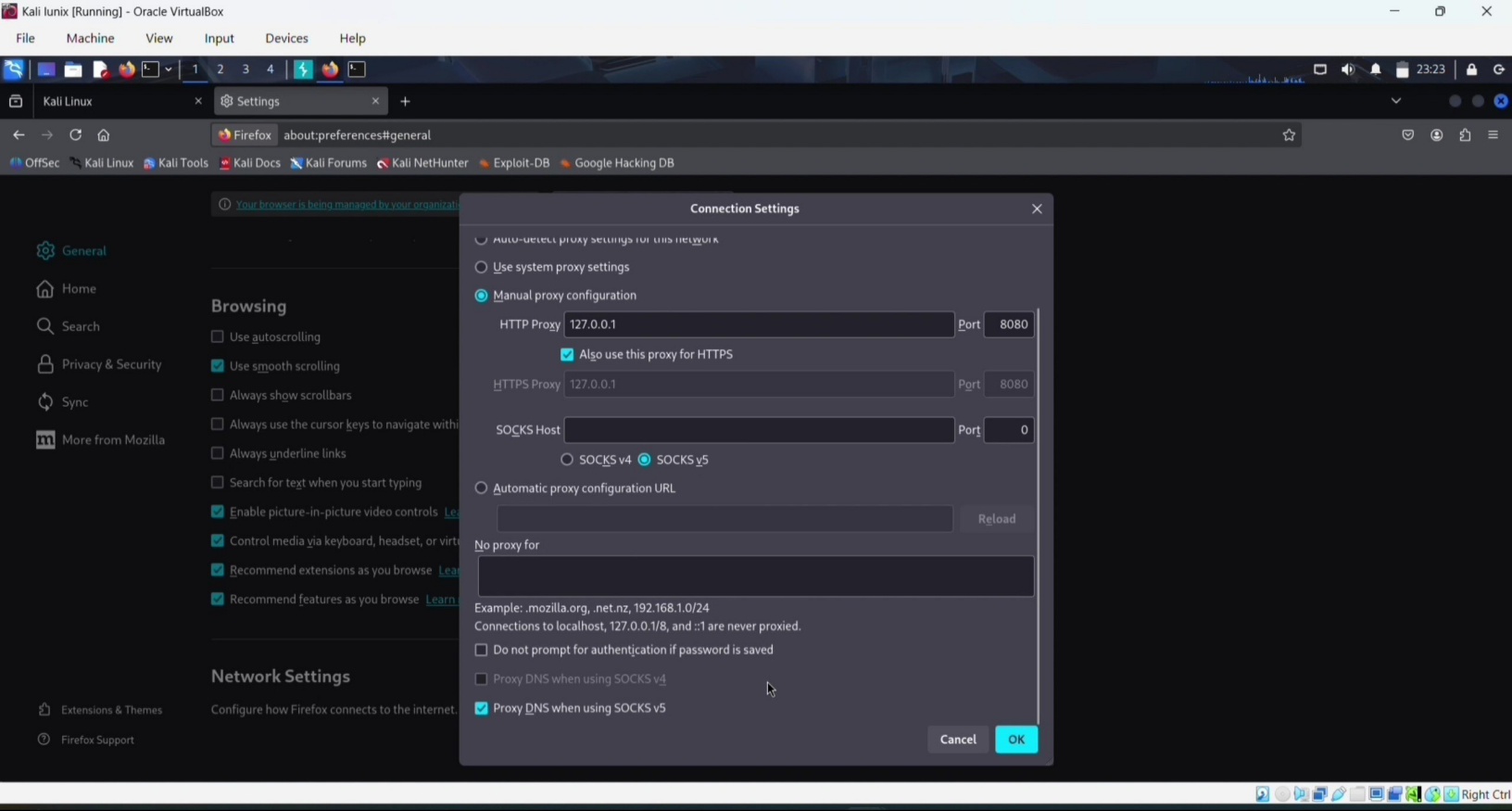

Kali lunix [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
21:15
kali@kali: ~
File Actions Edit View Help
(kali㉿kali)-[~]
$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
inet 127.0.0.1/8 scope host lo
valid_lft forever preferred_lft forever
inet6 ::1/128 scope host noprefixroute
valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
link/ether 08:00:27:d1:5d:66 brd ff:ff:ff:ff:ff:ff
3: eth1: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
link/ether 08:00:27:37:82:6c brd ff:ff:ff:ff:ff:ff
inet 10.0.3.15/24 brd 10.0.3.255 scope global dynamic noprefixroute eth1
valid_lft 86367sec preferred_lft 86367sec
inet6 fd17:625c:f037:3:a1f2:c5af:ed4b:e40c/64 scope global temporary dynamic
valid_lft 86369sec preferred_lft 14369sec
inet6 fd17:625c:f037:3:a00:27ff:fe37:826c/64 scope global dynamic mngtmpaddr noprefixroute
valid_lft 86369sec preferred_lft 14369sec
inet6 fe80::a00:27ff:fe37:826c/64 scope link noprefixroute
valid_lft forever preferred_lft forever
(kali㉿kali)-[~]
$ ping -c 2 192.168.56.104
PING 192.168.56.104 (192.168.56.104) 56(84) bytes of data.
64 bytes from 192.168.56.104: icmp_seq=1 ttl=255 time=3.86 ms
64 bytes from 192.168.56.104: icmp_seq=2 ttl=255 time=1.71 ms
— 192.168.56.104 ping statistics —
2 packets transmitted, 2 received, 0% packet loss, time 1070ms
rtt min/avg/max/mdev = 1.714/2.786/3.858/1.072 ms
(kali㉿kali)-[~]
$ sudo pskill -f tcpdump || true rm -f ~/step6_arp_icmp.pcap
[sudo] password for kali:
sudo: pskill: command not found
(kali㉿kali)-[~]
$ sudo pkill -f tcpdump || true rm -f ~/step6_arp_icmp.pcap
(kali㉿kali)-[~]
$ sudo tcpdump -i eth0 -n \ -w ~/step6_arp_icmp.pcap
Right Ctrl

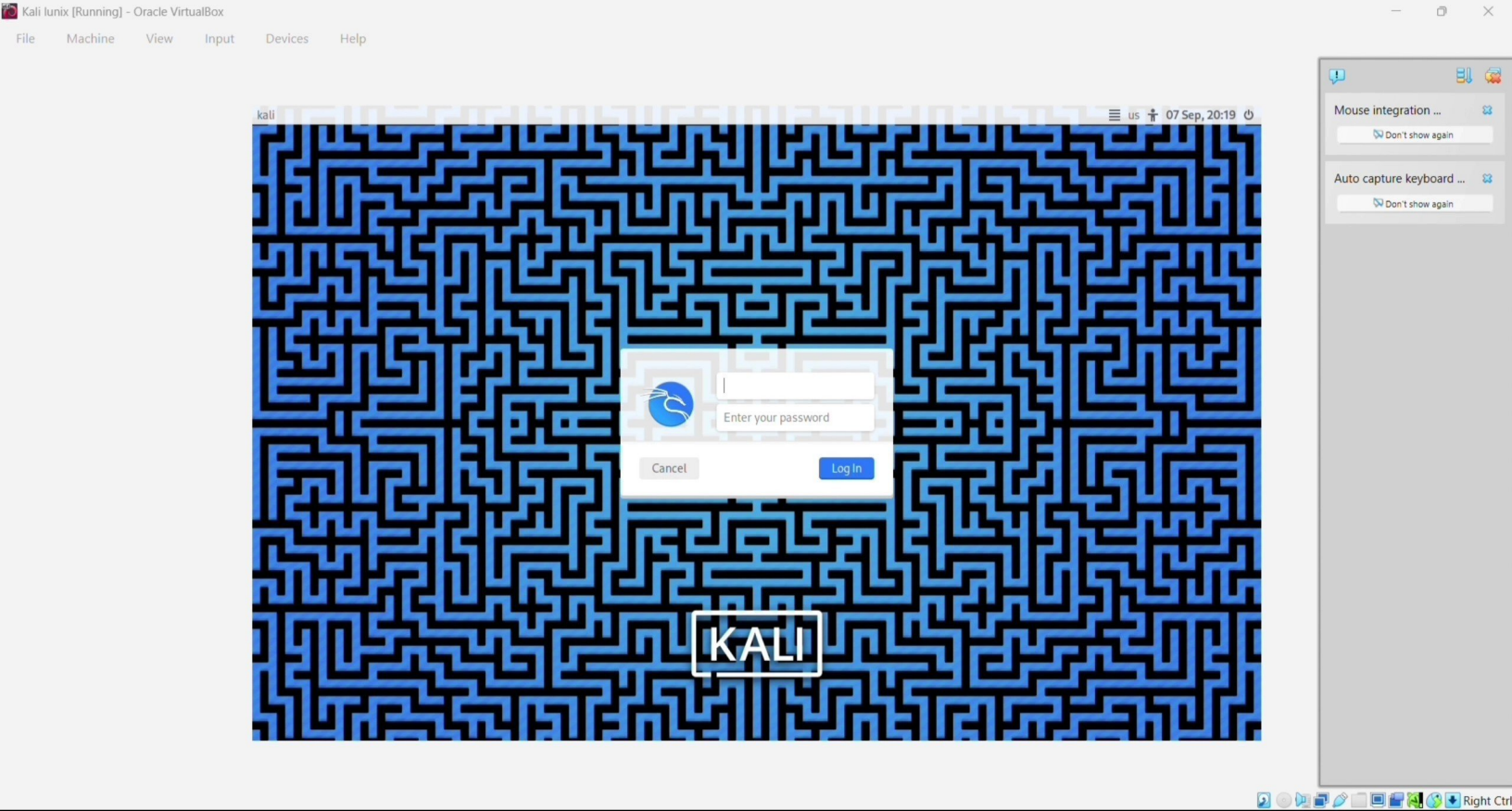

Kali lunix [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
21:36
kali@kali: ~
File Actions Edit View Help
valid_lft forever preferred_lft forever
(kali㉿kali)-[~]
$ ping -c 2 192.168.56.104
PING 192.168.56.104 (192.168.56.104) 56(84) bytes of data.
64 bytes from 192.168.56.104: icmp_seq=1 ttl=255 time=3.86 ms
64 bytes from 192.168.56.104: icmp_seq=2 ttl=255 time=1.71 ms
— 192.168.56.104 ping statistics —
2 packets transmitted, 2 received, 0% packet loss, time 1070ms
rtt min/avg/max/mdev = 1.714/2.786/3.858/1.072 ms
(kali㉿kali)-[~]
$ sudo pskill -f tcpdump || true rm -f ~/step6_arp_icmp.pcap
[sudo] password for kali:
sudo: pskill: command not found
(kali㉿kali)-[~]
$ sudo pkill -f tcpdump || true rm -f ~/step6_arp_icmp.pcap
(kali㉿kali)-[~]
$ sudo tcpdump -i eth0 -n \ -w ~/step6_arp_icmp.pcmp \ 'arp or icmp' -c 100
tcpdump: invalid option -- '/'
tcpdump version 4.99.5
libpcap version 1.10.5 (with TPACKET_V3)
OpenSSL 3.5.0 8 Apr 2025
64-bit build, 64-bit time_t
Usage: tcpdump [-AbdDefhHIJKlLnNOpqStuUvxX#] [-B size] [-c count] [--count]
[-C file_size] [-E algo:secret] [-F file] [-G seconds]
[-i interface] [--immediate-mode] [-j tstamptype]
[-M secret] [--number] [--print] [-Q in|out|inout]
[-r file] [-s snaplen] [-T type] [--version]
[-V file] [-w file] [-W filecount] [-y datalinktype]
[--time-stamp-precision precision] [--micro] [--nano]
[-z postrotate-command] [-Z user] [expression]
(kali㉿kali)-[~]
$
(kali㉿kali)-[~]
$
(kali㉿kali)-[~]
$
(kali㉿kali)-[~]
$ ps -ef | grep tcpdump
kali 14074 1696 0 21:36 pts/0 00:00:00 grep --color=auto tcpdump
(kali㉿kali)-[~]
$
Right Ctrl

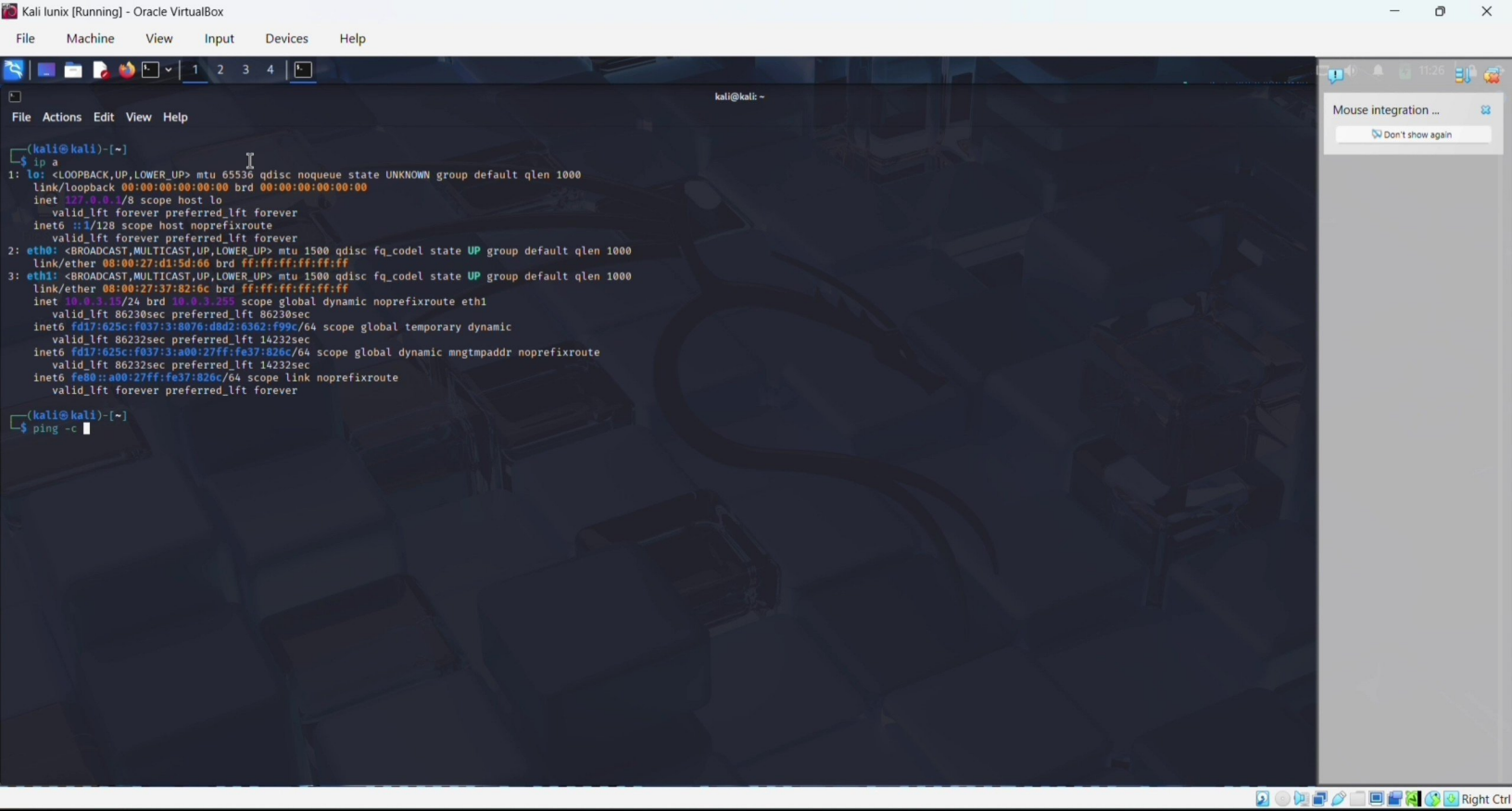

Kali lunix [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
19:34
kali@kali: ~
File Actions Edit View Help
┌──(kali㉿kali)-[~]
└─$ echo "Secret message for lab" > plain
┌──(kali㉿kali)-[~]
└─$ cat plain.txt
Secret message for lab
┌──(kali㉿kali)-[~]
└─$ openssl enc -aes-256-cbc -pbkdf2 -in plain.txt -out secret.enc -pass pass:MyStrongPass123
┌──(kali㉿kali)-[~]
└─$ ls -l
total 64
drwxr-xr-x 2 kali kali 4096 Aug 31 17:51 Desktop
drwxr-xr-x 2 kali kali 4096 Sep 11 18:28 Documents
drwxr-xr-x 2 kali kali 4096 Aug 31 17:51 Downloads
drwxr-xr-x 2 kali kali 4096 Aug 31 17:51 Music
drwxr-xr-x 2 kali kali 4096 Sep 11 19:14 Pictures
-rw-rw-r-- 1 kali kali 23 Sep 11 19:27 plain
-rw-rw-r-- 1 kali kali 23 Sep 11 18:36 plain.txt
drwxr-xr-x 2 kali kali 4096 Aug 31 17:51 Public
-rw-rw-r-- 1 kali kali 48 Sep 11 19:29 secret.enc
-rw-rw-r-- 1 kali kali 12708 Feb 2 2019 [redacted]_amd64.deb
drwxr-xr-x 2 kali kali 4096 Aug 31 17:51 Templates
-rw-r--r-- 1 root root 13 Sep 6 11:20 test.txt
drwxr-xr-x 2 kali kali 4096 Aug 31 17:51 Videos
┌──(kali㉿kali)-[~]
└─$ cat secret.enc
)••x••••RM•y"2•
┌──(kali㉿kali)-[~]
└─$ openssl enc -d -aes-256-cbc -pbkdf2 -in secret.enc -out plain_decrypted.txt -pass pass:MyStrongPass123
┌──(kali㉿kali)-[~]
└─$ cat plain_decrypted.txt
Secret message for lab
┌──(kali㉿kali)-[~]
└─$ rm -f secret.enc plain_decrypted.txt
┌──(kali㉿kali)-[~]
└─$
Right Ctrl

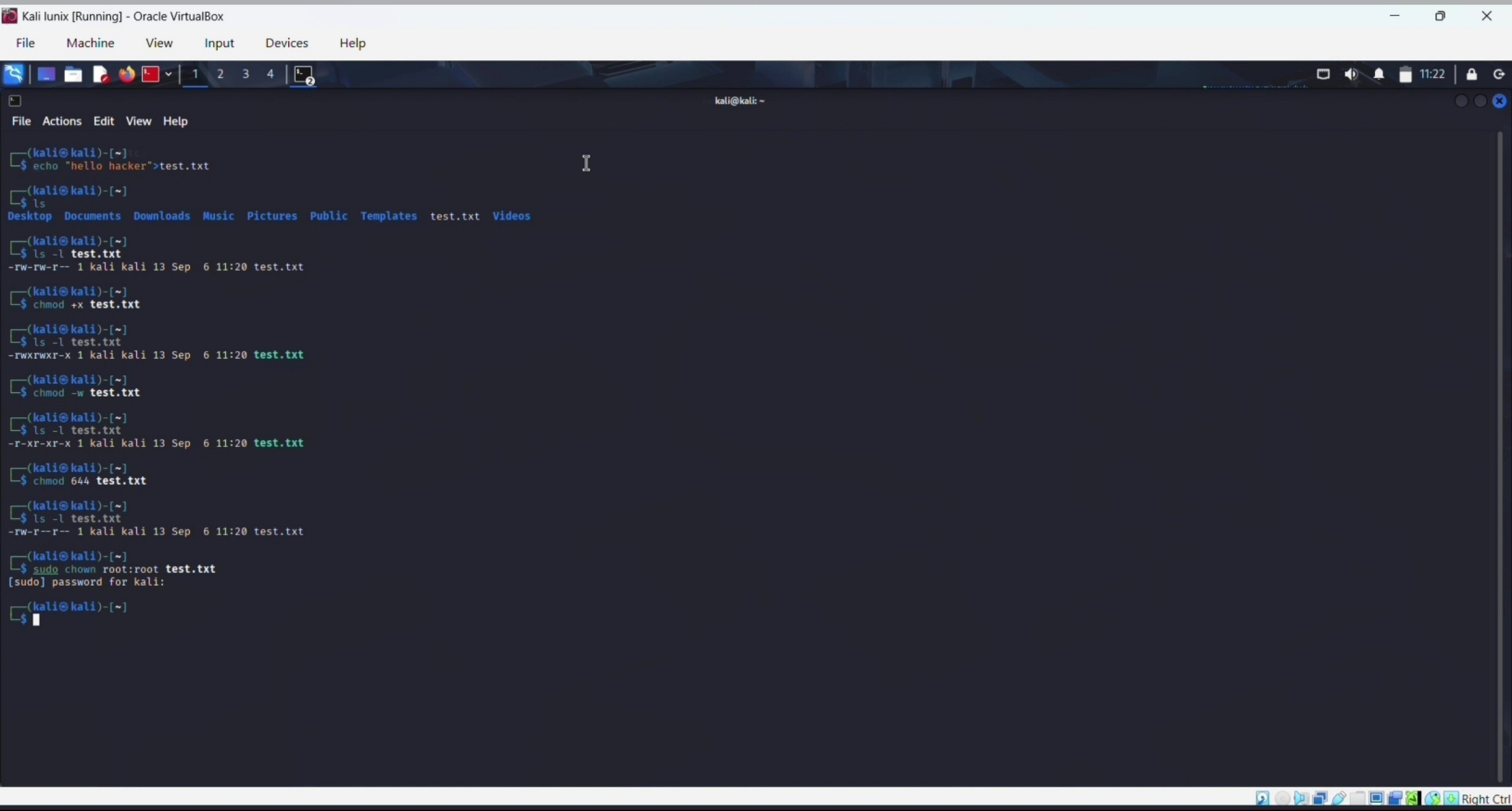

Kali lunix [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
11:38
kali@kali: ~
File Actions Edit View Help
(kali㉿kali)-[~]
$ ping -c 4 google.com
PING google.com (142.251.220.14) 56(84) bytes of data.
64 bytes from pnbomb-ay-in-f14.1e100.net (142.251.220.14): icmp_seq=1 ttl=255 time=82.6 ms
64 bytes from pnbomb-ay-in-f14.1e100.net (142.251.220.14): icmp_seq=2 ttl=255 time=65.5 ms
64 bytes from pnbomb-ay-in-f14.1e100.net (142.251.220.14): icmp_seq=3 ttl=255 time=72.5 ms
64 bytes from pnbomb-ay-in-f14.1e100.net (142.251.220.14): icmp_seq=4 ttl=255 time=80.9 ms
— google.com ping statistics —
4 packets transmitted, 4 received, 0% packet loss, time 3026ms
rtt min/avg/max/mdev = 65.513/75.397/82.636/6.867 ms
(kali㉿kali)-[~]
$ ping -c 4 google.com
Right Ctrl

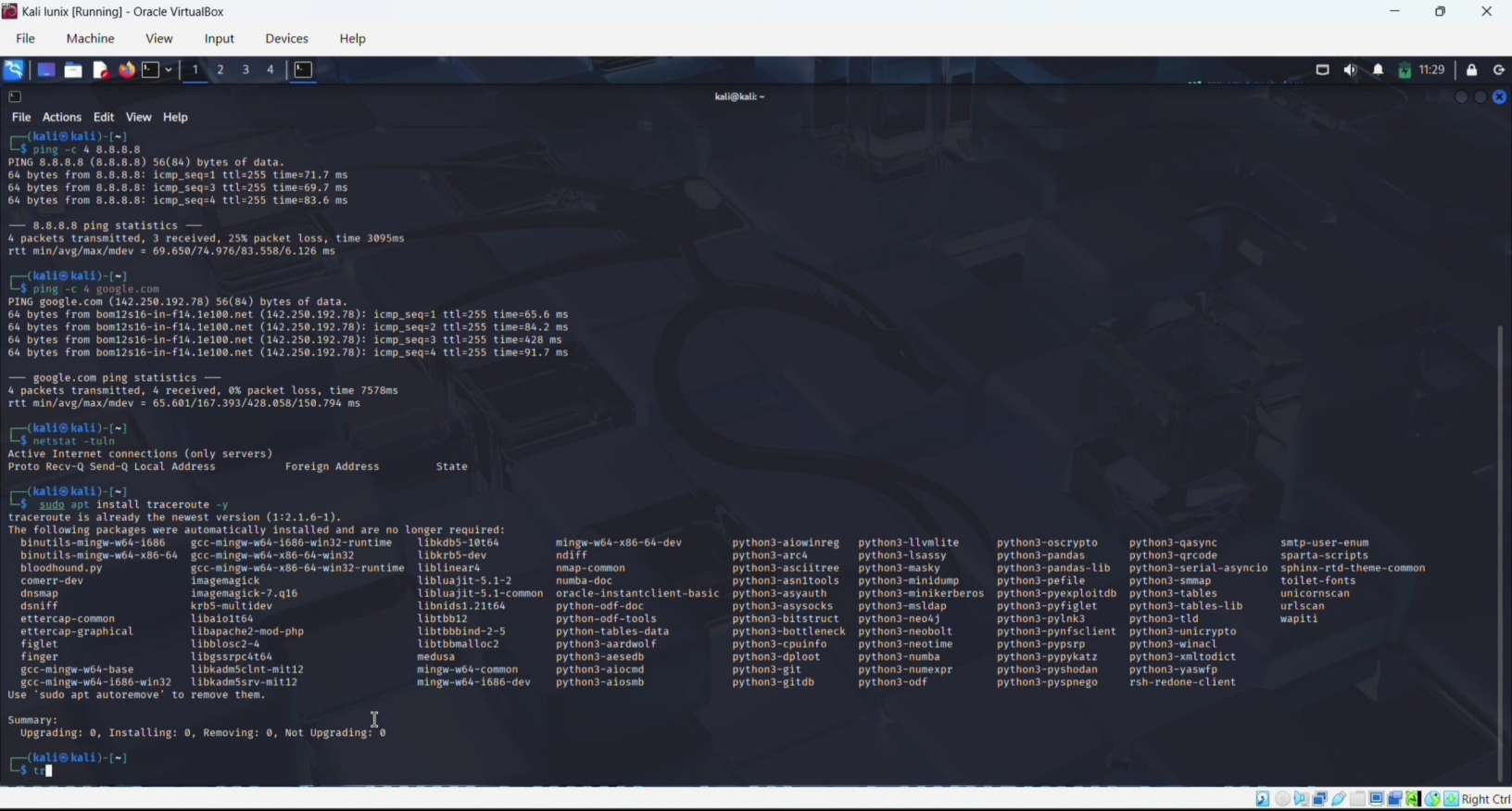

Kali lunix [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
21:32
kali@kali: ~
File Actions Edit View Help
(kali㉿kali)-[~]
$ echo "This is my OpenSSL encryption test" > message.txt
(kali㉿kali)-[~]
$ cat message.txt
This is my OpenSSL encryption test
(kali㉿kali)-[~]
$ openssl enc -aes-256-cbc -pbkdf2 -in message.txt -out message.enc -
Right Ctrl

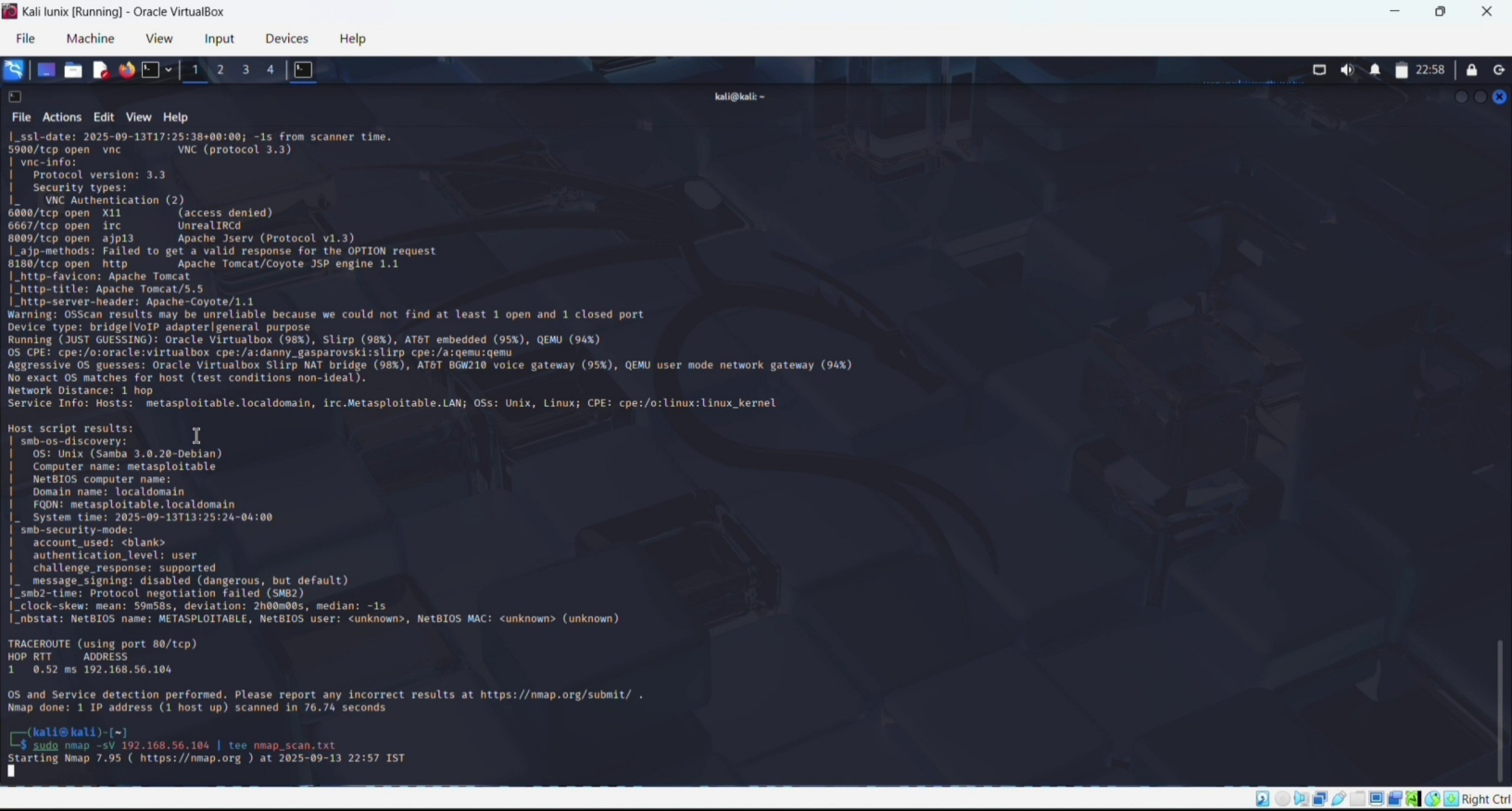

Kali lunix [Running] - Oracle VirtualBox
File
Machine
View
Input
Devices
Help
Kali Linux
Settings
Firefox
about:preferences#general
OffSec
Kali Linux
Kali Tools
Kali Docs
Kali Forums
Kali NetHunter
Exploit-DB
Google Hacking DB
Your browser is being managed by your organizati
General
Home
Search
Privacy & Security
Sync
More from Mozilla
Browsing
Use autoscrolling
Use smooth scrolling
Always show scrollbars
Always use the cursor keys to navigate withi
Always underline links
Search for text when you start typing
Enable picture-in-picture video controls
Control media via keyboard, headset, or virt
Recommend extensions as you browse
Recommend features as you browse
Network Settings
Configure how Firefox connects to the internet.
Extensions & Themes
Firefox Support
Connection Settings
Use system proxy settings
Manual proxy configuration
HTTP Proxy
127.0.0.1
Port
8080
Also use this proxy for HTTPS
HTTPS Proxy
127.0.0.1
Port
8080
SOCKS Host
Port
0
SOCKS v4
SOCKS v5
Automatic proxy configuration URL
Reload
No proxy for
Example: .mozilla.org, .net.nz, 192.168.1.0/24
Connections to localhost, 127.0.0.1/8, and ::1 are never proxied.
Do not prompt for authentication if password is saved
Proxy DNS when using SOCKS v4
Proxy DNS when using SOCKS v5
Cancel
OK
Right Ctrl


Kali lunix [Running] - Oracle VirtualBox
File
Machine
View
Input
Devices
Help
kali
us
07 Sep, 20:19
Mouse integration ...
Don't show again
Auto capture keyboard ...
Don't show again
Enter your password
Cancel
Log In
KALI
Right Ctrl


Kali lunix [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
kali@kali: ~
File Actions Edit View Help
(kali㉿kali)-[~]
$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
inet 127.0.0.1/8 scope host lo
valid_lft forever preferred_lft forever
inet6 ::1/128 scope host noprefixroute
valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
link/ether 08:00:27:d1:5d:66 brd ff:ff:ff:ff:ff:ff
3: eth1: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
link/ether 08:00:27:37:82:6c brd ff:ff:ff:ff:ff:ff
inet 10.0.3.15/24 brd 10.0.3.255 scope global dynamic noprefixroute eth1
valid_lft 86230sec preferred_lft 86230sec
inet6 fd17:625c:f037:3:8076:d8d2:6362:f99c/64 scope global temporary dynamic
valid_lft 86232sec preferred_lft 14232sec
inet6 fd17:625c:f037:3:a00:27ff:fe37:826c/64 scope global dynamic mngtmpaddr noprefixroute
valid_lft 86232sec preferred_lft 14232sec
inet6 fe80::a00:27ff:fe37:826c/64 scope link noprefixroute
valid_lft forever preferred_lft forever
(kali㉿kali)-[~]
$ ping -c
Mouse integration ...
Don't show again
Right Ctrl


Kali lunix [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
11:22
kali@kali: ~
File Actions Edit View Help
(kali㉿kali)-[~]
$ echo "hello hacker">test.txt
(kali㉿kali)-[~]
$ ls
Desktop Documents Downloads Music Pictures Public Templates test.txt Videos
(kali㉿kali)-[~]
$ ls -l test.txt
-rw-rw-r-- 1 kali kali 13 Sep 6 11:20 test.txt
(kali㉿kali)-[~]
$ chmod +x test.txt
(kali㉿kali)-[~]
$ ls -l test.txt
-rwxrwxr-x 1 kali kali 13 Sep 6 11:20 test.txt
(kali㉿kali)-[~]
$ chmod -w test.txt
(kali㉿kali)-[~]
$ ls -l test.txt
-r-xr-xr-x 1 kali kali 13 Sep 6 11:20 test.txt
(kali㉿kali)-[~]
$ chmod 644 test.txt
(kali㉿kali)-[~]
$ ls -l test.txt
-rw-r--r-- 1 kali kali 13 Sep 6 11:20 test.txt
(kali㉿kali)-[~]
$ sudo chown root:root test.txt
[sudo] password for kali:
(kali㉿kali)-[~]
$
Right Ctrl


Kali lunix [Running] - Oracle VirtualBox
File Machine View Input Devices Help
kali@kali: ~
File Actions Edit View Help
(kali㉿kali)-[~]
$ ping -c 4 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
64 bytes from 8.8.8.8: icmp_seq=1 ttl=255 time=71.7 ms
64 bytes from 8.8.8.8: icmp_seq=3 ttl=255 time=69.7 ms
64 bytes from 8.8.8.8: icmp_seq=4 ttl=255 time=83.6 ms
— 8.8.8.8 ping statistics —
4 packets transmitted, 3 received, 25% packet loss, time 3095ms
rtt min/avg/max/mdev = 69.650/74.976/83.558/6.126 ms
(kali㉿kali)-[~]
$ ping -c 4 google.com
PING google.com (142.250.192.78) 56(84) bytes of data.
64 bytes from bom12s16-in-f14.1e100.net (142.250.192.78): icmp_seq=1 ttl=255 time=65.6 ms
64 bytes from bom12s16-in-f14.1e100.net (142.250.192.78): icmp_seq=2 ttl=255 time=84.2 ms
64 bytes from bom12s16-in-f14.1e100.net (142.250.192.78): icmp_seq=3 ttl=255 time=428 ms
64 bytes from bom12s16-in-f14.1e100.net (142.250.192.78): icmp_seq=4 ttl=255 time=91.7 ms
— google.com ping statistics —
4 packets transmitted, 4 received, 0% packet loss, time 7578ms
rtt min/avg/max/mdev = 65.601/167.393/428.058/150.794 ms
(kali㉿kali)-[~]
$ netstat -tuln
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address Foreign Address State
(kali㉿kali)-[~]
$ sudo apt install traceroute -y
traceroute is already the newest version (1:2.1.6-1).
The following packages were automatically installed and are no longer required:
binutils-mingw-w64-i686 gcc-mingw-w64-i686-win32-runtime libkdb5-10t64 mingw-w64-x86-64-dev python3-aiowinreg python3-llvmlite python3-oscrypto python3-qasync smtp-user-enum
binutils-mingw-w64-x86-64 gcc-mingw-w64-x86-64-win32 libkrb5-dev ndiff python3-arc4 python3-lsassy python3-pandas python3-qrcode sparta-scripts
bloodhound.py gcc-mingw-w64-x86-64-win32-runtime liblinear4 nmap-common python3-asciitree python3-masky python3-pandas-lib python3-serial-asyncio sphinx-rtd-theme-common
comerr-dev imagemagick libluajit-5.1-2 numba-doc python3-asn1tools python3-minidump python3-pefile python3-smmap toilet-fonts
dnsmap imagemagick-7.q16 libluajit-5.1-common oracle-instantclient-basic python3-asyauth python3-minikerberos python3-pyexploitdb python3-tables unicornscan
dsniff krb5-multidev libnids1.21t64 python-odf-doc python3-asysocks python3-msldap python3-pyfiglet python3-tables-lib urlscan
ettercap-common libaio1t64 libtbb12 python-odf-tools python3-bitstruct python3-neo4j python3-pylnk3 python3-tld wapiti
ettercap-graphical libapache2-mod-php libtbbbind-2-5 python-tables-data python3-bottleneck python3-neobolt python3-pynfsclient python3-unicrypto
figlet libblosc2-4 libtbbmalloc2 python3-aardwolf python3-cpuinfo python3-neotime python3-pypsrp python3-winacl
finger libgssrpc4t64 medusa python3-aesedb python3-dploot python3-numba python3-pypykatz python3-xmltodict
gcc-mingw-w64-base libkadm5clnt-mit12 mingw-w64-common python3-aiocmd python3-git python3-numexpr python3-pyshodan python3-yaswfp
gcc-mingw-w64-i686-win32 libkadm5srv-mit12 mingw-w64-i686-dev python3-aiosmb python3-gitdb python3-odf python3-pyspnego rsh-redone-client
Use 'sudo apt autoremove' to remove them.
Summary:
Upgrading: 0, Installing: 0, Removing: 0, Not Upgrading: 0
(kali㉿kali)-[~]
$ tr
Right Ctrl


Kali lunix [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
22:58
kali@kali: ~
File Actions Edit View Help
|_ssl-date: 2025-09-13T17:25:38+00:00; -1s from scanner time.
5900/tcp open vnc VNC (protocol 3.3)
| vnc-info:
| Protocol version: 3.3
| Security types:
|_ VNC Authentication (2)
6000/tcp open X11 (access denied)
6667/tcp open irc UnrealIRCd
8009/tcp open ajp13 Apache Jserv (Protocol v1.3)
|_ajp-methods: Failed to get a valid response for the OPTION request
8180/tcp open http Apache Tomcat/Coyote JSP engine 1.1
|_http-favicon: Apache Tomcat
|_http-title: Apache Tomcat/5.5
|_http-server-header: Apache-Coyote/1.1
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
Device type: bridge|VoIP adapter|general purpose
Running (JUST GUESSING): Oracle Virtualbox (98%), Slirp (98%), AT&T embedded (95%), QEMU (94%)
OS CPE: cpe:/o:oracle:virtualbox cpe:/a:danny_gasparovski:slirp cpe:/a:qemu:qemu
Aggressive OS guesses: Oracle Virtualbox Slirp NAT bridge (98%), AT&T BGW210 voice gateway (95%), QEMU user mode network gateway (94%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 1 hop
Service Info: Hosts: metasploitable.localdomain, irc.Metasploitable.LAN; OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel
Host script results:
| smb-os-discovery:
| OS: Unix (Samba 3.0.20-Debian)
| Computer name: metasploitable
| NetBIOS computer name:
| Domain name: localdomain
| FQDN: metasploitable.localdomain
|_ System time: 2025-09-13T13:25:24-04:00
| smb-security-mode:
| account_used: <blank>
| authentication_level: user
| challenge_response: supported
|_ message_signing: disabled (dangerous, but default)
|_smb2-time: Protocol negotiation failed (SMB2)
|_clock-skew: mean: 59m58s, deviation: 2h00m00s, median: -1s
|_nbstat: NetBIOS name: METASPLOITABLE, NetBIOS user: <unknown>, NetBIOS MAC: <unknown> (unknown)
TRACEROUTE (using port 80/tcp)
HOP RTT ADDRESS
1 0.52 ms 192.168.56.104
OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 76.74 seconds
(kali㉿kali)-[~]
$ sudo nmap -sV 192.168.56.104 | tee nmap_scan.txt
Starting Nmap 7.95 (https://nmap.org) at 2025-09-13 22:57 IST
Right Ctrl

```
64 bytes from 192.168.56.104: icmp_seq=4 ttl=255 time=2.72 ms
64 bytes from 192.168.56.104: icmp_seq=5 ttl=255 time=2.30 ms
64 bytes from 192.168.56.104: icmp_seq=6 ttl=255 time=1.68 ms
64 bytes from 192.168.56.104: icmp_seq=7 ttl=255 time=1.15 ms
64 bytes from 192.168.56.104: icmp_seq=8 ttl=255 time=1.44 ms
64 bytes from 192.168.56.104: icmp_seq=9 ttl=255 time=1.88 ms
64 bytes from 192.168.56.104: icmp_seq=10 ttl=255 time=1.26 ms

── 192.168.56.104 ping statistics ──
10 packets transmitted, 10 received, 0% packet loss, time 9027ms
rtt min/avg/max/mdev = 1.153/2.789/12.511/3.273 ms

┌──(kali㉿kali)-[~]
└─$ sudo apt install -y arping 2>/dev/null || true
The following packages were automatically installed and are no longer required:
  binutils-mingw-w64-i686    gcc-mingw-w64-i686-win32-runtime    libkdb5-10t64          numba-doc                  python3-asn1tools    python3-minidump     python3-pefile       python3-smmap          toilet-fonts
  binutils-mingw-w64-x86-64  gcc-mingw-w64-x86-64-win32          libkrb5-dev            oracle-instantclient-basic python3-asyauth      python3-minikerberos python3-pyexploitdb  python3-tables         unicornscan
  bloodhound.py              gcc-mingw-w64-x86-64-win32-runtime  libluajit-5.1-2        python-odf-doc             python3-asysocks     python3-msldap       python3-pyfiglet     python3-tables-lib     urlscan
  comerr-dev                 imagemagick                         libluajit-5.1-common   python-odf-tools           python3-bitstruct    python3-neo4j        python3-pylnk3       python3-tld            wapiti
  dnsmap                     imagemagick-7.q16                   libnids1.21t64         python-tables-data         python3-bottleneck   python3-neobolt      python3-pynfsclient  python3-unicrypto
  dsniff                     krb5-multidev                       libtbb12               python3-aardwolf           python3-cpuinfo      python3-neotime      python3-pypsrp       python3-winacl
  ettercap-common            libaio1t64                          libtbbbind-2-5         python3-aesedb             python3-dploot       python3-numba        python3-pypykatz     python3-xmltodict
  ettercap-graphical         libapache2-mod-php                  libtbbmalloc2          python3-aiocmd             python3-git          python3-numexpr      python3-pyshodan     python3-yaswfp
  figlet                     libblosc2-4                         medusa                 python3-aiosmb             python3-gitdb        python3-odf          python3-pyspnego     rsh-redone-client
  finger                     libgssrpc4t64                       mingw-w64-common       python3-aiowinreg          python3-llvmlite     python3-oscrypto     python3-qasync       smtp-user-enum
  gcc-mingw-w64-base         libkadm5clnt-mit12                  mingw-w64-i686-dev     python3-arc4               python3-lsassy       python3-pandas       python3-qrcode       sparta-scripts
  gcc-mingw-w64-i686-win32   libkadm5srv-mit12                   mingw-w64-x86-64-dev   python3-asciitree          python3-masky        python3-pandas-lib   python3-serial-asyncio sphinx-rtd-theme-common
Use 'sudo apt autoremove' to remove them.

Upgrading:
  arping

Summary:
  Upgrading: 1, Installing: 0, Removing: 0, Not Upgrading: 963
  Download size: 0 B / 33.1 kB
  Space needed: 0 B / 97.4 GB available

(Reading database ... 381037 files and directories currently installed.)
Preparing to unpack .../arping_2.26-1_amd64.deb ...
Unpacking arping (2.26-1) over (2.25-1) ...
Setting up arping (2.26-1) ...
Processing triggers for kali-menu (2025.2.7) ...
Processing triggers for man-db (2.13.1-1) ...

┌──(kali㉿kali)-[~]
└─$ sudo arping -I eth0 -c 5 192.168.56.104
arping: Unable to get the IPv4 address of interface eth0:
arping: libnet_get_ipaddr4(): ioctl(): Cannot assign requested addressarping: Use -S to specify address manually.

┌──(kali㉿kali)-[~]
└─$
```

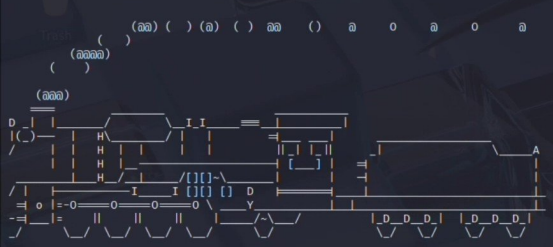
Kali lunix [Running] - Oracle VirtualBox

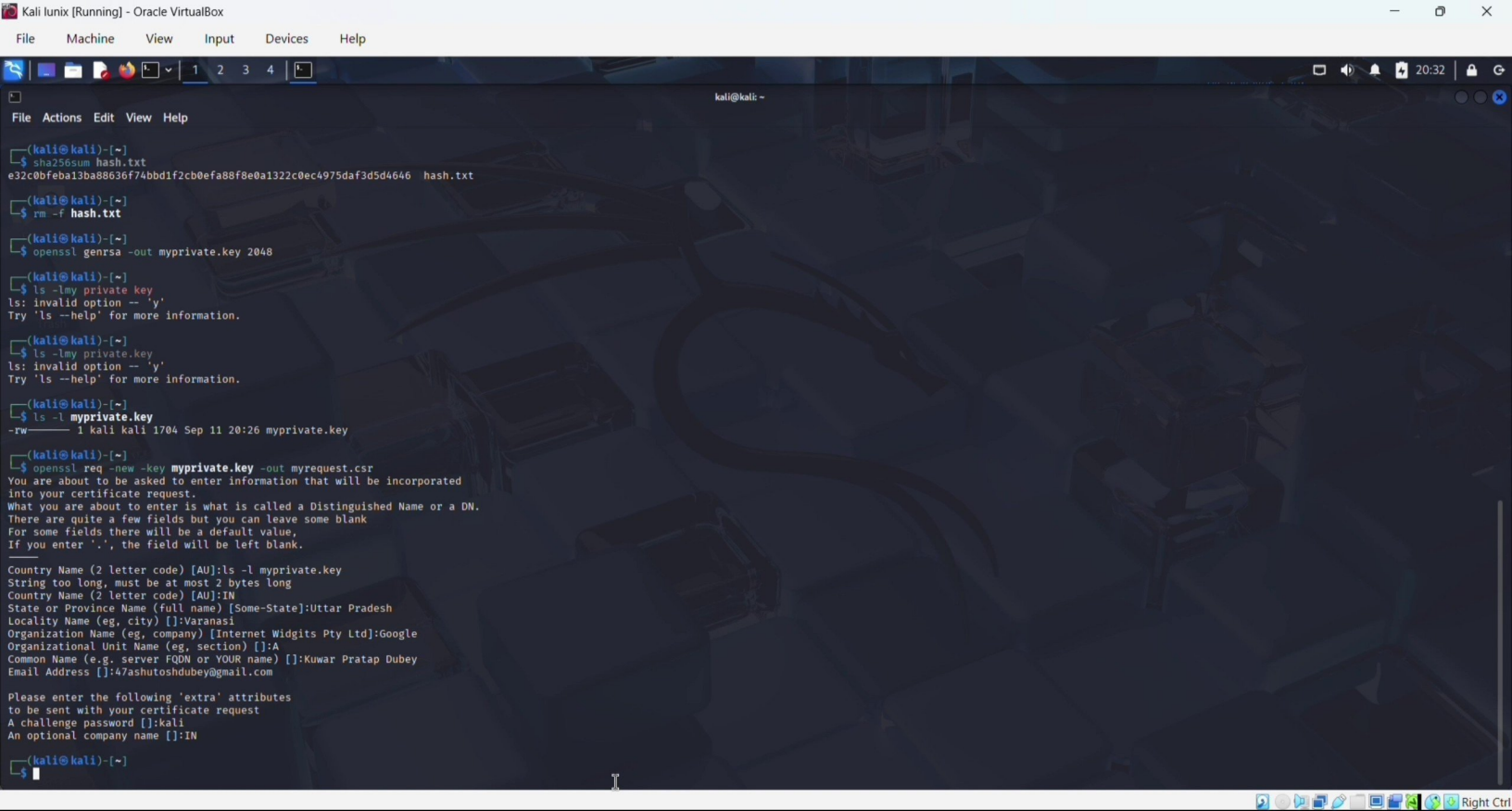
File Machine View Input Devices Help

1 2 3 4 20:27

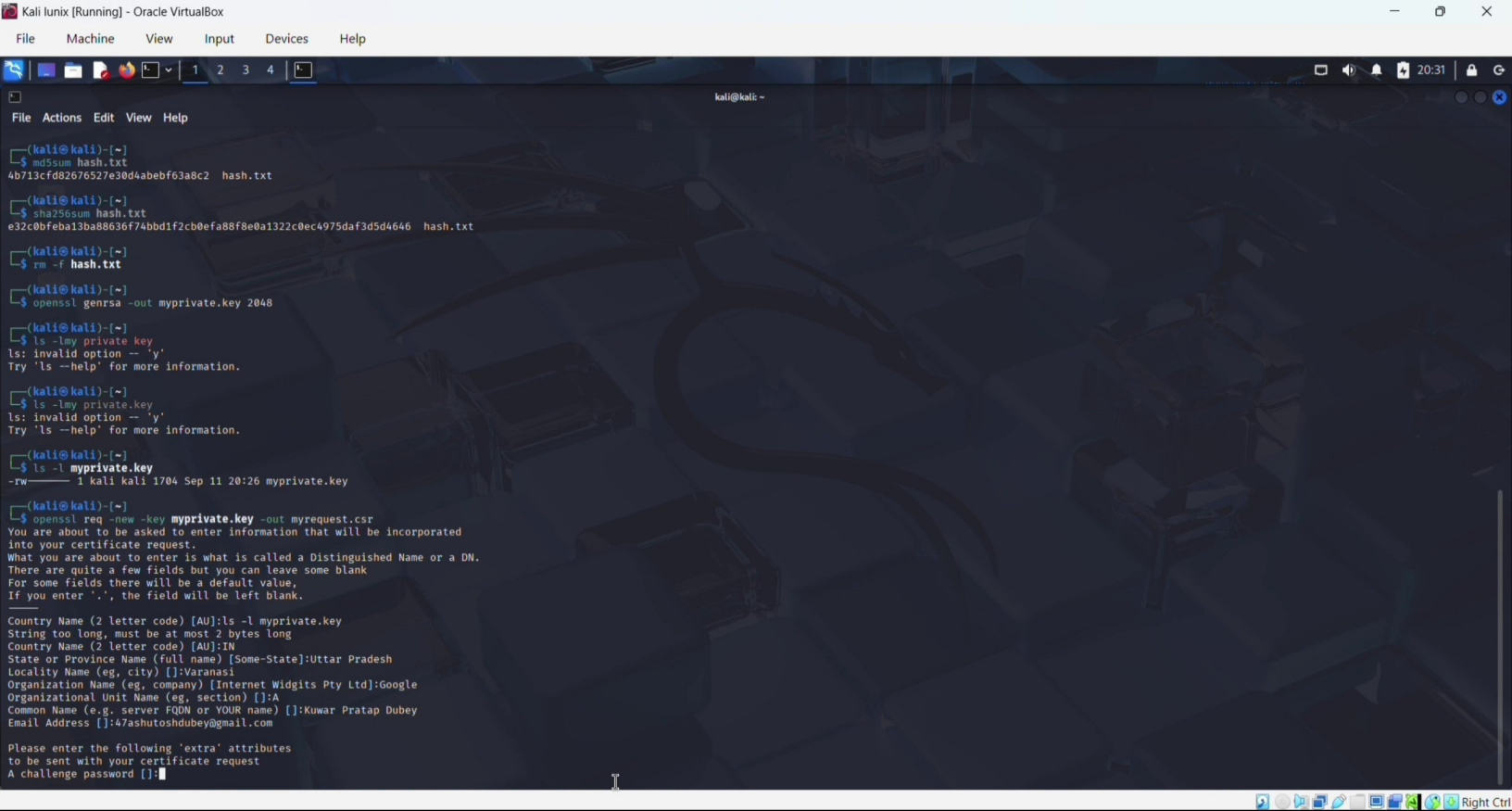
kali@kali: ~

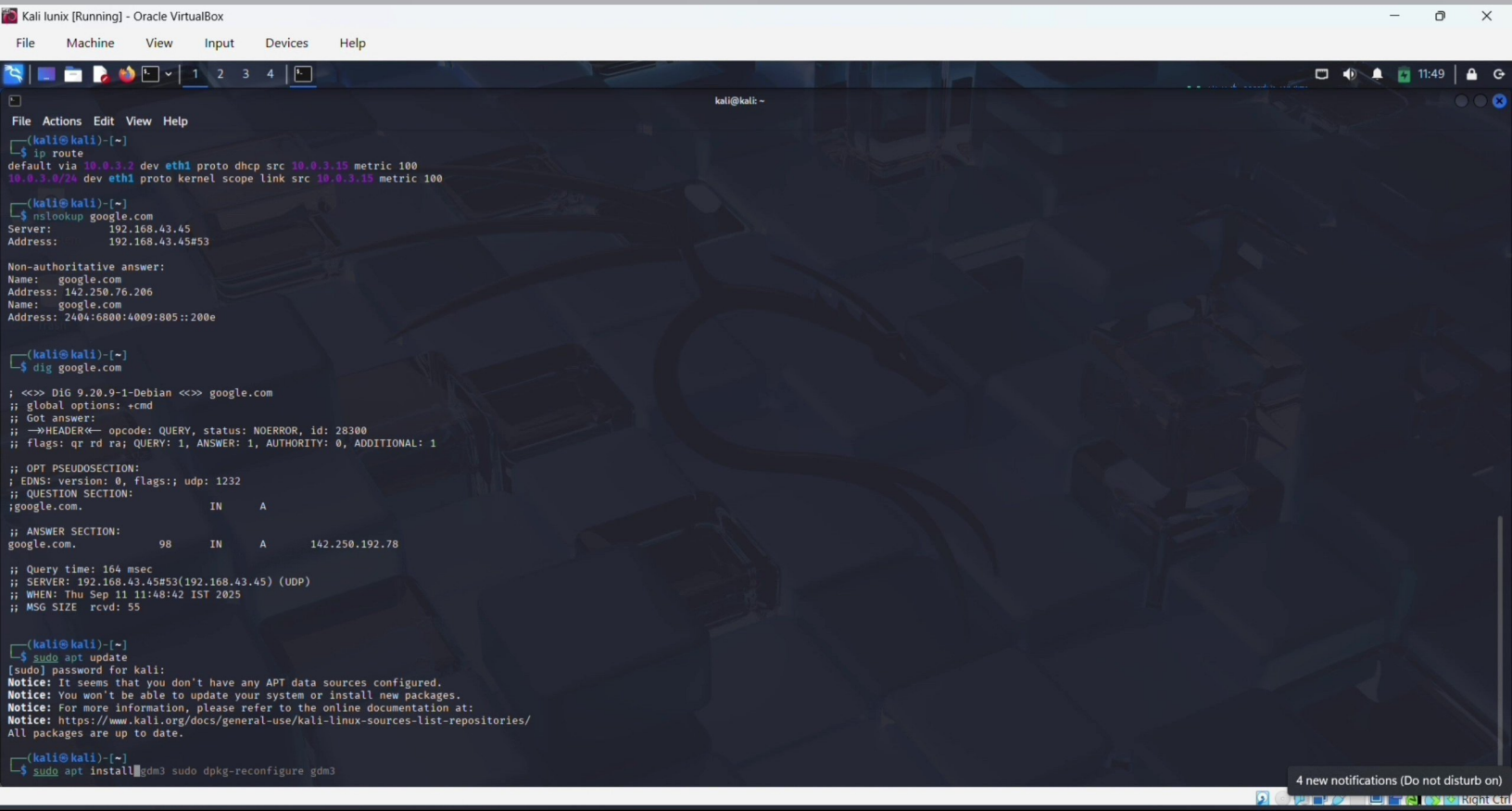
File Actions Edit View Help

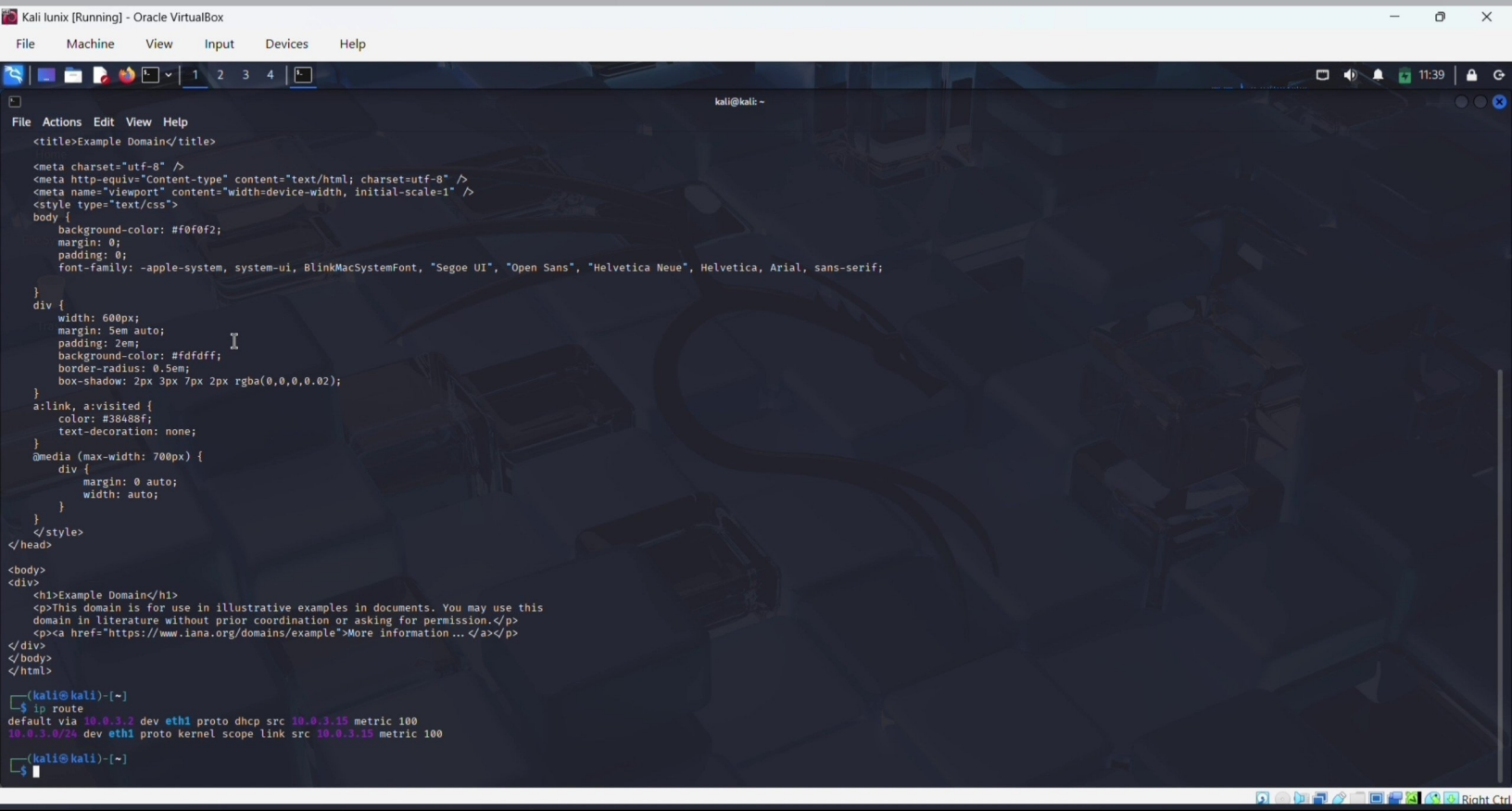



Kali lunix [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
20:32
kali@kali: ~
File Actions Edit View Help
┌──(kali㉿kali)-[~]
└─$ sha256sum hash.txt
e32c0bfeba13ba88636f74bbd1f2cb0efa88f8e0a1322c0ec4975daf3d5d4646 hash.txt
┌──(kali㉿kali)-[~]
└─$ rm -f hash.txt
┌──(kali㉿kali)-[~]
└─$ openssl genrsa -out myprivate.key 2048
┌──(kali㉿kali)-[~]
└─$ ls -lmy private key
ls: invalid option -- 'y'
Try 'ls --help' for more information.
┌──(kali㉿kali)-[~]
└─$ ls -lmy private.key
ls: invalid option -- 'y'
Try 'ls --help' for more information.
┌──(kali㉿kali)-[~]
└─$ ls -l myprivate.key
-rw------- 1 kali kali 1704 Sep 11 20:26 myprivate.key
┌──(kali㉿kali)-[~]
└─$ openssl req -new -key myprivate.key -out myrequest.csr
You are about to be asked to enter information that will be incorporated
into your certificate request.
What you are about to enter is what is called a Distinguished Name or a DN.
There are quite a few fields but you can leave some blank
For some fields there will be a default value,
If you enter '.', the field will be left blank.

Country Name (2 letter code) [AU]:ls -l myprivate.key
String too long, must be at most 2 bytes long
Country Name (2 letter code) [AU]:IN
State or Province Name (full name) [Some-State]:Uttar Pradesh
Locality Name (eg, city) []:Varanasi
Organization Name (eg, company) [Internet Widgits Pty Ltd]:Google
Organizational Unit Name (eg, section) []:A
Common Name (e.g. server FQDN or YOUR name) []:Kuwar Pratap Dubey
Email Address []:47ashutoshdubey@gmail.com
Please enter the following 'extra' attributes
to be sent with your certificate request
A challenge password []:kali
An optional company name []:IN
┌──(kali㉿kali)-[~]
└─$
Right Ctrl

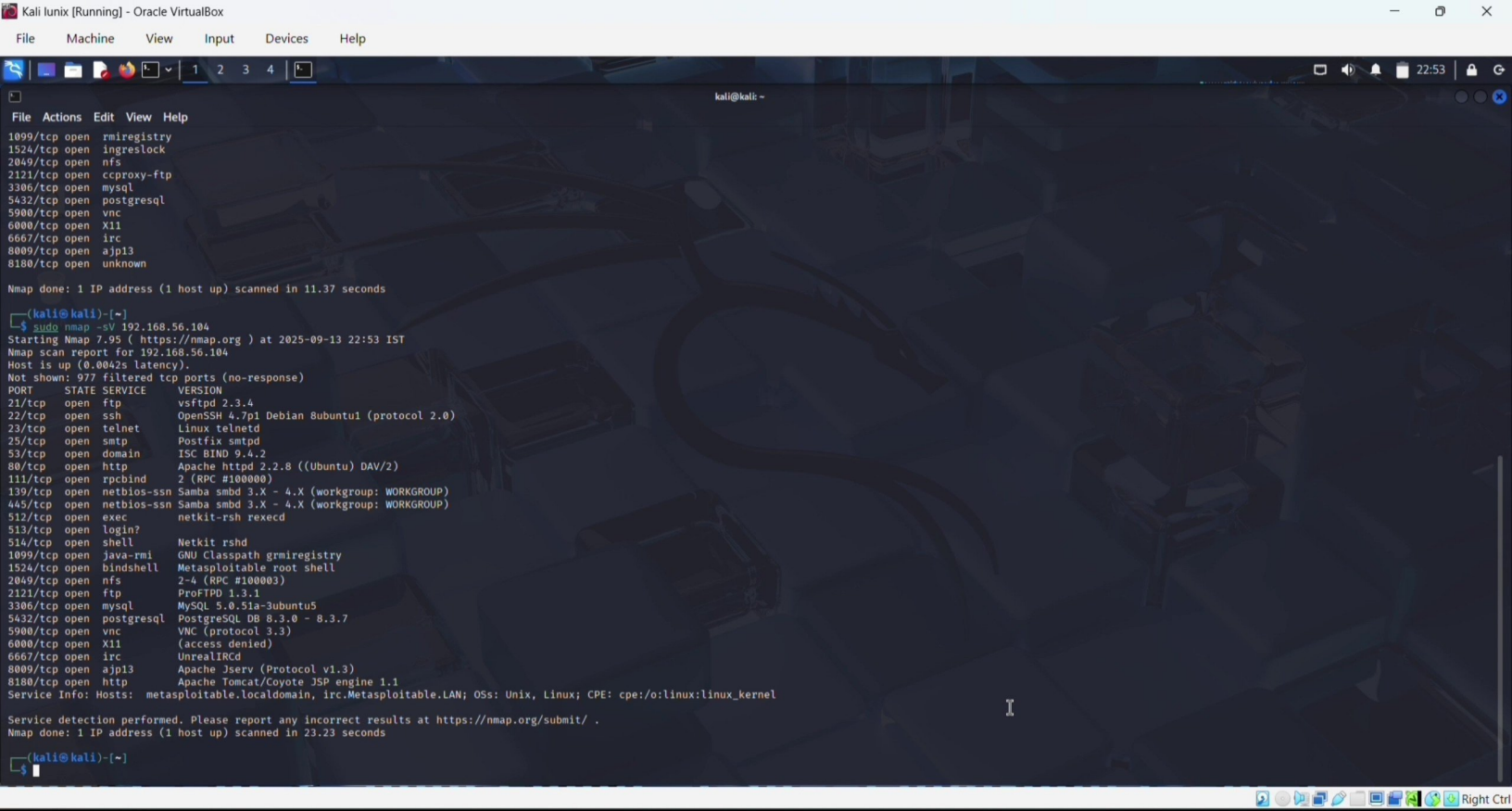

Kali lunix [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
20:31
kali@kali: ~
File Actions Edit View Help
(kali㉿kali)-[~]
$ md5sum hash.txt
4b713cfd82676527e30d4abebf63a8c2 hash.txt
(kali㉿kali)-[~]
$ sha256sum hash.txt
e32c0bfeba13ba88636f74bbd1f2cb0efa88f8e0a1322c0ec4975daf3d5d4646 hash.txt
(kali㉿kali)-[~]
$ rm -f hash.txt
(kali㉿kali)-[~]
$ openssl genrsa -out myprivate.key 2048
(kali㉿kali)-[~]
$ ls -lmy private key
ls: invalid option -- 'y'
Try 'ls --help' for more information.
(kali㉿kali)-[~]
$ ls -lmy private.key
ls: invalid option -- 'y'
Try 'ls --help' for more information.
(kali㉿kali)-[~]
$ ls -l myprivate.key
-rw------- 1 kali kali 1704 Sep 11 20:26 myprivate.key
(kali㉿kali)-[~]
$ openssl req -new -key myprivate.key -out myrequest.csr
You are about to be asked to enter information that will be incorporated
into your certificate request.
What you are about to enter is what is called a Distinguished Name or a DN.
There are quite a few fields but you can leave some blank
For some fields there will be a default value,
If you enter '.', the field will be left blank.
Country Name (2 letter code) [AU]:ls -l myprivate.key
String too long, must be at most 2 bytes long
Country Name (2 letter code) [AU]:IN
State or Province Name (full name) [Some-State]:Uttar Pradesh
Locality Name (eg, city) []:Varanasi
Organization Name (eg, company) [Internet Widgits Pty Ltd]:Google
Organizational Unit Name (eg, section) []:A
Common Name (e.g. server FQDN or YOUR name) []:Kuwar Pratap Dubey
Email Address []:47ashutoshdubey@gmail.com
Please enter the following 'extra' attributes
to be sent with your certificate request
A challenge password []:
Right Ctrl

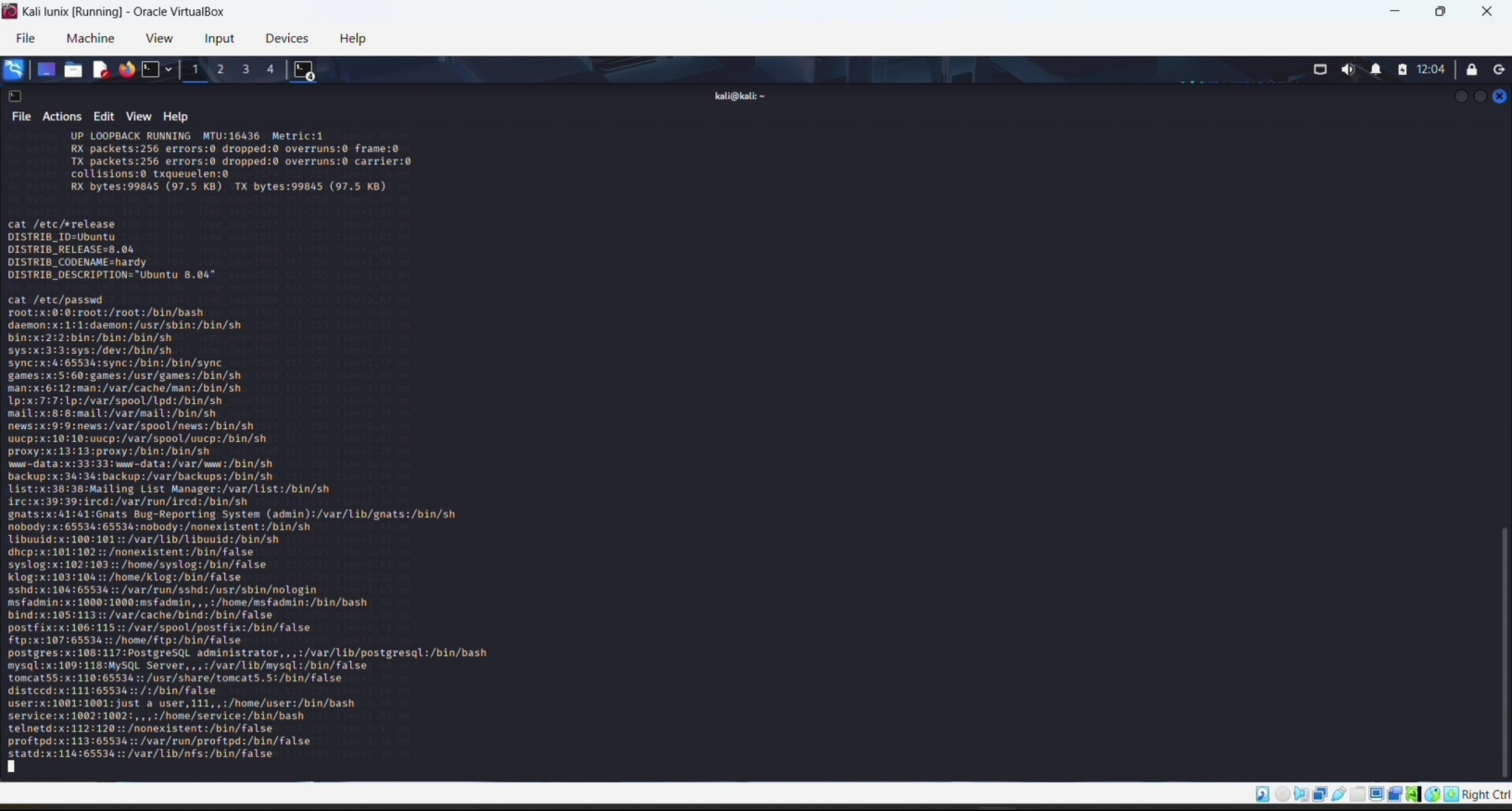

Kali lunix [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
11:49
kali@kali: ~
File Actions Edit View Help
┌──(kali㉿kali)-[~]
└─$ ip route
default via 10.0.3.2 dev eth1 proto dhcp src 10.0.3.15 metric 100
10.0.3.0/24 dev eth1 proto kernel scope link src 10.0.3.15 metric 100
┌──(kali㉿kali)-[~]
└─$ nslookup google.com
Server: 192.168.43.45
Address: 192.168.43.45#53
Non-authoritative answer:
Name: google.com
Address: 142.250.76.206
Name: google.com
Address: 2404:6800:4009:805::200e
┌──(kali㉿kali)-[~]
└─$ dig google.com
; <<>> DiG 9.20.9-1-Debian <<>> google.com
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 28300
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; QUESTION SECTION:
;google.com. IN A
;; ANSWER SECTION:
google.com. 98 IN A 142.250.192.78
;; Query time: 164 msec
;; SERVER: 192.168.43.45#53(192.168.43.45) (UDP)
;; WHEN: Thu Sep 11 11:48:42 IST 2025
;; MSG SIZE rcvd: 55
┌──(kali㉿kali)-[~]
└─$ sudo apt update
[sudo] password for kali:
Notice: It seems that you don't have any APT data sources configured.
Notice: You won't be able to update your system or install new packages.
Notice: For more information, please refer to the online documentation at:
Notice: https://www.kali.org/docs/general-use/kali-linux-sources-list-repositories/
All packages are up to date.
┌──(kali㉿kali)-[~]
└─$ sudo apt install gdm3 sudo dpkg-reconfigure gdm3
4 new notifications (Do not disturb on)
Right Ctrl

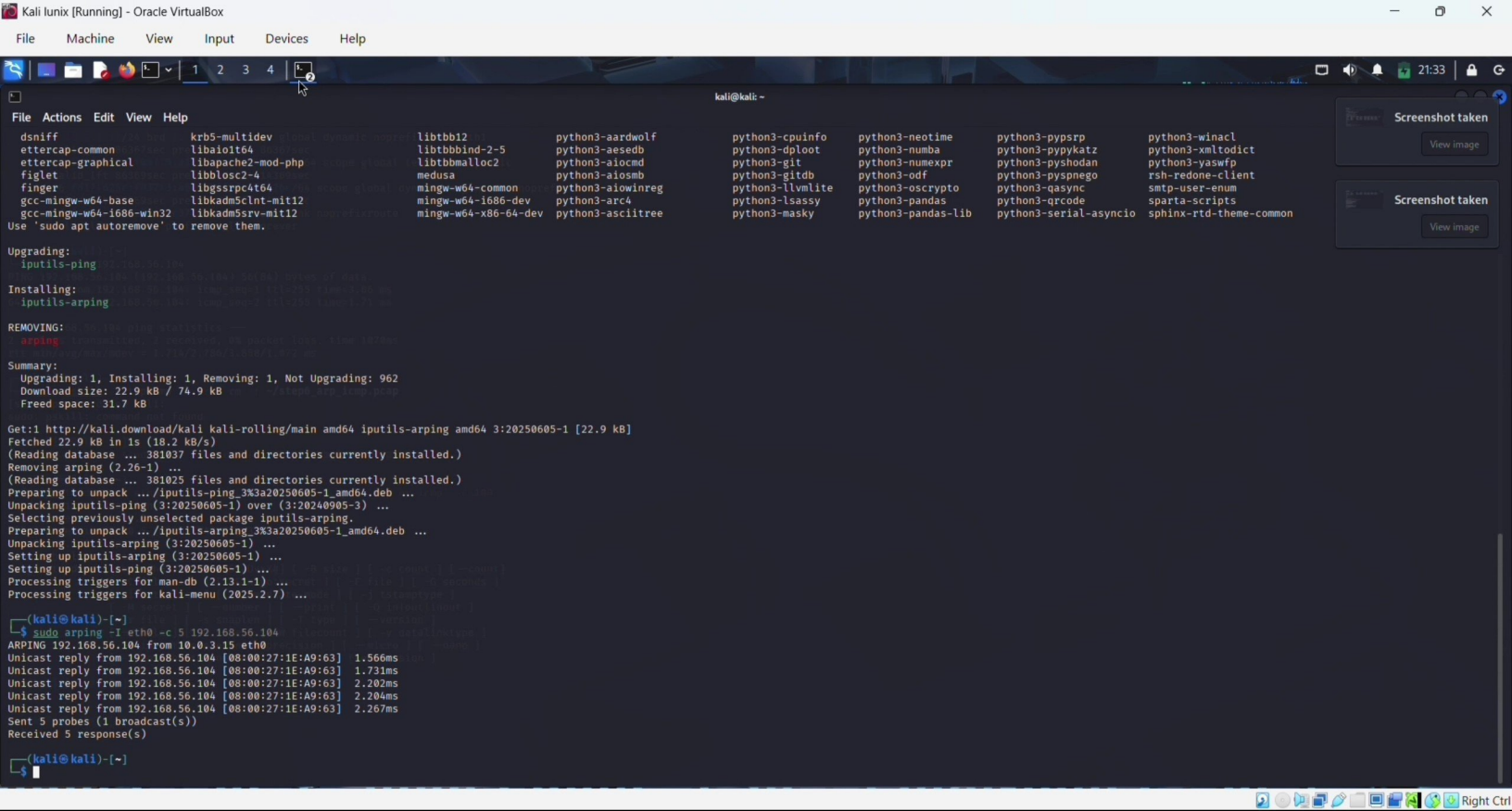

Kali lunix [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
11:39
kali@kali: ~
File Actions Edit View Help
<title>Example Domain</title>
<meta charset="utf-8" />
<meta http-equiv="Content-type" content="text/html; charset=utf-8" />
<meta name="viewport" content="width=device-width, initial-scale=1" />
<style type="text/css">
body {
background-color: #f0f0f2;
margin: 0;
padding: 0;
font-family: -apple-system, system-ui, BlinkMacSystemFont, "Segoe UI", "Open Sans", "Helvetica Neue", Helvetica, Arial, sans-serif;
}
div {
width: 600px;
margin: 5em auto;
padding: 2em;
background-color: #fdfdff;
border-radius: 0.5em;
box-shadow: 2px 3px 7px 2px rgba(0,0,0,0.02);
}
a:link, a:visited {
color: #38488f;
text-decoration: none;
}
@media (max-width: 700px) {
div {
margin: 0 auto;
width: auto;
}
}
</style>
</head>
<body>

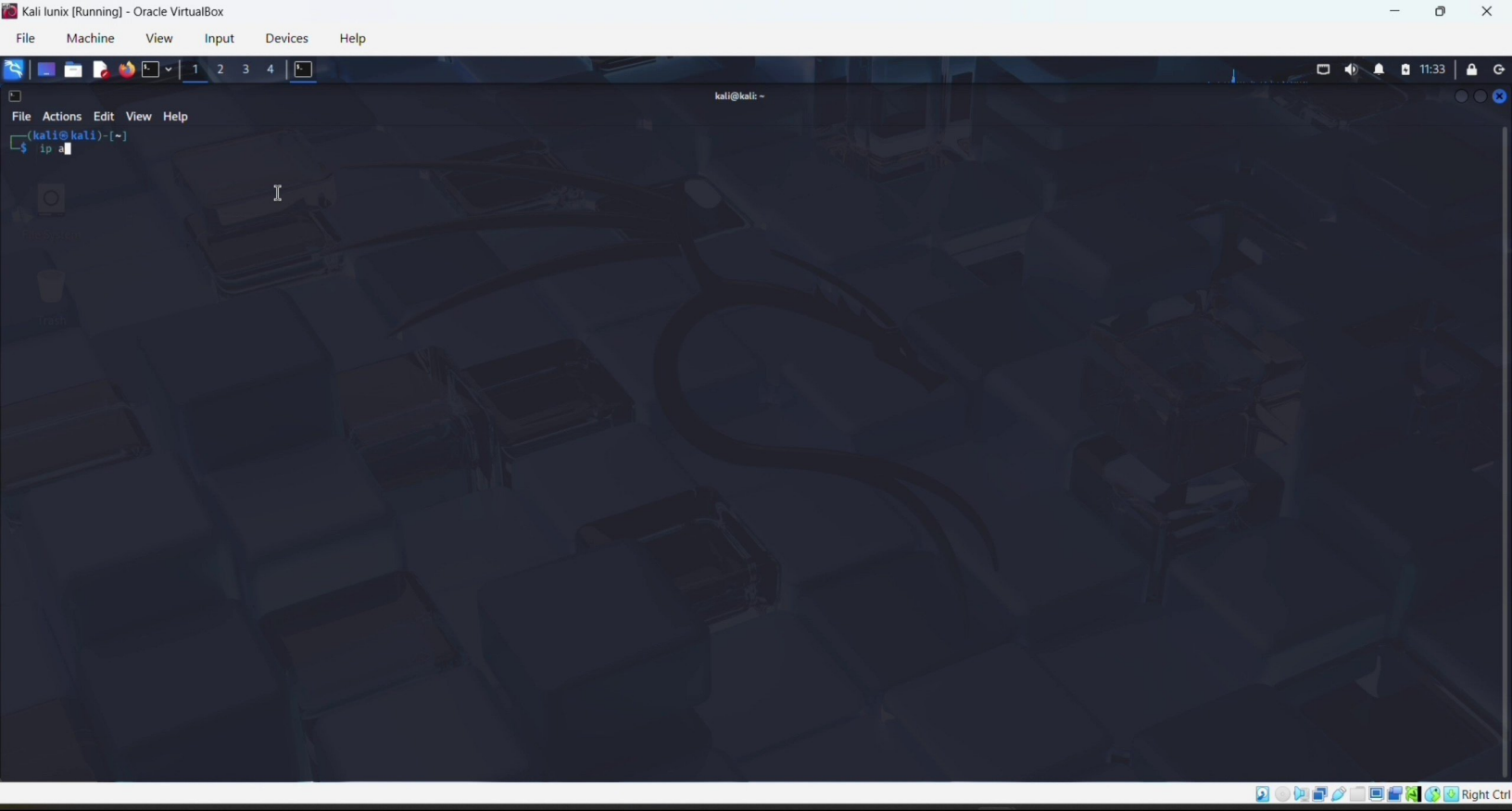
<h1>Example Domain</h1>
This domain is for use in illustrative examples in documents. You may use this
domain in literature without prior coordination or asking for permission.
More information ...

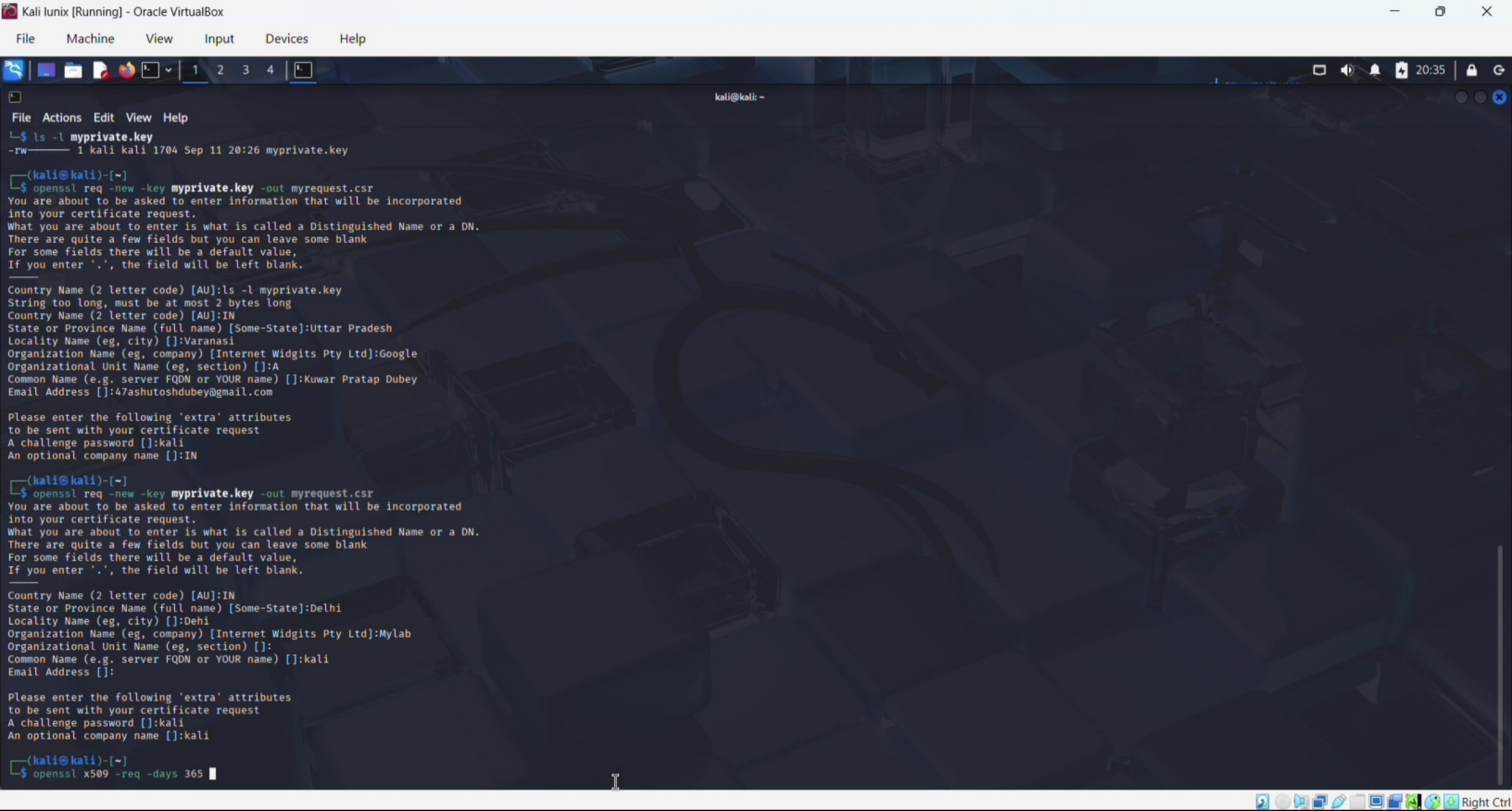
</body>
</html>
(kali㉿kali)-[~]
$ ip route
default via 10.0.3.2 dev eth1 proto dhcp src 10.0.3.15 metric 100
10.0.3.0/24 dev eth1 proto kernel scope link src 10.0.3.15 metric 100
(kali㉿kali)-[~]
$
Right Ctrl


Kali lunix [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
22:53
kali@kali: ~
File Actions Edit View Help
1099/tcp open rmiregistry
1524/tcp open ingreslock
2049/tcp open nfs
2121/tcp open ccproxy-ftp
3306/tcp open mysql
5432/tcp open postgresql
5900/tcp open vnc
6000/tcp open X11
6667/tcp open irc
8009/tcp open ajp13
8180/tcp open unknown
Nmap done: 1 IP address (1 host up) scanned in 11.37 seconds
(kali㉿kali)-[~]
$ sudo nmap -sV 192.168.56.104
Starting Nmap 7.95 (https://nmap.org) at 2025-09-13 22:53 IST
Nmap scan report for 192.168.56.104
Host is up (0.0042s latency).
Not shown: 977 filtered tcp ports (no-response)
PORT STATE SERVICE VERSION
21/tcp open ftp vsftpd 2.3.4
22/tcp open ssh OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
23/tcp open telnet Linux telnetd
25/tcp open smtp Postfix smtpd
53/tcp open domain ISC BIND 9.4.2
80/tcp open http Apache httpd 2.2.8 ((Ubuntu) DAV/2)
111/tcp open rpcbind 2 (RPC #100000)
139/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
445/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
512/tcp open exec netkit-rsh rexecd
513/tcp open login?
514/tcp open shell Netkit rshd
1099/tcp open java-rmi GNU Classpath grmiregistry
1524/tcp open bindshell Metasploitable root shell
2049/tcp open nfs 2-4 (RPC #100003)
2121/tcp open ftp ProFTPD 1.3.1
3306/tcp open mysql MySQL 5.0.51a-3ubuntu5
5432/tcp open postgresql PostgreSQL DB 8.3.0 - 8.3.7
5900/tcp open vnc VNC (protocol 3.3)
6000/tcp open X11 (access denied)
6667/tcp open irc UnrealIRCd
8009/tcp open ajp13 Apache Jserv (Protocol v1.3)
8180/tcp open http Apache Tomcat/Coyote JSP engine 1.1
Service Info: Hosts: metasploitable.localdomain, irc.Metasploitable.LAN; OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 23.23 seconds
(kali㉿kali)-[~]
$
Right Ctrl

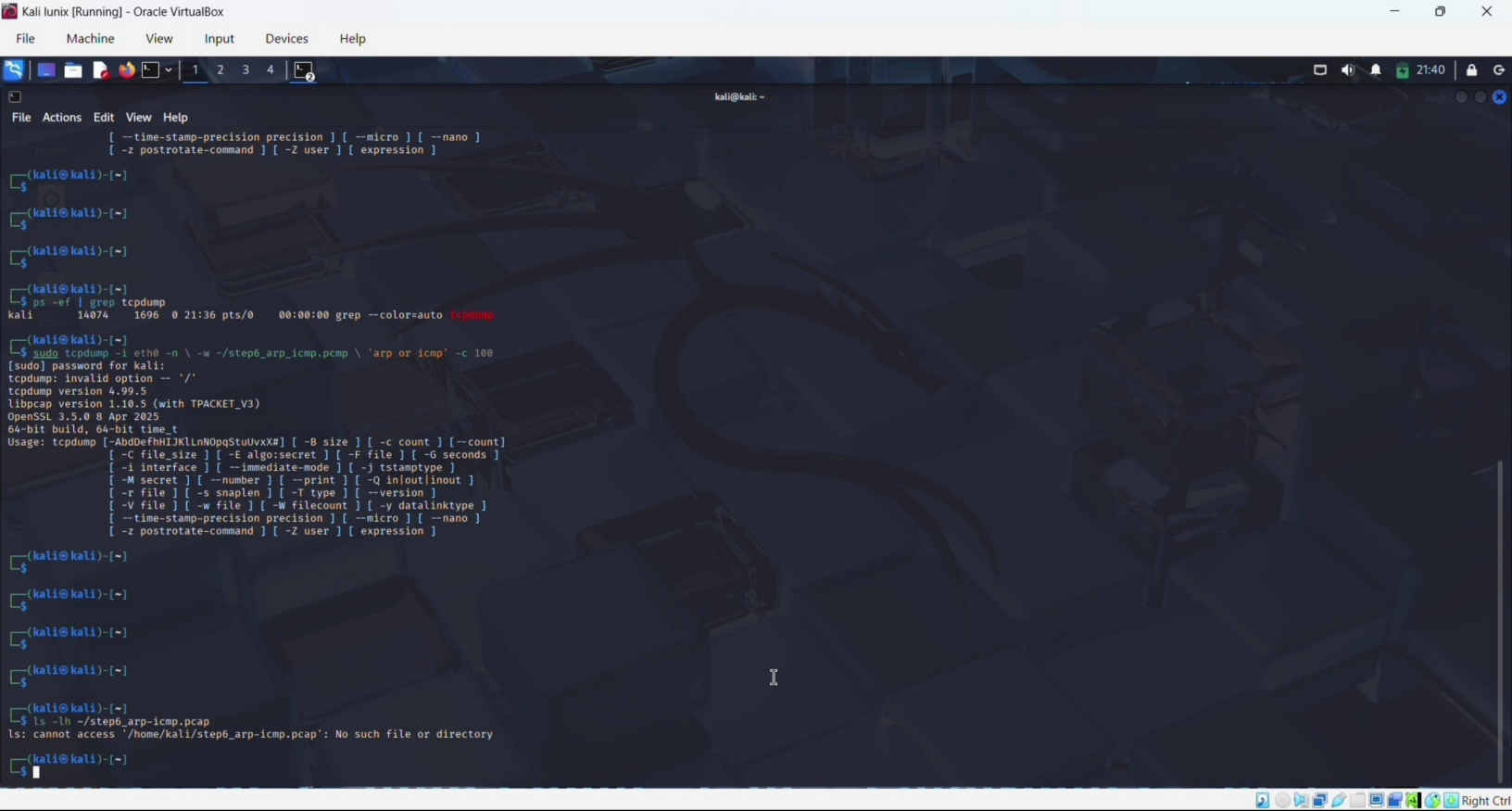

Kali lunix [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
12:04
kali@kali: ~
File Actions Edit View Help
UP LOOPBACK RUNNING MTU:16436 Metric:1
RX packets:256 errors:0 dropped:0 overruns:0 frame:0
TX packets:256 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:99845 (97.5 KB) TX bytes:99845 (97.5 KB)
cat /etc/*release
DISTRIB_ID=Ubuntu
DISTRIB_RELEASE=8.04
DISTRIB_CODENAME=hardy
DISTRIB_DESCRIPTION="Ubuntu 8.04"
cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/bin/sh
bin:x:2:2:bin:/bin:/bin/sh
sys:x:3:3:sys:/dev:/bin/sh
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/bin/sh
man:x:6:12:man:/var/cache/man:/bin/sh
lp:x:7:7:lp:/var/spool/lpd:/bin/sh
mail:x:8:8:mail:/var/mail:/bin/sh
news:x:9:9:news:/var/spool/news:/bin/sh
uucp:x:10:10:uucp:/var/spool/uucp:/bin/sh
proxy:x:13:13:proxy:/bin:/bin/sh
www-data:x:33:33:www-data:/var/www:/bin/sh
backup:x:34:34:backup:/var/backups:/bin/sh
list:x:38:38:Mailing List Manager:/var/list:/bin/sh
irc:x:39:39:ircd:/var/run/ircd:/bin/sh
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/bin/sh
nobody:x:65534:65534:nobody:/nonexistent:/bin/sh
libuuid:x:100:101::/var/lib/libuuid:/bin/sh
dhcp:x:101:102::/nonexistent:/bin/false
syslog:x:102:103::/home/syslog:/bin/false
klog:x:103:104::/home/klog:/bin/false
sshd:x:104:65534::/var/run/sshd:/usr/sbin/nologin
msfadmin:x:1000:1000:msfadmin,,,:/home/msfadmin:/bin/bash
bind:x:105:113::/var/cache/bind:/bin/false
postfix:x:106:115::/var/spool/postfix:/bin/false
ftp:x:107:65534::/home/ftp:/bin/false
postgres:x:108:117:PostgreSQL administrator,,,:/var/lib/postgresql:/bin/bash
mysql:x:109:118:MySQL Server,,,:/var/lib/mysql:/bin/false
tomcat55:x:110:65534::/usr/share/tomcat5.5:/bin/false
distccd:x:111:65534::/:/bin/false
user:x:1001:1001:just a user,111,,:/home/user:/bin/bash
service:x:1002:1002:,,,:/home/service:/bin/bash
telnetd:x:112:120::/nonexistent:/bin/false
proftpd:x:113:65534::/var/run/proftpd:/bin/false
statd:x:114:65534::/var/lib/nfs:/bin/false
Right Ctrl

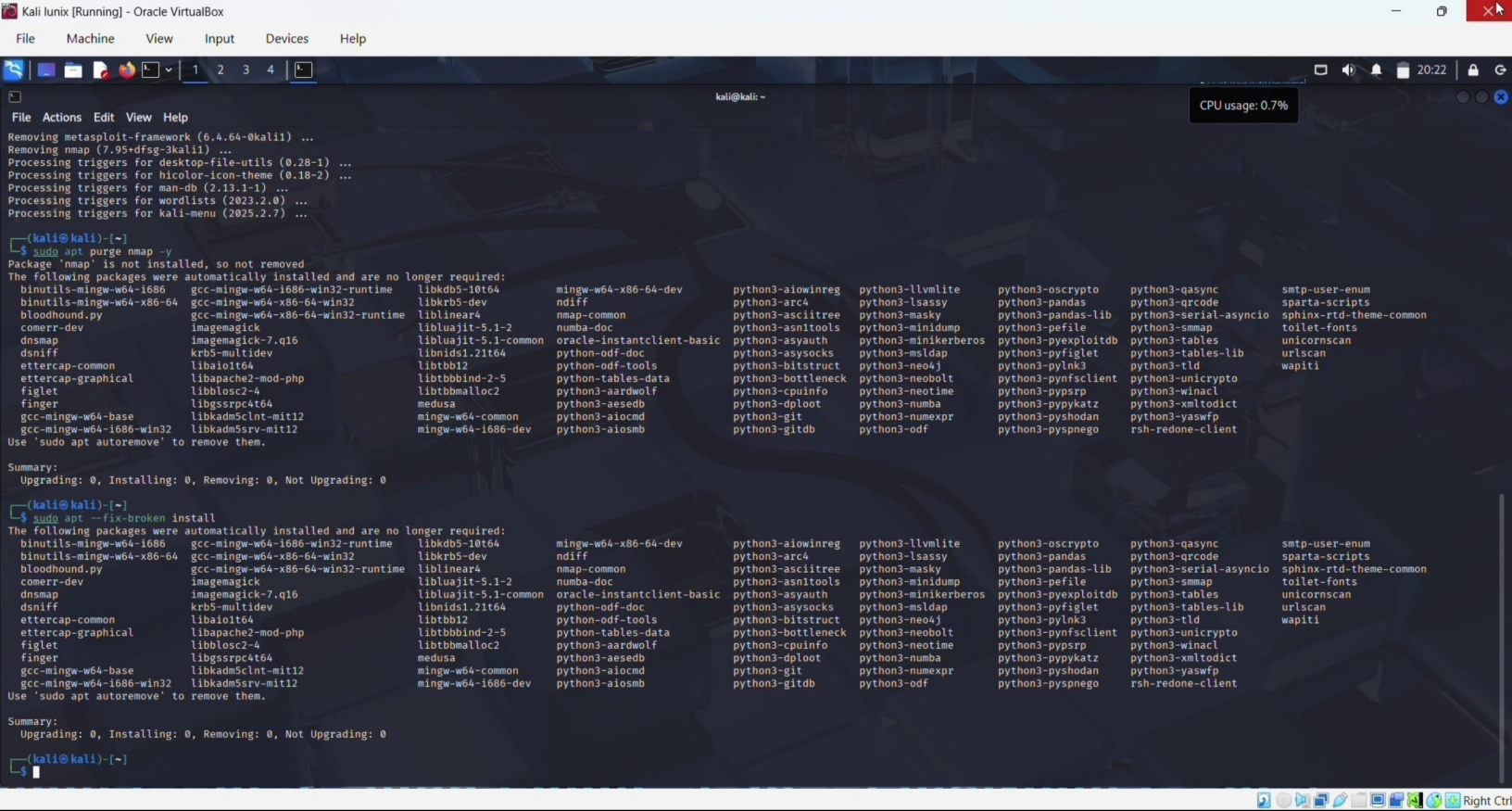

Kali lunix [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
21:33
kali@kali: ~
File Actions Edit View Help
dsniff krb5-multidev libtbb12 python3-aardwolf python3-cpuinfo python3-neotime python3-pypsrp python3-winacl
ettercap-common libaio1t64 libtbbbind-2-5 python3-aesedb python3-dploot python3-numba python3-pypykatz python3-xmltodict
ettercap-graphical libapache2-mod-php libtbbmalloc2 python3-aiocmd python3-git python3-numexpr python3-pyshodan python3-yaswfp
figlet libblosc2-4 medusa python3-aiosmb python3-gitdb python3-odf python3-pysnego rsh-redone-client
finger libgssrpc4t64 mingw-w64-common python3-aiowinreg python3-llvmlite python3-oscrypto python3-qasync smtp-user-enum
gcc-mingw-w64-base libkadm5clnt-mit12 mingw-w64-i686-dev python3-arc4 python3-lsassy python3-pandas python3-qrcode sparta-scripts
gcc-mingw-w64-i686-win32 libkadm5srv-mit12 mingw-w64-x86-64-dev python3-asciitree python3-masky python3-pandas-lib python3-serial-asyncio sphinx-rtd-theme-common
Use 'sudo apt autoremove' to remove them.
Upgrading:
iputils-ping
Installing:
iputils-arping
REMOVING:
arping
Summary:
Upgrading: 1, Installing: 1, Removing: 1, Not Upgrading: 962
Download size: 22.9 kB / 74.9 kB
Freed space: 31.7 kB
Get:1 http://kali.download/kali kali-rolling/main amd64 iputils-arping amd64 3:20250605-1 [22.9 kB]
Fetched 22.9 kB in 1s (18.2 kB/s)
(Reading database ... 381037 files and directories currently installed.)
Removing arping (2.26-1) ...
(Reading database ... 381025 files and directories currently installed.)
Preparing to unpack .../iputils-ping_3%3a20250605-1_amd64.deb ...
Unpacking iputils-ping (3:20250605-1) over (3:20240905-3) ...
Selecting previously unselected package iputils-arping.
Preparing to unpack .../iputils-arping_3%3a20250605-1_amd64.deb ...
Unpacking iputils-arping (3:20250605-1) ...
Setting up iputils-arping (3:20250605-1) ...
Setting up iputils-ping (3:20250605-1) ...
Processing triggers for man-db (2.13.1-1) ...
Processing triggers for kali-menu (2025.2.7) ...
(kali㉿kali)-[~]
$ sudo arping -I eth0 -c 5 192.168.56.104
ARPING 192.168.56.104 from 10.0.3.15 eth0
Unicast reply from 192.168.56.104 [08:00:27:1E:A9:63] 1.566ms
Unicast reply from 192.168.56.104 [08:00:27:1E:A9:63] 1.731ms
Unicast reply from 192.168.56.104 [08:00:27:1E:A9:63] 2.202ms
Unicast reply from 192.168.56.104 [08:00:27:1E:A9:63] 2.204ms
Unicast reply from 192.168.56.104 [08:00:27:1E:A9:63] 2.267ms
Sent 5 probes (1 broadcast(s))
Received 5 response(s)
(kali㉿kali)-[~]
$
Screenshot taken
View image
Screenshot taken
View image
Right Ctrl

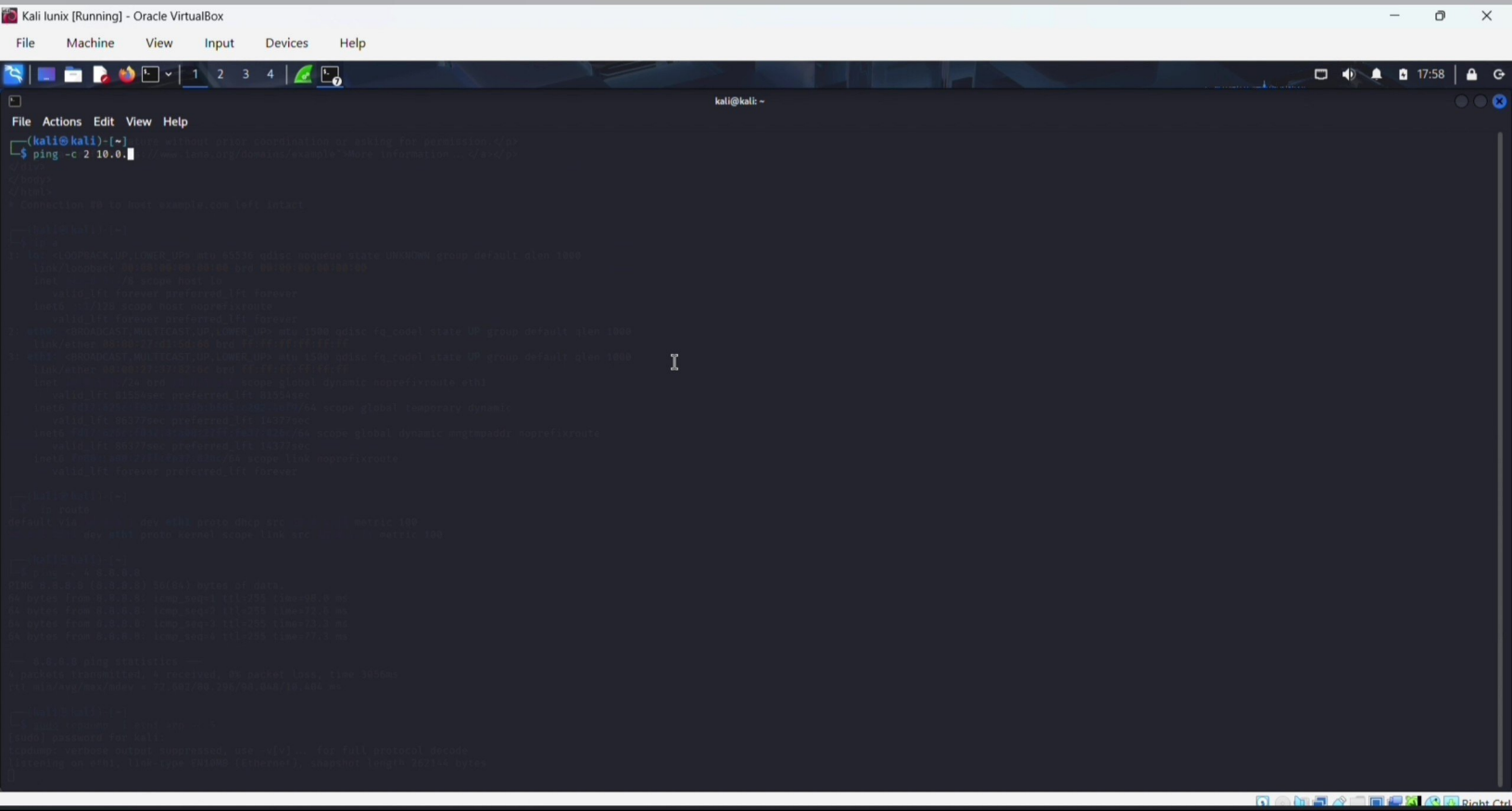

Kali lunix [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
11:33
kali@kali: ~
File Actions Edit View Help
(kali㉿kali)-[~]
$ ip a
Right Ctrl

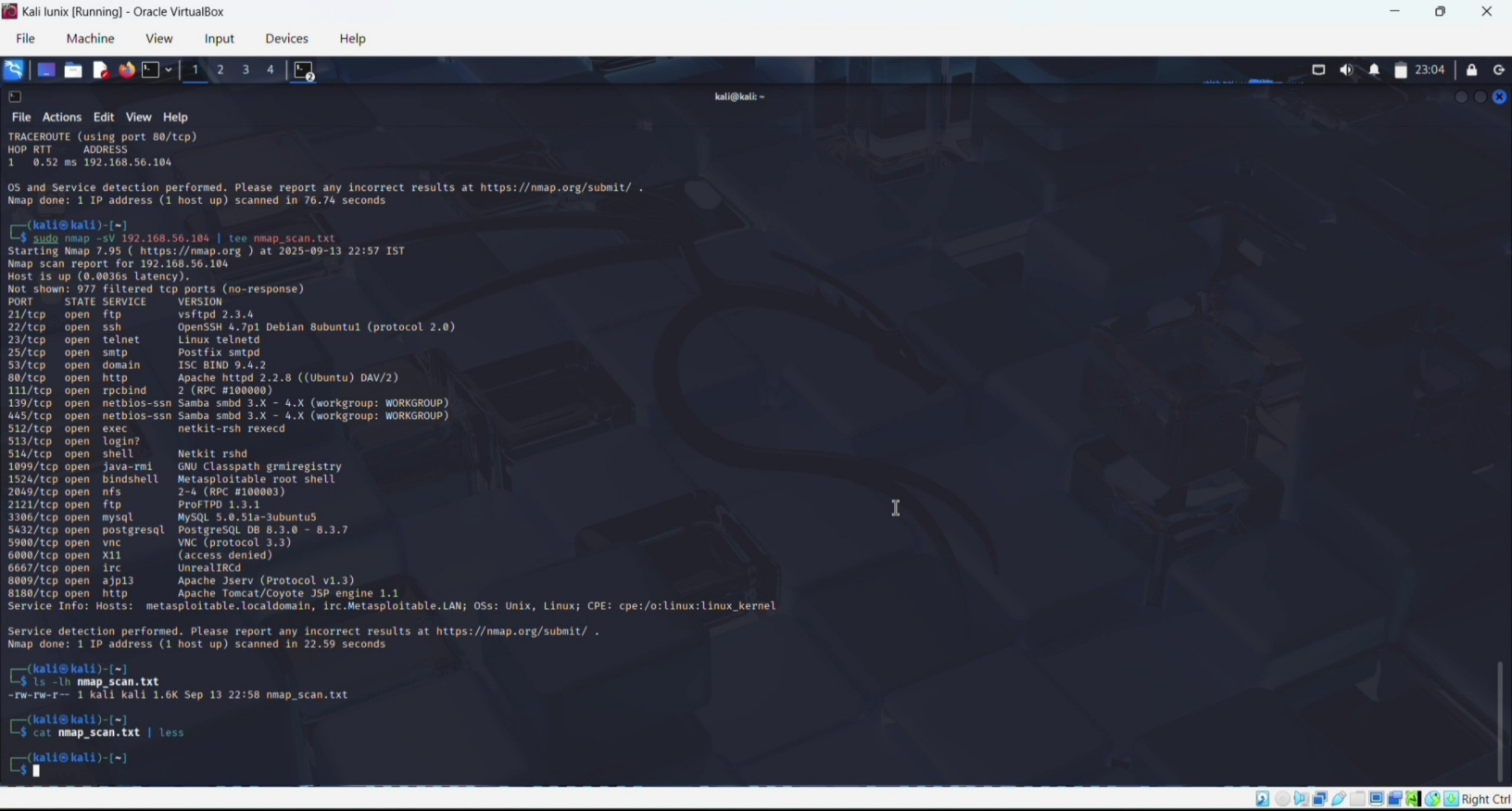

Kali lunix [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
20:35
kali@kali: ~
File Actions Edit View Help
└─$ ls -l myprivate.key
-rw------- 1 kali kali 1704 Sep 11 20:26 myprivate.key
┌──(kali㉿kali)-[~]
└─$ openssl req -new -key myprivate.key -out myrequest.csr
You are about to be asked to enter information that will be incorporated
into your certificate request.
What you are about to enter is what is called a Distinguished Name or a DN.
There are quite a few fields but you can leave some blank
For some fields there will be a default value,
If you enter '.', the field will be left blank.
Country Name (2 letter code) [AU]:ls -l myprivate.key
String too long, must be at most 2 bytes long
Country Name (2 letter code) [AU]:IN
State or Province Name (full name) [Some-State]:Uttar Pradesh
Locality Name (eg, city) []:Varanasi
Organization Name (eg, company) [Internet Widgits Pty Ltd]:Google
Organizational Unit Name (eg, section) []:A
Common Name (e.g. server FQDN or YOUR name) []:Kuwar Pratap Dubey
Email Address []:47ashutoshdubey@gmail.com
Please enter the following 'extra' attributes
to be sent with your certificate request
A challenge password []:kali
An optional company name []:IN
┌──(kali㉿kali)-[~]
└─$ openssl req -new -key myprivate.key -out myrequest.csr
You are about to be asked to enter information that will be incorporated
into your certificate request.
What you are about to enter is what is called a Distinguished Name or a DN.
There are quite a few fields but you can leave some blank
For some fields there will be a default value,
If you enter '.', the field will be left blank.
Country Name (2 letter code) [AU]:IN
State or Province Name (full name) [Some-State]:Delhi
Locality Name (eg, city) []:Dehi
Organization Name (eg, company) [Internet Widgits Pty Ltd]:Mylab
Organizational Unit Name (eg, section) []:
Common Name (e.g. server FQDN or YOUR name) []:kali
Email Address []:
Please enter the following 'extra' attributes
to be sent with your certificate request
A challenge password []:kali
An optional company name []:kali
┌──(kali㉿kali)-[~]
└─$ openssl x509 -req -days 365
Right Ctrl

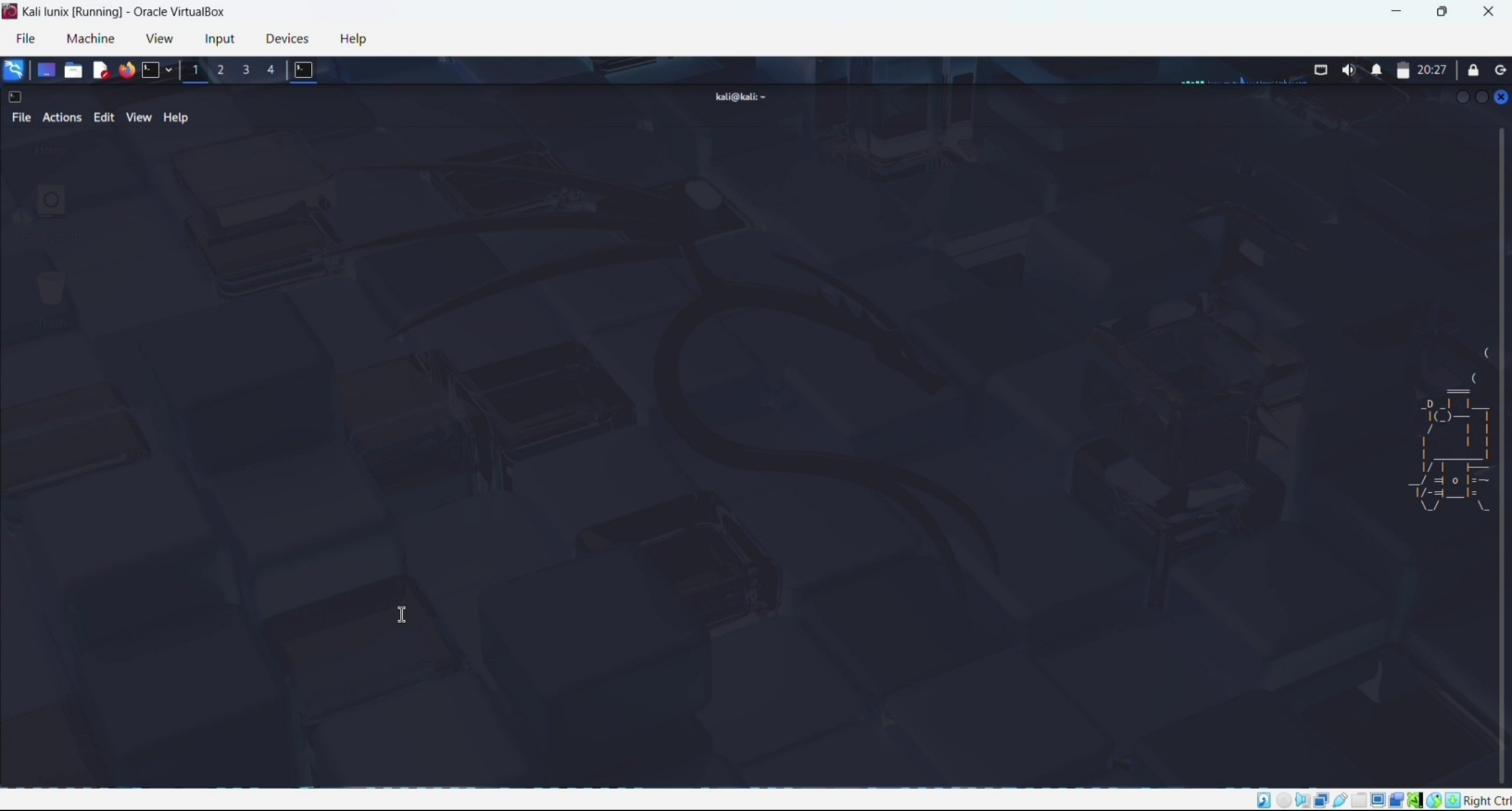

Kali lunix [Running] - Oracle VirtualBox
File
Machine
View
Input
Devices
Help
1
2
3
4
11:33
Home
File System
Trash
Right Ctrl

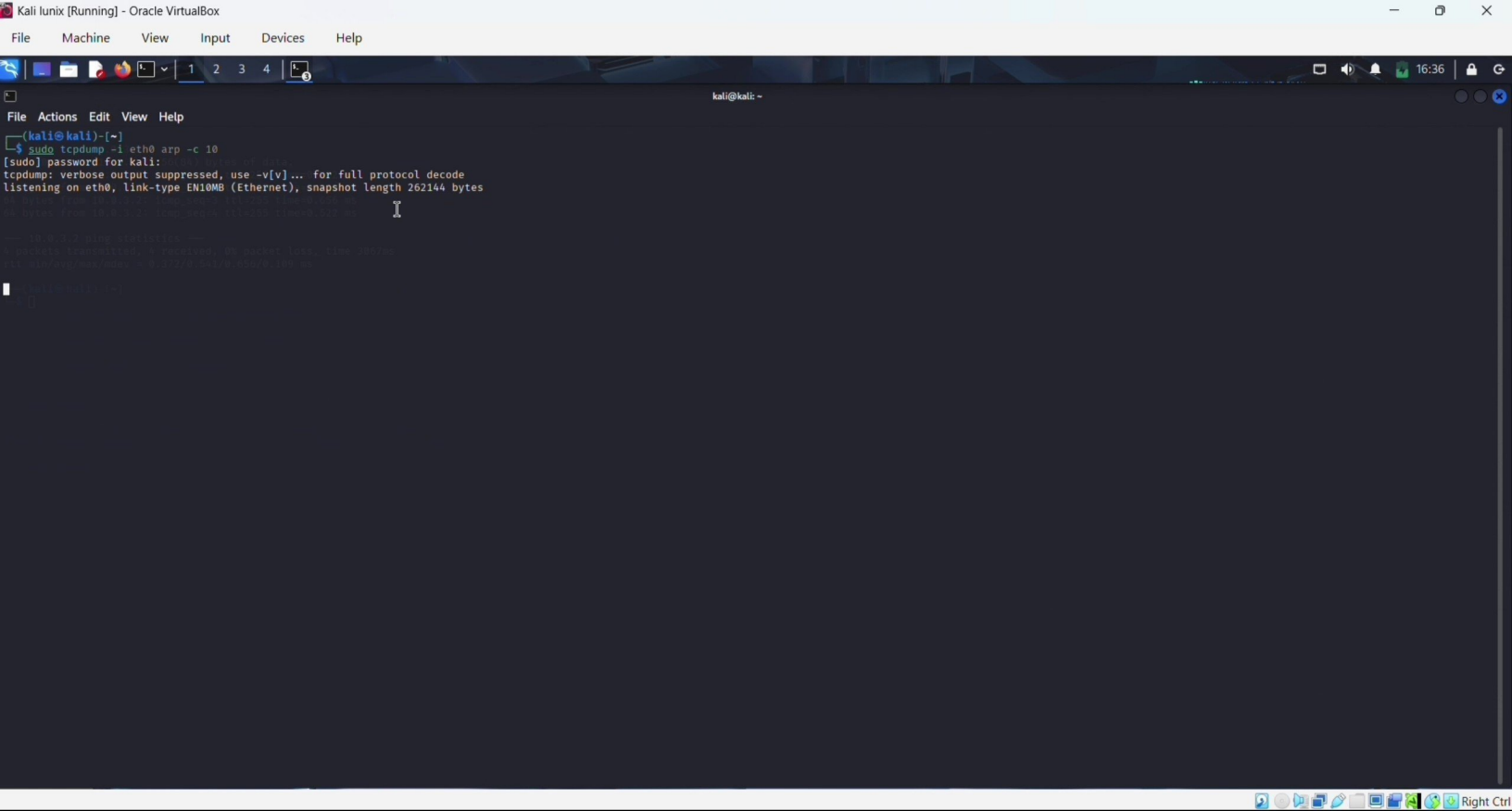

Kali lunix [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
21:40
kali@kali: ~
File Actions Edit View Help
[--time-stamp-precision precision] [--micro] [--nano]
[-z postrotate-command] [-Z user] [expression]
(kali㉿kali)-[~]
$
(kali㉿kali)-[~]
$
(kali㉿kali)-[~]
$
(kali㉿kali)-[~]
$ ps -ef | grep tcpdump
kali 14074 1696 0 21:36 pts/0 00:00:00 grep --color=auto tcpdump
(kali㉿kali)-[~]
$ sudo tcpdump -i eth0 -n \ -w ~/step6_arp_icmp.pcmp \ 'arp or icmp' -c 100
[sudo] password for kali:
tcpdump: invalid option -- '/'
tcpdump version 4.99.5
libpcap version 1.10.5 (with TPACKET_V3)
OpenSSL 3.5.0 8 Apr 2025
64-bit build, 64-bit time_t
Usage: tcpdump [-AbdDefhHIJKlLnNOpqStuUvxX#] [-B size] [-c count] [--count]
[-C file_size] [-E algo:secret] [-F file] [-G seconds]
[-i interface] [--immediate-mode] [-j tstamptype]
[-M secret] [--number] [--print] [-Q in|out|inout]
[-r file] [-s snaplen] [-T type] [--version]
[-V file] [-w file] [-W filecount] [-y datalinktype]
[--time-stamp-precision precision] [--micro] [--nano]
[-z postrotate-command] [-Z user] [expression]
(kali㉿kali)-[~]
$
(kali㉿kali)-[~]
$
(kali㉿kali)-[~]
$
(kali㉿kali)-[~]
$
(kali㉿kali)-[~]
$ ls -lh ~/step6_arp-icmp.pcap
ls: cannot access '/home/kali/step6_arp-icmp.pcap': No such file or directory
(kali㉿kali)-[~]
$
Right Ctrl


Kali lunix [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
20:22
kali@kali: ~
CPU usage: 0.7%
File Actions Edit View Help
Removing metasploit-framework (6.4.64-0kali1) ...
Removing nmap (7.95+dfsg-3kali1) ...
Processing triggers for desktop-file-utils (0.28-1) ...
Processing triggers for hicolor-icon-theme (0.18-2) ...
Processing triggers for man-db (2.13.1-1) ...
Processing triggers for wordlists (2023.2.0) ...
Processing triggers for kali-menu (2025.2.7) ...
(kali㉿kali)-[~]
$ sudo apt purge nmap -y
Package 'nmap' is not installed, so not removed
The following packages were automatically installed and are no longer required:
binutils-mingw-w64-i686 gcc-mingw-w64-i686-win32-runtime libkdb5-10t64 mingw-w64-x86-64-dev python3-aiowinreg python3-llvmlite python3-oscrypto python3-qasync smtp-user-enum
binutils-mingw-w64-x86-64 gcc-mingw-w64-x86-64-win32 libkrb5-dev ndiff python3-arc4 python3-lsassy python3-pandas python3-qrcode sparta-scripts
bloodhound.py gcc-mingw-w64-x86-64-win32-runtime liblinear4 nmap-common python3-asciitree python3-masky python3-pandas-lib python3-serial-asyncio sphinx-rtd-theme-common
comerr-dev imagemagick libluajit-5.1-2 numba-doc python3-asn1tools python3-minidump python3-pefile python3-smmap toilet-fonts
dnsmap imagemagick-7.q16 libluajit-5.1-common oracle-instantclient-basic python3-asyauth python3-minikerberos python3-pyexploitdb python3-tables unicornscan
dsniff krb5-multidev libnids1.21t64 python-odf-doc python3-asysocks python3-msldap python3-pyfiglet python3-tables-lib urlscan
ettercap-common libaio1t64 libtbb12 python-odf-tools python3-bitstruct python3-neo4j python3-pylnk3 python3-tld wapiti
ettercap-graphical libapache2-mod-php libtbbbind-2-5 python-tables-data python3-bottleneck python3-neobolt python3-pynfsclient python3-unicrypto
figlet libblosc2-4 libtbbmalloc2 python3-aardwolf python3-cpuinfo python3-neotime python3-pypsrp python3-winacl
finger libgssrpc4t64 medusa python3-aesedb python3-dploot python3-numba python3-pypykatz python3-xmltodict
gcc-mingw-w64-base libkadm5clnt-mit12 mingw-w64-common python3-aiocmd python3-git python3-numexpr python3-pyshodan python3-yaswfp
gcc-mingw-w64-i686-win32 libkadm5srv-mit12 mingw-w64-i686-dev python3-aiosmb python3-gitdb python3-odf python3-pyspnego rsh-redone-client
Use 'sudo apt autoremove' to remove them.
Summary:
Upgrading: 0, Installing: 0, Removing: 0, Not Upgrading: 0
(kali㉿kali)-[~]
$ sudo apt --fix-broken install
The following packages were automatically installed and are no longer required:
binutils-mingw-w64-i686 gcc-mingw-w64-i686-win32-runtime libkdb5-10t64 mingw-w64-x86-64-dev python3-aiowinreg python3-llvmlite python3-oscrypto python3-qasync smtp-user-enum
binutils-mingw-w64-x86-64 gcc-mingw-w64-x86-64-win32 libkrb5-dev ndiff python3-arc4 python3-lsassy python3-pandas python3-qrcode sparta-scripts
bloodhound.py gcc-mingw-w64-x86-64-win32-runtime liblinear4 nmap-common python3-asciitree python3-masky python3-pandas-lib python3-serial-asyncio sphinx-rtd-theme-common
comerr-dev imagemagick libluajit-5.1-2 numba-doc python3-asn1tools python3-minidump python3-pefile python3-smmap toilet-fonts
dnsmap imagemagick-7.q16 libluajit-5.1-common oracle-instantclient-basic python3-asyauth python3-minikerberos python3-pyexploitdb python3-tables unicornscan
dsniff krb5-multidev libnids1.21t64 python-odf-doc python3-asysocks python3-msldap python3-pyfiglet python3-tables-lib urlscan
ettercap-common libaio1t64 libtbb12 python-odf-tools python3-bitstruct python3-neo4j python3-pylnk3 python3-tld wapiti
ettercap-graphical libapache2-mod-php libtbbbind-2-5 python-tables-data python3-bottleneck python3-neobolt python3-pynfsclient python3-unicrypto
figlet libblosc2-4 libtbbmalloc2 python3-aardwolf python3-cpuinfo python3-neotime python3-pypsrp python3-winacl
finger libgssrpc4t64 medusa python3-aesedb python3-dploot python3-numba python3-pypykatz python3-xmltodict
gcc-mingw-w64-base libkadm5clnt-mit12 mingw-w64-common python3-aiocmd python3-git python3-numexpr python3-pyshodan python3-yaswfp
gcc-mingw-w64-i686-win32 libkadm5srv-mit12 mingw-w64-i686-dev python3-aiosmb python3-gitdb python3-odf python3-pyspnego rsh-redone-client
Use 'sudo apt autoremove' to remove them.
Summary:
Upgrading: 0, Installing: 0, Removing: 0, Not Upgrading: 0
(kali㉿kali)-[~]
$
Right Ctrl


Kali lunix [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
17:58
kali@kali: ~
File Actions Edit View Help
(kali㉿kali)-[~]
$ ping -c 2 10.0.

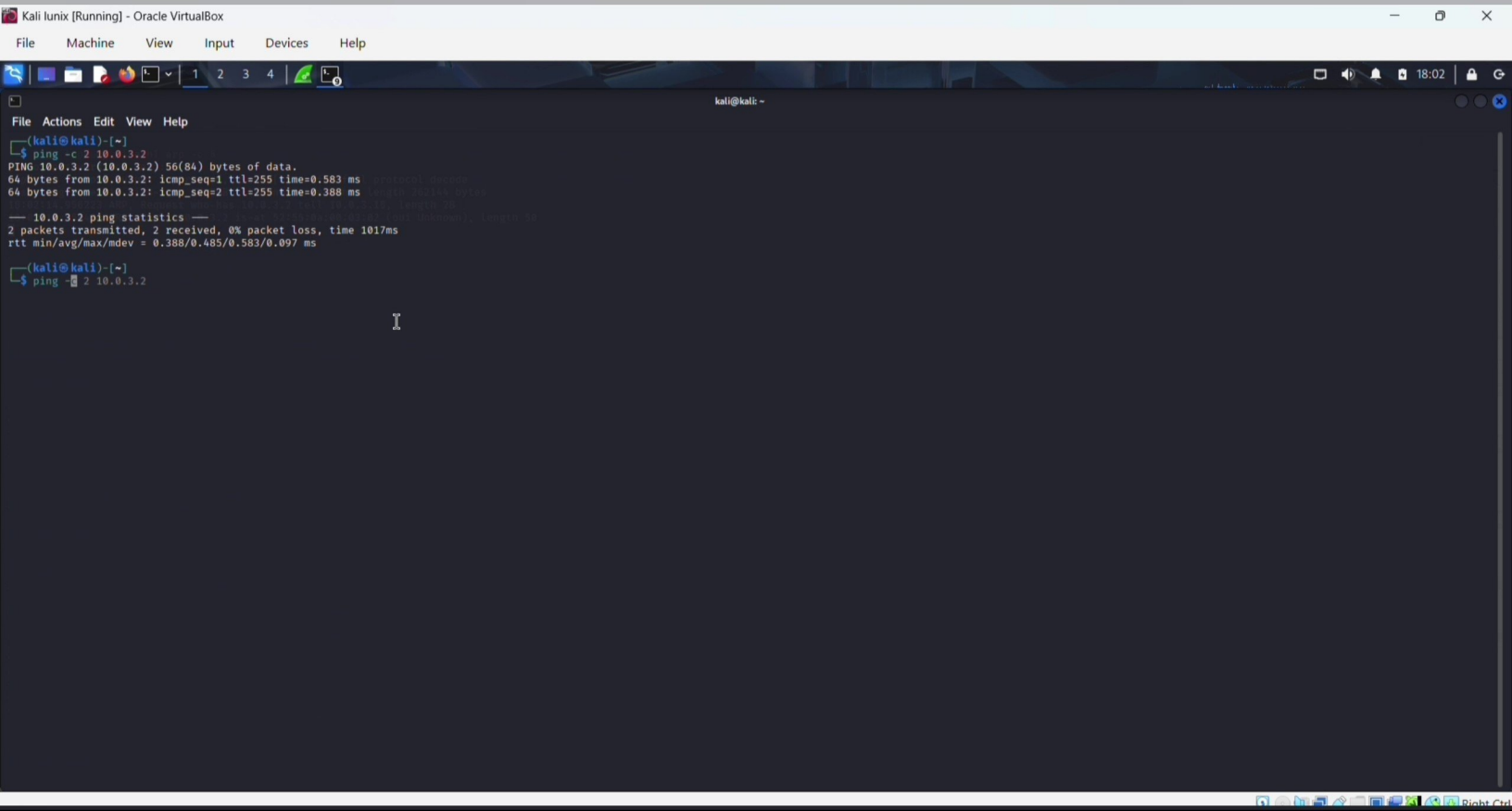

Kali lunix [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
23:04
kali@kali: ~
File Actions Edit View Help
TRACEROUTE (using port 80/tcp)
HOP RTT ADDRESS
1 0.52 ms 192.168.56.104
OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 76.74 seconds
(kali㉿kali)-[~]
$ sudo nmap -sV 192.168.56.104 | tee nmap_scan.txt
Starting Nmap 7.95 (https://nmap.org) at 2025-09-13 22:57 IST
Nmap scan report for 192.168.56.104
Host is up (0.0036s latency).
Not shown: 977 filtered tcp ports (no-response)
PORT STATE SERVICE VERSION
21/tcp open ftp vsftpd 2.3.4
22/tcp open ssh OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
23/tcp open telnet Linux telnetd
25/tcp open smtp Postfix smtpd
53/tcp open domain ISC BIND 9.4.2
80/tcp open http Apache httpd 2.2.8 ((Ubuntu) DAV/2)
111/tcp open rpcbind 2 (RPC #100000)
139/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
445/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
512/tcp open exec netkit-rsh rexecd
513/tcp open login?
514/tcp open shell Netkit rshd
1099/tcp open java-rmi GNU Classpath grmiregistry
1524/tcp open bindshell Metasploitable root shell
2049/tcp open nfs 2-4 (RPC #100003)
2121/tcp open ftp ProFTPD 1.3.1
3306/tcp open mysql MySQL 5.0.51a-3ubuntu5
5432/tcp open postgresql PostgreSQL DB 8.3.0 - 8.3.7
5900/tcp open vnc VNC (protocol 3.3)
6000/tcp open X11 (access denied)
6667/tcp open irc UnrealIRCd
8009/tcp open ajp13 Apache Jserv (Protocol v1.3)
8180/tcp open http Apache Tomcat/Coyote JSP engine 1.1
Service Info: Hosts: metasploitable.localdomain, irc.Metasploitable.LAN; OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 22.59 seconds
(kali㉿kali)-[~]
$ ls -lh nmap_scan.txt
-rw-rw-r-- 1 kali kali 1.6K Sep 13 22:58 nmap_scan.txt
(kali㉿kali)-[~]
$ cat nmap_scan.txt | less
(kali㉿kali)-[~]
$
Right Ctrl

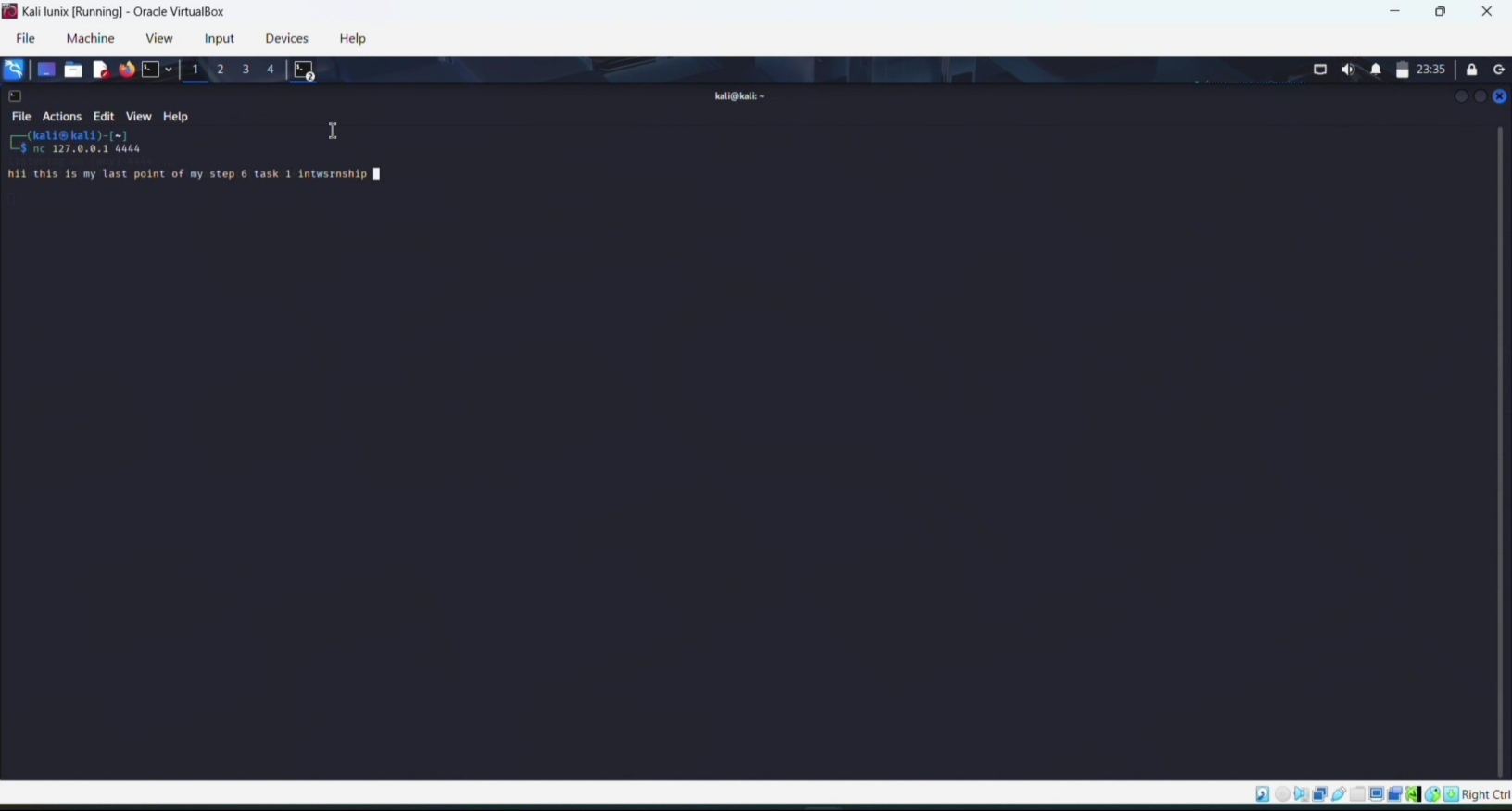

Kali lunix [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
20:27
kali@kali: ~
File Actions Edit View Help
Right Ctrl

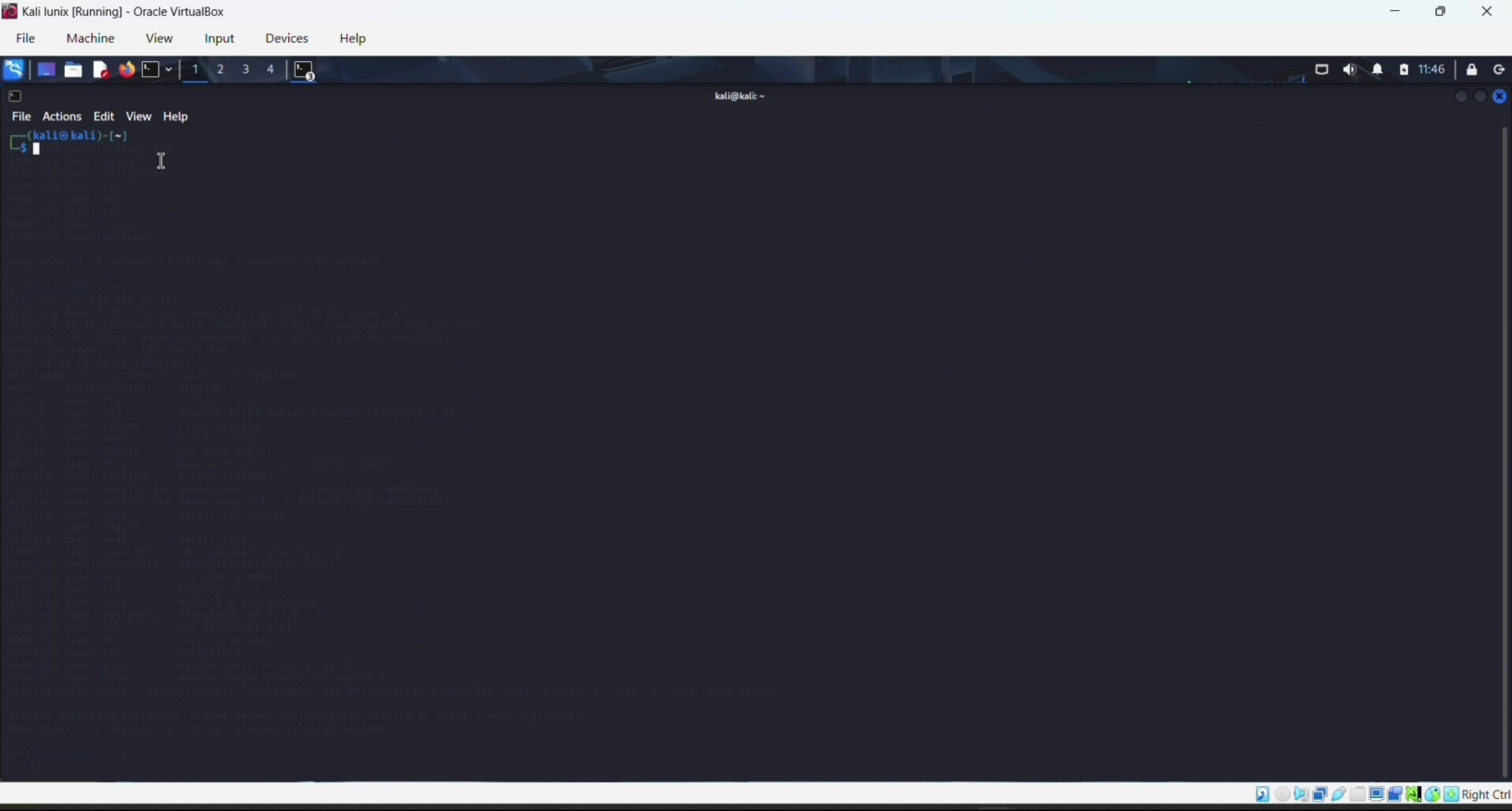

Kali lunix [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
16:36
kali@kali: ~
File Actions Edit View Help
(kali㉿kali)-[~]
$ sudo tcpdump -i eth0 arp -c 10
[sudo] password for kali:
tcpdump: verbose output suppressed, use -v[v]... for full protocol decode
listening on eth0, link-type EN10MB (Ethernet), snapshot length 262144 bytes
Right Ctrl

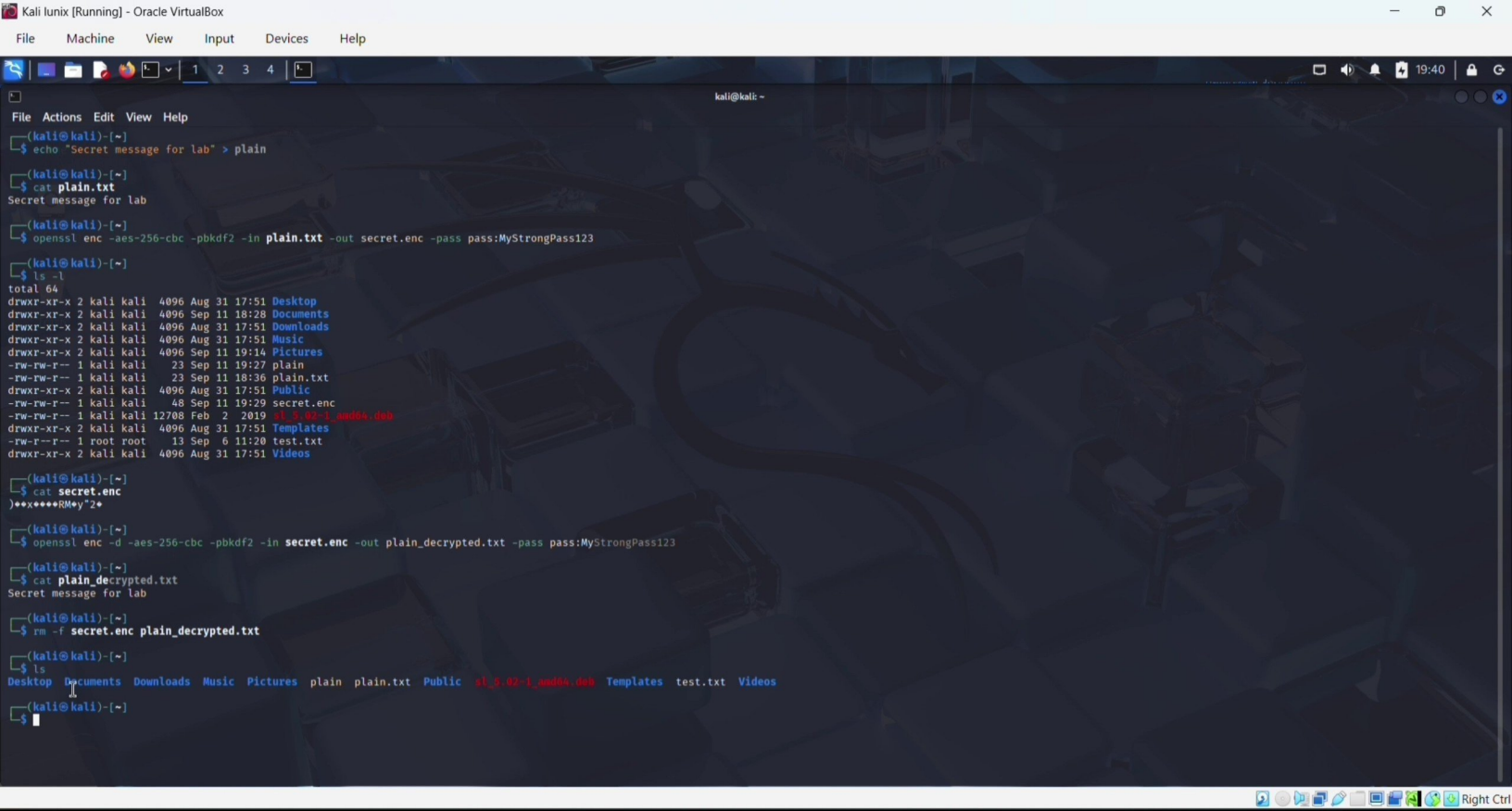
```
|_  Salt: 4;j6zW%PEFo{Am#aBg_&
5432/tcp open  postgresql  PostgreSQL DB 8.3.0 - 8.3.7
| ssl-cert: Subject: commonName=ubuntu804-base.localdomain/organizationName=OCOSA/stateOrProvinceName=There is no such thing outside US/countryName=XX
| Not valid before: 2010-03-17T14:07:45
|_Not valid after:  2010-04-16T14:07:45
|_ssl-date: 2025-09-13T17:25:38+00:00; -1s from scanner time.
5900/tcp open  vnc         VNC (protocol 3.3)
| vnc-info:
|   Protocol version: 3.3
|   Security types:
|_    VNC Authentication (2)
6000/tcp open  X11         (access denied)
6667/tcp open  irc         UnrealIRCd
8009/tcp open  ajp13       Apache Jserv (Protocol v1.3)
|_ajp-methods: Failed to get a valid response for the OPTION request
8180/tcp open  http        Apache Tomcat/Coyote JSP engine 1.1
|_http-favicon: Apache Tomcat
|_http-title: Apache Tomcat/5.5
|_http-server-header: Apache-Coyote/1.1
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
Device type: bridge|VoIP adapter|general purpose
Running (JUST GUESSING): Oracle Virtualbox (98%), Slirp (98%), AT&T embedded (95%), QEMU (94%)
OS CPE: cpe:/o:oracle:virtualbox cpe:/a:danny_gasparovski:slirp cpe:/a:qemu:qemu
Aggressive OS guesses: Oracle Virtualbox Slirp NAT bridge (98%), AT&T BGW210 voice gateway (95%), QEMU user mode network gateway (94%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 1 hop
Service Info: Hosts:  metasploitable.localdomain, irc.Metasploitable.LAN; OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel

Host script results:
| smb-os-discovery:
|   OS: Unix (Samba 3.0.20-Debian)
|   Computer name: metasploitable
|   NetBIOS computer name:
|   Domain name: localdomain
|   FQDN: metasploitable.localdomain
|_  System time: 2025-09-13T13:25:24-04:00
| smb-security-mode:
|   account_used: <blank>
|   authentication_level: user
|   challenge_response: supported
|_  message_signing: disabled (dangerous, but default)
|_smb2-time: Protocol negotiation failed (SMB2)
|_clock-skew: mean: 59m58s, deviation: 2h00m00s, median: -1s
|_nbstat: NetBIOS name: METASPLOITABLE, NetBIOS user: <unknown>, NetBIOS MAC: <unknown> (unknown)

TRACEROUTE (using port 80/tcp)
HOP RTT     ADDRESS
1   0.52 ms 192.168.56.104

OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 76.74 seconds
```

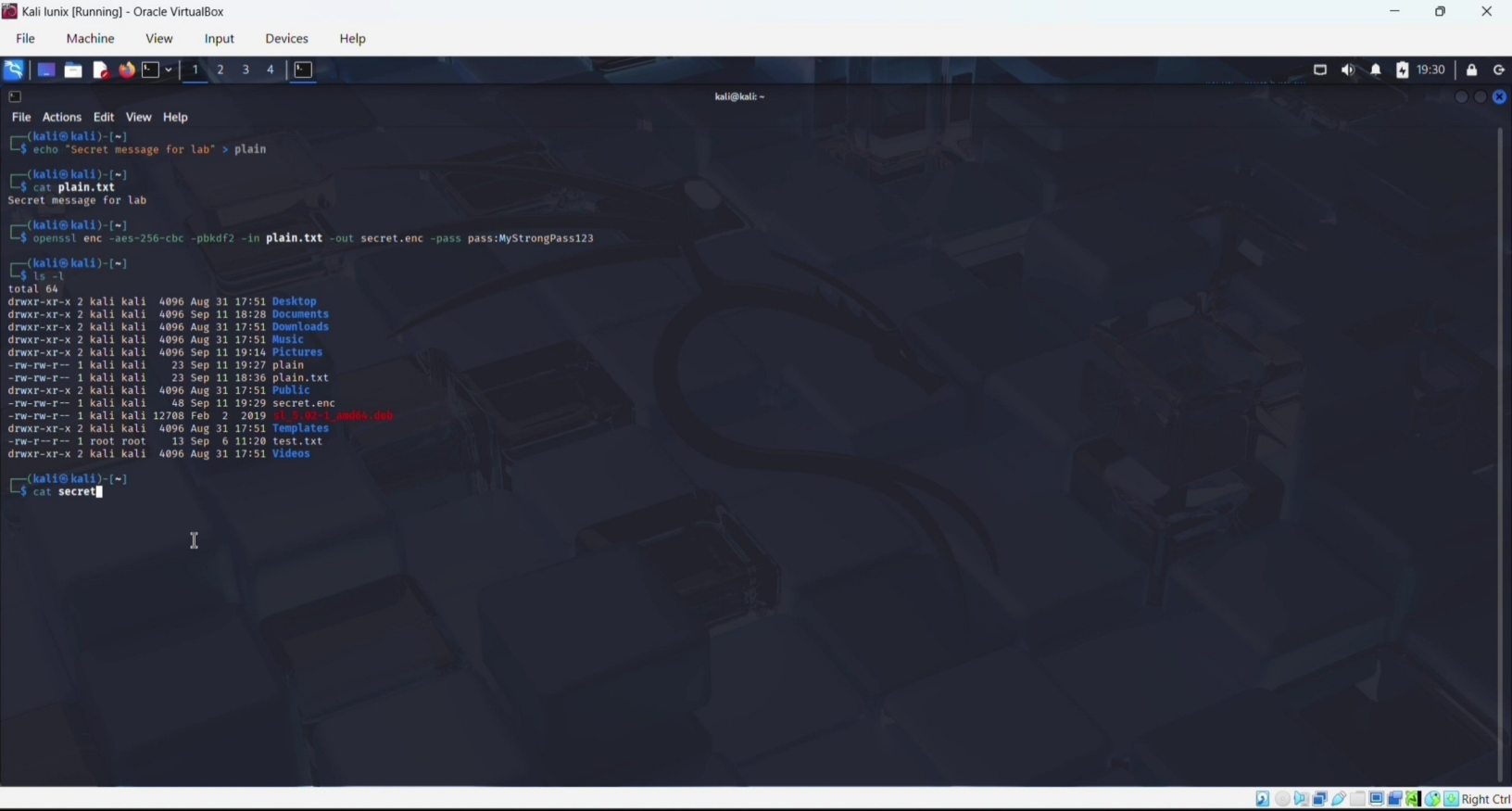

Kali lunix [Running] - Oracle VirtualBox
File
Machine
View
Input
Devices
Help
1
2
3
4
23:33
Home
File System
Trash
Right Ctrl

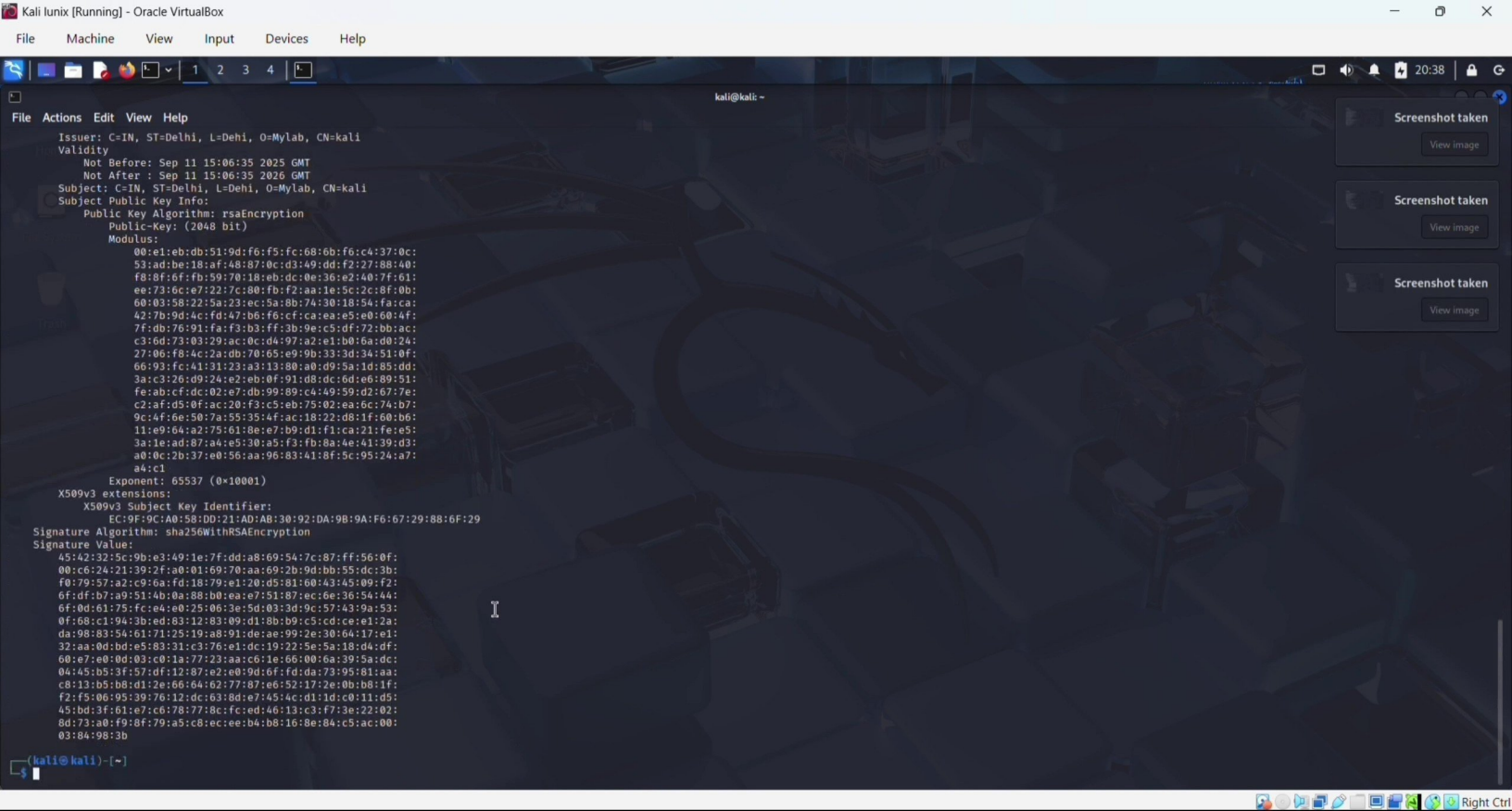

Kali lunix [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
18:02
kali@kali: ~
File Actions Edit View Help
┌──(kali㉿kali)-[~]
└─$ ping -c 2 10.0.3.2
PING 10.0.3.2 (10.0.3.2) 56(84) bytes of data.
64 bytes from 10.0.3.2: icmp_seq=1 ttl=255 time=0.583 ms
64 bytes from 10.0.3.2: icmp_seq=2 ttl=255 time=0.388 ms
— 10.0.3.2 ping statistics —
2 packets transmitted, 2 received, 0% packet loss, time 1017ms
rtt min/avg/max/mdev = 0.388/0.485/0.583/0.097 ms
┌──(kali㉿kali)-[~]
└─$ ping -c 2 10.0.3.2

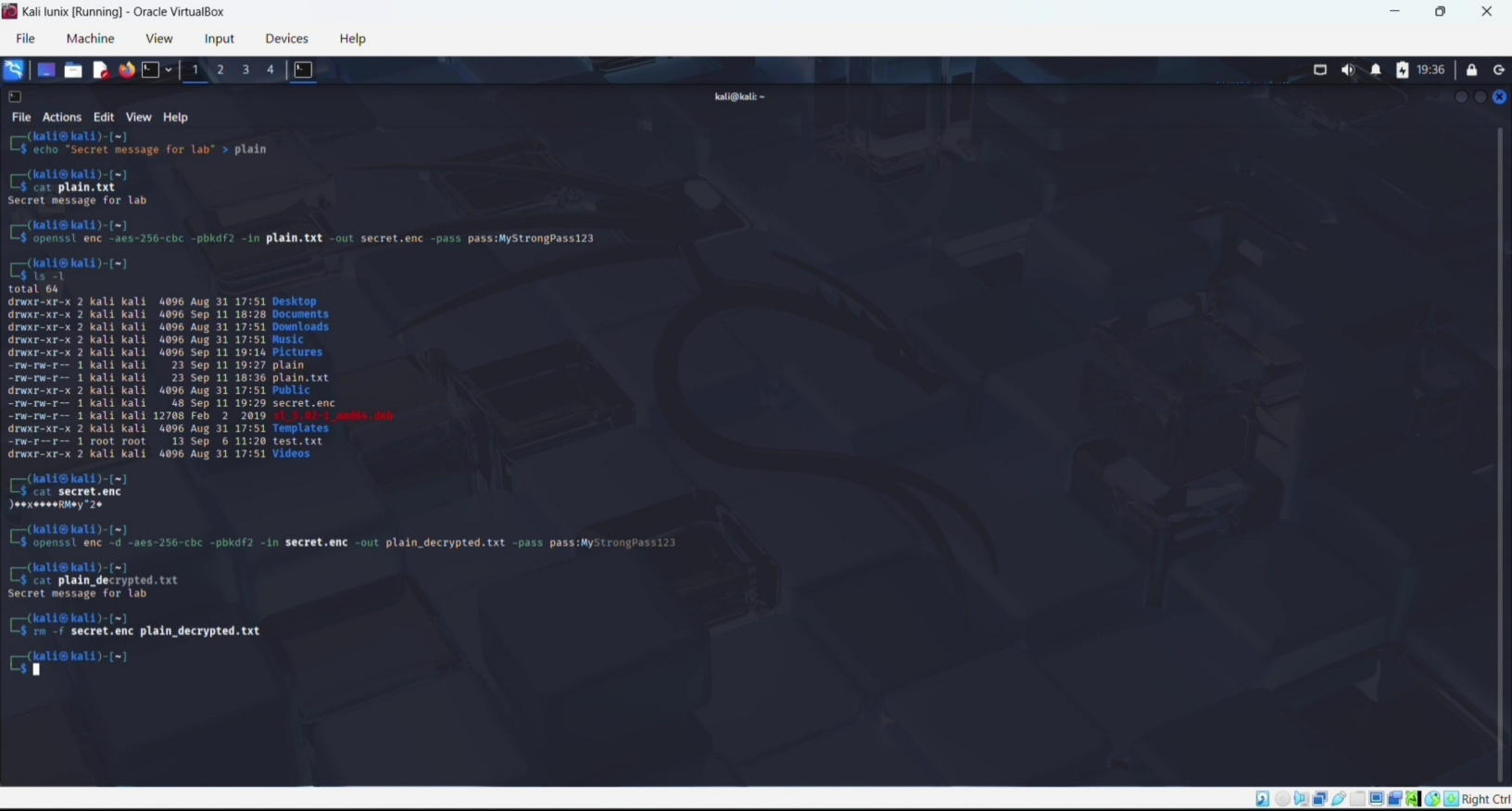

Kali lunix [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
23:35
kali@kali: ~
File Actions Edit View Help
(kali㉿kali)-[~]
$ nc 127.0.0.1 4444
hii this is my last point of my step 6 task 1 intwsrnship
Right Ctrl

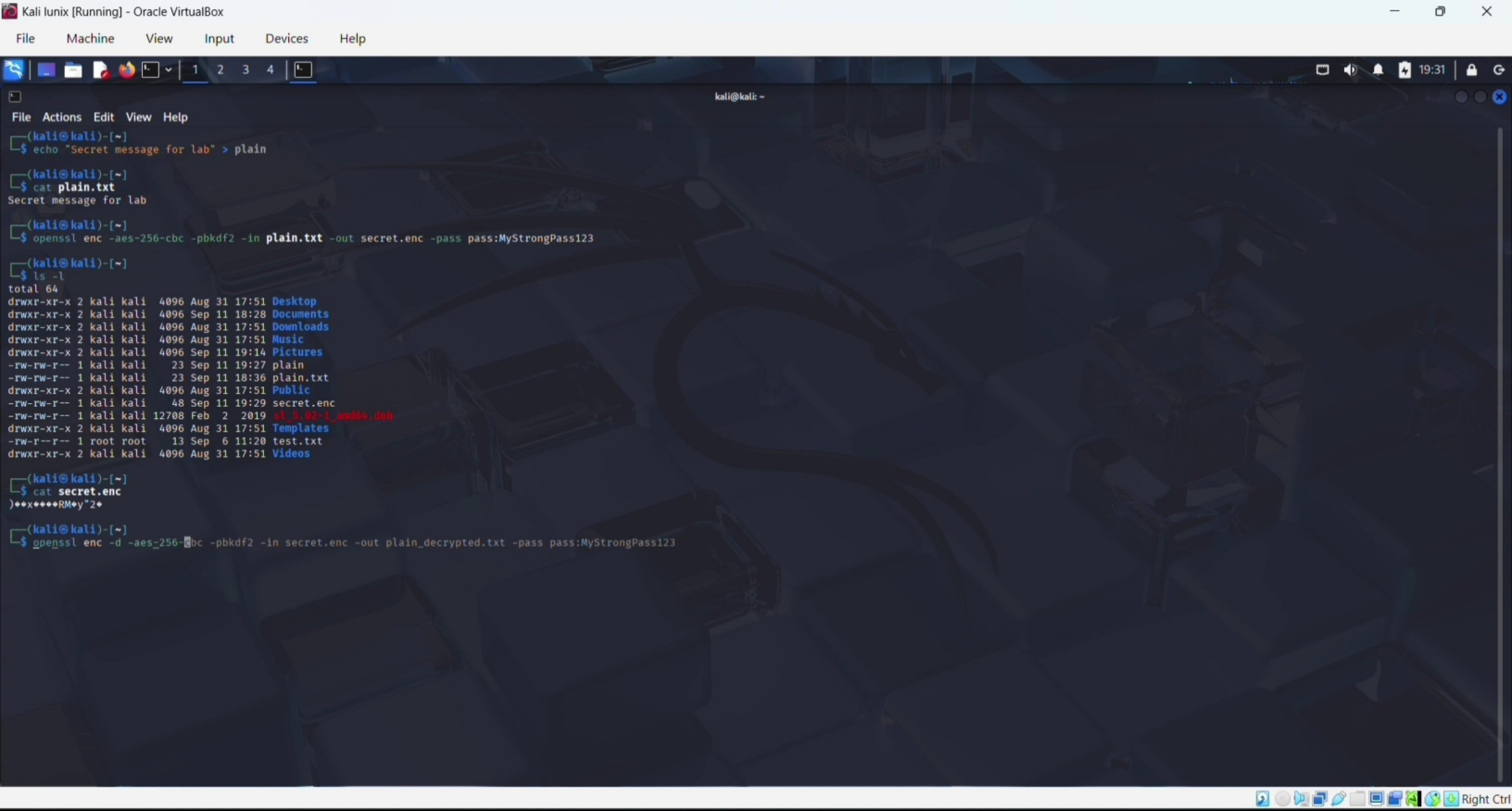

Kali lunix [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
11:46
kali@kali: ~
File Actions Edit View Help
(kali㉿kali)-[~]
$
Right Ctrl

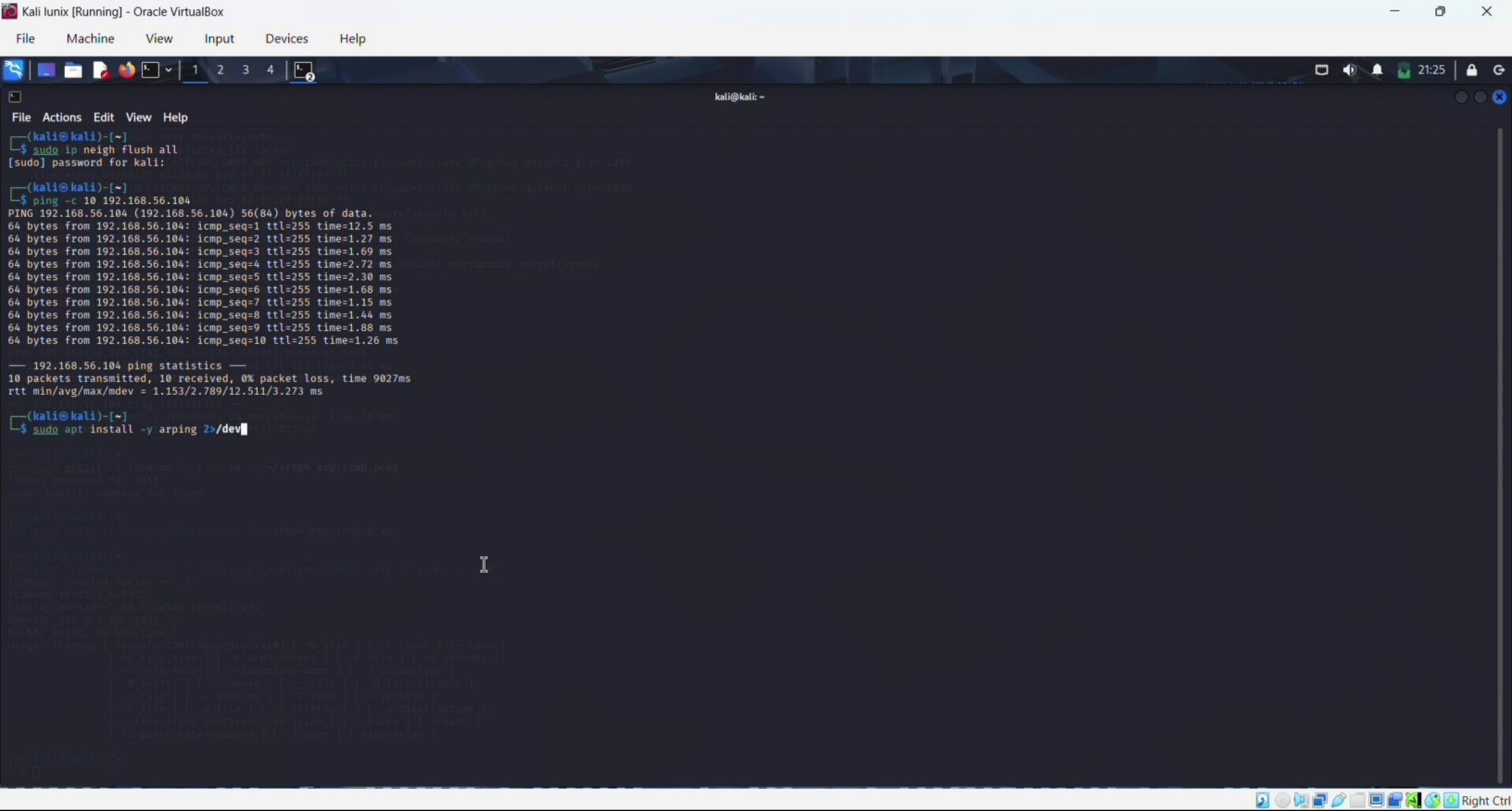

Kali lunix [Running] - Oracle VirtualBox
File Machine View Input Devices Help
kali@kali: ~
File Actions Edit View Help
(kali㉿kali)-[~]
$ echo "Secret message for lab" > plain
(kali㉿kali)-[~]
$ cat plain.txt
Secret message for lab
(kali㉿kali)-[~]
$ openssl enc -aes-256-cbc -pbkdf2 -in plain.txt -out secret.enc -pass pass:MyStrongPass123
(kali㉿kali)-[~]
$ ls -l
total 64
drwxr-xr-x 2 kali kali 4096 Aug 31 17:51 Desktop
drwxr-xr-x 2 kali kali 4096 Sep 11 18:28 Documents
drwxr-xr-x 2 kali kali 4096 Aug 31 17:51 Downloads
drwxr-xr-x 2 kali kali 4096 Aug 31 17:51 Music
drwxr-xr-x 2 kali kali 4096 Sep 11 19:14 Pictures
-rw-rw-r-- 1 kali kali 23 Sep 11 19:27 plain
-rw-rw-r-- 1 kali kali 23 Sep 11 18:36 plain.txt
drwxr-xr-x 2 kali kali 4096 Aug 31 17:51 Public
-rw-rw-r-- 1 kali kali 48 Sep 11 19:29 secret.enc
-rw-rw-r-- 1 kali kali 12708 Feb 2 2019 sl_5.02-1_amd64.deb
drwxr-xr-x 2 kali kali 4096 Aug 31 17:51 Templates
-rw-r--r-- 1 root root 13 Sep 6 11:20 test.txt
drwxr-xr-x 2 kali kali 4096 Aug 31 17:51 Videos
(kali㉿kali)-[~]
$ cat secret.enc
)**x****RM*y"2*
(kali㉿kali)-[~]
$ openssl enc -d -aes-256-cbc -pbkdf2 -in secret.enc -out plain_decrypted.txt -pass pass:MyStrongPass123
(kali㉿kali)-[~]
$ cat plain_decrypted.txt
Secret message for lab
(kali㉿kali)-[~]
$ rm -f secret.enc plain_decrypted.txt
(kali㉿kali)-[~]
$ ls
Desktop Documents Downloads Music Pictures plain plain.txt Public sl_5.02-1_amd64.deb Templates test.txt Videos
(kali㉿kali)-[~]
$
Right Ctrl

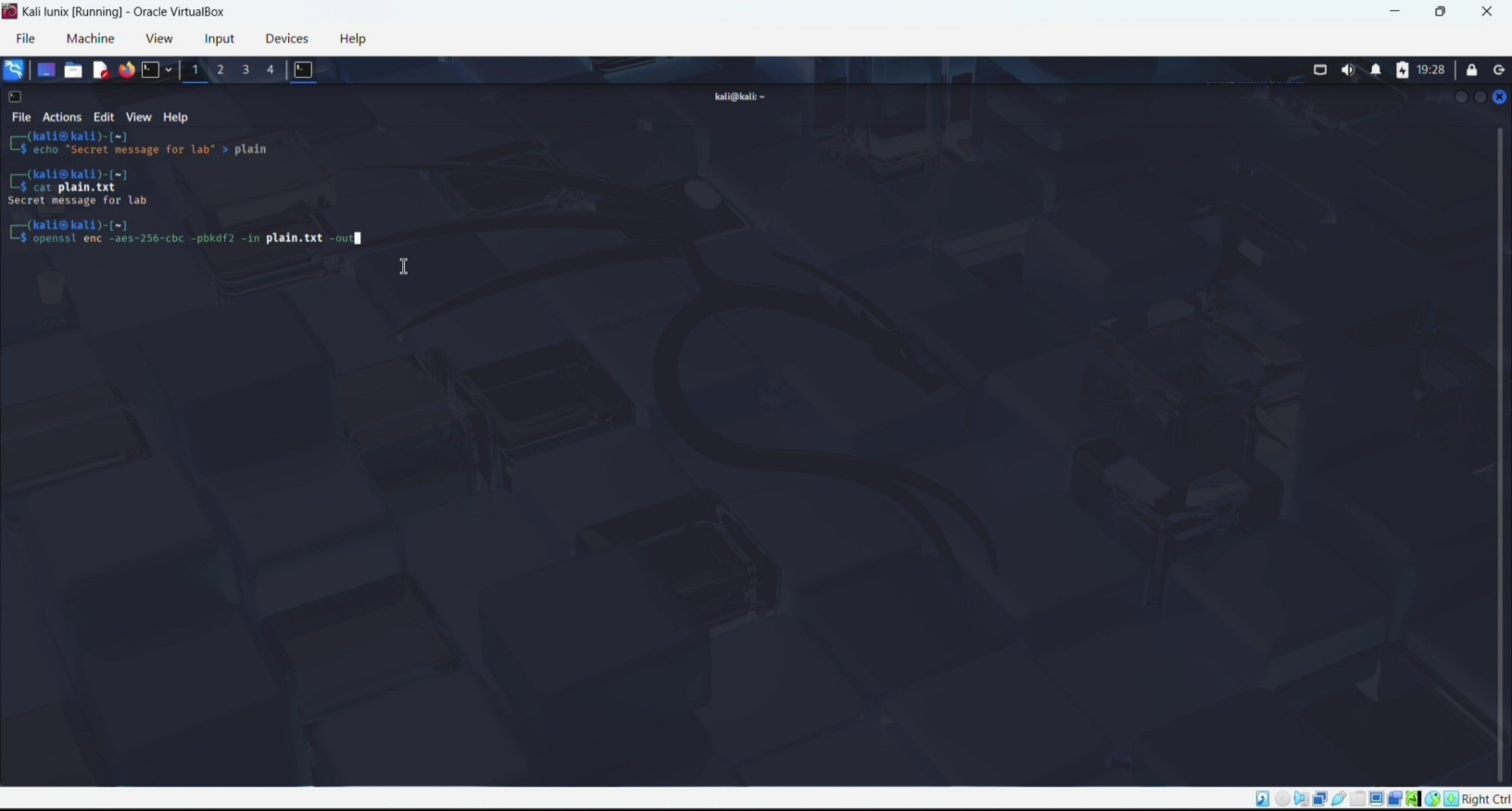

Kali lunix [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
19:30
kali@kali: ~
File Actions Edit View Help
(kali㉿kali)-[~]
$ echo "Secret message for lab" > plain
(kali㉿kali)-[~]
$ cat plain.txt
Secret message for lab
(kali㉿kali)-[~]
$ openssl enc -aes-256-cbc -pbkdf2 -in plain.txt -out secret.enc -pass pass:MyStrongPass123
(kali㉿kali)-[~]
$ ls -l
total 64
drwxr-xr-x 2 kali kali 4096 Aug 31 17:51 Desktop
drwxr-xr-x 2 kali kali 4096 Sep 11 18:28 Documents
drwxr-xr-x 2 kali kali 4096 Aug 31 17:51 Downloads
drwxr-xr-x 2 kali kali 4096 Aug 31 17:51 Music
drwxr-xr-x 2 kali kali 4096 Sep 11 19:14 Pictures
-rw-rw-r-- 1 kali kali 23 Sep 11 19:27 plain
-rw-rw-r-- 1 kali kali 23 Sep 11 18:36 plain.txt
drwxr-xr-x 2 kali kali 4096 Aug 31 17:51 Public
-rw-rw-r-- 1 kali kali 48 Sep 11 19:29 secret.enc
-rw-rw-r-- 1 kali kali 12708 Feb 2 2019 x11-5.43-1_aad64.deb
drwxr-xr-x 2 kali kali 4096 Aug 31 17:51 Templates
-rw-r--r-- 1 root root 13 Sep 6 11:20 test.txt
drwxr-xr-x 2 kali kali 4096 Aug 31 17:51 Videos
(kali㉿kali)-[~]
$ cat secret
Right Ctrl

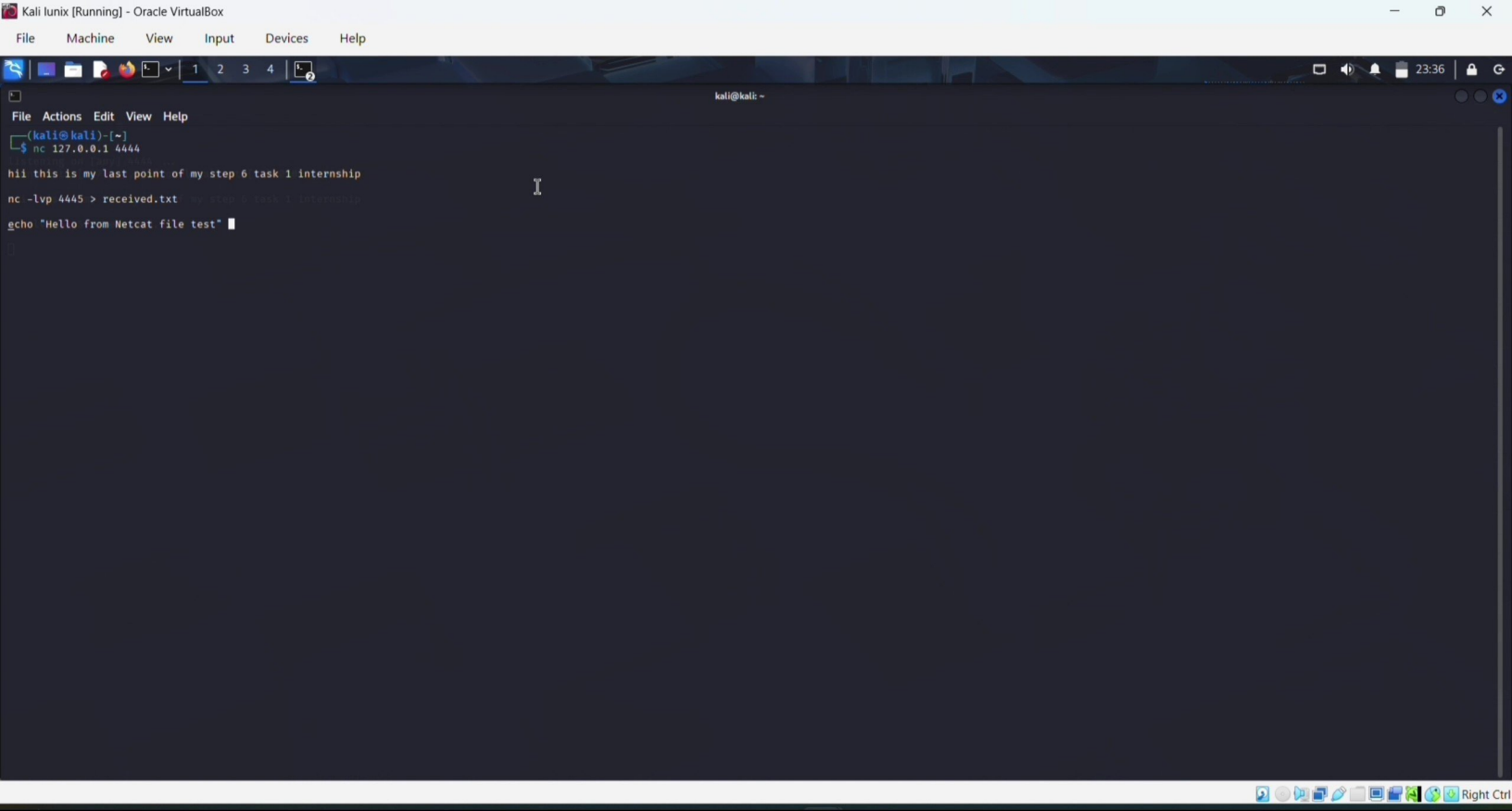

Kali lunix [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
20:38
kali@kali: ~
File Actions Edit View Help
Issuer: C=IN, ST=Delhi, L=Dehi, O=Mylab, CN=kali
Validity
Not Before: Sep 11 15:06:35 2025 GMT
Not After : Sep 11 15:06:35 2026 GMT
Subject: C=IN, ST=Delhi, L=Dehi, O=Mylab, CN=kali
Subject Public Key Info:
Public Key Algorithm: rsaEncryption
Public-Key: (2048 bit)
Modulus:
00:e1:eb:db:51:9d:f6:f5:fc:68:6b:f6:c4:37:0c:
53:ad:be:18:af:48:87:0c:d3:49:dd:f2:27:88:40:
f8:8f:6f:fb:59:70:18:eb:dc:0e:36:e2:40:7f:61:
ee:73:6c:e7:22:7c:80:fb:f2:aa:1e:5c:2c:8f:0b:
60:03:58:22:5a:23:ec:5a:8b:74:30:18:54:fa:ca:
42:7b:9d:4c:fd:47:b6:f6:cf:ca:ea:e5:e0:60:4f:
7f:db:76:91:fa:f3:b3:ff:3b:9e:c5:df:72:bb:ac:
c3:6d:73:03:29:ac:0c:d4:97:a2:e1:b0:6a:d0:24:
27:06:f8:4c:2a:db:70:65:e9:9b:33:3d:34:51:0f:
66:93:fc:41:31:23:a3:13:80:a0:d9:5a:1d:85:dd:
3a:c3:26:d9:24:e2:eb:0f:91:d8:dc:6d:e6:89:51:
fe:ab:cf:dc:02:e7:db:99:89:c4:49:59:d2:67:7e:
c2:af:d5:0f:ac:20:f3:c5:eb:75:02:ea:6c:74:b7:
9c:4f:6e:50:7a:55:35:4f:ac:18:22:d8:1f:60:b6:
11:e9:64:a2:75:61:8e:e7:b9:d1:f1:ca:21:fe:e5:
3a:1e:ad:87:a4:e5:30:a5:f3:fb:8a:4e:41:39:d3:
a0:0c:2b:37:e0:56:aa:96:83:41:8f:5c:95:24:a7:
a4:c1
Exponent: 65537 (0x10001)
X509v3 extensions:
X509v3 Subject Key Identifier:
EC:9F:9C:A0:58:DD:21:AD:AB:30:92:DA:9B:9A:F6:67:29:88:6F:29
Signature Algorithm: sha256WithRSAEncryption
Signature Value:
45:42:32:5c:9b:e3:49:1e:7f:dd:a8:69:54:7c:87:ff:56:0f:
00:c6:24:21:39:2f:a0:01:69:70:aa:69:2b:9d:bb:55:dc:3b:
f0:79:57:a2:c9:6a:fd:18:79:e1:20:d5:81:60:43:45:09:f2:
6f:df:b7:a9:51:4b:0a:88:b0:ea:e7:51:87:ec:6e:36:54:44:
6f:0d:61:75:fc:e4:e0:25:06:3e:5d:03:3d:9c:57:43:9a:53:
0f:68:c1:94:3b:ed:83:12:83:09:d1:8b:b9:c5:cd:ce:e1:2a:
da:98:83:54:61:71:25:19:a8:91:de:ae:99:2e:30:64:17:e1:
32:aa:0d:bd:e5:83:31:c3:76:e1:dc:19:22:5e:5a:18:d4:df:
60:e7:e0:0d:03:c0:1a:77:23:aa:c6:1e:66:00:6a:39:5a:dc:
04:45:b5:3f:57:df:12:87:e2:e0:9d:6f:fd:da:73:95:81:aa:
c8:13:b5:b8:d1:2e:66:64:62:77:87:e6:52:17:2e:0b:b8:1f:
f2:f5:06:95:39:76:12:dc:63:8d:e7:45:4c:d1:1d:c0:11:d5:
45:bd:3f:61:e7:c6:78:77:8c:fc:ed:46:13:c3:f7:3e:22:02:
8d:73:a0:f9:8f:79:a5:c8:ec:ee:b4:b8:16:8e:84:c5:ac:00:
03:84:98:3b
(kali㉿kali)-[~]
$
Screenshot taken
View image
Screenshot taken
View image
Screenshot taken
View image
Right Ctrl

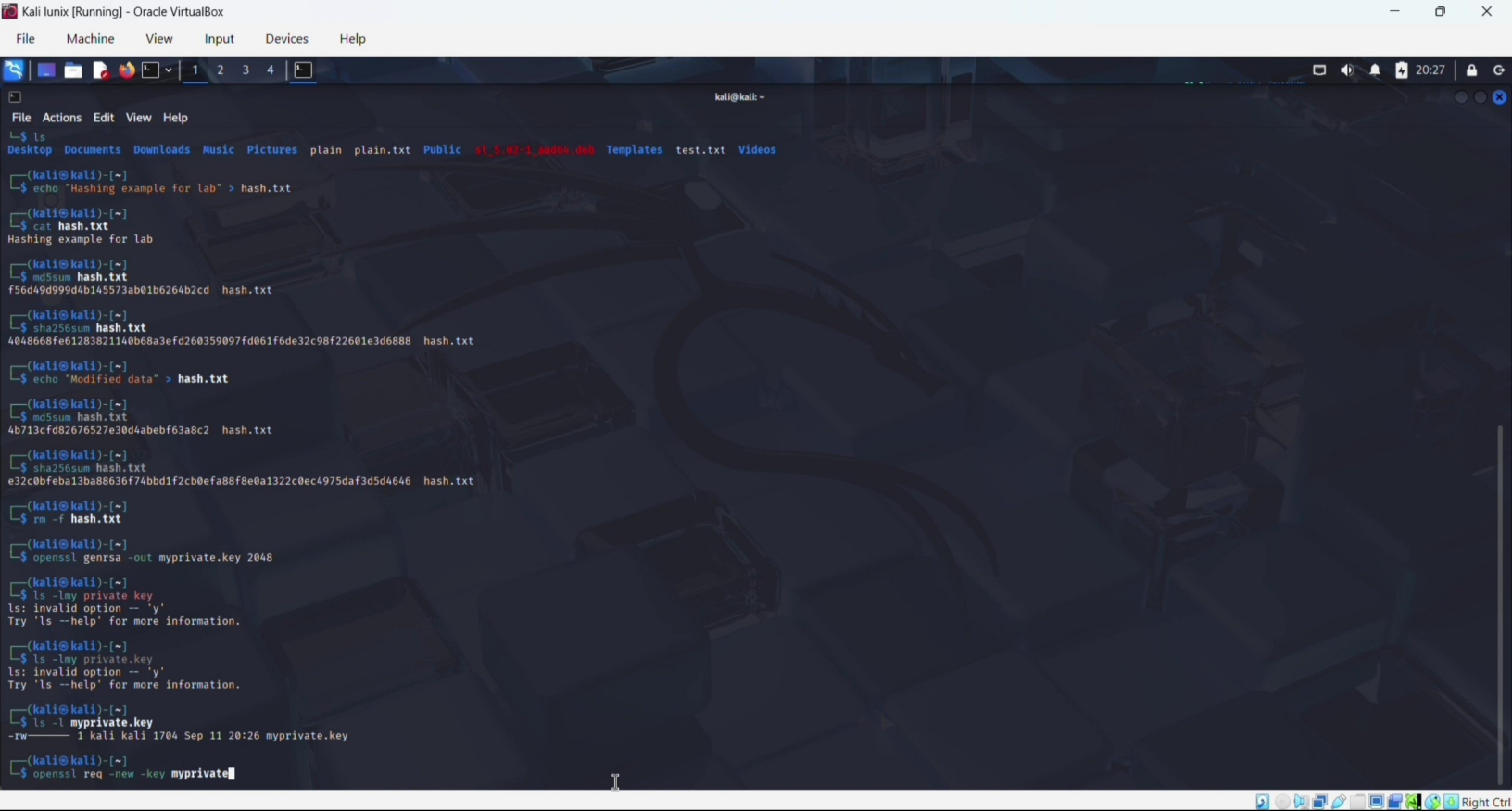

Kali lunix [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
19:36
kali@kali: ~
File Actions Edit View Help
┌──(kali㉿kali)-[~]
└─$ echo "Secret message for lab" > plain
┌──(kali㉿kali)-[~]
└─$ cat plain.txt
Secret message for lab
┌──(kali㉿kali)-[~]
└─$ openssl enc -aes-256-cbc -pbkdf2 -in plain.txt -out secret.enc -pass pass:MyStrongPass123
┌──(kali㉿kali)-[~]
└─$ ls -l
total 64
drwxr-xr-x 2 kali kali 4096 Aug 31 17:51 Desktop
drwxr-xr-x 2 kali kali 4096 Sep 11 18:28 Documents
drwxr-xr-x 2 kali kali 4096 Aug 31 17:51 Downloads
drwxr-xr-x 2 kali kali 4096 Aug 31 17:51 Music
drwxr-xr-x 2 kali kali 4096 Sep 11 19:14 Pictures
-rw-rw-r-- 1 kali kali 23 Sep 11 19:27 plain
-rw-rw-r-- 1 kali kali 23 Sep 11 18:36 plain.txt
drwxr-xr-x 2 kali kali 4096 Aug 31 17:51 Public
-rw-rw-r-- 1 kali kali 48 Sep 11 19:29 secret.enc
-rw-rw-r-- 1 kali kali 12708 Feb 2 2019 s1_5.43-1_amd64.deb
drwxr-xr-x 2 kali kali 4096 Aug 31 17:51 Templates
-rw-r--r-- 1 root root 13 Sep 6 11:20 test.txt
drwxr-xr-x 2 kali kali 4096 Aug 31 17:51 Videos
┌──(kali㉿kali)-[~]
└─$ cat secret.enc
)••x••••RM•y"2•
┌──(kali㉿kali)-[~]
└─$ openssl enc -d -aes-256-cbc -pbkdf2 -in secret.enc -out plain_decrypted.txt -pass pass:MyStrongPass123
┌──(kali㉿kali)-[~]
└─$ cat plain_decrypted.txt
Secret message for lab
┌──(kali㉿kali)-[~]
└─$ rm -f secret.enc plain_decrypted.txt
┌──(kali㉿kali)-[~]
└─$
Right Ctrl

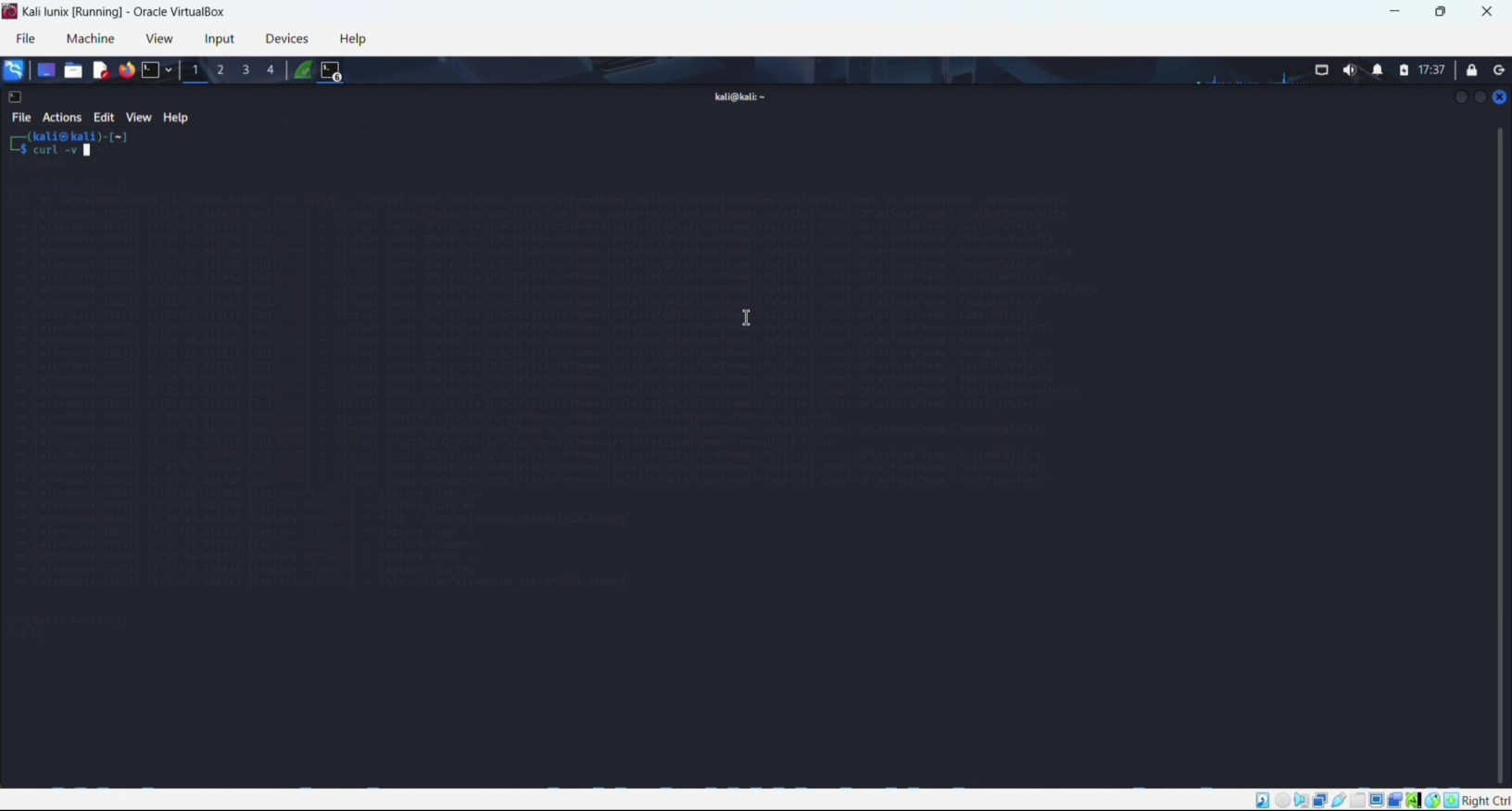

Kali lunix [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
19:31
kali@kali: ~
File Actions Edit View Help
(kali㉿kali)-[~]
$ echo "Secret message for lab" > plain
(kali㉿kali)-[~]
$ cat plain.txt
Secret message for lab
(kali㉿kali)-[~]
$ openssl enc -aes-256-cbc -pbkdf2 -in plain.txt -out secret.enc -pass pass:MyStrongPass123
(kali㉿kali)-[~]
$ ls -l
total 64
drwxr-xr-x 2 kali kali 4096 Aug 31 17:51 Desktop
drwxr-xr-x 2 kali kali 4096 Sep 11 18:28 Documents
drwxr-xr-x 2 kali kali 4096 Aug 31 17:51 Downloads
drwxr-xr-x 2 kali kali 4096 Aug 31 17:51 Music
drwxr-xr-x 2 kali kali 4096 Sep 11 19:14 Pictures
-rw-rw-r-- 1 kali kali 23 Sep 11 19:27 plain
-rw-rw-r-- 1 kali kali 23 Sep 11 18:36 plain.txt
drwxr-xr-x 2 kali kali 4096 Aug 31 17:51 Public
-rw-rw-r-- 1 kali kali 48 Sep 11 19:29 secret.enc
-rw-rw-r-- 1 kali kali 12708 Feb 2 2019 [illegible]
drwxr-xr-x 2 kali kali 4096 Aug 31 17:51 Templates
-rw-r--r-- 1 root root 13 Sep 6 11:20 test.txt
drwxr-xr-x 2 kali kali 4096 Aug 31 17:51 Videos
(kali㉿kali)-[~]
$ cat secret.enc
)**x****RM*y"2*
(kali㉿kali)-[~]
$ openssl enc -d -aes-256-cbc -pbkdf2 -in secret.enc -out plain_decrypted.txt -pass pass:MyStrongPass123
Right Ctrl

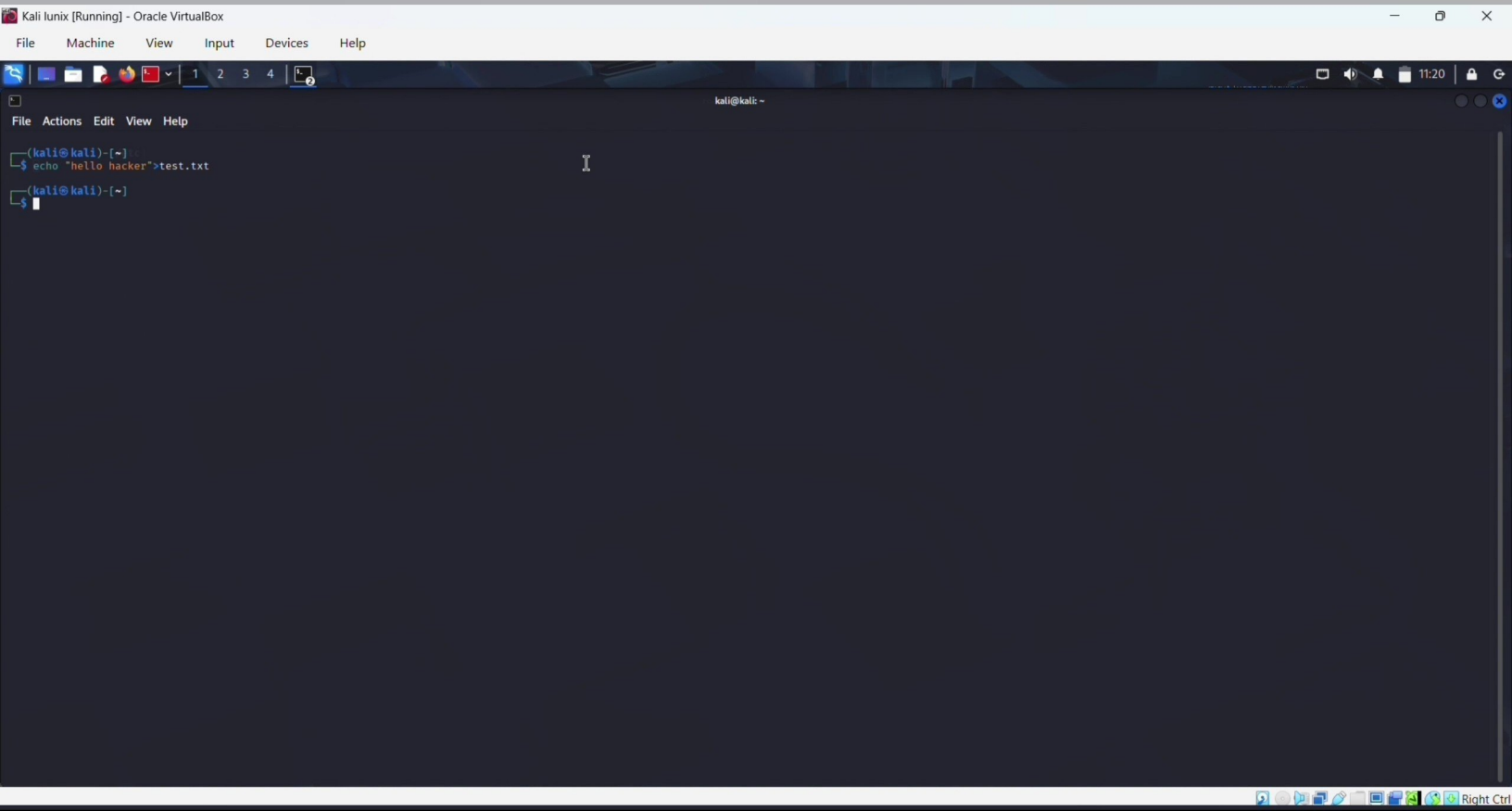

Kali lunix [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
21:25
kali@kali: ~
File Actions Edit View Help
(kali㉿kali)-[~]
$ sudo ip neigh flush all
[sudo] password for kali:
(kali㉿kali)-[~]
$ ping -c 10 192.168.56.104
PING 192.168.56.104 (192.168.56.104) 56(84) bytes of data.
64 bytes from 192.168.56.104: icmp_seq=1 ttl=255 time=12.5 ms
64 bytes from 192.168.56.104: icmp_seq=2 ttl=255 time=1.27 ms
64 bytes from 192.168.56.104: icmp_seq=3 ttl=255 time=1.69 ms
64 bytes from 192.168.56.104: icmp_seq=4 ttl=255 time=2.72 ms
64 bytes from 192.168.56.104: icmp_seq=5 ttl=255 time=2.30 ms
64 bytes from 192.168.56.104: icmp_seq=6 ttl=255 time=1.68 ms
64 bytes from 192.168.56.104: icmp_seq=7 ttl=255 time=1.15 ms
64 bytes from 192.168.56.104: icmp_seq=8 ttl=255 time=1.44 ms
64 bytes from 192.168.56.104: icmp_seq=9 ttl=255 time=1.88 ms
64 bytes from 192.168.56.104: icmp_seq=10 ttl=255 time=1.26 ms
— 192.168.56.104 ping statistics —
10 packets transmitted, 10 received, 0% packet loss, time 9027ms
rtt min/avg/max/mdev = 1.153/2.789/12.511/3.273 ms
(kali㉿kali)-[~]
$ sudo apt install -y arping 2>/dev
Right Ctrl

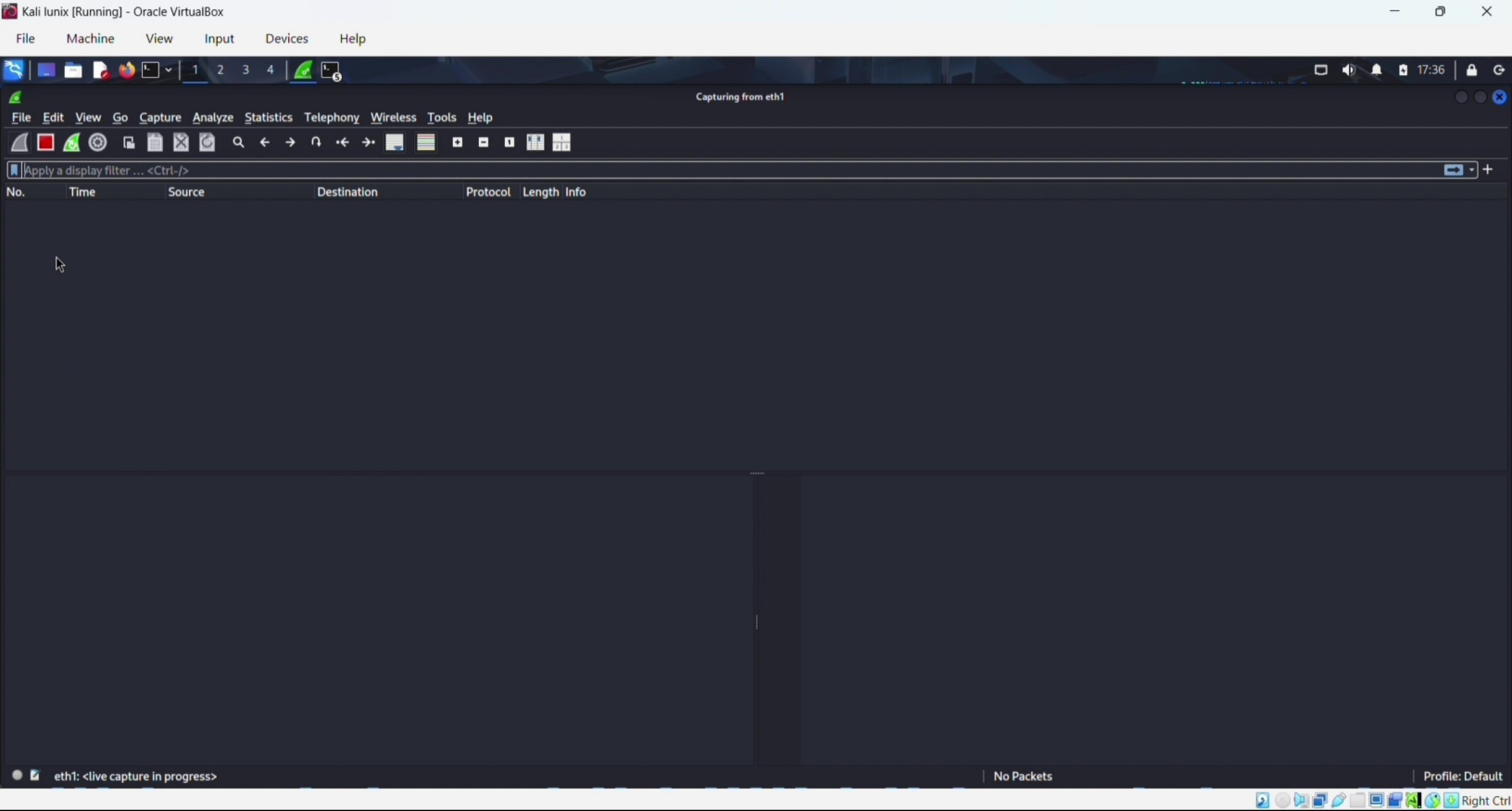

Kali lunix [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
19:28
kali@kali: ~
File Actions Edit View Help
(kali㉿kali)-[~]
$ echo "Secret message for lab" > plain
(kali㉿kali)-[~]
$ cat plain.txt
Secret message for lab
(kali㉿kali)-[~]
$ openssl enc -aes-256-cbc -pbkdf2 -in plain.txt -out
Right Ctrl


Kali lunix [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
23:36
kali@kali: ~
File Actions Edit View Help
(kali㉿kali)-[~]
$ nc 127.0.0.1 4444
hii this is my last point of my step 6 task 1 internship
nc -lvp 4445 > received.txt
echo "Hello from Netcat file test"
Right Ctrl


Kali lunix [Running] - Oracle VirtualBox
File Machine View Input Devices Help
kali@kali: ~
File Actions Edit View Help
ls
Desktop Documents Downloads Music Pictures plain plain.txt Public Templates test.txt Videos
echo "Hashing example for lab" > hash.txt
cat hash.txt
Hashing example for lab
md5sum hash.txt
f56d49d999d4b145573ab01b6264b2cd hash.txt
sha256sum hash.txt
4048668fe61283821140b68a3efd260359097fd061f6de32c98f22601e3d6888 hash.txt
echo "Modified data" > hash.txt
md5sum hash.txt
4b713cfd82676527e30d4abebf63a8c2 hash.txt
sha256sum hash.txt
e32c0bfeba13ba88636f74bbd1f2cb0efa88f8e0a1322c0ec4975daf3d5d4646 hash.txt
rm -f hash.txt
openssl genrsa -out myprivate.key 2048
ls -lmy private key
ls: invalid option -- 'y'
Try 'ls --help' for more information.
ls -lmy private.key
ls: invalid option -- 'y'
Try 'ls --help' for more information.
ls -l myprivate.key
-rw------- 1 kali kali 1704 Sep 11 20:26 myprivate.key
openssl req -new -key myprivate
Right Ctrl


Kali lunix [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
17:37
kali@kali: ~
File Actions Edit View Help
(kali㉿kali)-[~]
$ curl -v


Kali lunix [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
11:20
kali@kali: ~
File Actions Edit View Help
(kali㉿kali)-[~]
$ echo "hello hacker">test.txt
(kali㉿kali)-[~]
$
Right Ctrl


Kali lunix [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
17:36
Capturing from eth1
File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help
Apply a display filter ... <Ctrl-/>
No. Time Source Destination Protocol Length Info
eth1: <live capture in progress>
No Packets
Profile: Default
Right Ctrl