

CYB-552 Land Attack Assignment

The image displays two screenshots of a Kali Linux terminal environment, illustrating a Land attack. The terminal is running a packet capture on the eth0 interface.

Top Screenshot: The terminal shows the initial setup of the packet capture. The capture is running on the eth0 interface, capturing packets from 192.168.100.5 to 192.168.100.5. The capture is running on the eth0 interface, capturing packets from 192.168.100.5 to 192.168.100.5. The capture is running on the eth0 interface, capturing packets from 192.168.100.5 to 192.168.100.5.

Bottom Screenshot: The terminal shows the attack in progress. The capture is running on the eth0 interface, capturing packets from 192.168.100.5 to 192.168.100.5. The capture is running on the eth0 interface, capturing packets from 192.168.100.5 to 192.168.100.5. The capture is running on the eth0 interface, capturing packets from 192.168.100.5 to 192.168.100.5.

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Aug 31 16:17
venky@venky-VirtualBox: ~
16:16:05.348095 IP venky-VirtualBox.59266 > venky-VirtualBox.http: Flags [S], seq 307976427, win 512, length 0
16:16:05.348289 IP venky-VirtualBox.59267 > venky-VirtualBox.http: Flags [S], seq 1573092487, win 512, length 0
16:16:05.348530 IP venky-VirtualBox.59268 > venky-VirtualBox.http: Flags [S], seq 1322136665, win 512, length 0
16:16:05.349111 IP venky-VirtualBox.59269 > venky-VirtualBox.http: Flags [S], seq 976784532, win 512, length 0
16:16:05.349112 IP venky-VirtualBox.59270 > venky-VirtualBox.http: Flags [S], seq 1306650610, win 512, length 0
16:16:05.349112 IP venky-VirtualBox.59271 > venky-VirtualBox.http: Flags [S], seq 1938120113, win 512, length 0
16:16:05.349317 IP venky-VirtualBox.59272 > venky-VirtualBox.http: Flags [S], seq 192441357, win 512, length 0
16:16:05.349525 IP venky-VirtualBox.59273 > venky-VirtualBox.http: Flags [S], seq 310253849, win 512, length 0
16:16:05.349525 IP venky-VirtualBox.59274 > venky-VirtualBox.http: Flags [S], seq 1682487400, win 512, length 0
16:16:05.349980 IP venky-VirtualBox.59275 > venky-VirtualBox.http: Flags [S], seq 1733854087, win 512, length 0
16:16:05.349981 IP venky-VirtualBox.59276 > venky-VirtualBox.http: Flags [S], seq 259232483, win 512, length 0
16:16:05.350281 IP venky-VirtualBox.59277 > venky-VirtualBox.http: Flags [S], seq 808242343, win 512, length 0
16:16:05.350462 IP venky-VirtualBox.59278 > venky-VirtualBox.http: Flags [S], seq 2075027736, win 512, length 0
16:16:05.350706 IP venky-VirtualBox.59279 > venky-VirtualBox.http: Flags [S], seq 567281161, win 512, length 0
16:16:05.351306 IP venky-VirtualBox.59280 > venky-VirtualBox.http: Flags [S], seq 10234094, win 512, length 0
16:16:05.351308 IP venky-VirtualBox.59281 > venky-VirtualBox.http: Flags [S], seq 1066336494, win 512, length 0
16:16:05.351308 IP venky-VirtualBox.59282 > venky-VirtualBox.http: Flags [S], seq 497029157, win 512, length 0
16:16:05.351308 IP venky-VirtualBox.59283 > venky-VirtualBox.http: Flags [S], seq 1844424067, win 512, length 0
16:16:05.351781 IP venky-VirtualBox.59284 > venky-VirtualBox.http: Flags [S], seq 1350613040, win 512, length 0
16:16:05.351782 IP venky-VirtualBox.59285 > venky-VirtualBox.http: Flags [S], seq 293054786, win 512, length 0
16:16:05.351782 IP venky-VirtualBox.59286 > venky-VirtualBox.http: Flags [S], seq 502835390, win 512, length 0
16:16:05.352042 IP venky-VirtualBox.59287 > venky-VirtualBox.http: Flags [S], seq 1468941918, win 512, length 0
16:16:05.352043 IP venky-VirtualBox.59288 > venky-VirtualBox.http: Flags [S], seq 2041108720, win 512, length 0
16:16:05.352234 IP venky-VirtualBox.59289 > venky-VirtualBox.http: Flags [S], seq 1605551866, win 512, length 0
16:16:05.352436 IP venky-VirtualBox.59290 > venky-VirtualBox.http: Flags [S], seq 1807129283, win 512, length 0
16:16:05.352623 IP venky-VirtualBox.59291 > venky-VirtualBox.http: Flags [S], seq 1759449099, win 512, length 0
16:16:05.353050 IP venky-VirtualBox.59292 > venky-VirtualBox.http: Flags [S], seq 513918412, win 512, length 0
16:16:05.353408 IP venky-VirtualBox.59293 > venky-VirtualBox.http: Flags [S], seq 1809843832, win 512, length 0
16:16:05.353408 IP venky-VirtualBox.59294 > venky-VirtualBox.http: Flags [S], seq 550282356, win 512, length 0
16:16:05.353408 IP venky-VirtualBox.59295 > venky-VirtualBox.http: Flags [S], seq 502383473, win 512, length 0
16:16:05.353643 IP venky-VirtualBox.59296 > venky-VirtualBox.http: Flags [S], seq 1767423794, win 512, length 0
16:16:05.353815 IP venky-VirtualBox.59297 > venky-VirtualBox.http: Flags [S], seq 358412450, win 512, length 0
16:16:05.353976 IP venky-VirtualBox.59298 > venky-VirtualBox.http: Flags [S], seq 2143409225, win 512, length 0
```

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Aug 31 16:17
venky@venky-VirtualBox: ~
16:16:07.533314 IP venky-VirtualBox.3702 > venky-VirtualBox.http: Flags [S], seq 1619651120, win 512, length 0
16:16:07.533664 IP venky-VirtualBox.3703 > venky-VirtualBox.http: Flags [S], seq 196266104, win 512, length 0
16:16:07.533997 IP venky-VirtualBox.3704 > venky-VirtualBox.http: Flags [S], seq 1656168813, win 512, length 0
16:16:07.539305 IP venky-VirtualBox.3705 > venky-VirtualBox.http: Flags [S], seq 1254657864, win 512, length 0
16:16:07.545379 IP venky-VirtualBox.3706 > venky-VirtualBox.http: Flags [S], seq 789138717, win 512, length 0
16:16:07.545383 IP venky-VirtualBox.3707 > venky-VirtualBox.http: Flags [S], seq 1642777189, win 512, length 0
16:16:07.546046 IP venky-VirtualBox.3708 > venky-VirtualBox.http: Flags [S], seq 357303763, win 512, length 0
16:16:07.546046 IP venky-VirtualBox.3709 > venky-VirtualBox.http: Flags [S], seq 251516341, win 512, length 0
16:16:07.546047 IP venky-VirtualBox.3710 > venky-VirtualBox.http: Flags [S], seq 583792152, win 512, length 0
16:16:07.547044 IP venky-VirtualBox.3711 > venky-VirtualBox.http: Flags [S], seq 965707611, win 512, length 0
16:16:07.547537 IP venky-VirtualBox.3712 > venky-VirtualBox.http: Flags [S], seq 844620468, win 512, length 0
16:16:07.548049 IP venky-VirtualBox.3713 > venky-VirtualBox.http: Flags [S], seq 1325878342, win 512, length 0
16:16:07.549317 IP venky-VirtualBox.3714 > venky-VirtualBox.http: Flags [S], seq 2031593717, win 512, length 0
16:16:07.550080 IP venky-VirtualBox.3715 > venky-VirtualBox.http: Flags [S], seq 710375791, win 512, length 0
16:16:07.550081 IP venky-VirtualBox.3716 > venky-VirtualBox.http: Flags [S], seq 1883235093, win 512, length 0
16:16:07.550609 IP venky-VirtualBox.3717 > venky-VirtualBox.http: Flags [S], seq 1530204712, win 512, length 0
16:16:07.550610 IP venky-VirtualBox.3718 > venky-VirtualBox.http: Flags [S], seq 1352526999, win 512, length 0
16:16:07.550610 IP venky-VirtualBox.3719 > venky-VirtualBox.http: Flags [S], seq 449776026, win 512, length 0
16:16:07.551112 IP venky-VirtualBox.3720 > venky-VirtualBox.http: Flags [S], seq 455356440, win 512, length 0
16:16:07.551112 IP venky-VirtualBox.3721 > venky-VirtualBox.http: Flags [S], seq 1413916174, win 512, length 0
16:16:07.551113 IP venky-VirtualBox.3722 > venky-VirtualBox.http: Flags [S], seq 257740990, win 512, length 0
16:16:07.551113 IP venky-VirtualBox.3723 > venky-VirtualBox.http: Flags [S], seq 126932824, win 512, length 0
16:16:07.551574 IP venky-VirtualBox.3724 > venky-VirtualBox.http: Flags [S], seq 258846996, win 512, length 0
16:16:07.551575 IP venky-VirtualBox.3725 > venky-VirtualBox.http: Flags [S], seq 917556206, win 512, length 0
16:16:07.552069 IP venky-VirtualBox.3726 > venky-VirtualBox.http: Flags [S], seq 2050206618, win 512, length 0
16:16:07.552070 IP venky-VirtualBox.3727 > venky-VirtualBox.http: Flags [S], seq 1868432765, win 512, length 0
16:16:07.552070 IP venky-VirtualBox.3728 > venky-VirtualBox.http: Flags [S], seq 1985898559, win 512, length 0
^[[B^C
90876 packets captured
90876 packets received by filter
0 packets dropped by kernel
venky@venky-VirtualBox:~$
```

```
Aug 31 16:18
venky@venky-VirtualBox: ~
16:16:07.533314 IP venky-VirtualBox.3702 > venky-VirtualBox.http: Flags [S], seq 1619651120, win 512, length 0
16:16:07.533664 IP venky-VirtualBox.3703 > venky-VirtualBox.http: Flags [S], seq 196266104, win 512, length 0
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16:16:07.545379 IP venky-VirtualBox.3706 > venky-VirtualBox.http: Flags [S], seq 789138717, win 512, length 0
16:16:07.545383 IP venky-VirtualBox.3707 > venky-VirtualBox.http: Flags [S], seq 1642777189, win 512, length 0
16:16:07.546046 IP venky-VirtualBox.3708 > venky-VirtualBox.http: Flags [S], seq 357303763, win 512, length 0
16:16:07.546046 IP venky-VirtualBox.3709 > venky-VirtualBox.http: Flags [S], seq 251516341, win 512, length 0
16:16:07.546047 IP venky-VirtualBox.3710 > venky-VirtualBox.http: Flags [S], seq 583792152, win 512, length 0
16:16:07.547044 IP venky-VirtualBox.3711 > venky-VirtualBox.http: Flags [S], seq 965707611, win 512, length 0
16:16:07.547537 IP venky-VirtualBox.3712 > venky-VirtualBox.http: Flags [S], seq 844620468, win 512, length 0
16:16:07.548049 IP venky-VirtualBox.3713 > venky-VirtualBox.http: Flags [S], seq 1325878342, win 512, length 0
16:16:07.549317 IP venky-VirtualBox.3714 > venky-VirtualBox.http: Flags [S], seq 2031593717, win 512, length 0
16:16:07.550080 IP venky-VirtualBox.3715 > venky-VirtualBox.http: Flags [S], seq 710375791, win 512, length 0
16:16:07.550081 IP venky-VirtualBox.3716 > venky-VirtualBox.http: Flags [S], seq 1883235093, win 512, length 0
16:16:07.550609 IP venky-VirtualBox.3717 > venky-VirtualBox.http: Flags [S], seq 1530204712, win 512, length 0
16:16:07.550610 IP venky-VirtualBox.3718 > venky-VirtualBox.http: Flags [S], seq 1352526999, win 512, length 0
16:16:07.550610 IP venky-VirtualBox.3719 > venky-VirtualBox.http: Flags [S], seq 449776026, win 512, length 0
16:16:07.551112 IP venky-VirtualBox.3720 > venky-VirtualBox.http: Flags [S], seq 455356440, win 512, length 0
16:16:07.551112 IP venky-VirtualBox.3721 > venky-VirtualBox.http: Flags [S], seq 1413916174, win 512, length 0
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16:16:07.551113 IP venky-VirtualBox.3723 > venky-VirtualBox.http: Flags [S], seq 126932824, win 512, length 0
16:16:07.551574 IP venky-VirtualBox.3724 > venky-VirtualBox.http: Flags [S], seq 258846996, win 512, length 0
16:16:07.551575 IP venky-VirtualBox.3725 > venky-VirtualBox.http: Flags [S], seq 917556206, win 512, length 0
16:16:07.552069 IP venky-VirtualBox.3726 > venky-VirtualBox.http: Flags [S], seq 2050206618, win 512, length 0
16:16:07.552070 IP venky-VirtualBox.3727 > venky-VirtualBox.http: Flags [S], seq 1868432765, win 512, length 0
16:16:07.552070 IP venky-VirtualBox.3728 > venky-VirtualBox.http: Flags [S], seq 1985898559, win 512, length 0
^[[B^C
90876 packets captured
90876 packets received by filter
0 packets dropped by kernel
venky@venky-VirtualBox:~$
```

```
venky@venky-VirtualBox: ~
top - 16:18:46 up 36 min, 1 user, load average: 0.19, 0.15, 0.09
Tasks: 204 total, 1 running, 203 sleeping, 0 stopped, 0 zombie
%Cpu(s): 1.5 us, 4.9 sy, 0.0 ni, 91.8 id, 0.0 wa, 0.0 hi, 1.8 si, 0.0 st
MiB Mem : 3460.9 total, 1063.1 free, 1188.9 used, 1405.4 buff/cache
MiB Swap: 3331.0 total, 3331.0 free, 0.0 used, 2272.0 avail Mem

  PID USER      PR  NI    VIRT    RES    SHR  S  %CPU  %MEM    TIME+  COMMAND
 2145 venky    20   0 3932144 403128 140928 S  11.3  11.4   1:13.88 gnome-s+
 2901 venky    20   0 703360 60544 47372 S   4.3   1.7   0:11.03 gnome-t+
 3078 root      20   0      0      0      0 I   2.3   0.0   0:01.22 kworker+
 3064 root      20   0      0      0      0 I   0.3   0.0   0:00.74 kworker+
    1 root      20   0 23252 14020 9412 S   0.0   0.4   0:02.45 systemd
    2 root      20   0      0      0      0 S   0.0   0.0   0:00.08 kthreadd
    3 root      20   0      0      0      0 S   0.0   0.0   0:00.00 pool_wor+
    4 root      0 -20      0      0      0 I   0.0   0.0   0:00.00 kworker+
    5 root      0 -20      0      0      0 I   0.0   0.0   0:00.00 kworker+
    6 root      0 -20      0      0      0 I   0.0   0.0   0:00.00 kworker+
    7 root      0 -20      0      0      0 I   0.0   0.0   0:00.00 kworker+
   10 root      0 -20      0      0      0 I   0.0   0.0   0:00.06 kworker+
   11 root      20   0      0      0      0 I   0.0   0.0   0:00.00 kworker+
   12 root      0 -20      0      0      0 I   0.0   0.0   0:00.00 kworker+
   13 root      20   0      0      0      0 I   0.0   0.0   0:00.00 rcu_tas+
   14 root      20   0      0      0      0 I   0.0   0.0   0:00.00 rcu_tas+
   15 root      20   0      0      0      0 I   0.0   0.0   0:00.00 rcu_tas+
```

```
Aug 31 16:32
venky@venky-VirtualBox: ~
Every 1.0s: netstat -ant | grep SYN_RECV | wc -l
venky-VirtualBox: Sat Aug 31 16:32:07 2024
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Aug 31 16:43
venky@venky-VirtualBox: ~
with well-known name - org.a11y.atspi.Registry
2024-08-31T15:42:46.814944-07:00 venky-VirtualBox colord[1467]: failed to get edid data: EDID length is too small
2024-08-31T15:42:46.824606-07:00 venky-VirtualBox dbus-daemon[830]: [system] Successfully activated service 'org.freedesktop.ColorManager'
2024-08-31T15:42:46.824695-07:00 venky-VirtualBox systemd[1]: Started colord.service - Manage, Install and Generate Color Profiles.
2024-08-31T15:42:46.843801-07:00 venky-VirtualBox org.gnome.Shell.desktop[1473]: The XKEYBOARD keymap compiler (xkbcomp) reports:
2024-08-31T15:42:46.843849-07:00 venky-VirtualBox org.gnome.Shell.desktop[1473]: > Warning: Could not resolve keysym XF86CameraAccessEnable
2024-08-31T15:42:46.843856-07:00 venky-VirtualBox org.gnome.Shell.desktop[1473]: > Warning: Could not resolve keysym XF86CameraAccessDisable
2024-08-31T15:42:46.843863-07:00 venky-VirtualBox org.gnome.Shell.desktop[1473]: > Warning: Could not resolve keysym XF86CameraAccessToggle
2024-08-31T15:42:46.843869-07:00 venky-VirtualBox org.gnome.Shell.desktop[1473]: > Warning: Could not resolve keysym XF86NextElement
2024-08-31T15:42:46.843875-07:00 venky-VirtualBox org.gnome.Shell.desktop[1473]: > Warning: Could not resolve keysym XF86PreviousElement
2024-08-31T15:42:46.843881-07:00 venky-VirtualBox org.gnome.Shell.desktop[1473]: > Warning: Could not resolve keysym XF86AutopilotEngageToggle
2024-08-31T15:42:46.843887-07:00 venky-VirtualBox org.gnome.Shell.desktop[1473]: > Warning: Could not resolve keysym XF86MarkWaypoint
2024-08-31T15:42:46.843894-07:00 venky-VirtualBox org.gnome.Shell.desktop[1473]: > Warning: Could not resolve keysym XF86Sos
2024-08-31T15:42:46.843900-07:00 venky-VirtualBox org.gnome.Shell.desktop[1473]: > Warning: Could not resolve keysym XF86NavChart
2024-08-31T15:42:46.843906-07:00 venky-VirtualBox org.gnome.Shell.desktop[1473]: > Warning: Could not resolve keysym XF86FishingChart
2024-08-31T15:42:46.843912-07:00 venky-VirtualBox org.gnome.Shell.desktop[1473]: > Warning: Could not resolve keysym XF86SingleRangeRadar
2024-08-31T15:42:46.843918-07:00 venky-VirtualBox org.gnome.Shell.desktop[1473]: > Warning: Could not resolve keysym XF86DualRangeRadar
2024-08-31T15:42:46.843924-07:00 venky-VirtualBox org.gnome.Shell.desktop[1473]: > Warning: Could not resolve keysym
```

Aug 31 16:44

venky@venky-VirtualBox: ~

er Script Dispatcher Service...

2024-08-31T16:32:48.396889-07:00 venky-VirtualBox dbus-daemon[830]: [system] Successfully activated service 'org.freedesktop.nm_dispatcher'

2024-08-31T16:32:48.397576-07:00 venky-VirtualBox systemd[1]: Started NetworkManager-dispatcher.service - Network Manager Script Dispatcher Service.

2024-08-31T16:32:58.412571-07:00 venky-VirtualBox systemd[1]: NetworkManager-dispatcher.service: Deactivated successfully.

2024-08-31T16:34:11.855357-07:00 venky-VirtualBox systemd[1896]: Started vte-spawn-3e138683-2234-41b9-99fd-a5ae326fb2c6.scope - VTE child process 4603 launched by gnome-terminal-server process 2901.

2024-08-31T16:34:19.657880-07:00 venky-VirtualBox gnome-shell[2145]: libinput error: event6 - VirtualBox mouse integration: client bug: event processing lagging behind by 23ms, your system is too slow

2024-08-31T16:35:01.785561-07:00 venky-VirtualBox CRON[4614]: (root) CMD (command -v debian-sa1 > /dev/null && debian-sa1 1 1)

2024-08-31T16:37:48.381894-07:00 venky-VirtualBox NetworkManager[1036]: <info> [1725147468.3802] dhcp4 (enp0s3): state changed new lease, address=192.168.100.5

2024-08-31T16:37:48.391655-07:00 venky-VirtualBox dbus-daemon[830]: [system] Activating via systemd: service name='org.freedesktop.nm_dispatcher' unit='dbus-org.freedesktop.nm-dispatcher.service' requested by ':1.16' (uid=0 pid=1036 comm='/usr/sbin/NetworkManager --no-daemon' label='unconfined')

2024-08-31T16:37:48.430317-07:00 venky-VirtualBox systemd[1]: Starting NetworkManager-dispatcher.service - Network Manager Script Dispatcher Service...

2024-08-31T16:37:48.448186-07:00 venky-VirtualBox dbus-daemon[830]: [system] Successfully activated service 'org.freedesktop.nm_dispatcher'

2024-08-31T16:37:48.448261-07:00 venky-VirtualBox systemd[1]: Started NetworkManager-dispatcher.service - Network Manager Script Dispatcher Service.

2024-08-31T16:37:58.462973-07:00 venky-VirtualBox systemd[1]: NetworkManager-dispatcher.service: Deactivated successfully.

2024-08-31T16:40:16.830091-07:00 venky-VirtualBox systemd[1]: Starting sysstat-collect.service - system activity accounting tool...

2024-08-31T16:40:16.838713-07:00 venky-VirtualBox systemd[1]: sysstat-collect.service: Deactivated successfully.

2024-08-31T16:40:16.839033-07:00 venky-VirtualBox systemd[1]: Finished sysstat-collect.service - system activity accounting tool.

venky@venky-VirtualBox:~\$