**HARSHIT SRIVASTAVA**

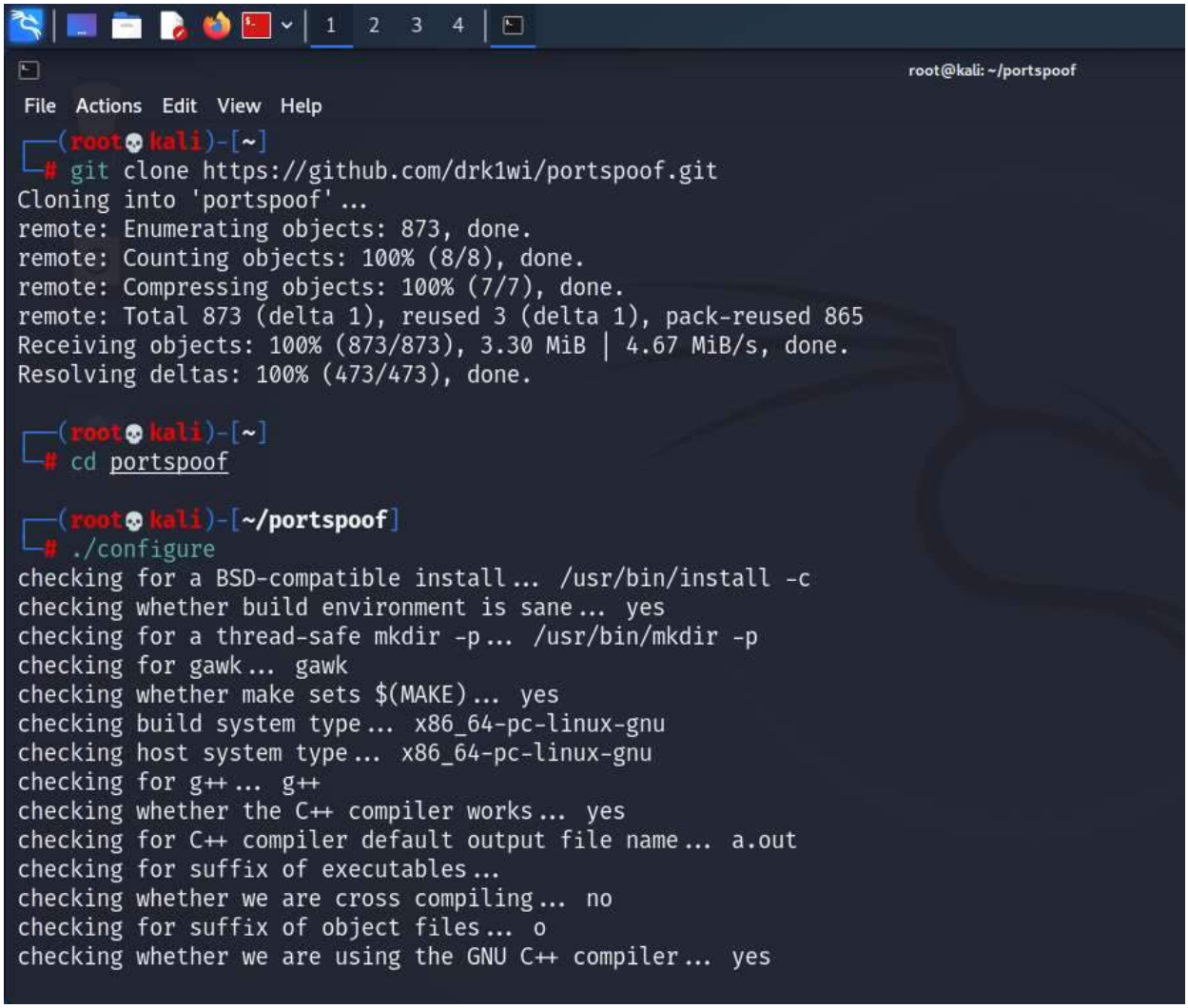
**19BCE0382**

**LAB ASSIGNMENT- 2**

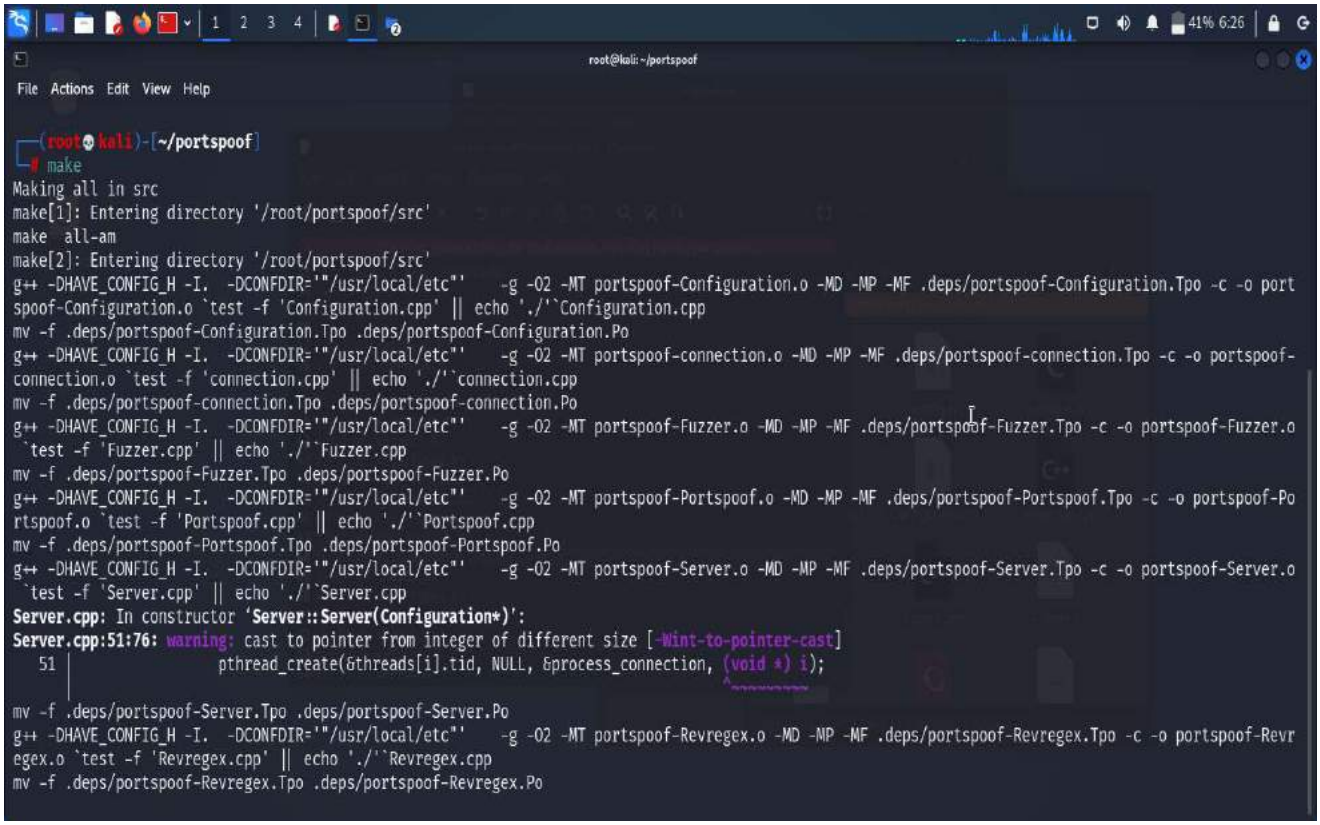
**28/02/2022 WINTER SEM 2021-22 [SLOT: L5+L6]**

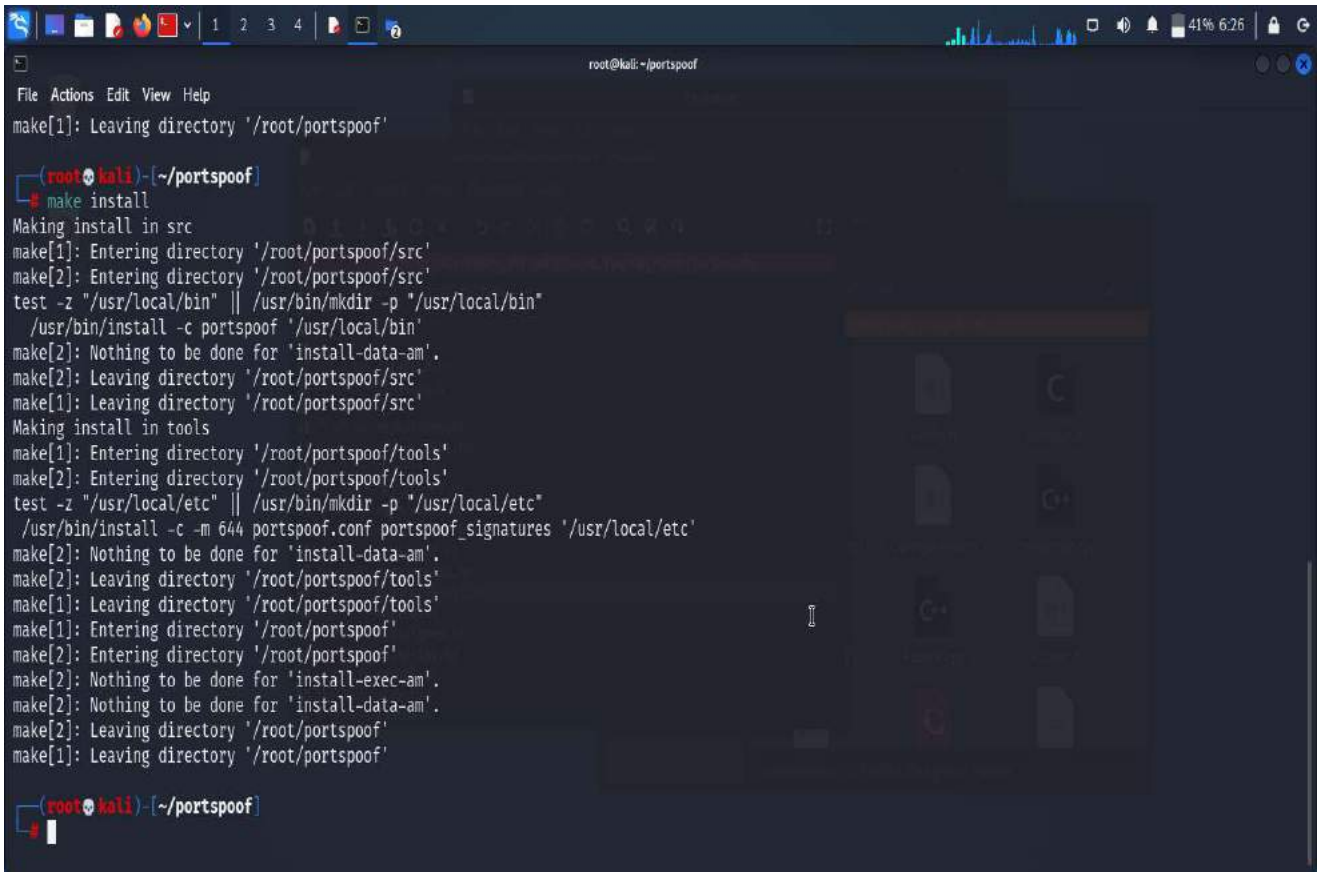
## 1. Port Spoof Install

Download and Configure



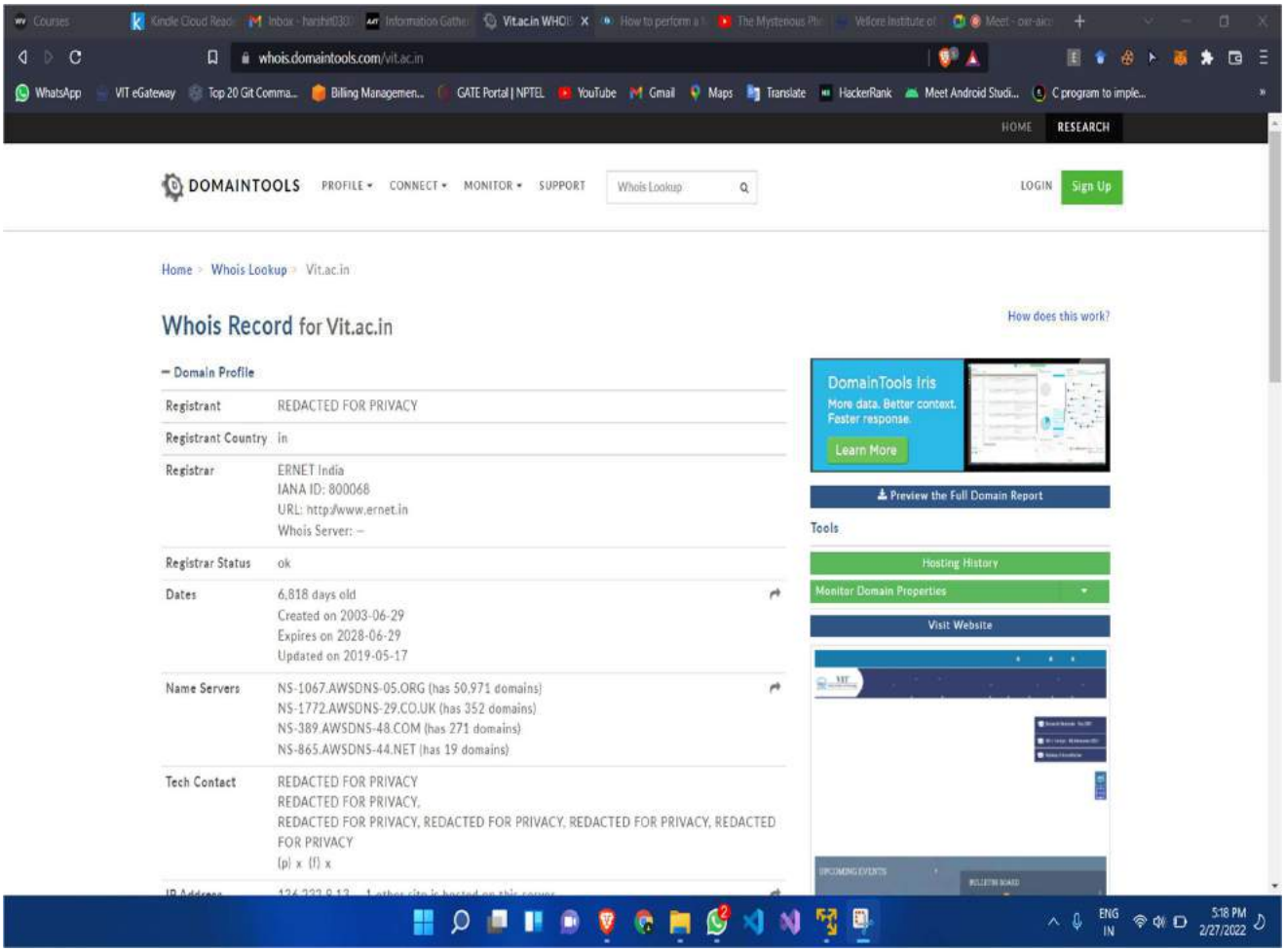
Make and Install

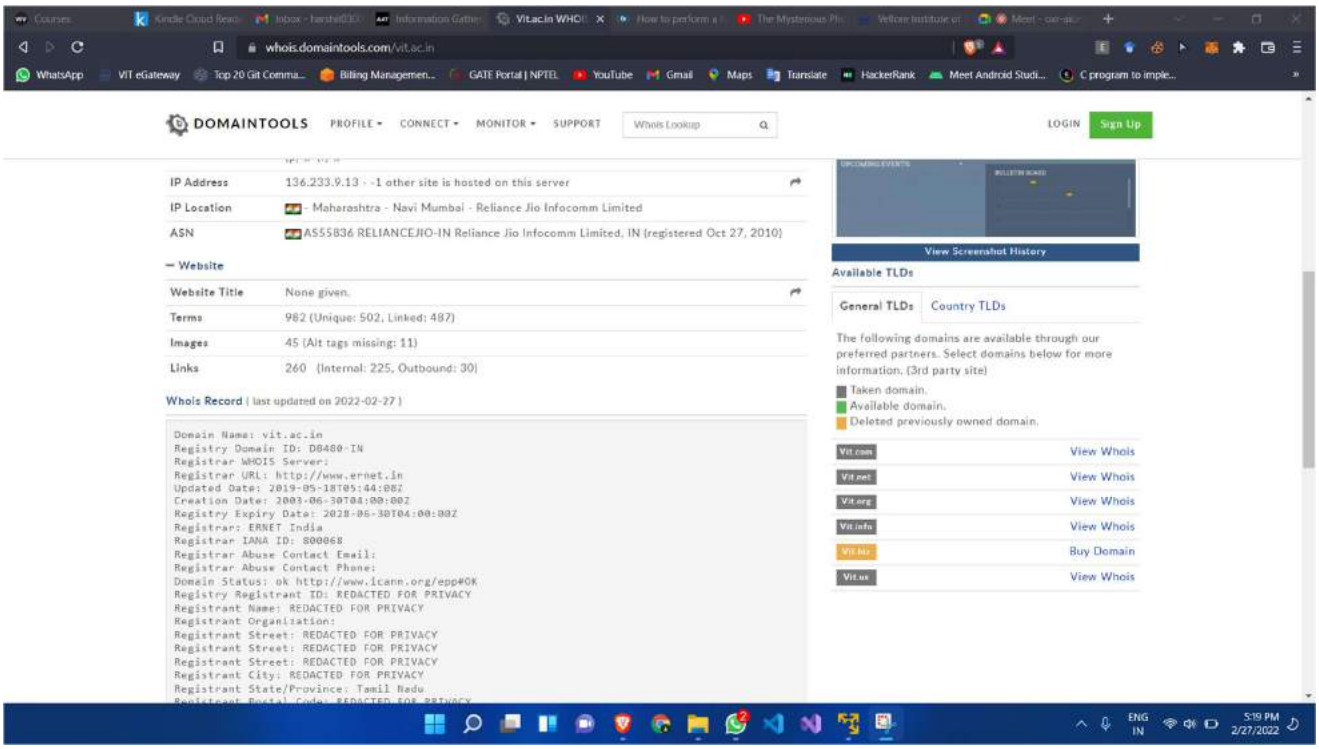


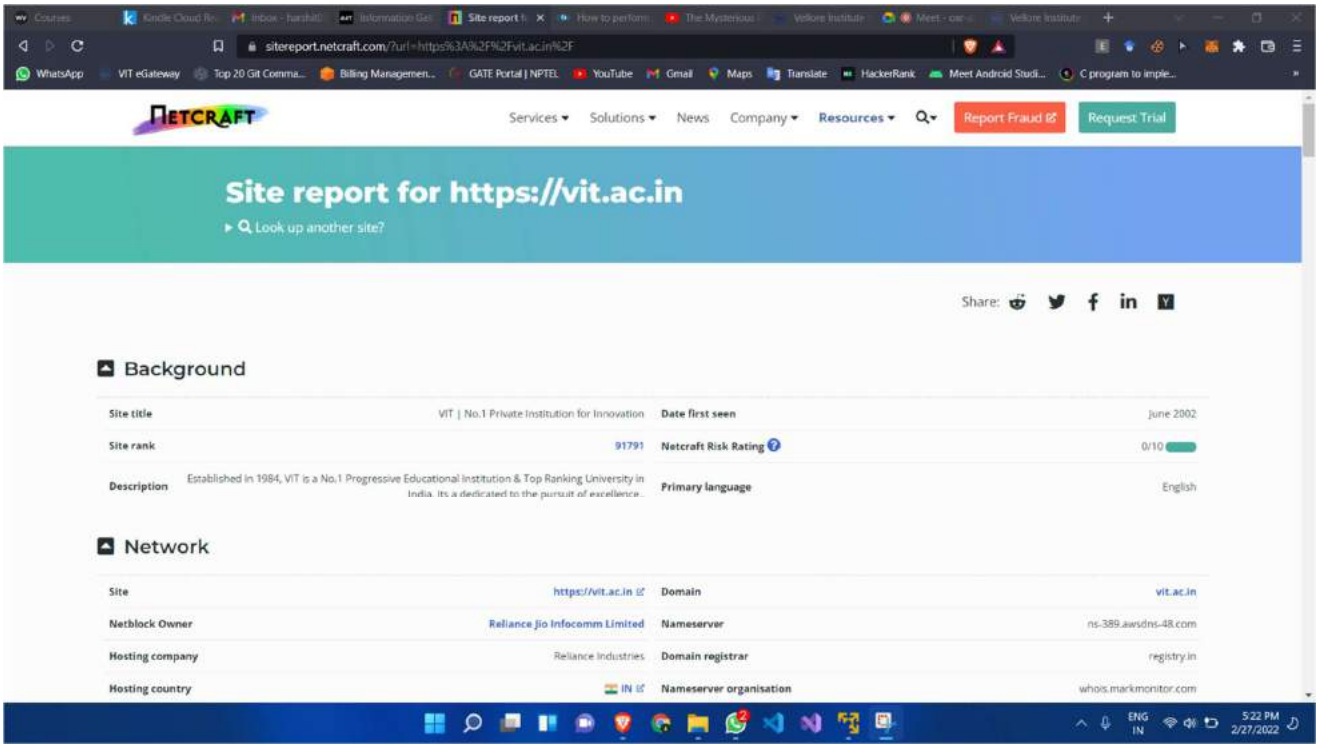
## 2. Information gathering techniques

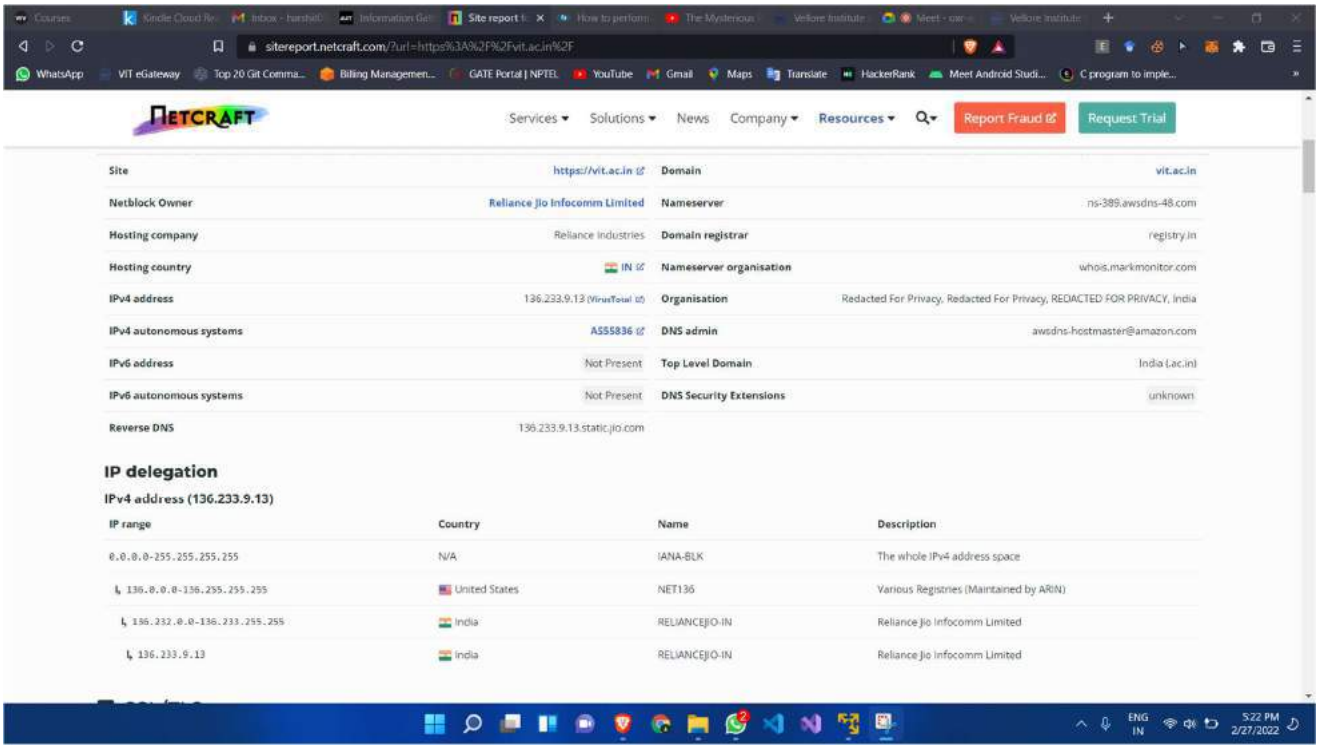
WhoIs

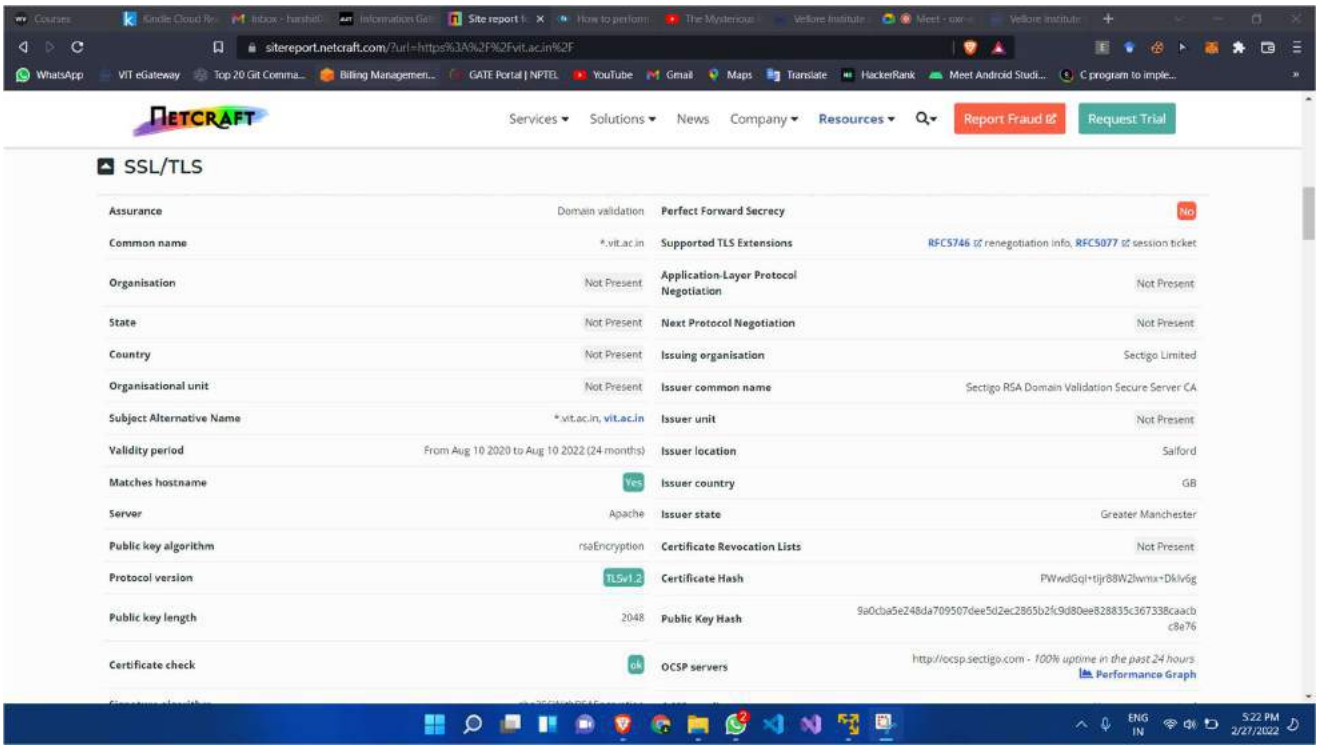


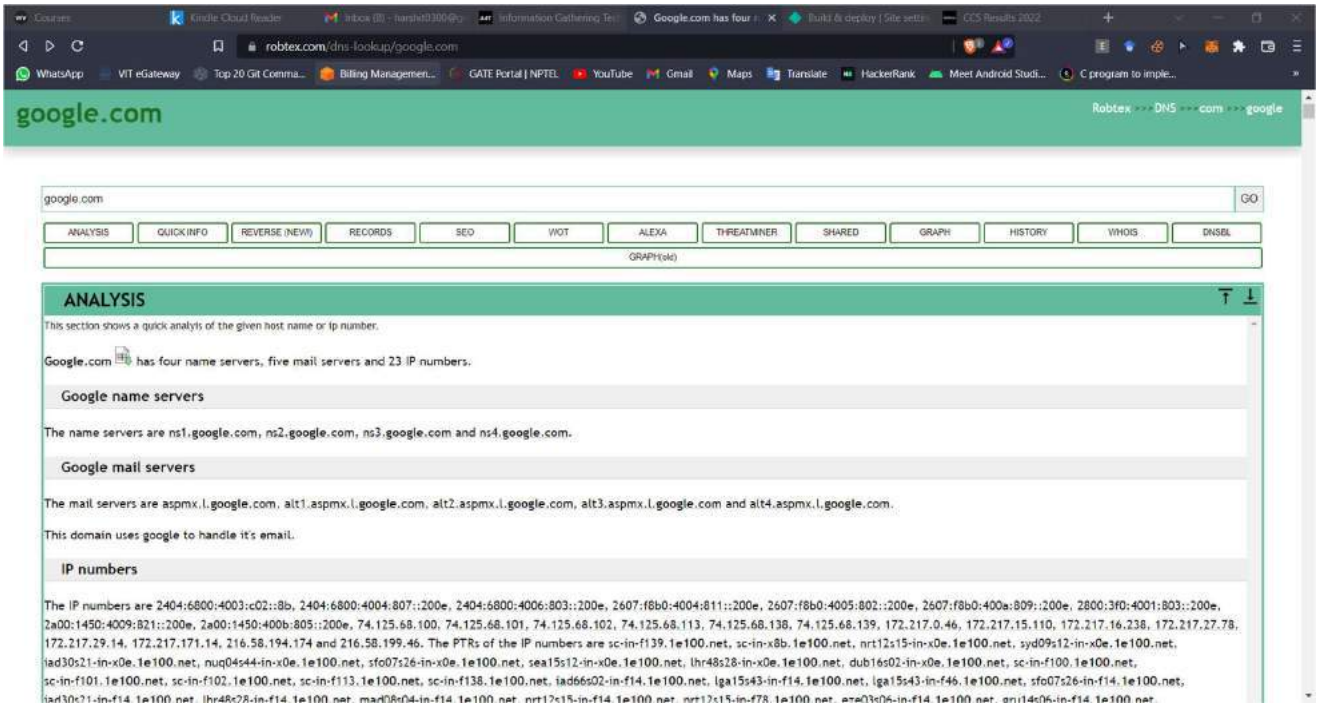
Netcraft


sitereport.netcraft.com/?url=https%3A%2F%2Fvit.ac.in%2F
NETCRAFT
Services
Solutions
News
Company
Resources
Report Fraud
Request Trial
Site report for https://vit.ac.in
Look up another site?
Share:
Background
Site title
VIT | No.1 Private Institution for Innovation
Date first seen
June 2002
Site rank
91791
Netcraft Risk Rating
0/10
Description
Established in 1984, VIT is a No.1 Progressive Educational Institution & Top Ranking University in India. Its a dedicated to the pursuit of excellence...
Primary language
English
Network
Site
https://vit.ac.in
Domain
vit.ac.in
Netblock Owner
Reliance Jio Infocomm Limited
Nameserver
ns-389.awsdns-48.com
Hosting company
Reliance Industries
Domain registrar
registry.in
Hosting country
IN
Nameserver organisation
whois.markmonitor.com

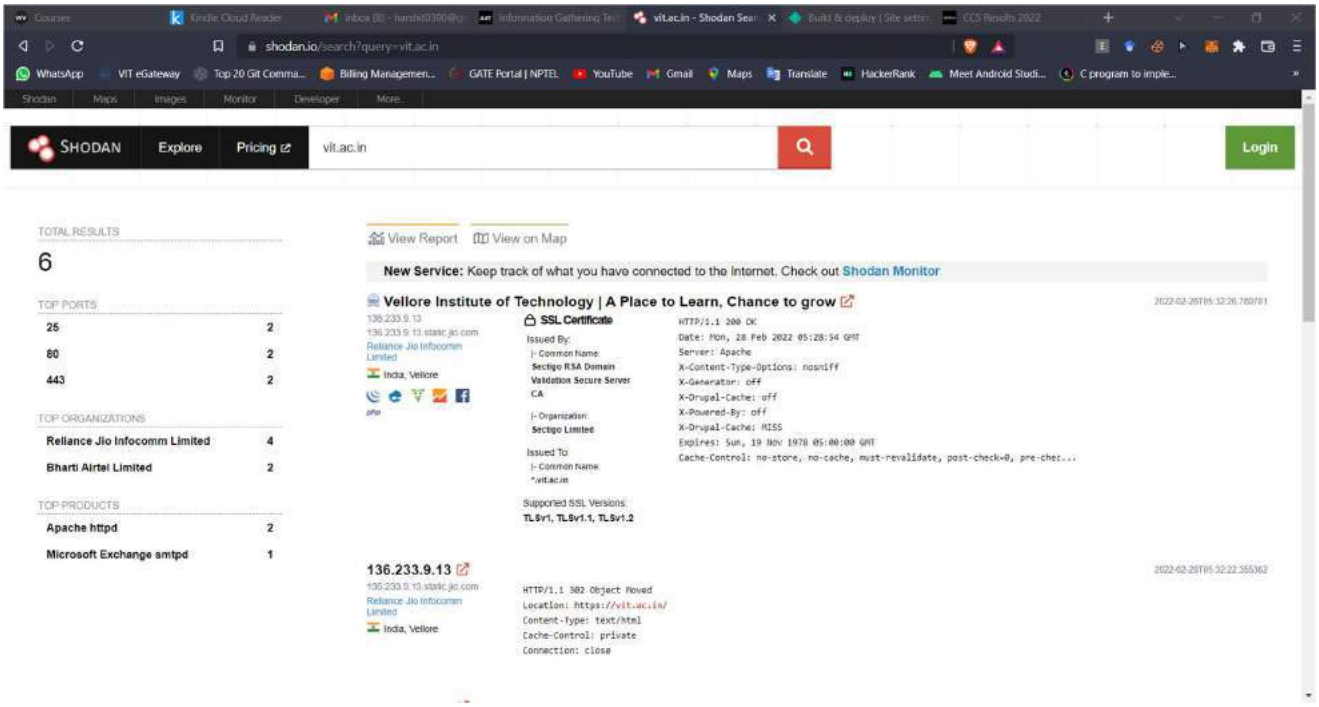

sitereport.netcraft.com/?url=https%3A%2F%2Fvit.ac.in%2F
NETCRAFT
Services
Solutions
News
Company
Resources
Report Fraud
Request Trial
Site
https://vit.ac.in
Domain
vit.ac.in
Netblock Owner
Reliance Jio Infocomm Limited
Nameserver
ns-389.awsdns-48.com
Hosting company
Reliance Industries
Domain registrar
registry.in
Hosting country
IN
Nameserver organisation
whois.markmonitor.com
IPv4 address
136.233.9.13 (VirusTotal)
Organisation
Redacted For Privacy, Redacted For Privacy, REDACTED FOR PRIVACY, India
IPv4 autonomous systems
AS55836
DNS admin
awsdns-hostmaster@amazon.com
IPv6 address
Not Present
Top Level Domain
India (.ac.in)
IPv6 autonomous systems
Not Present
DNS Security Extensions
unknown
Reverse DNS
136.233.9.13.static.jio.com
IP delegation
IPv4 address (136.233.9.13)
IP range
Country
Name
Description
0.0.0.0-255.255.255.255
N/A
IANA-BLK
The whole IPv4 address space
136.0.0.0-136.255.255.255
United States
NET136
Various Registries (Maintained by ARIN)
136.232.0.0-136.233.255.255
India
RELIANCEJIO-IN
Reliance Jio Infocomm Limited
136.233.9.13
India
RELIANCEJIO-IN
Reliance Jio Infocomm Limited


sitereport.netcraft.com/?url=https%3A%2F%2Fvit.ac.in%2F
NETCRAFT
Services
Solutions
News
Company
Resources
Report Fraud
Request Trial
SSL/TLS
Assurance
Domain validation
Common name
*.vit.ac.in
Organisation
Not Present
State
Not Present
Country
Not Present
Organisational unit
Not Present
Subject Alternative Name
*.vit.ac.in, vit.ac.in
Validity period
From Aug 10 2020 to Aug 10 2022 (24 months)
Matches hostname
Yes
Server
Apache
Public key algorithm
rsaEncryption
Protocol version
TLSv1.2
Public key length
2048
Certificate check
ok
Perfect Forward Secrecy
No
Supported TLS Extensions
RFC5746 renegotiation info, RFC5077 session ticket
Application-Layer Protocol Negotiation
Not Present
Next Protocol Negotiation
Not Present
Issuing organisation
Sectigo Limited
Issuer common name
Sectigo RSA Domain Validation Secure Server CA
Issuer unit
Not Present
Issuer location
Salford
Issuer country
GB
Issuer state
Greater Manchester
Certificate Revocation Lists
Not Present
Certificate Hash
PWwdGqI+tijr88W2lwmx+Dklv6g
Public Key Hash
9a0cba5e248da709567dee5d2ec2865b2fc9d80ee828835c367338caacbc8e76
OCSP servers
http://ocsp.sectigo.com - 100% uptime in the past 24 hours
Performance Graph
ENG
IN
5:22 PM
2/27/2022

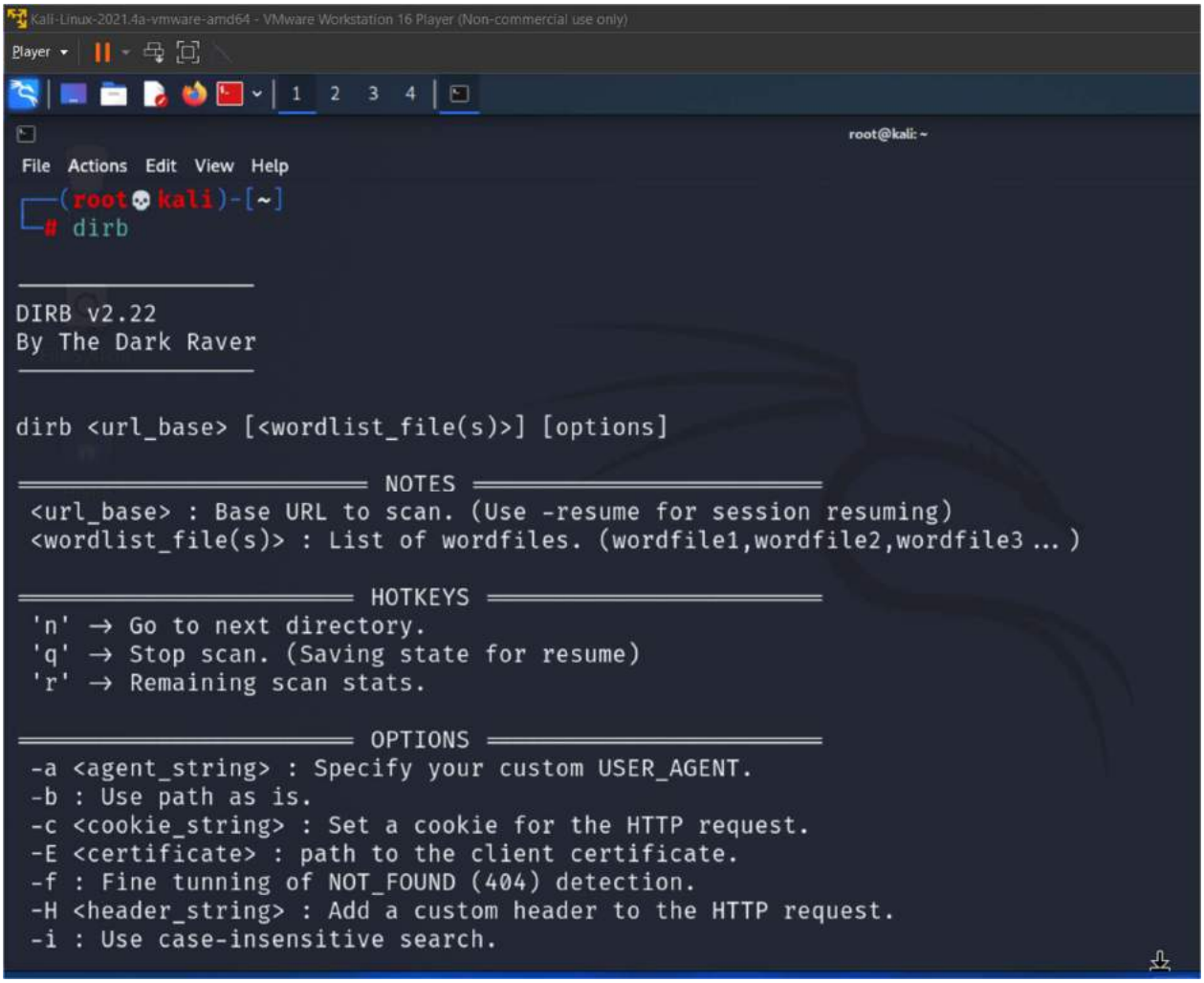
Robtex

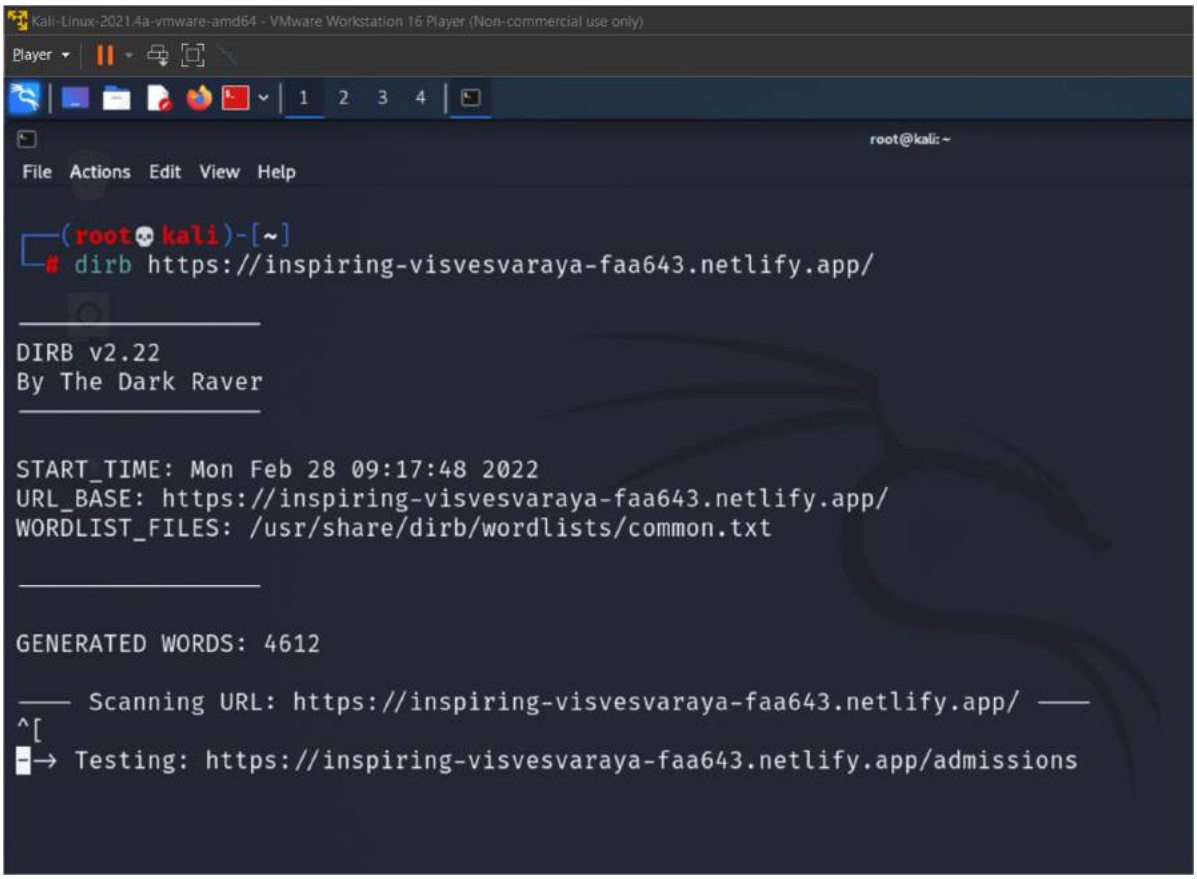

robtex.com/dns-lookup/google.com
google.com
Robtex >>> DNS >>> com >>> google
google.com
GO
ANALYSIS
QUICK INFO
REVERSE (NEW!)
RECORDS
SEO
WOT
ALEXA
THREATMINER
SHARED
GRAPH
HISTORY
WHOIS
DNSBL
GRAPH(old)
ANALYSIS
This section shows a quick analysis of the given host name or ip number.
Google.com has four name servers, five mail servers and 23 IP numbers.
Google name servers
The name servers are ns1.google.com, ns2.google.com, ns3.google.com and ns4.google.com.
Google mail servers
The mail servers are aspmx.l.google.com, alt1.aspmx.l.google.com, alt2.aspmx.l.google.com, alt3.aspmx.l.google.com and alt4.aspmx.l.google.com.
This domain uses google to handle it's email.
IP numbers
The IP numbers are 2404:6800:4003:c02::8b, 2404:6800:4004:807::200e, 2404:6800:4006:803::200e, 2607:f8b0:4004:811::200e, 2607:f8b0:4005:802::200e, 2607:f8b0:400a:809::200e, 2800:3f0:4001:803::200e, 2a00:1450:4009:821::200e, 2a00:1450:400b:805::200e, 74.125.68.100, 74.125.68.101, 74.125.68.102, 74.125.68.113, 74.125.68.138, 74.125.68.139, 172.217.0.46, 172.217.15.110, 172.217.16.238, 172.217.27.78, 172.217.29.14, 172.217.171.14, 216.58.194.174 and 216.58.199.46. The PTRs of the IP numbers are sc-in-f139.1e100.net, sc-in-x8b.1e100.net, nrt12s15-in-x0e.1e100.net, syd09s12-in-x0e.1e100.net, iad30s21-in-x0e.1e100.net, nuq04s44-in-x0e.1e100.net, sfo07s26-in-x0e.1e100.net, sea15s12-in-x0e.1e100.net, lhr48s28-in-x0e.1e100.net, dub16s02-in-x0e.1e100.net, sc-in-f100.1e100.net, sc-in-f101.1e100.net, sc-in-f102.1e100.net, sc-in-f113.1e100.net, sc-in-f138.1e100.net, tad66s02-in-f14.1e100.net, lga15s43-in-f14.1e100.net, lga15s43-in-f46.1e100.net, sfo07s26-in-f14.1e100.net,

Shodan

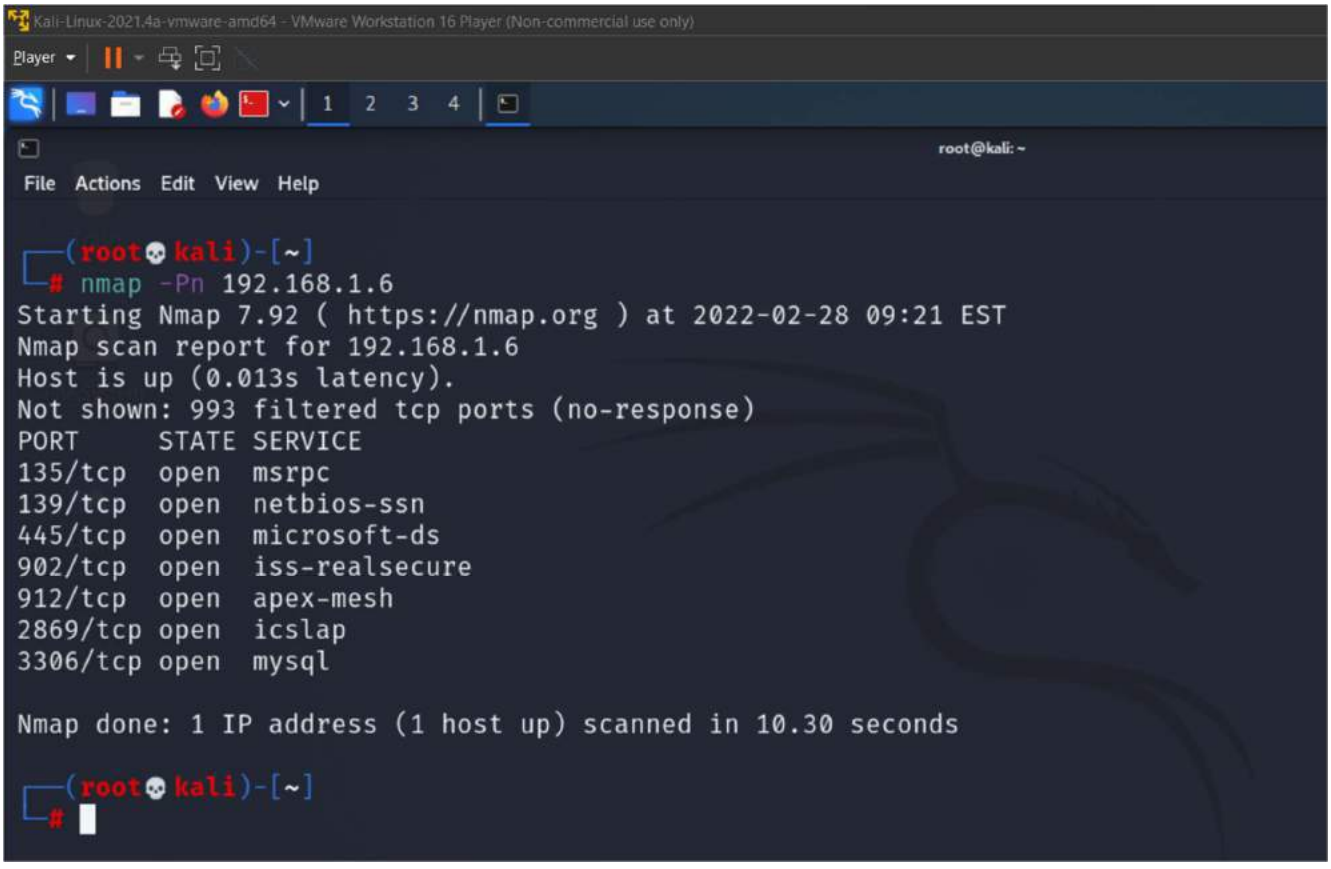

shodan.io/search?query=vit.ac.in
SHODAN
Explore
Pricing
vit.ac.in
Login
TOTAL RESULTS
6
TOP PORTS
25 2
80 2
443 2
TOP ORGANIZATIONS
Reliance Jio Infocomm Limited 4
Bharti Airtel Limited 2
TOP PRODUCTS
Apache httpd 2
Microsoft Exchange smtpd 1
View Report
View on Map
New Service: Keep track of what you have connected to the Internet. Check out Shodan Monitor
Vellore Institute of Technology | A Place to Learn, Chance to grow
136.233.9.13
SSL Certificate
India, Vellore
HTTP/1.1 200 OK
Date: Mon, 28 Feb 2022 05:28:54 GMT
Server: Apache
X-Content-Type-Options: nosniff
X-Generator: Drupal 7 (http://drupal.org)
X-Drupal-Cache: HIT
X-Powered-By: PHP/5.6.40
X-Drupal-Cache: MISS
Expires: Sun, 19 Nov 1978 05:00:00 GMT
Cache-Control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0
136.233.9.13
India, Vellore
HTTP/1.1 302 Object Moved
Location: https://vit.ac.in/
Content-Type: text/html
Cache-Control: private
Connection: close

Dirb


Kali-Linux-2021.4a-vmware-amd64 - VMware Workstation 16 Player (Non-commercial use only)
Player
root@kali: ~
File Actions Edit View Help
(root kali)-[~]
# dirb
DIRB v2.22
By The Dark Raver
dirb <url_base> [<wordlist_file(s)>] [options]
NOTES
<url_base> : Base URL to scan. (Use -resume for session resuming)
<wordlist_file(s)> : List of wordfiles. (wordfile1,wordfile2,wordfile3 ... )
HOTKEYS
'n' → Go to next directory.
'q' → Stop scan. (Saving state for resume)
'r' → Remaining scan stats.
OPTIONS
-a <agent_string> : Specify your custom USER_AGENT.
-b : Use path as is.
-c <cookie_string> : Set a cookie for the HTTP request.
-E <certificate> : path to the client certificate.
-f : Fine tunning of NOT_FOUND (404) detection.
-H <header_string> : Add a custom header to the HTTP request.
-i : Use case-insensitive search.

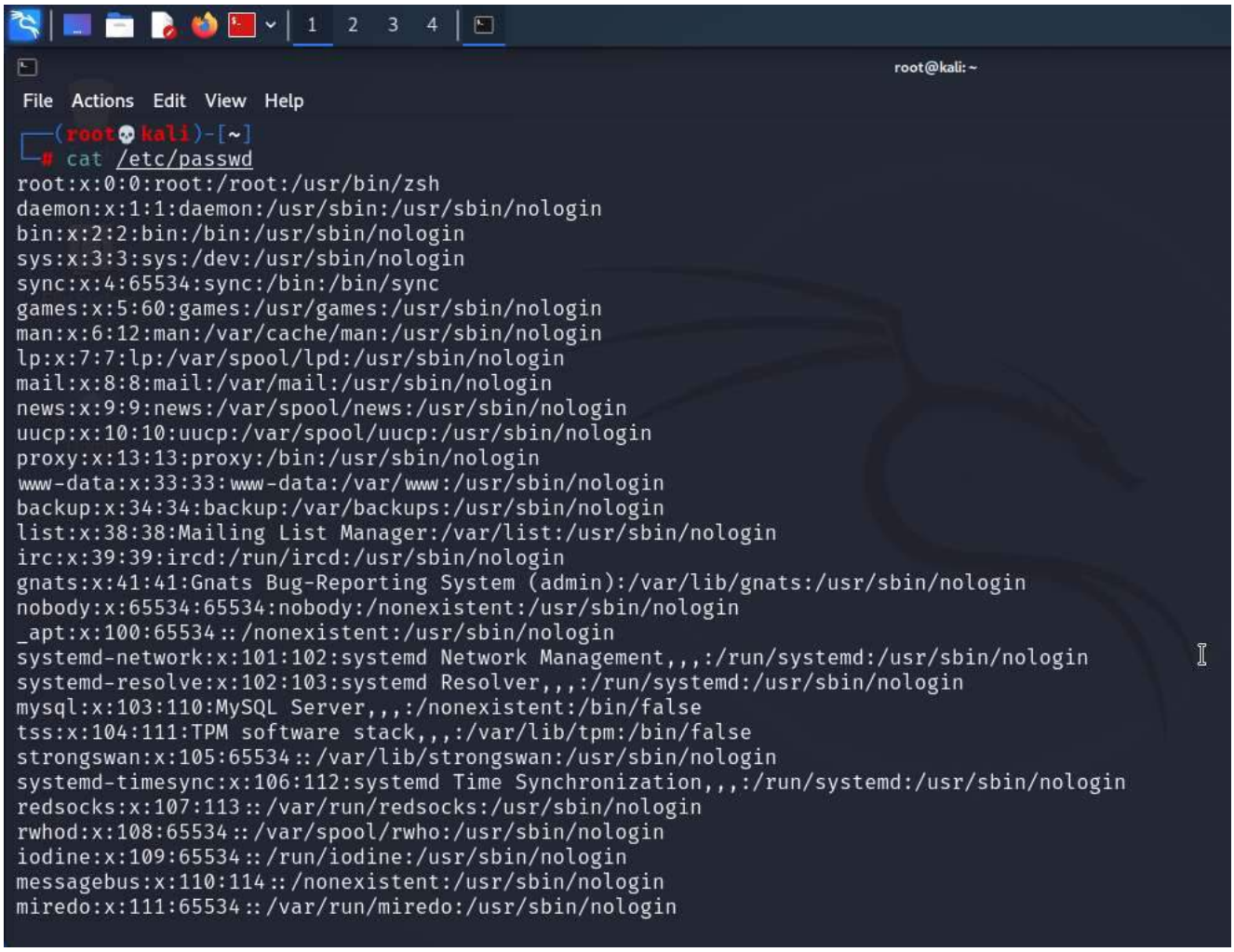

Kali-Linux-2021.4a-vmware-amd64 - VMware Workstation 16 Player (Non-commercial use only)
Player
1 2 3 4
root@kali: ~
File Actions Edit View Help
(root kali)-[~]
# dirb https://inspiring-visvesvaraya-faa643.netlify.app/
DIRB v2.22
By The Dark Raver
START_TIME: Mon Feb 28 09:17:48 2022
URL_BASE: https://inspiring-visvesvaraya-faa643.netlify.app/
WORDLIST_FILES: /usr/share/dirb/wordlists/common.txt
GENERATED WORDS: 4612
---- Scanning URL: https://inspiring-visvesvaraya-faa643.netlify.app/ ----
^[
--> Testing: https://inspiring-visvesvaraya-faa643.netlify.app/admissions

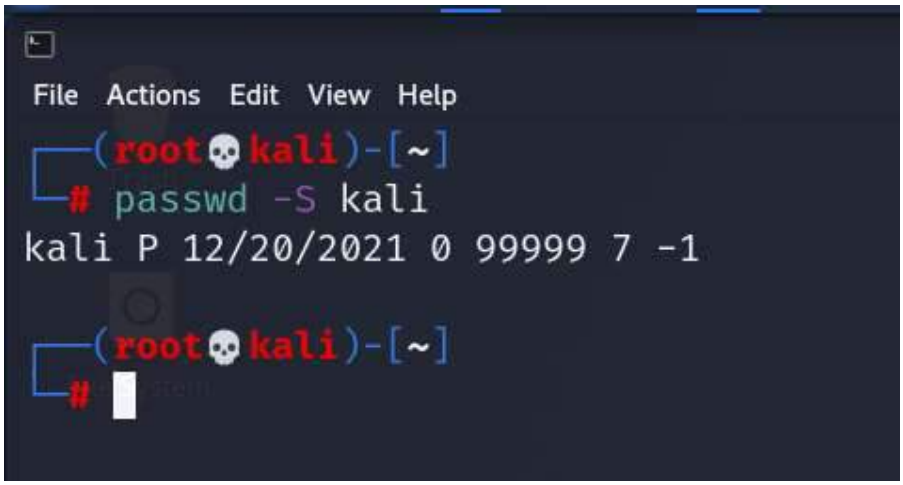
NMAP


Kali-Linux-2021.4a-vmware-amd64 - VMware Workstation 16 Player (Non-commercial use only)
Player
1 2 3 4
root@kali: ~
File Actions Edit View Help
(root kali)-[~]
# nmap -Pn 192.168.1.6
Starting Nmap 7.92 ( https://nmap.org ) at 2022-02-28 09:21 EST
Nmap scan report for 192.168.1.6
Host is up (0.013s latency).
Not shown: 993 filtered tcp ports (no-response)
PORT STATE SERVICE
135/tcp open msrpc
139/tcp open netbios-ssn
445/tcp open microsoft-ds
902/tcp open iss-realsecure
912/tcp open apex-mesh
2869/tcp open icslap
3306/tcp open mysql
Nmap done: 1 IP address (1 host up) scanned in 10.30 seconds
(root kali)-[~]
#

## 3. Incident Response Linux

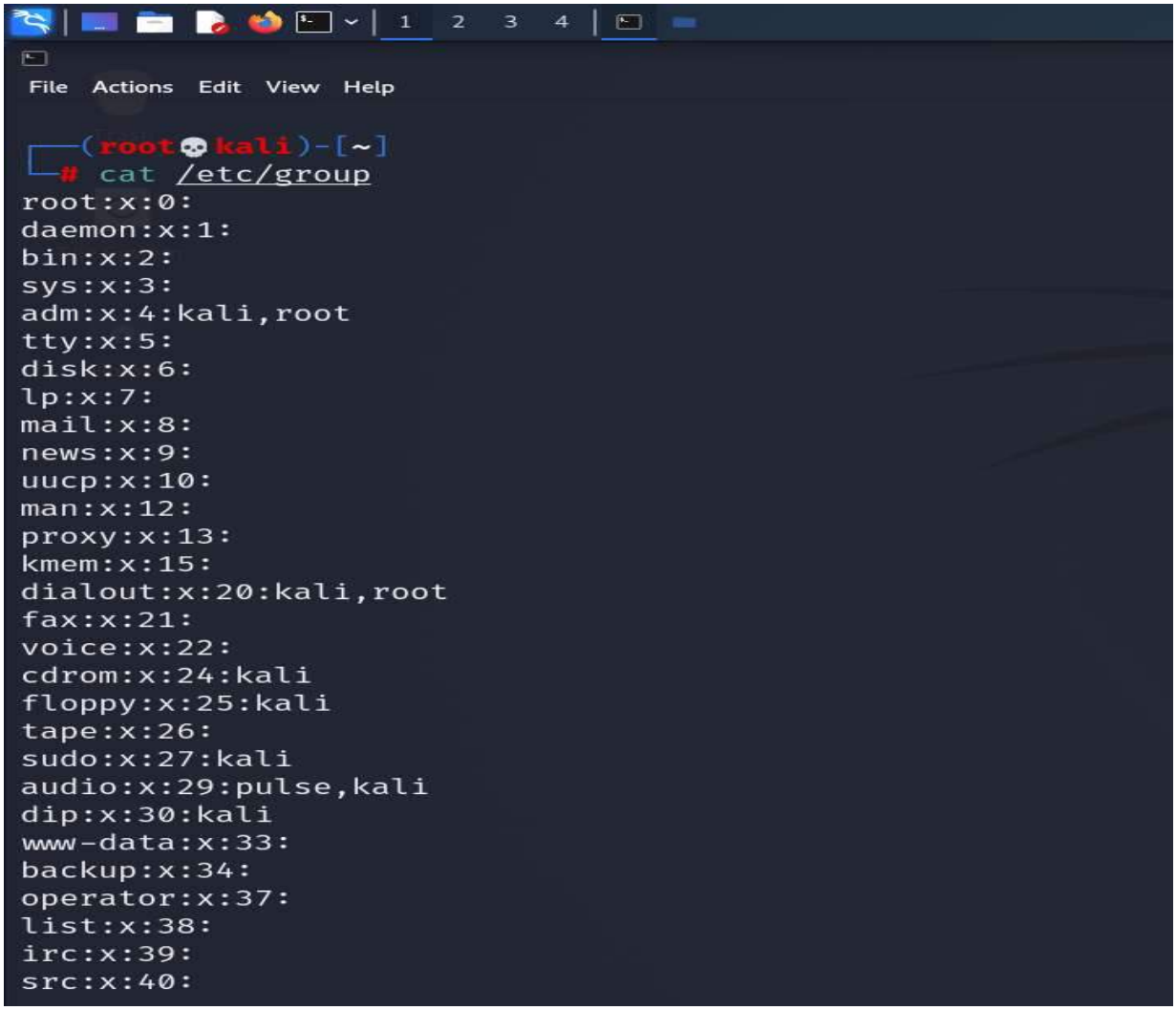
USER ACCOUNTS

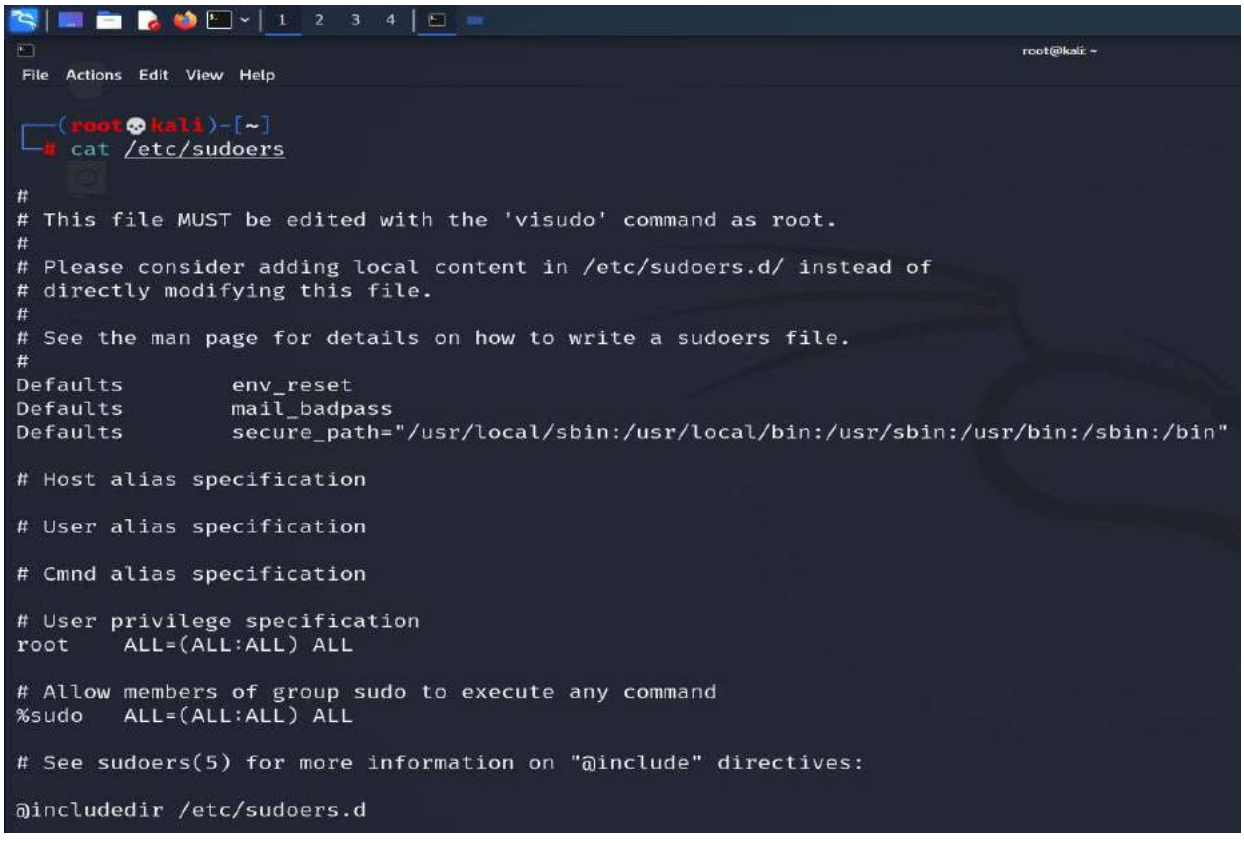


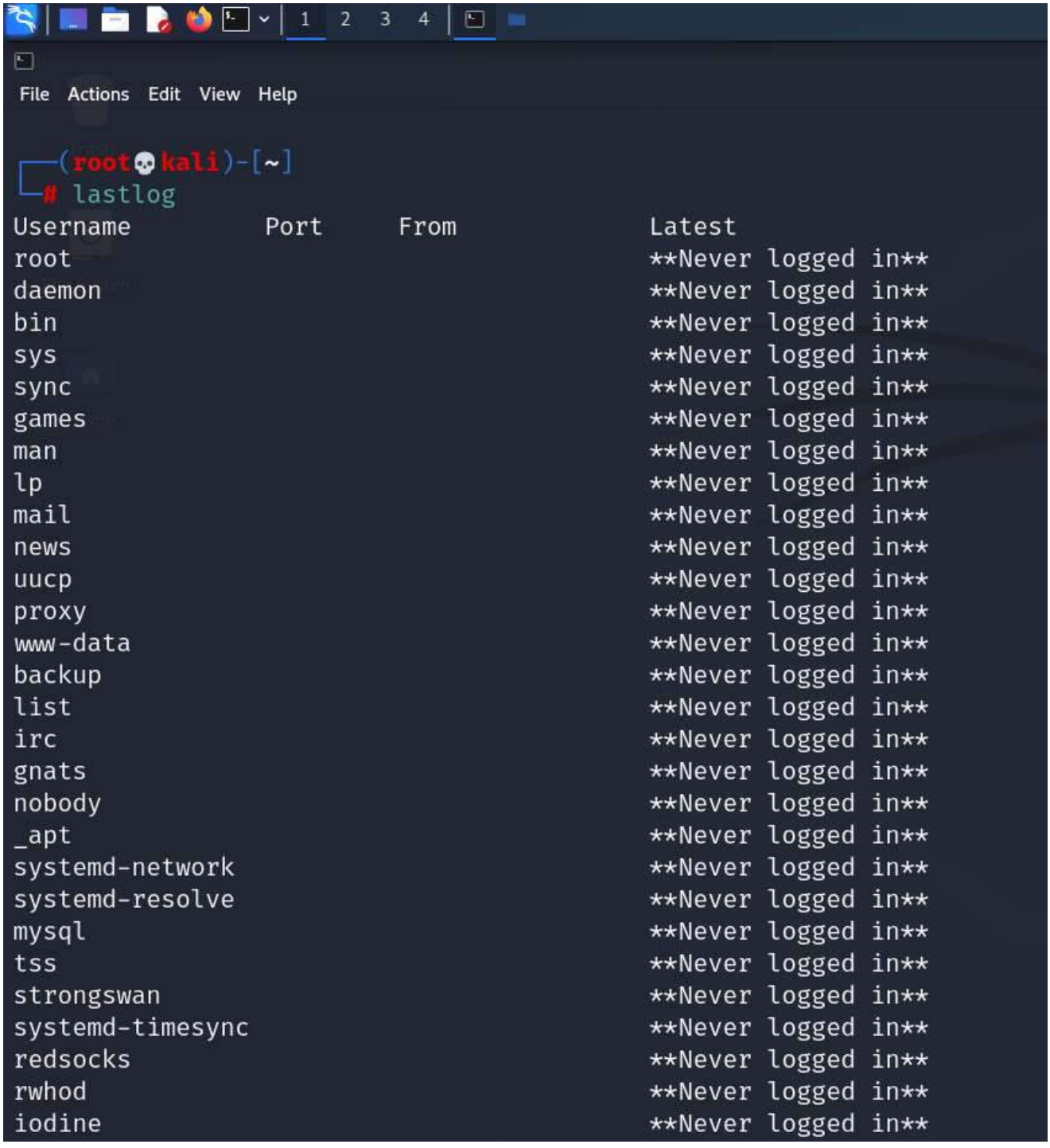
```
┌──(root💀kali)-[~]
└─# grep :0: /etc/passwd
root:x:0:0:root:/root:/usr/bin/zsh

┌──(root💀kali)-[~]
└─# find / -nouser -print
find: ‘/proc/1956/task/1956/fd/5’: No such file or directory
find: ‘/proc/1956/task/1956/fdinfo/5’: No such file or directory
find: ‘/proc/1956/fd/6’: No such file or directory
find: ‘/proc/1956/fdinfo/6’: No such file or directory
find: ‘/run/user/1000/gvfs’: Permission denied
```

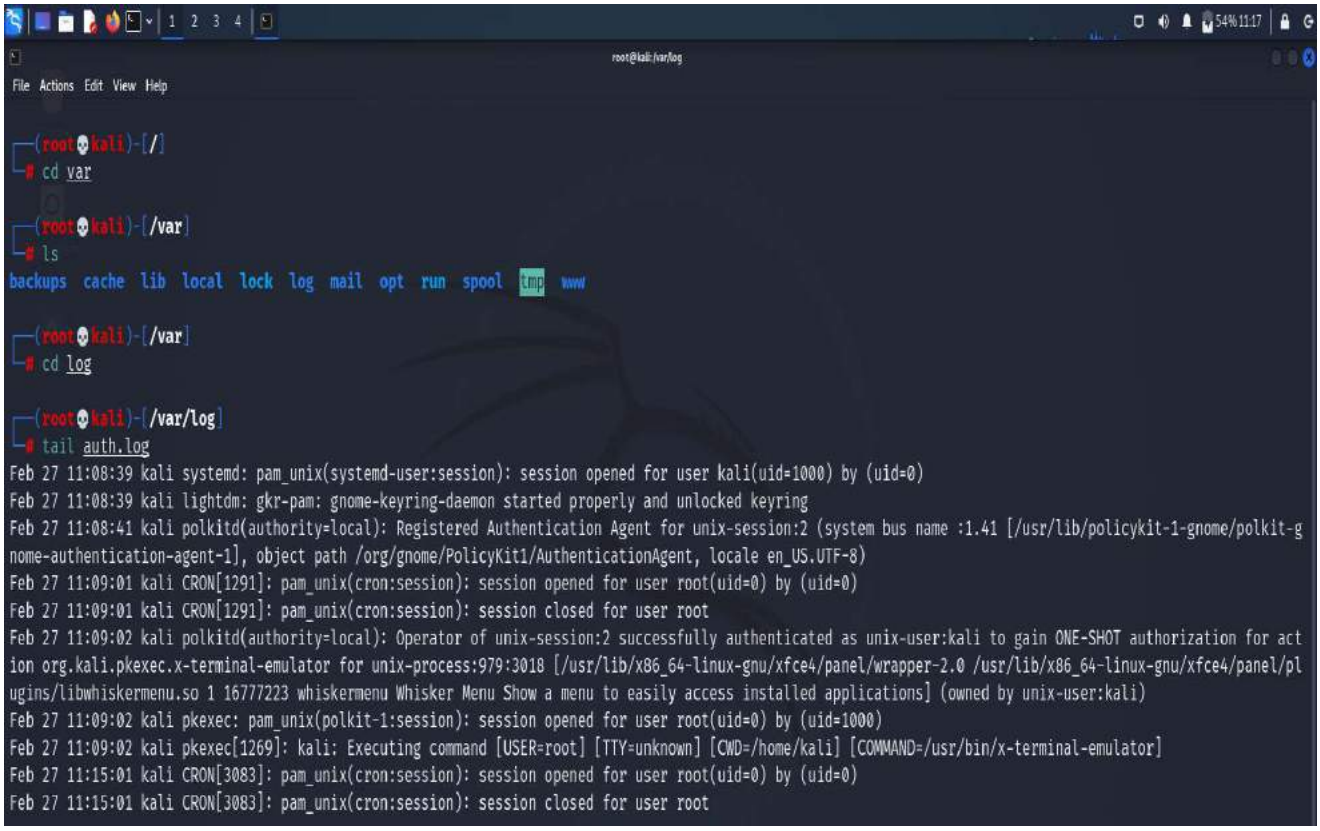
```
File  Actions  Edit  View  Help

┌──(root💀kali)-[~]
└─# cat /etc/shadow
root:!:18981:0:99999:7:::
daemon:*:18981:0:99999:7:::
bin:*:18981:0:99999:7:::
sys:*:18981:0:99999:7:::
sync:*:18981:0:99999:7:::
games:*:18981:0:99999:7:::
man:*:18981:0:99999:7:::
lp:*:18981:0:99999:7:::
mail:*:18981:0:99999:7:::
news:*:18981:0:99999:7:::
uucp:*:18981:0:99999:7:::
proxy:*:18981:0:99999:7:::
www-data:*:18981:0:99999:7:::
backup:*:18981:0:99999:7:::
list:*:18981:0:99999:7:::
irc:*:18981:0:99999:7:::
gnats:*:18981:0:99999:7:::
nobody:*:18981:0:99999:7:::
_apt:*:18981:0:99999:7:::
systemd-network:*:18981:0:99999:7:::
systemd-resolve:*:18981:0:99999:7:::
mysql:!:18981:0:99999:7:::
tss:*:18981:0:99999:7:::
strongswan:*:18981:0:99999:7:::
systemd-timesync:*:18981:0:99999:7:::
redsocks:!:18981:0:99999:7:::
rwhod:*:18981:0:99999:7:::
iodine:*:18981:0:99999:7:::
messagebus:*:18981:0:99999:7:::
```

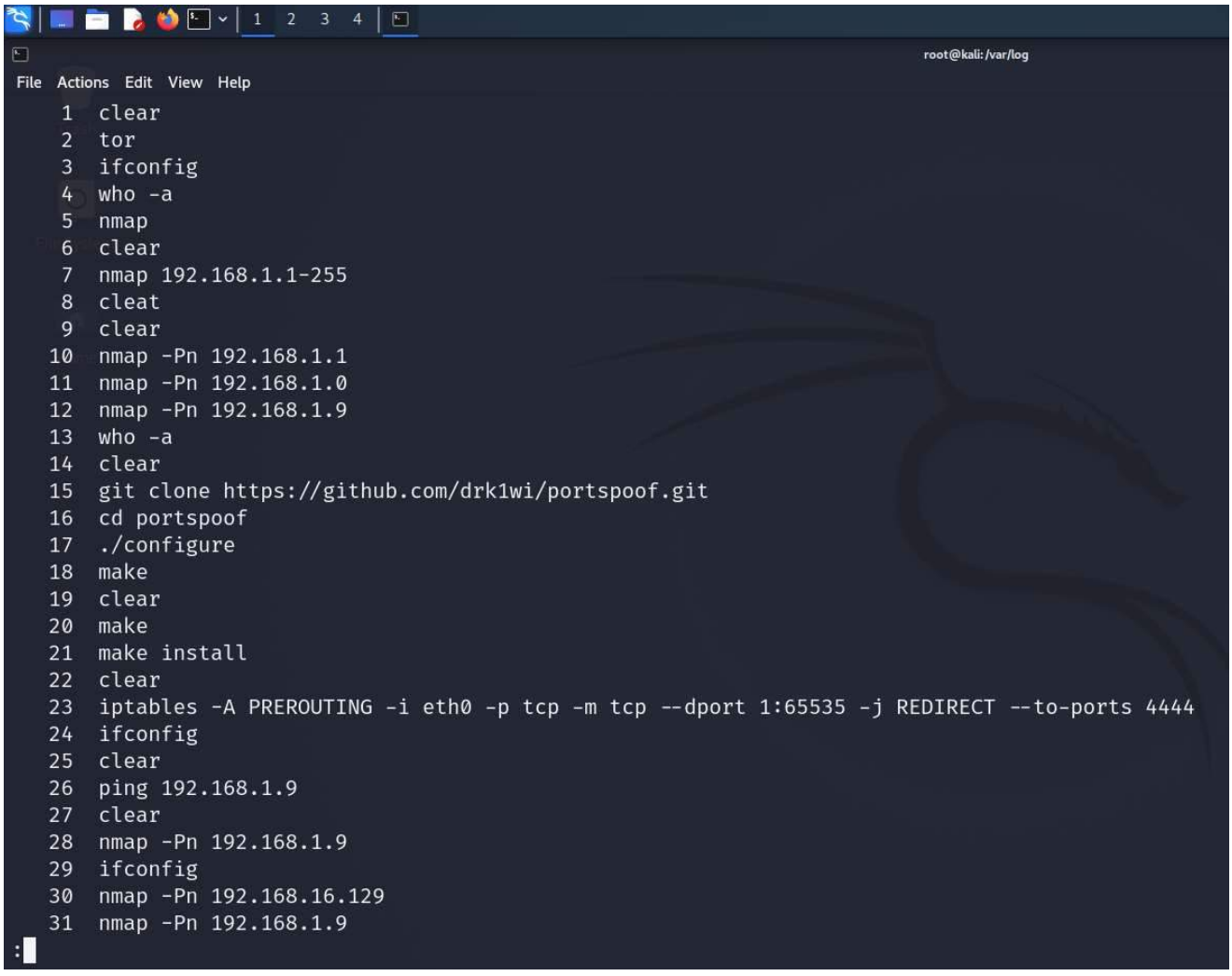

1 2 3 4
File Actions Edit View Help
(root kali)-[~]
# cat /etc/group
root:x:0:
daemon:x:1:
bin:x:2:
sys:x:3:
adm:x:4:kali,root
tty:x:5:
disk:x:6:
lp:x:7:
mail:x:8:
news:x:9:
uucp:x:10:
man:x:12:
proxy:x:13:
kmem:x:15:
dialout:x:20:kali,root
fax:x:21:
voice:x:22:
cdrom:x:24:kali
floppy:x:25:kali
tape:x:26:
sudo:x:27:kali
audio:x:29:pulse,kali
dip:x:30:kali
www-data:x:33:
backup:x:34:
operator:x:37:
list:x:38:
irc:x:39:
src:x:40:


1 2 3 4
root@kali: ~
File Actions Edit View Help
(root kali)-[~]
# cat /etc/sudoers
#
# This file MUST be edited with the 'visudo' command as root.
#
# Please consider adding local content in /etc/sudoers.d/ instead of
# directly modifying this file.
#
# See the man page for details on how to write a sudoers file.
#
Defaults env_reset
Defaults mail_badpass
Defaults secure_path="/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin"
# Host alias specification
# User alias specification
# Cmnd alias specification
# User privilege specification
root ALL=(ALL:ALL) ALL
# Allow members of group sudo to execute any command
%sudo ALL=(ALL:ALL) ALL
# See sudoers(5) for more information on "@include" directives:
@includedir /etc/sudoers.d

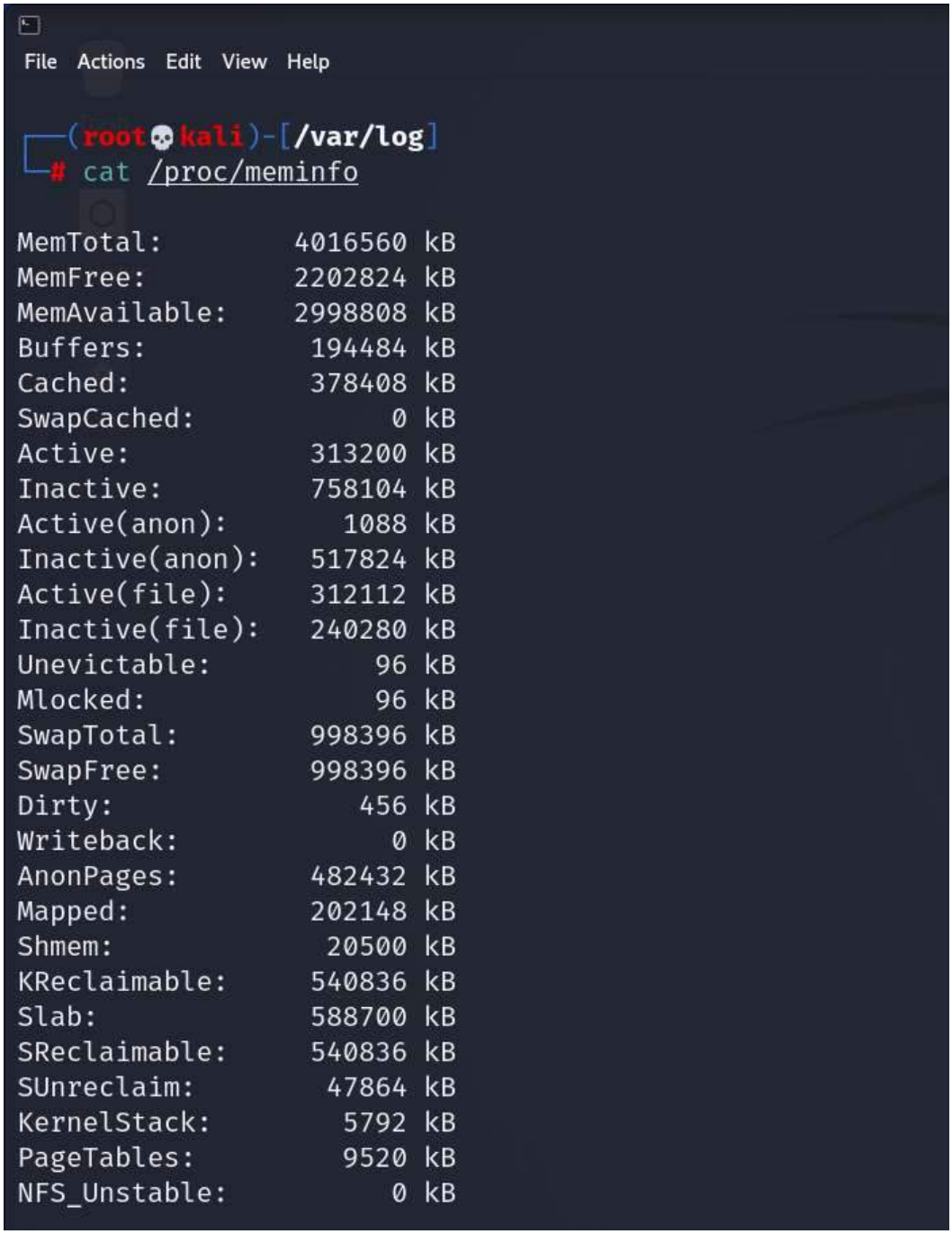
LOG ENTRIES


1 2 3 4
File Actions Edit View Help
(root kali)-[~]
# lastlog
Username Port From Latest
root **Never logged in**
daemon **Never logged in**
bin **Never logged in**
sys **Never logged in**
sync **Never logged in**
games **Never logged in**
man **Never logged in**
lp **Never logged in**
mail **Never logged in**
news **Never logged in**
uucp **Never logged in**
proxy **Never logged in**
www-data **Never logged in**
backup **Never logged in**
list **Never logged in**
irc **Never logged in**
gnats **Never logged in**
nobody **Never logged in**
_apt **Never logged in**
systemd-network **Never logged in**
systemd-resolve **Never logged in**
mysql **Never logged in**
tss **Never logged in**
strongswan **Never logged in**
systemd-timesync **Never logged in**
redsocks **Never logged in**
rwhod **Never logged in**
iodine **Never logged in**


root@kali:/var/log
File Actions Edit View Help
(root kali)-[/]
# cd var
(root kali)-[/var]
# ls
backups cache lib local lock log mail opt run spool tmp www
(root kali)-[/var]
# cd log
(root kali)-[/var/log]
# tail auth.log
Feb 27 11:08:39 kali systemd: pam_unix(systemd-user:session): session opened for user kali(uid=1000) by (uid=0)
Feb 27 11:08:39 kali lightdm: gkr-pam: gnome-keyring-daemon started properly and unlocked keyring
Feb 27 11:08:41 kali polkitd(authority=local): Registered Authentication Agent for unix-session:2 (system bus name :1.41 [/usr/lib/policykit-1-gnome/polkit-gnome-authentication-agent-1], object path /org/gnome/PolicyKit1/AuthenticationAgent, locale en_US.UTF-8)
Feb 27 11:09:01 kali CRON[1291]: pam_unix(cron:session): session opened for user root(uid=0) by (uid=0)
Feb 27 11:09:01 kali CRON[1291]: pam_unix(cron:session): session closed for user root
Feb 27 11:09:02 kali polkitd(authority=local): Operator of unix-session:2 successfully authenticated as unix-user:kali to gain ONE-SHOT authorization for action org.kali.pkexec.x-terminal-emulator for unix-process:979:3018 [/usr/lib/x86_64-linux-gnu/xfce4/panel/wrapper-2.0 /usr/lib/x86_64-linux-gnu/xfce4/panel/plugins/libwhiskermenu.so 1 16777223 whiskermenu Whisker Menu Show a menu to easily access installed applications] (owned by unix-user:kali)
Feb 27 11:09:02 kali pkexec: pam_unix(polkit-1:session): session opened for user root(uid=0) by (uid=1000)
Feb 27 11:09:02 kali pkexec[1269]: kali: Executing command [USER=root] [TTY=unknown] [CWD=/home/kali] [COMMAND=/usr/bin/x-terminal-emulator]
Feb 27 11:15:01 kali CRON[3083]: pam_unix(cron:session): session opened for user root(uid=0) by (uid=0)
Feb 27 11:15:01 kali CRON[3083]: pam_unix(cron:session): session closed for user root


root@kali: /var/log
File Actions Edit View Help
1 clear
2 tor
3 ifconfig
4 who -a
5 nmap
6 clear
7 nmap 192.168.1.1-255
8 cleat
9 clear
10 nmap -Pn 192.168.1.1
11 nmap -Pn 192.168.1.0
12 nmap -Pn 192.168.1.9
13 who -a
14 clear
15 git clone https://github.com/drk1wi/portspoof.git
16 cd portspoof
17 ./configure
18 make
19 clear
20 make
21 make install
22 clear
23 iptables -A PREROUTING -i eth0 -p tcp -m tcp --dport 1:65535 -j REDIRECT --to-ports 4444
24 ifconfig
25 clear
26 ping 192.168.1.9
27 clear
28 nmap -Pn 192.168.1.9
29 ifconfig
30 nmap -Pn 192.168.16.129
31 nmap -Pn 192.168.1.9
:

SYSTEM RESOURCES

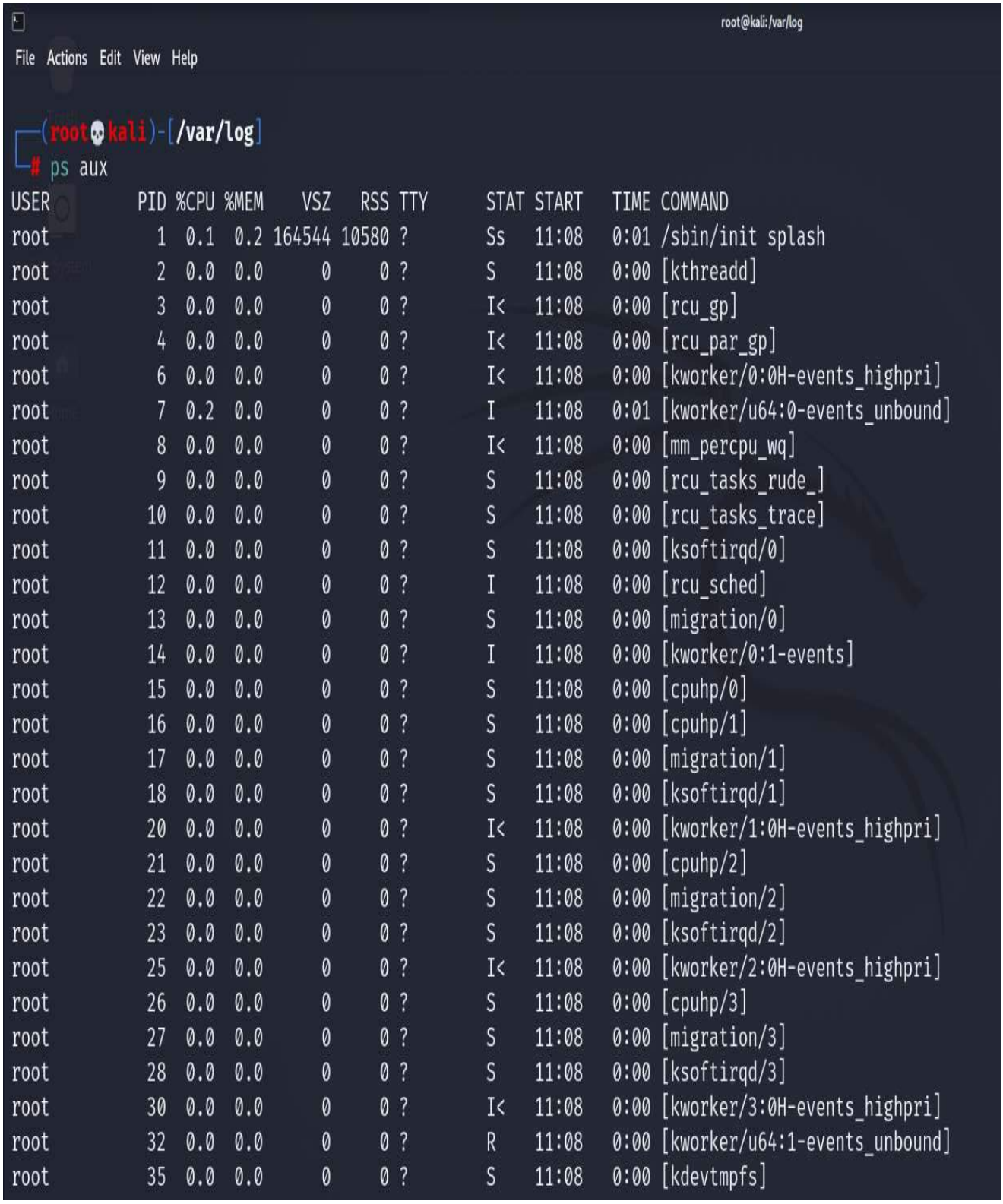



```
File  Actions  Edit  View  Help
┌──(root💀kali)-[/var/log]
└─# cat /proc/mounts

sysfs /sys sysfs rw,nosuid,nodev,noexec,relatime 0 0
proc /proc proc rw,nosuid,nodev,noexec,relatime 0 0
udev /dev devtmpfs rw,nosuid,relatime,size=1965976k,nr_inodes=491494,mode=755,inode64 0 0
devpts /dev/pts devpts rw,nosuid,noexec,relatime,gid=5,mode=620,ptmxmode=000 0 0
tmpfs /run tmpfs rw,nosuid,nodev,noexec,relatime,size=401656k,mode=755,inode64 0 0
/dev/sda1 / ext4 rw,relatime,errors=remount-ro 0 0
securityfs /sys/kernel/security securityfs rw,nosuid,nodev,noexec,relatime 0 0
tmpfs /dev/shm tmpfs rw,nosuid,nodev,inode64 0 0
tmpfs /run/lock tmpfs rw,nosuid,nodev,noexec,relatime,size=5120k,inode64 0 0
cgroup2 /sys/fs/cgroup cgroup2 rw,nosuid,nodev,noexec,relatime,nsdelegate,memory_recursiveprot 0 0
pstore /sys/fs/pstore pstore rw,nosuid,nodev,noexec,relatime 0 0
none /sys/fs/bpf bpf rw,nosuid,nodev,noexec,relatime,mode=700 0 0
systemd-1 /proc/sys/fs/binfmt_misc autofs rw,relatime,fd=29,pgrp=1,timeout=0,minproto=5,maxproto=5,direct,pipe_ino=10206 0 0
hugetlbfs /dev/hugepages hugetlbfs rw,relatime,pagesize=2M 0 0
mqueue /dev/mqueue mqueue rw,nosuid,nodev,noexec,relatime 0 0
debugfs /sys/kernel/debug debugfs rw,nosuid,nodev,noexec,relatime 0 0
tracefs /sys/kernel/tracing tracefs rw,nosuid,nodev,noexec,relatime 0 0
sunrpc /run/rpc_pipefs rpc_pipefs rw,relatime 0 0
configfs /sys/kernel/config configfs rw,nosuid,nodev,noexec,relatime 0 0
fusectl /sys/fs/fuse/connections fusectl rw,nosuid,nodev,noexec,relatime 0 0
none /run/credentials/systemd-sysusers.service ramfs ro,nosuid,nodev,noexec,relatime,mode=700 0 0
vmware-vmblock /run/vmblock-fuse fuse.vmware-vmblock rw,relatime,user_id=0,group_id=0,default_permissions,allow_other 0 0
binfmt_misc /proc/sys/fs/binfmt_misc binfmt_misc rw,nosuid,nodev,noexec,relatime 0 0
tmpfs /run/user/1000 tmpfs rw,nosuid,nodev,relatime,size=401656k,nr_inodes=100414,mode=700,uid=1000,gid=1000,inode64 0 0
gvfsd-fuse /run/user/1000/gvfs fuse.gvfsd-fuse rw,nosuid,nodev,relatime,user_id=1000,group_id=1000 0 0
tracefs /sys/kernel/debug/tracing tracefs rw,nosuid,nodev,noexec,relatime 0 0
```

PROCESSES

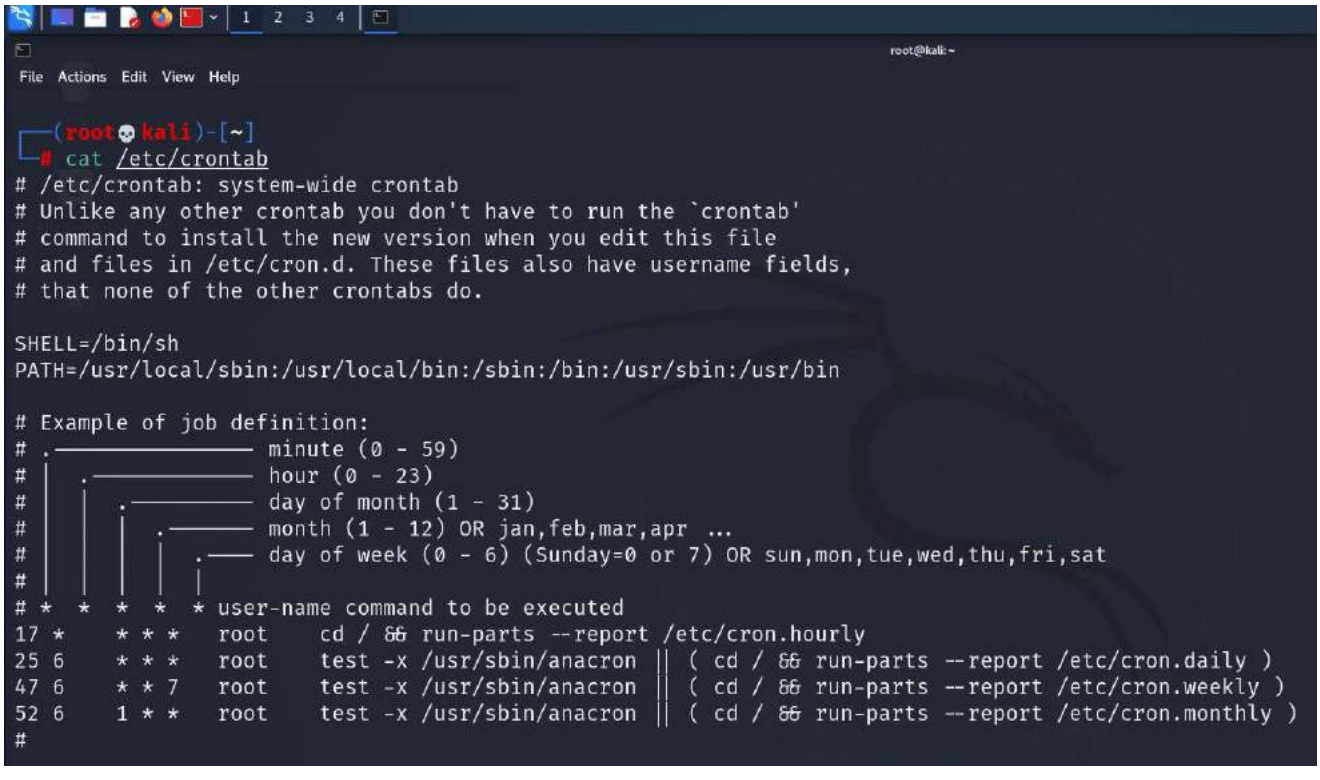
TOP:

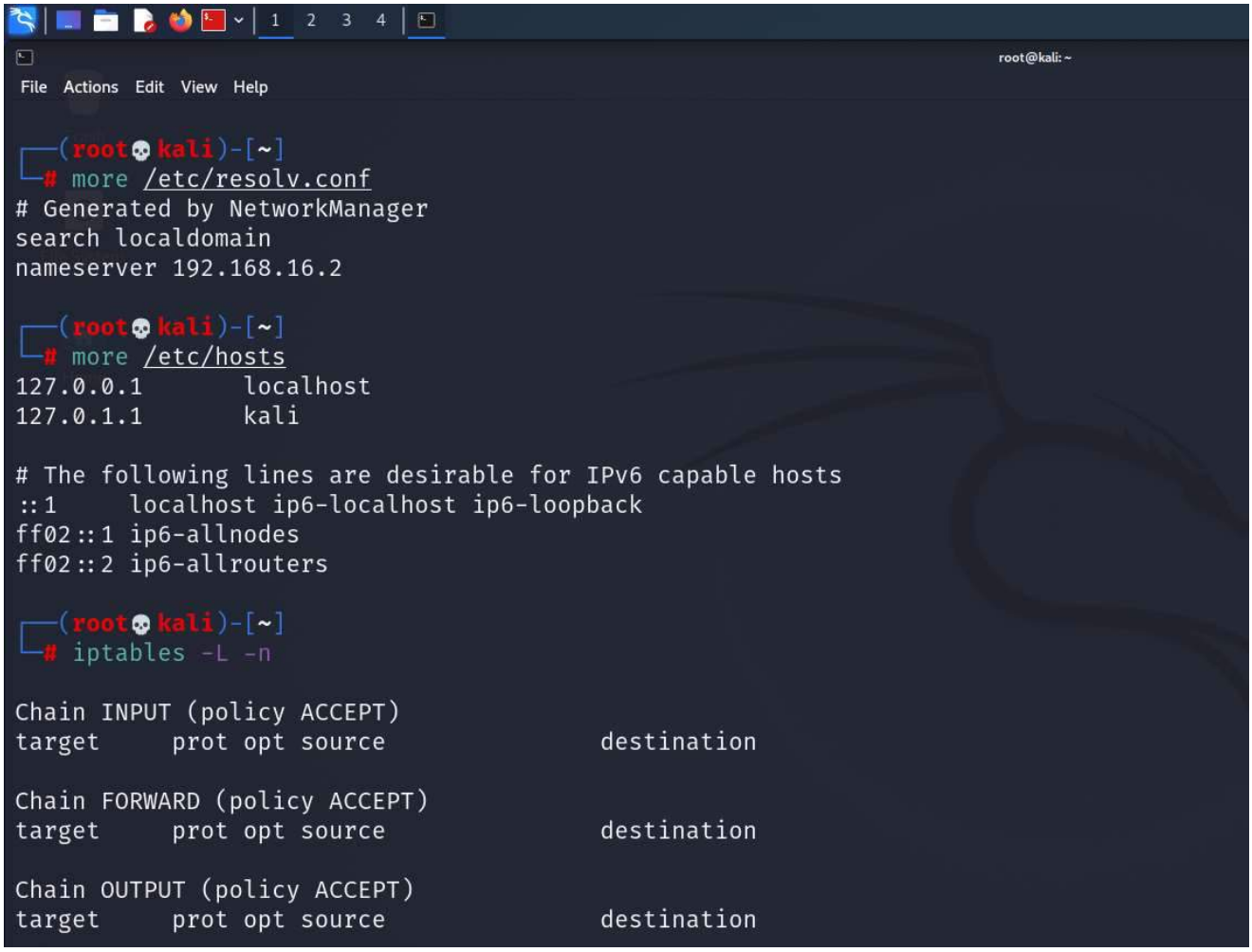
```
File  Actions  Edit  View  Help
top - 11:21:19 up 13 min,  1 user,  load average: 0.09, 0.11, 0.09
Tasks: 200 total,   1 running, 199 sleeping,   0 stopped,   0 zombie
%Cpu(s):  3.1 us,  1.0 sy,  0.0 ni, 95.1 id,  0.7 wa,  0.0 hi,  0.1 si,  0.0 st
MiB Mem :   3922.4 total,   2144.0 free,    688.6 used,   1089.8 buff/cache
MiB Swap:    975.0 total,    975.0 free,      0.0 used.   2922.7 avail Mem

    PID USER      PR  NI    VIRT    RES    SHR S  %CPU  %MEM     TIME+ COMMAND
    718 root      20   0  474548 152164  62076 S  11.3   3.8   0:23.95 Xorg
   4874 kali      20   0  469676  42124  32824 S   2.7   1.0   0:00.43 xfce4-screensho
    933 kali      20   0 1220616  94192  66584 S   2.0   2.3   0:05.46 xfwm4
    191 root     -51   0       0      0      0 S   0.3   0.0   0:00.35 irq/16-vmwgfx
    251 root      20   0       0      0      0 I   0.3   0.0   0:00.27 kworker/1:2-events
    980 kali      20   0  215308  32556  17432 S   0.3   0.8   0:02.52 panel-13-cpugra
   1070 kali      20   0  289836  40020  28820 S   0.3   1.0   0:01.40 vmtoolsd
   1269 root      20   0  411492  86032  68416 S   0.3   2.1   0:02.12 x-terminal-emul
      1 root      20   0  164544  10580   7788 S   0.0   0.3   0:01.09 systemd
      2 root      20   0       0      0      0 S   0.0   0.0   0:00.01 kthreadd
      3 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 rcu_gp
      4 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 rcu_par_gp
      6 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/0:0H-events_highpri
      7 root      20   0       0      0      0 I   0.0   0.0   0:01.93 kworker/u64:0-flush-8:0
      8 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 mm_percpu_wq
      9 root      20   0       0      0      0 S   0.0   0.0   0:00.00 rcu_tasks_rude_
     10 root      20   0       0      0      0 S   0.0   0.0   0:00.00 rcu_tasks_trace
     11 root      20   0       0      0      0 S   0.0   0.0   0:00.01 ksoftirqd/0
     12 root      20   0       0      0      0 I   0.0   0.0   0:00.28 rcu_sched
     13 root      rt   0       0      0      0 S   0.0   0.0   0:00.00 migration/0
     14 root      20   0       0      0      0 I   0.0   0.0   0:00.04 kworker/0:1-events
     15 root      20   0       0      0      0 S   0.0   0.0   0:00.00 cpuhp/0
     16 root      20   0       0      0      0 S   0.0   0.0   0:00.00 cpuhp/1
     17 root      rt   0       0      0      0 S   0.0   0.0   0:00.29 migration/1
     18 root      20   0       0      0      0 S   0.0   0.0   0:00.03 ksoftirqd/1
```


root@kali:/var/log
File Actions Edit View Help
(root kali)-[/var/log]
# ps aux
USER PID %CPU %MEM VSZ RSS TTY STAT START TIME COMMAND
root 1 0.1 0.2 164544 10580 ? Ss 11:08 0:01 /sbin/init splash
root 2 0.0 0.0 0 0 ? S 11:08 0:00 [kthreadd]
root 3 0.0 0.0 0 0 ? I< 11:08 0:00 [rcu_gp]
root 4 0.0 0.0 0 0 ? I< 11:08 0:00 [rcu_par_gp]
root 6 0.0 0.0 0 0 ? I< 11:08 0:00 [kworker/0:0H-events_highpri]
root 7 0.2 0.0 0 0 ? I 11:08 0:01 [kworker/u64:0-events_unbound]
root 8 0.0 0.0 0 0 ? I< 11:08 0:00 [mm_percpu_wq]
root 9 0.0 0.0 0 0 ? S 11:08 0:00 [rcu_tasks_rude_]
root 10 0.0 0.0 0 0 ? S 11:08 0:00 [rcu_tasks_trace]
root 11 0.0 0.0 0 0 ? S 11:08 0:00 [ksoftirqd/0]
root 12 0.0 0.0 0 0 ? I 11:08 0:00 [rcu_sched]
root 13 0.0 0.0 0 0 ? S 11:08 0:00 [migration/0]
root 14 0.0 0.0 0 0 ? I 11:08 0:00 [kworker/0:1-events]
root 15 0.0 0.0 0 0 ? S 11:08 0:00 [cpuhp/0]
root 16 0.0 0.0 0 0 ? S 11:08 0:00 [cpuhp/1]
root 17 0.0 0.0 0 0 ? S 11:08 0:00 [migration/1]
root 18 0.0 0.0 0 0 ? S 11:08 0:00 [ksoftirqd/1]
root 20 0.0 0.0 0 0 ? I< 11:08 0:00 [kworker/1:0H-events_highpri]
root 21 0.0 0.0 0 0 ? S 11:08 0:00 [cpuhp/2]
root 22 0.0 0.0 0 0 ? S 11:08 0:00 [migration/2]
root 23 0.0 0.0 0 0 ? S 11:08 0:00 [ksoftirqd/2]
root 25 0.0 0.0 0 0 ? I< 11:08 0:00 [kworker/2:0H-events_highpri]
root 26 0.0 0.0 0 0 ? S 11:08 0:00 [cpuhp/3]
root 27 0.0 0.0 0 0 ? S 11:08 0:00 [migration/3]
root 28 0.0 0.0 0 0 ? S 11:08 0:00 [ksoftirqd/3]
root 30 0.0 0.0 0 0 ? I< 11:08 0:00 [kworker/3:0H-events_highpri]
root 32 0.0 0.0 0 0 ? R 11:08 0:00 [kworker/u64:1-events_unbound]
root 35 0.0 0.0 0 0 ? S 11:08 0:00 [kdevtmpfs]

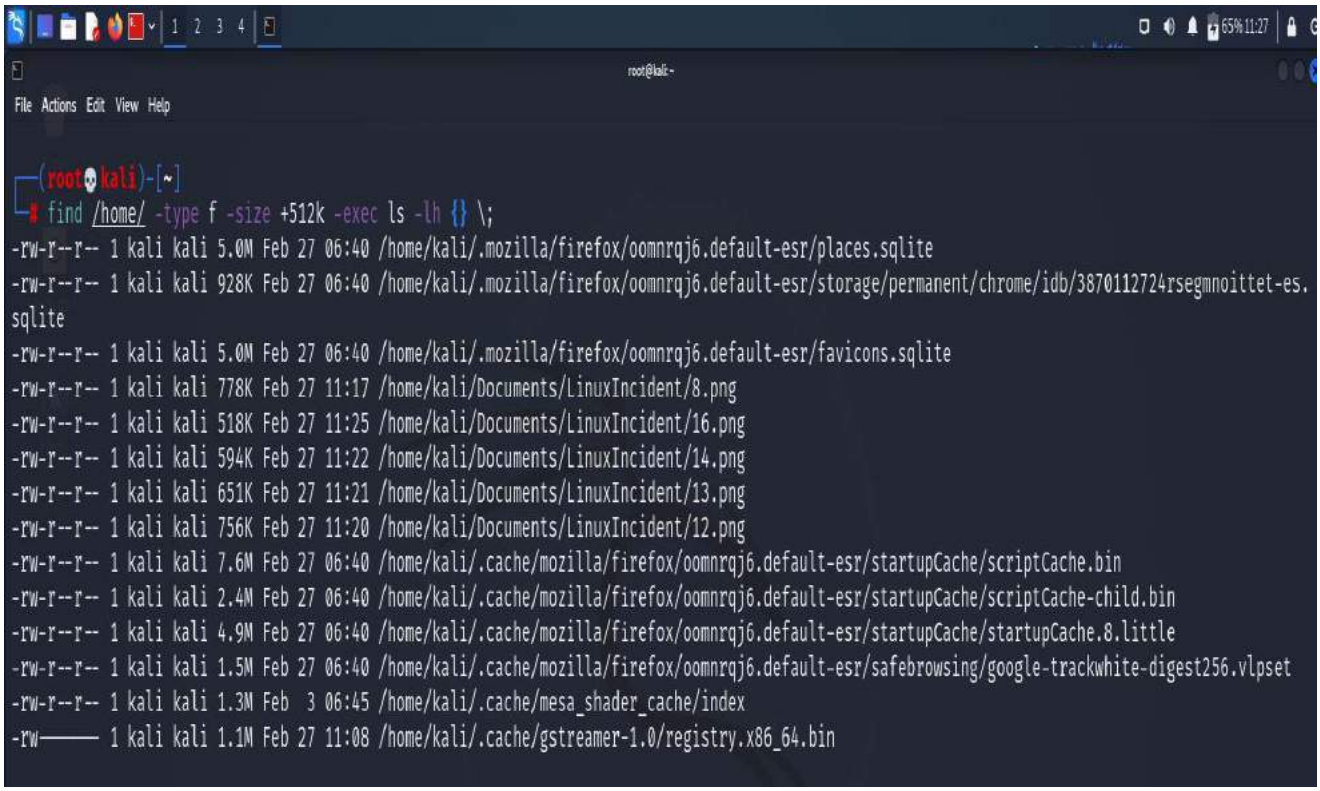
SERVICES

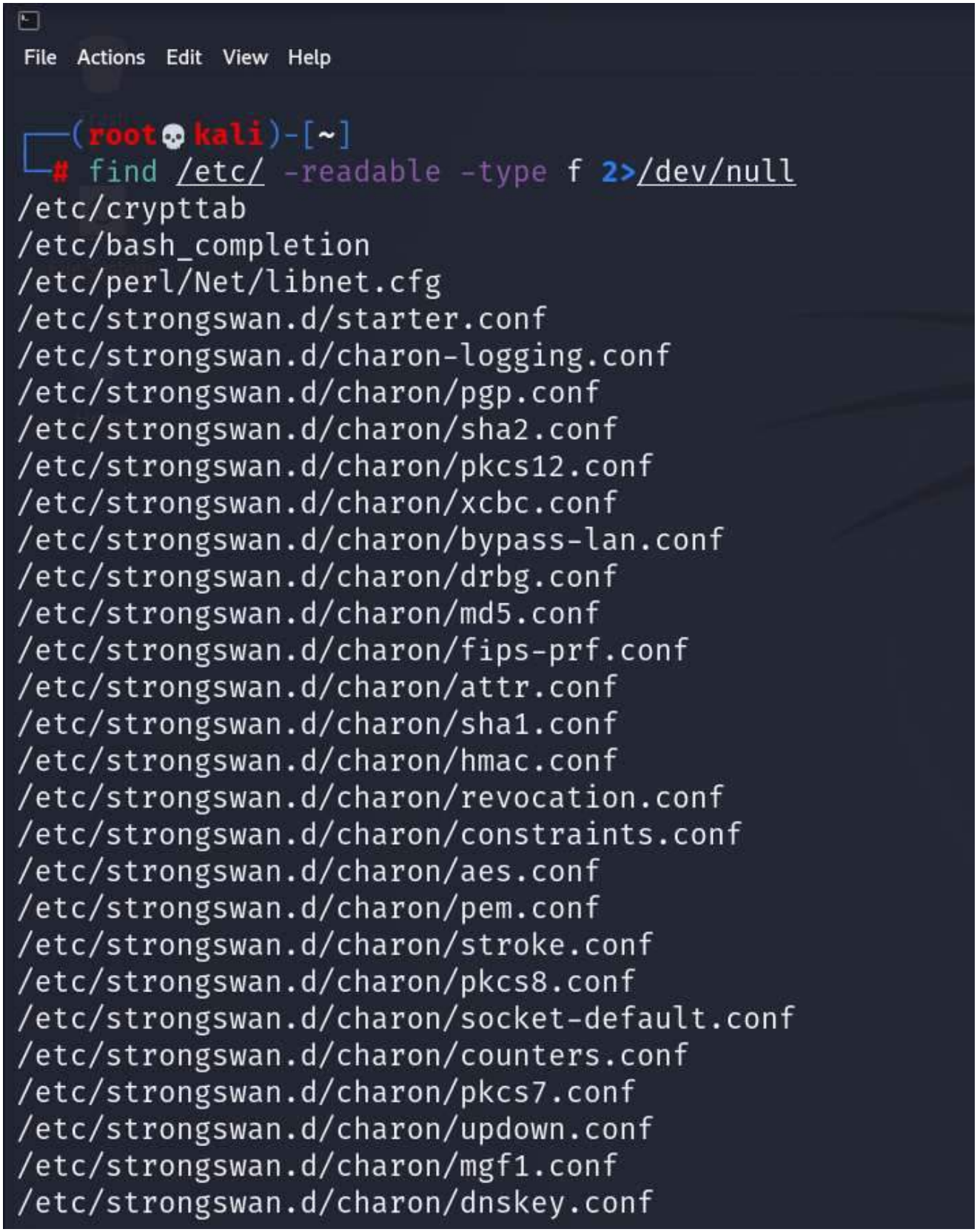

File Actions Edit View Help
(root kali)-[~]
# service --status-all
[ - ] apache-htcacheclean
[ - ] apache2
[ - ] apparmor
[ - ] atftpd
[ - ] avahi-daemon
[ + ] binfmt-support
[ - ] bluetooth
[ - ] console-setup.sh
[ + ] cron
[ - ] cryptdisks
[ - ] cryptdisks-early
[ + ] dbus
[ - ] dns2tcp
[ + ] haveged
[ - ] hwclock.sh
[ - ] inetsim
[ - ] iodined
[ - ] ipsec
[ - ] keyboard-setup.sh
[ + ] kmod
[ + ] lightdm
[ - ] mariadb
[ - ] miredo
[ + ] networking
[ - ] nfs-common
[ - ] nginx
[ - ] nmbd

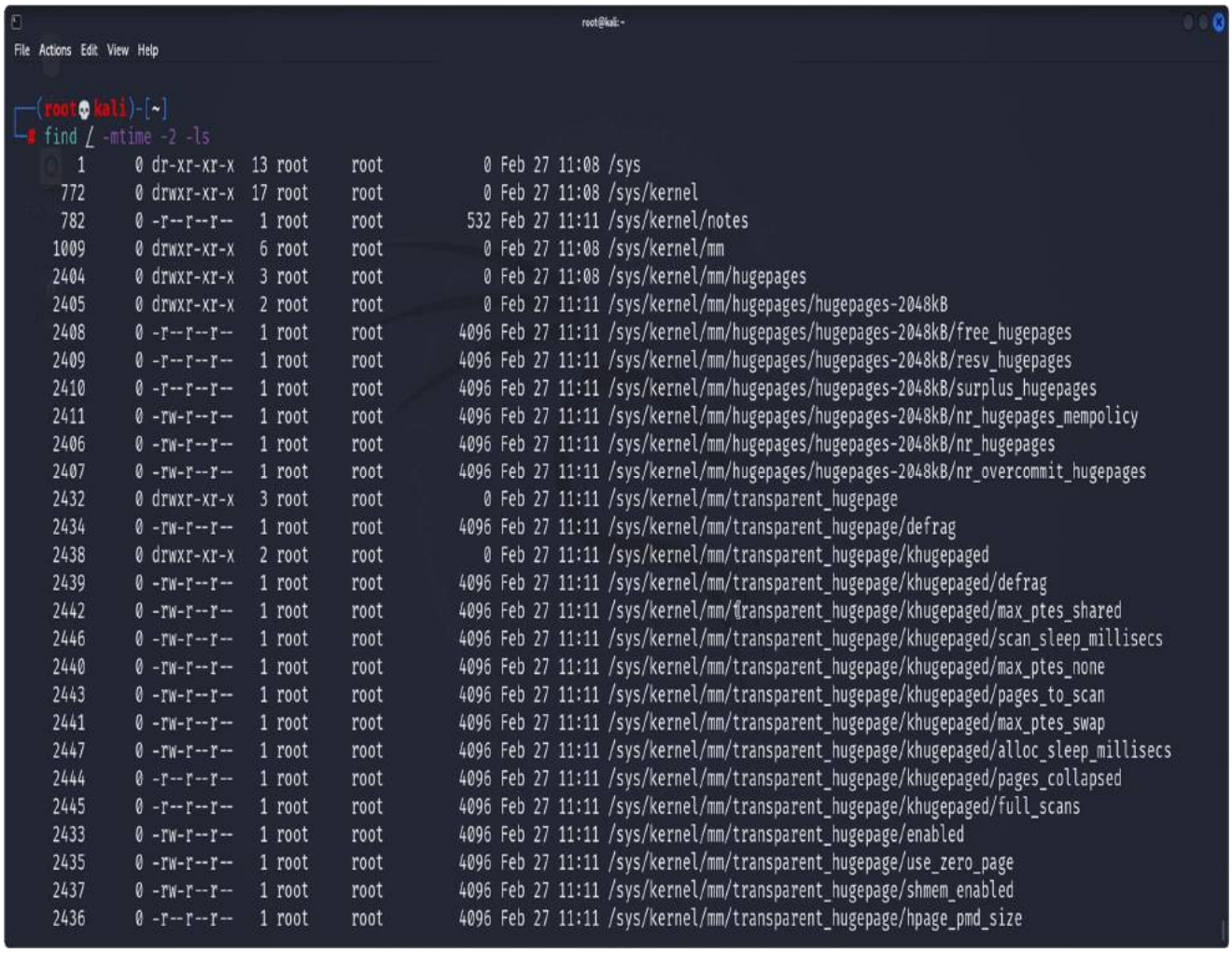

root@kali: ~
File Actions Edit View Help
(root kali)-[~]
# cat /etc/crontab
# /etc/crontab: system-wide crontab
# Unlike any other crontab you don't have to run the `crontab'
# command to install the new version when you edit this file
# and files in /etc/cron.d. These files also have username fields,
# that none of the other crontabs do.
SHELL=/bin/sh
PATH=/usr/local/sbin:/usr/local/bin:/sbin:/bin:/usr/sbin:/usr/bin
# Example of job definition:
# .---------------- minute (0 - 59)
# | .-------------- hour (0 - 23)
# | | .------------ day of month (1 - 31)
# | | | .---------- month (1 - 12) OR jan,feb,mar,apr ...
# | | | | .-------- day of week (0 - 6) (Sunday=0 or 7) OR sun,mon,tue,wed,thu,fri,sat
# | | | | |
# * * * * * user-name command to be executed
17 * * * * root cd / && run-parts --report /etc/cron.hourly
25 6 * * * root test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.daily )
47 6 * * 7 root test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.weekly )
52 6 1 * * root test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.monthly )
#


1 2 3 4
root@kali: ~
File Actions Edit View Help
(root kali)-[~]
# more /etc/resolv.conf
# Generated by NetworkManager
search localdomain
nameserver 192.168.16.2
(root kali)-[~]
# more /etc/hosts
127.0.0.1 localhost
127.0.1.1 kali
# The following lines are desirable for IPv6 capable hosts
::1 localhost ip6-localhost ip6-loopback
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
(root kali)-[~]
# iptables -L -n
Chain INPUT (policy ACCEPT)
target prot opt source destination
Chain FORWARD (policy ACCEPT)
target prot opt source destination
Chain OUTPUT (policy ACCEPT)
target prot opt source destination

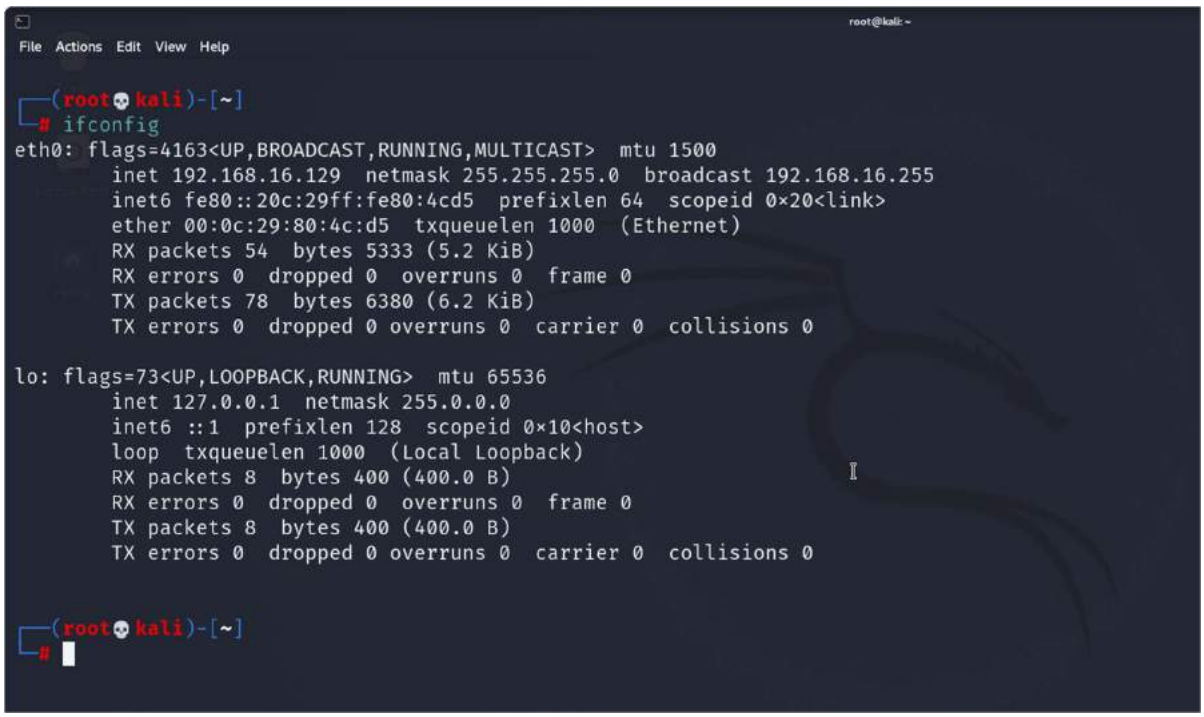
FILES

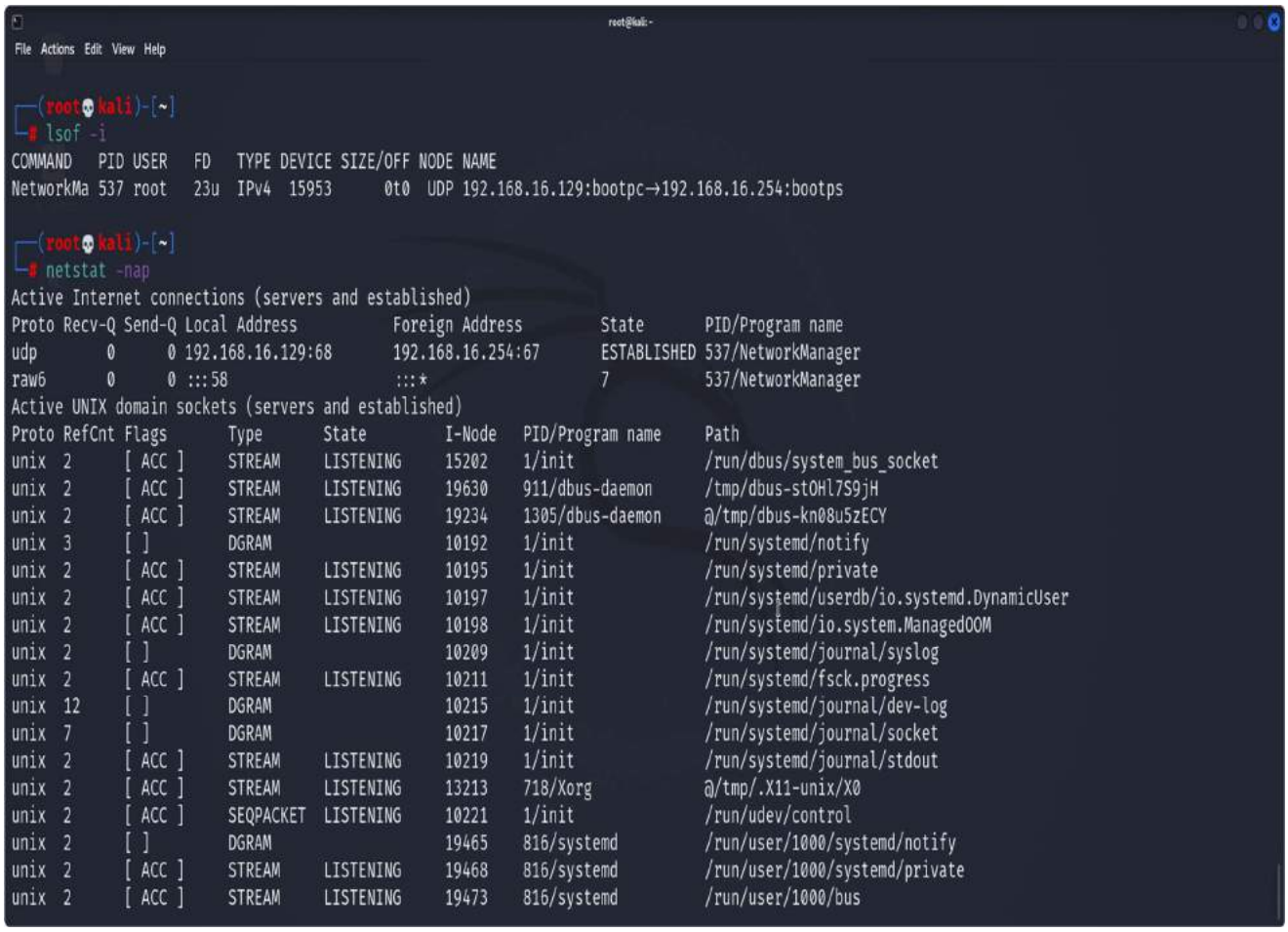

1 2 3 4
root@kali: ~
File Actions Edit View Help
(root kali)-[~]
# find /home/ -type f -size +512k -exec ls -lh {} \;
-rw-r--r-- 1 kali kali 5.0M Feb 27 06:40 /home/kali/.mozilla/firefox/oomnrqj6.default-esr/places.sqlite
-rw-r--r-- 1 kali kali 928K Feb 27 06:40 /home/kali/.mozilla/firefox/oomnrqj6.default-esr/storage/permanent/chrome/idb/3870112724rsegmnoittet-es.sqlite
-rw-r--r-- 1 kali kali 5.0M Feb 27 06:40 /home/kali/.mozilla/firefox/oomnrqj6.default-esr/favicons.sqlite
-rw-r--r-- 1 kali kali 778K Feb 27 11:17 /home/kali/Documents/LinuxIncident/8.png
-rw-r--r-- 1 kali kali 518K Feb 27 11:25 /home/kali/Documents/LinuxIncident/16.png
-rw-r--r-- 1 kali kali 594K Feb 27 11:22 /home/kali/Documents/LinuxIncident/14.png
-rw-r--r-- 1 kali kali 651K Feb 27 11:21 /home/kali/Documents/LinuxIncident/13.png
-rw-r--r-- 1 kali kali 756K Feb 27 11:20 /home/kali/Documents/LinuxIncident/12.png
-rw-r--r-- 1 kali kali 7.6M Feb 27 06:40 /home/kali/.cache/mozilla/firefox/oomnrqj6.default-esr/startupCache/scriptCache.bin
-rw-r--r-- 1 kali kali 2.4M Feb 27 06:40 /home/kali/.cache/mozilla/firefox/oomnrqj6.default-esr/startupCache/scriptCache-child.bin
-rw-r--r-- 1 kali kali 4.9M Feb 27 06:40 /home/kali/.cache/mozilla/firefox/oomnrqj6.default-esr/startupCache/startupCache.8.little
-rw-r--r-- 1 kali kali 1.5M Feb 27 06:40 /home/kali/.cache/mozilla/firefox/oomnrqj6.default-esr/safebrowsing/google-trackwhite-digest256.vlpset
-rw-r--r-- 1 kali kali 1.3M Feb 3 06:45 /home/kali/.cache/mesa_shader_cache/index
-rw------- 1 kali kali 1.1M Feb 27 11:08 /home/kali/.cache/gstreamer-1.0/registry.x86_64.bin


File Actions Edit View Help
┌──(root💀kali)-[~]
└─# find /etc/ -readable -type f 2>/dev/null
/etc/crypttab
/etc/bash_completion
/etc/perl/Net/libnet.cfg
/etc/strongswan.d/starter.conf
/etc/strongswan.d/charon-logging.conf
/etc/strongswan.d/charon/pgp.conf
/etc/strongswan.d/charon/sha2.conf
/etc/strongswan.d/charon/pkcs12.conf
/etc/strongswan.d/charon/xcbc.conf
/etc/strongswan.d/charon/bypass-lan.conf
/etc/strongswan.d/charon/drbg.conf
/etc/strongswan.d/charon/md5.conf
/etc/strongswan.d/charon/fips-prf.conf
/etc/strongswan.d/charon/attr.conf
/etc/strongswan.d/charon/sha1.conf
/etc/strongswan.d/charon/hmac.conf
/etc/strongswan.d/charon/revocation.conf
/etc/strongswan.d/charon/constraints.conf
/etc/strongswan.d/charon/aes.conf
/etc/strongswan.d/charon/pem.conf
/etc/strongswan.d/charon/stroke.conf
/etc/strongswan.d/charon/pkcs8.conf
/etc/strongswan.d/charon/socket-default.conf
/etc/strongswan.d/charon/counters.conf
/etc/strongswan.d/charon/pkcs7.conf
/etc/strongswan.d/charon/updown.conf
/etc/strongswan.d/charon/mgf1.conf
/etc/strongswan.d/charon/dnskey.conf




NETWORK SETTINGS

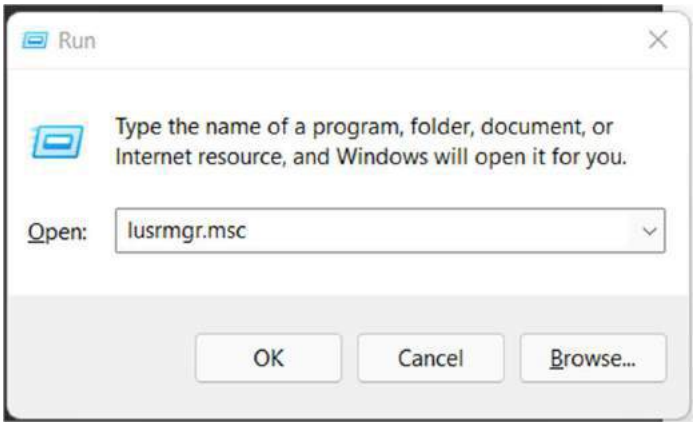


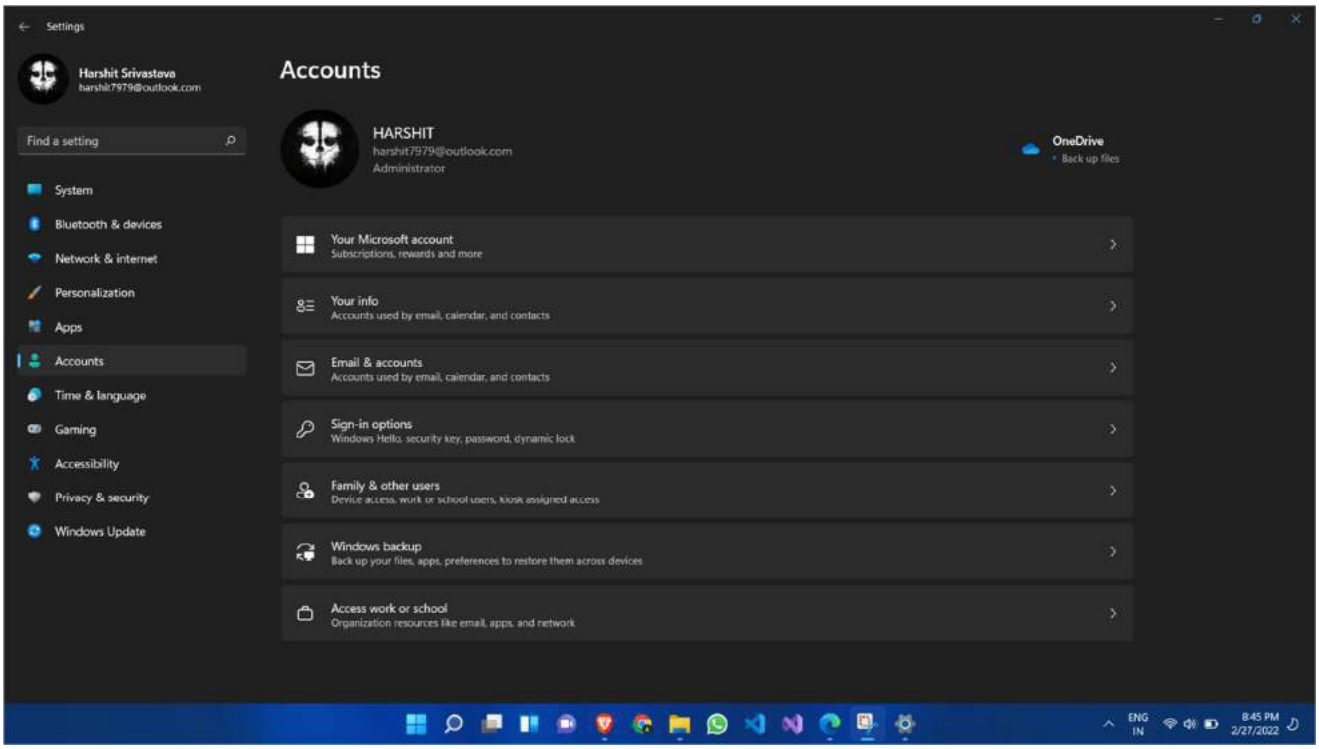

root@kali: ~
File Actions Edit View Help
┌──(root💀kali)-[~]
└─# lsof -i
COMMAND PID USER FD TYPE DEVICE SIZE/OFF NODE NAME
NetworkMa 537 root 23u IPv4 15953 0t0 UDP 192.168.16.129:bootpc→192.168.16.254:bootps
┌──(root💀kali)-[~]
└─# netstat -nap
Active Internet connections (servers and established)
Proto Recv-Q Send-Q Local Address Foreign Address State PID/Program name
udp 0 0 192.168.16.129:68 192.168.16.254:67 ESTABLISHED 537/NetworkManager
raw6 0 0 :::58 :::* 7 537/NetworkManager
Active UNIX domain sockets (servers and established)
Proto RefCnt Flags Type State I-Node PID/Program name Path
unix 2 [ ACC ] STREAM LISTENING 15202 1/init /run/dbus/system_bus_socket
unix 2 [ ACC ] STREAM LISTENING 19630 911/dbus-daemon /tmp/dbus-stOHl7S9jH
unix 2 [ ACC ] STREAM LISTENING 19234 1305/dbus-daemon @/tmp/dbus-kn08u5zECY
unix 3 [ ] DGRAM 10192 1/init /run/systemd/notify
unix 2 [ ACC ] STREAM LISTENING 10195 1/init /run/systemd/private
unix 2 [ ACC ] STREAM LISTENING 10197 1/init /run/systemd/userdb/io.systemd.DynamicUser
unix 2 [ ACC ] STREAM LISTENING 10198 1/init /run/systemd/io.system.ManagedOOM
unix 2 [ ] DGRAM 10209 1/init /run/systemd/journal/syslog
unix 2 [ ACC ] STREAM LISTENING 10211 1/init /run/systemd/fsck.progress
unix 12 [ ] DGRAM 10215 1/init /run/systemd/journal/dev-log
unix 7 [ ] DGRAM 10217 1/init /run/systemd/journal/socket
unix 2 [ ACC ] STREAM LISTENING 10219 1/init /run/systemd/journal/stdout
unix 2 [ ACC ] STREAM LISTENING 13213 718/Xorg @/tmp/.X11-unix/X0
unix 2 [ ACC ] SEQPACKET LISTENING 10221 1/init /run/udev/control
unix 2 [ ] DGRAM 19465 816/systemd /run/user/1000/systemd/notify
unix 2 [ ACC ] STREAM LISTENING 19468 816/systemd /run/user/1000/systemd/private
unix 2 [ ACC ] STREAM LISTENING 19473 816/systemd /run/user/1000/bus

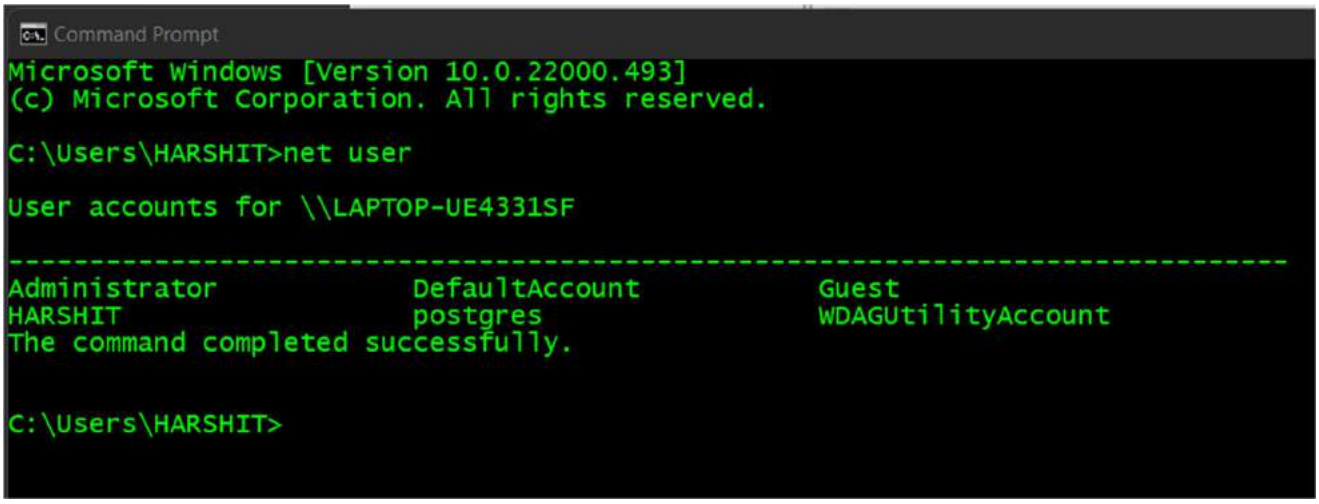

root@kali: ~
File Actions Edit View Help
┌──(root💀kali)-[~]
└─# arp -a
? (192.168.16.2) at 00:50:56:e6:6d:78 [ether] on eth0
? (192.168.16.254) at 00:50:56:ed:d7:8e [ether] on eth0
┌──(root💀kali)-[~]
└─# echo $PATH
/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/local/games:/usr/games
┌──(root💀kali)-[~]
└─#

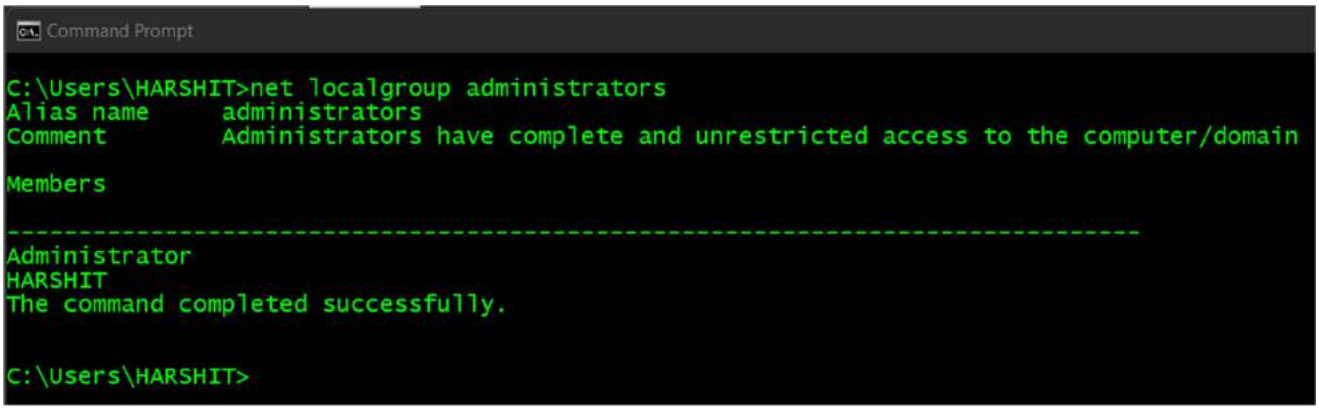
## 4. Incident Response windows

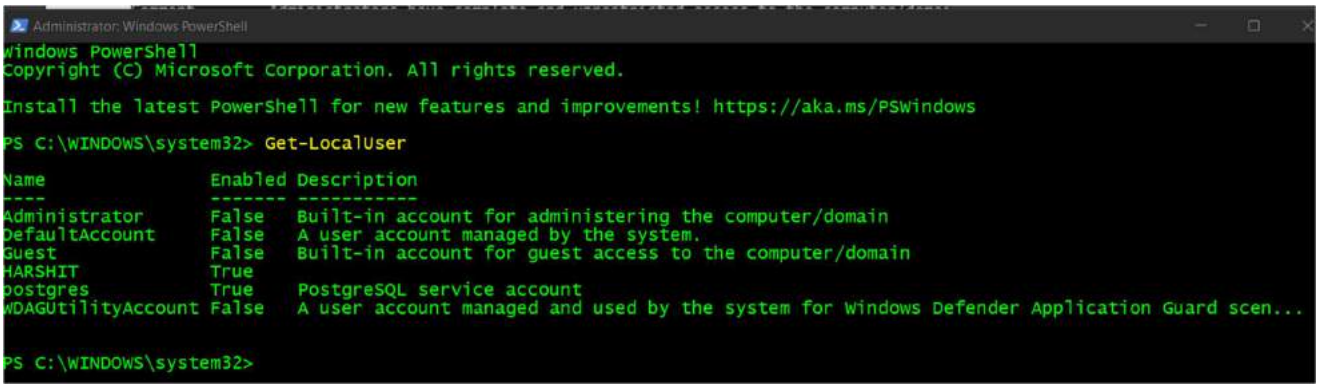
USER ACCOUNTS



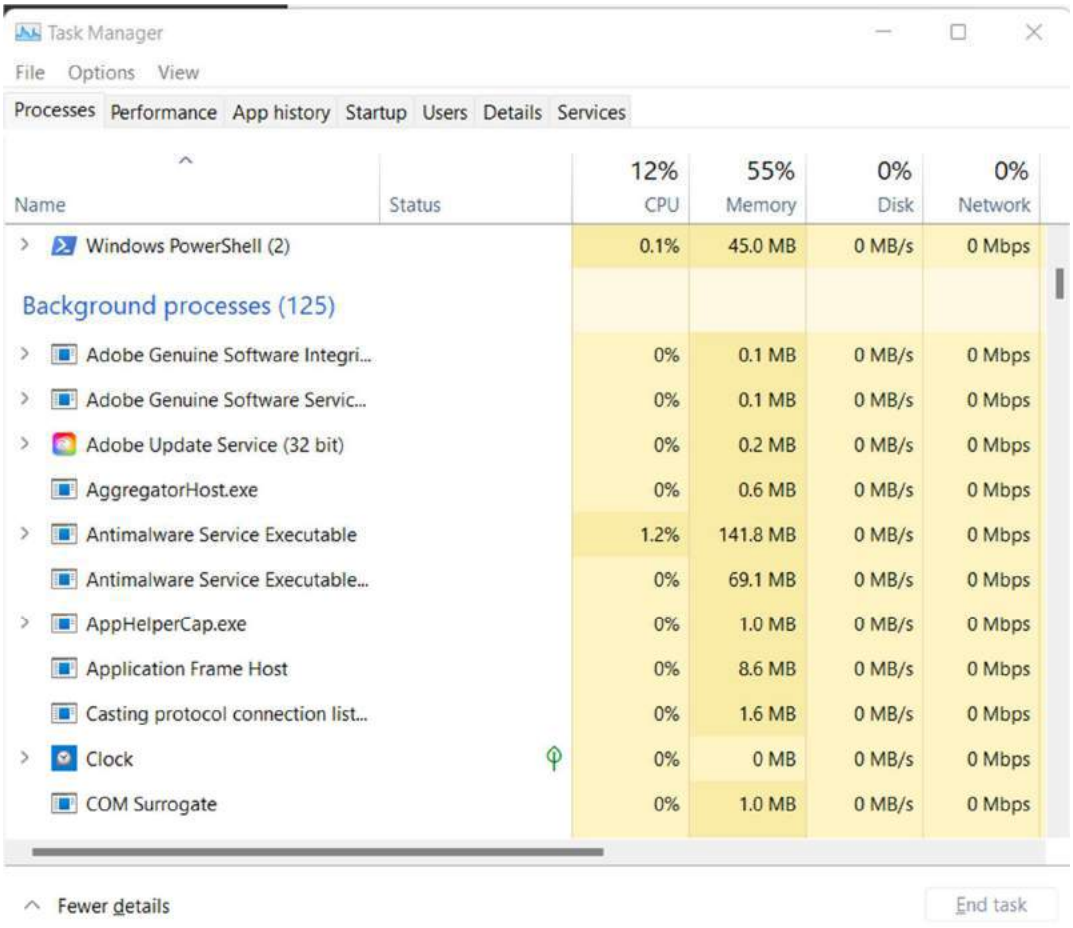



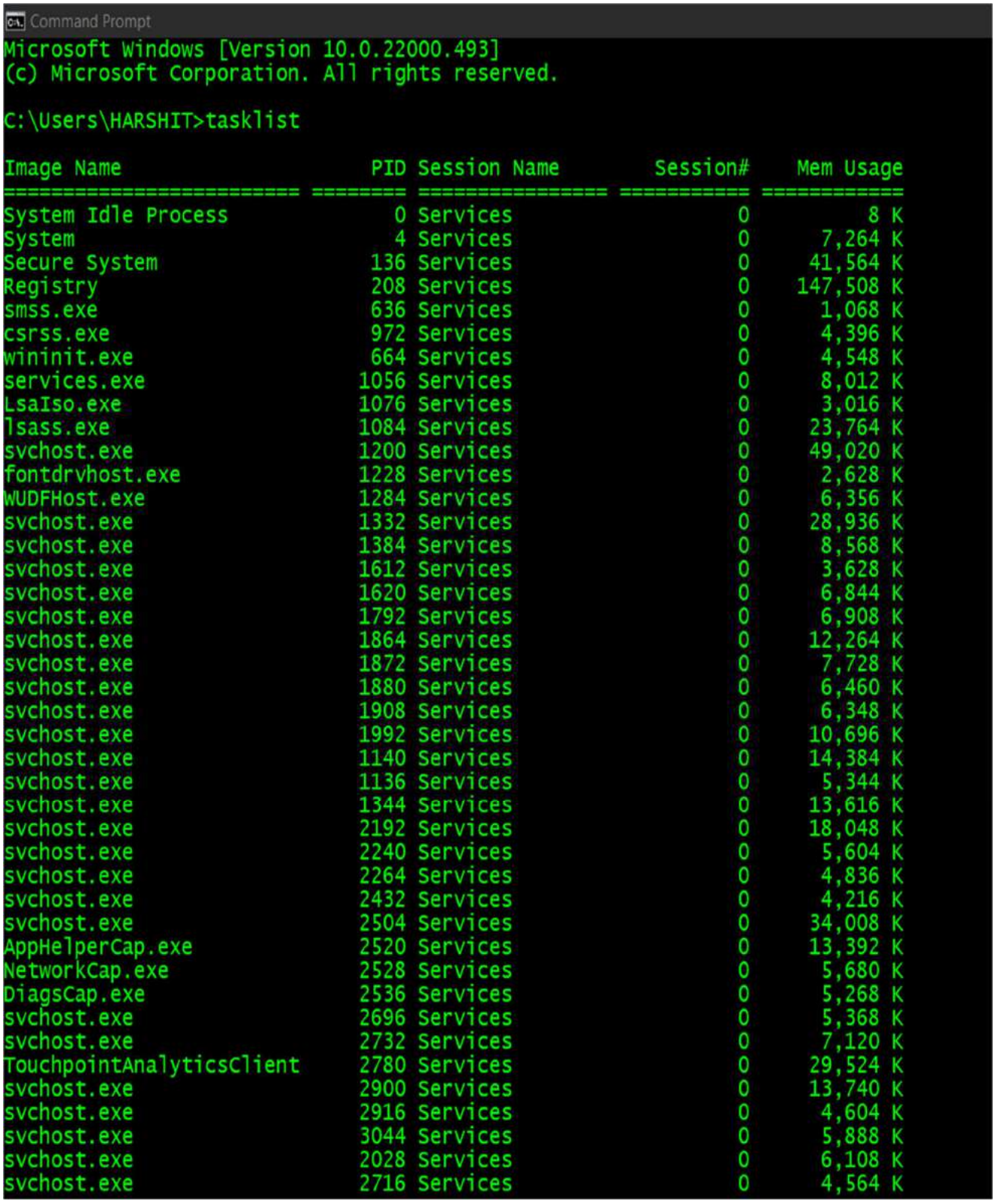



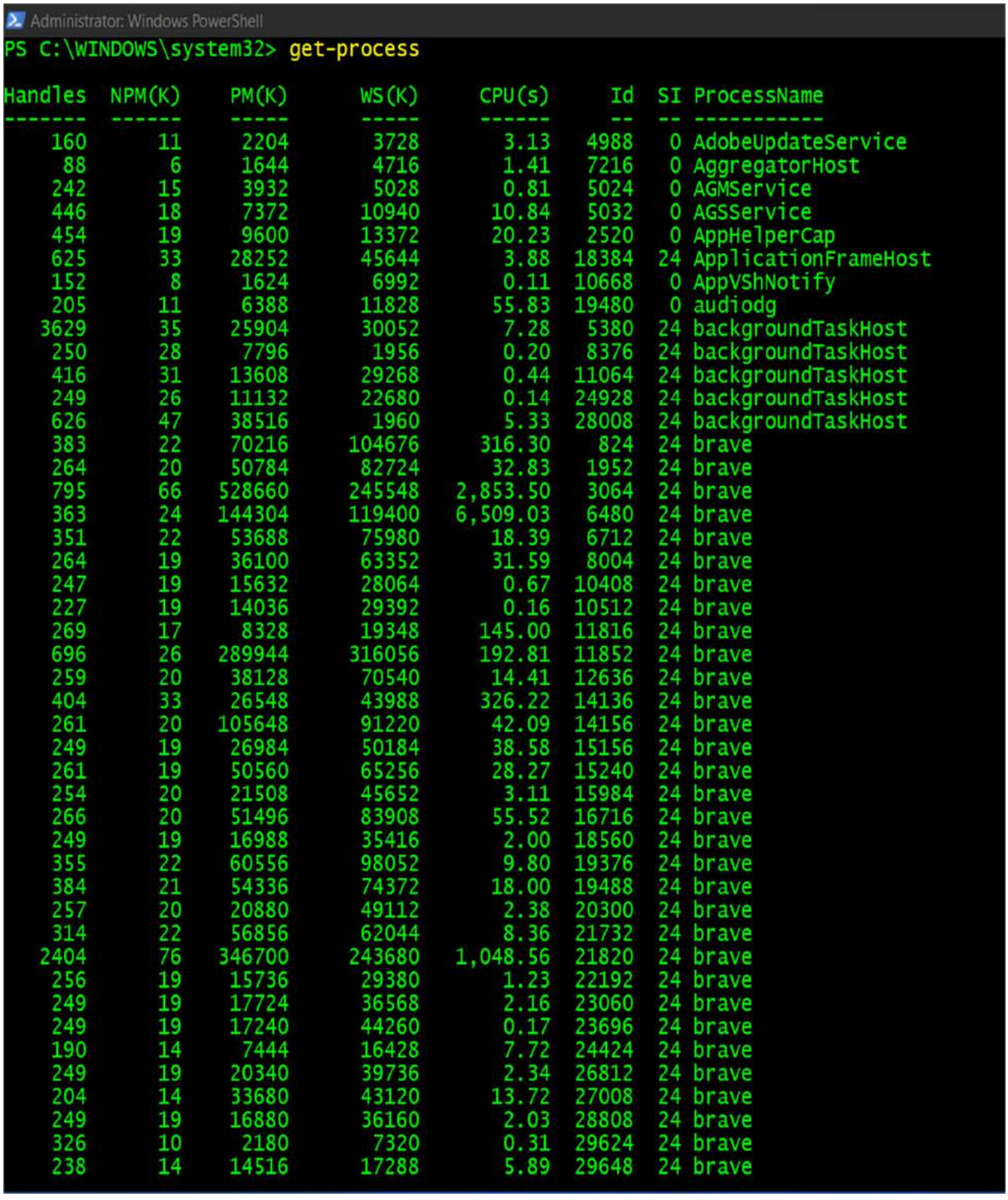

Command Prompt
C:\Users\HARSHIT>net localgroup administrators
Alias name administrators
Comment Administrators have complete and unrestricted access to the computer/domain
Members
Administrator
HARSHIT
The command completed successfully.
C:\Users\HARSHIT>

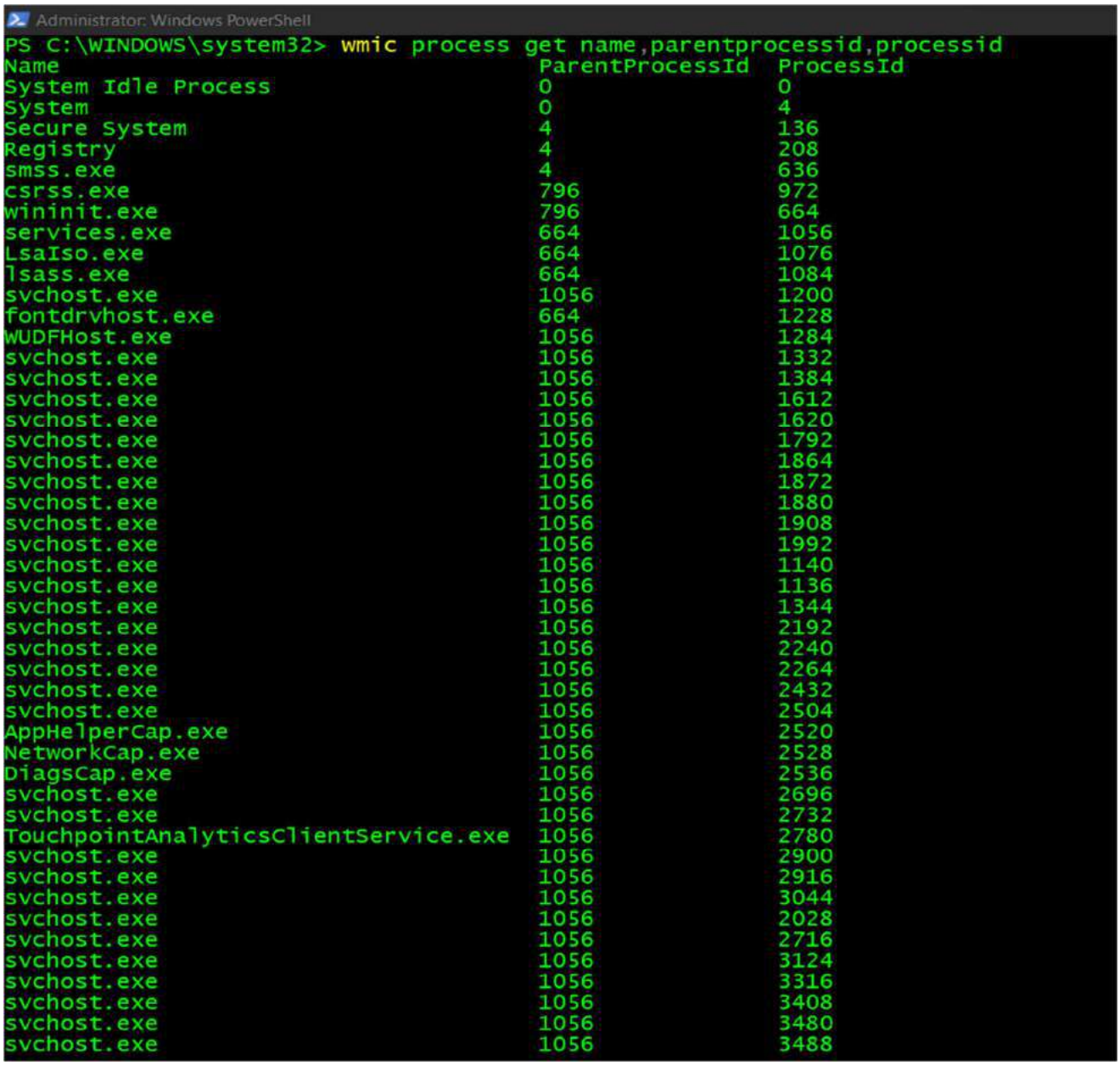

Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
PS C:\WINDOWS\system32> Get-LocalUser
Name Enabled Description
Administrator False Built-in account for administering the computer/domain
DefaultAccount False A user account managed by the system.
Guest False Built-in account for guest access to the computer/domain
HARSHIT True
postgres True PostgreSQL service account
WDAGUtilityAccount False A user account managed and used by the system for Windows Defender Application Guard scen...
PS C:\WINDOWS\system32>

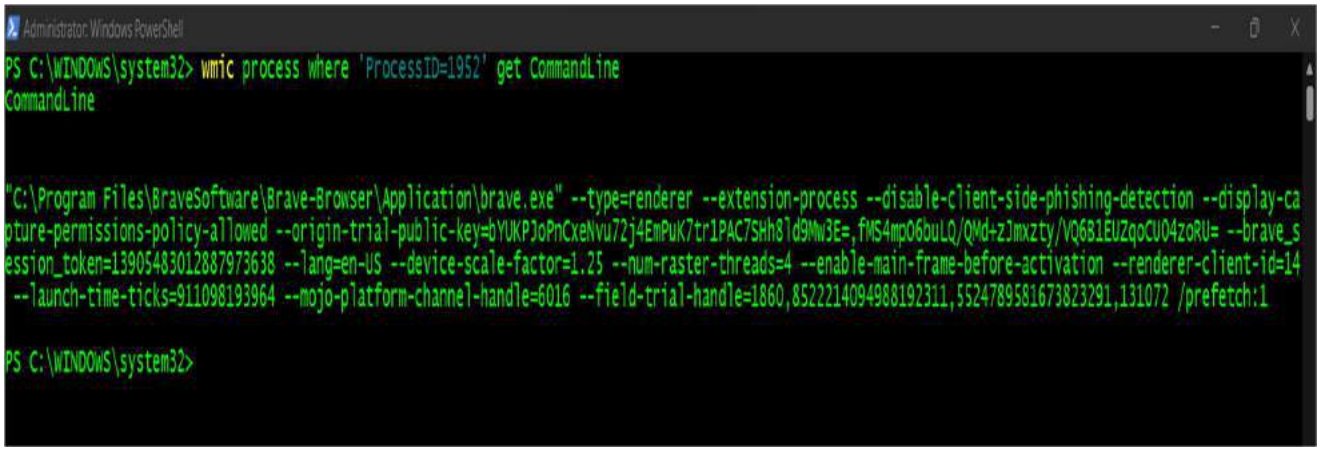
PROCESSES


Task Manager
File Options View
Processes Performance App history Startup Users Details Services
Name Status 12% CPU 55% Memory 0% Disk 0% Network
Windows PowerShell (2) 0.1% 45.0 MB 0 MB/s 0 Mbps
Background processes (125)
Adobe Genuine Software Integri... 0% 0.1 MB 0 MB/s 0 Mbps
Adobe Genuine Software Servic... 0% 0.1 MB 0 MB/s 0 Mbps
Adobe Update Service (32 bit) 0% 0.2 MB 0 MB/s 0 Mbps
AggregatorHost.exe 0% 0.6 MB 0 MB/s 0 Mbps
Antimalware Service Executable 1.2% 141.8 MB 0 MB/s 0 Mbps
Antimalware Service Executable... 0% 69.1 MB 0 MB/s 0 Mbps
AppHelperCap.exe 0% 1.0 MB 0 MB/s 0 Mbps
Application Frame Host 0% 8.6 MB 0 MB/s 0 Mbps
Casting protocol connection list... 0% 1.6 MB 0 MB/s 0 Mbps
Clock 0% 0 MB 0 MB/s 0 Mbps
COM Surrogate 0% 1.0 MB 0 MB/s 0 Mbps
Fewer details
End task

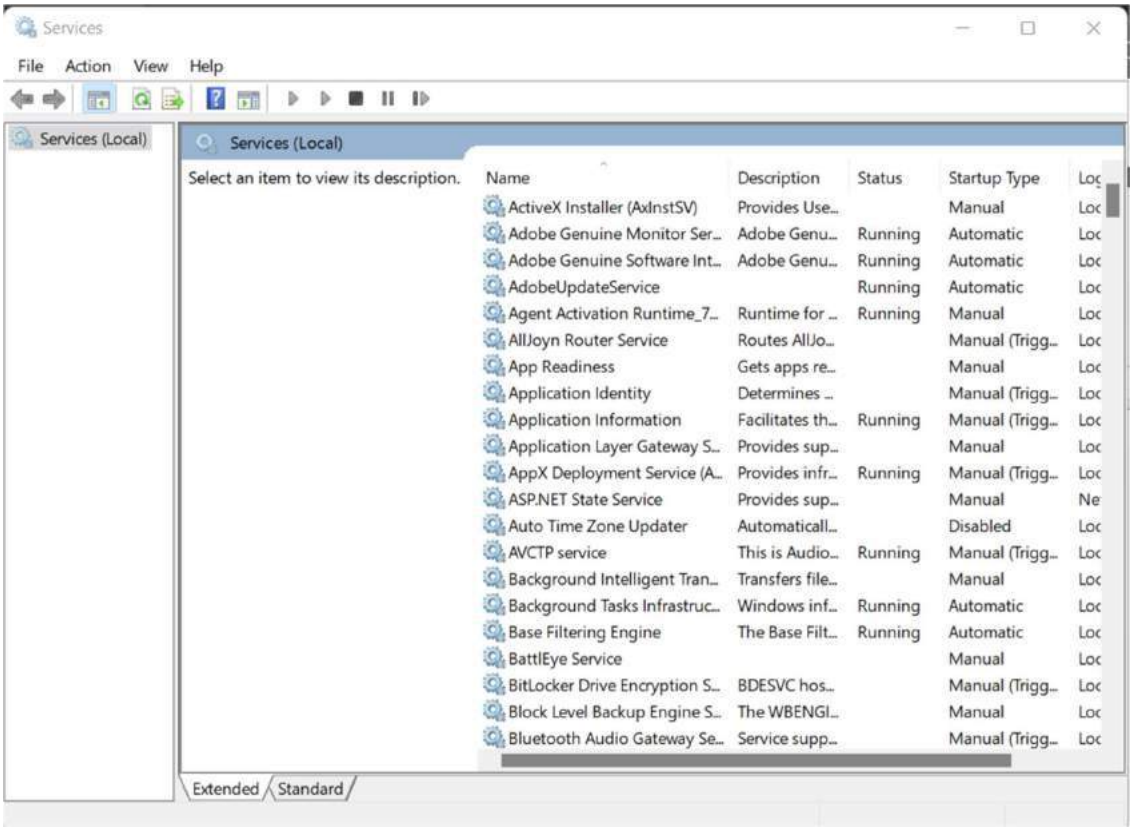

Command Prompt
Microsoft Windows [Version 10.0.22000.493]
(c) Microsoft Corporation. All rights reserved.
C:\Users\HARSHIT>tasklist
Image Name PID Session Name Session# Mem Usage
System Idle Process 0 Services 0 8 K
System 4 Services 0 7,264 K
Secure System 136 Services 0 41,564 K
Registry 208 Services 0 147,508 K
smss.exe 636 Services 0 1,068 K
csrss.exe 972 Services 0 4,396 K
wininit.exe 664 Services 0 4,548 K
services.exe 1056 Services 0 8,012 K
LsaIso.exe 1076 Services 0 3,016 K
lsass.exe 1084 Services 0 23,764 K
svchost.exe 1200 Services 0 49,020 K
fontdrvhost.exe 1228 Services 0 2,628 K
WUDFHost.exe 1284 Services 0 6,356 K
svchost.exe 1332 Services 0 28,936 K
svchost.exe 1384 Services 0 8,568 K
svchost.exe 1612 Services 0 3,628 K
svchost.exe 1620 Services 0 6,844 K
svchost.exe 1792 Services 0 6,908 K
svchost.exe 1864 Services 0 12,264 K
svchost.exe 1872 Services 0 7,728 K
svchost.exe 1880 Services 0 6,460 K
svchost.exe 1908 Services 0 6,348 K
svchost.exe 1992 Services 0 10,696 K
svchost.exe 1140 Services 0 14,384 K
svchost.exe 1136 Services 0 5,344 K
svchost.exe 1344 Services 0 13,616 K
svchost.exe 2192 Services 0 18,048 K
svchost.exe 2240 Services 0 5,604 K
svchost.exe 2264 Services 0 4,836 K
svchost.exe 2432 Services 0 4,216 K
svchost.exe 2504 Services 0 34,008 K
AppHelperCap.exe 2520 Services 0 13,392 K
NetworkCap.exe 2528 Services 0 5,680 K
DiagsCap.exe 2536 Services 0 5,268 K
svchost.exe 2696 Services 0 5,368 K
svchost.exe 2732 Services 0 7,120 K
TouchpointAnalyticsClient 2780 Services 0 29,524 K
svchost.exe 2900 Services 0 13,740 K
svchost.exe 2916 Services 0 4,604 K
svchost.exe 3044 Services 0 5,888 K
svchost.exe 2028 Services 0 6,108 K
svchost.exe 2716 Services 0 4,564 K


Administrator: Windows PowerShell
PS C:\WINDOWS\system32> get-process
Handles NPM(K) PM(K) WS(K) CPU(s) Id SI ProcessName
160 11 2204 3728 3.13 4988 0 AdobeUpdateService
88 6 1644 4716 1.41 7216 0 AggregatorHost
242 15 3932 5028 0.81 5024 0 AGMService
446 18 7372 10940 10.84 5032 0 AGSService
454 19 9600 13372 20.23 2520 0 AppHelperCap
625 33 28252 45644 3.88 18384 24 ApplicationFrameHost
152 8 1624 6992 0.11 10668 0 AppVShNotify
205 11 6388 11828 55.83 19480 0 audiodg
3629 35 25904 30052 7.28 5380 24 backgroundTaskHost
250 28 7796 1956 0.20 8376 24 backgroundTaskHost
416 31 13608 29268 0.44 11064 24 backgroundTaskHost
249 26 11132 22680 0.14 24928 24 backgroundTaskHost
626 47 38516 1960 5.33 28008 24 backgroundTaskHost
383 22 70216 104676 316.30 824 24 brave
264 20 50784 82724 32.83 1952 24 brave
795 66 528660 245548 2,853.50 3064 24 brave
363 24 144304 119400 6,509.03 6480 24 brave
351 22 53688 75980 18.39 6712 24 brave
264 19 36100 63352 31.59 8004 24 brave
247 19 15632 28064 0.67 10408 24 brave
227 19 14036 29392 0.16 10512 24 brave
269 17 8328 19348 145.00 11816 24 brave
696 26 289944 316056 192.81 11852 24 brave
259 20 38128 70540 14.41 12636 24 brave
404 33 26548 43988 326.22 14136 24 brave
261 20 105648 91220 42.09 14156 24 brave
249 19 26984 50184 38.58 15156 24 brave
261 19 50560 65256 28.27 15240 24 brave
254 20 21508 45652 3.11 15984 24 brave
266 20 51496 83908 55.52 16716 24 brave
249 19 16988 35416 2.00 18560 24 brave
355 22 60556 98052 9.80 19376 24 brave
384 21 54336 74372 18.00 19488 24 brave
257 20 20880 49112 2.38 20300 24 brave
314 22 56856 62044 8.36 21732 24 brave
2404 76 346700 243680 1,048.56 21820 24 brave
256 19 15736 29380 1.23 22192 24 brave
249 19 17724 36568 2.16 23060 24 brave
249 19 17240 44260 0.17 23696 24 brave
190 14 7444 16428 7.72 24424 24 brave
249 19 20340 39736 2.34 26812 24 brave
204 14 33680 43120 13.72 27008 24 brave
249 19 16880 36160 2.03 28808 24 brave
326 10 2180 7320 0.31 29624 24 brave
238 14 14516 17288 5.89 29648 24 brave

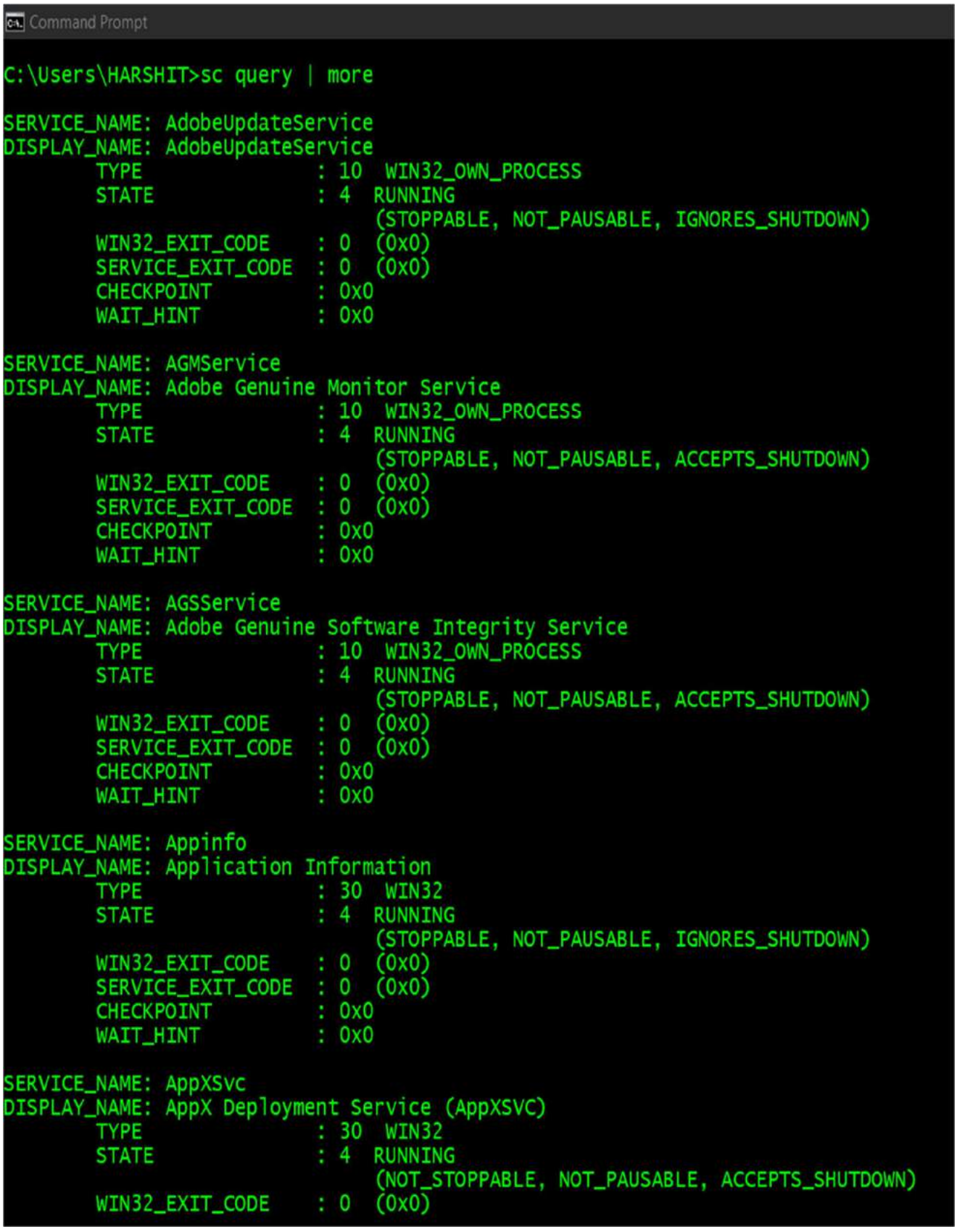

Administrator: Windows PowerShell
PS C:\WINDOWS\system32> wmic process get name,parentprocessid,processid
Name ParentProcessId ProcessId
System Idle Process 0 0
System 0 4
Secure System 4 136
Registry 4 208
smss.exe 4 636
csrss.exe 796 972
wininit.exe 796 664
services.exe 664 1056
LsaIso.exe 664 1076
lsass.exe 664 1084
svchost.exe 1056 1200
fontdrvhost.exe 664 1228
WUDFHost.exe 1056 1284
svchost.exe 1056 1332
svchost.exe 1056 1384
svchost.exe 1056 1612
svchost.exe 1056 1620
svchost.exe 1056 1792
svchost.exe 1056 1864
svchost.exe 1056 1872
svchost.exe 1056 1880
svchost.exe 1056 1908
svchost.exe 1056 1992
svchost.exe 1056 1140
svchost.exe 1056 1136
svchost.exe 1056 1344
svchost.exe 1056 2192
svchost.exe 1056 2240
svchost.exe 1056 2264
svchost.exe 1056 2432
svchost.exe 1056 2504
AppHelperCap.exe 1056 2520
NetworkCap.exe 1056 2528
DiagsCap.exe 1056 2536
svchost.exe 1056 2696
svchost.exe 1056 2732
TouchpointAnalyticsClientService.exe 1056 2780
svchost.exe 1056 2900
svchost.exe 1056 2916
svchost.exe 1056 3044
svchost.exe 1056 2028
svchost.exe 1056 2716
svchost.exe 1056 3124
svchost.exe 1056 3316
svchost.exe 1056 3408
svchost.exe 1056 3480
svchost.exe 1056 3488

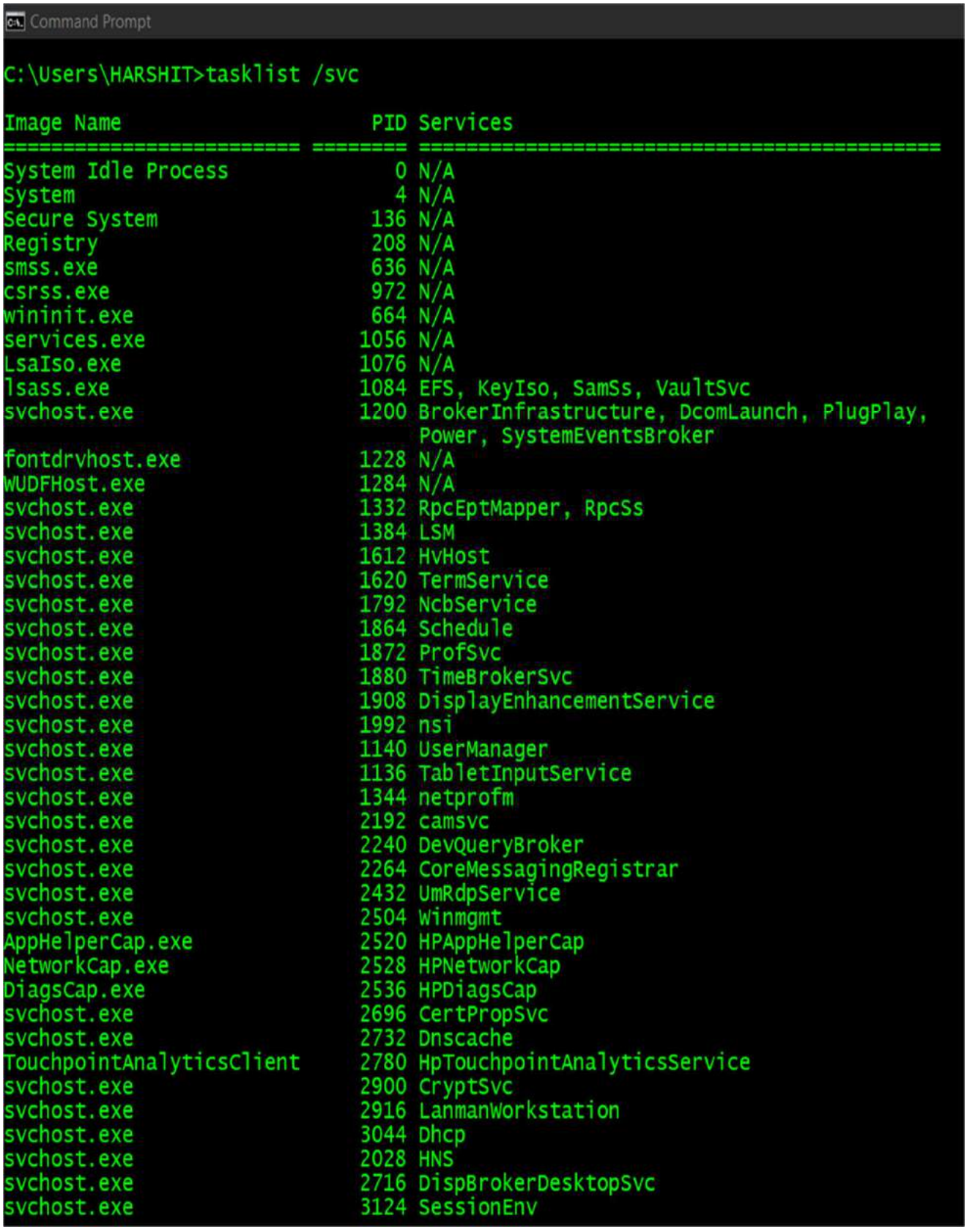

Administrator: Windows PowerShell
PS C:\WINDOWS\system32> wmic process where 'ProcessID=1952' get CommandLine
CommandLine
"C:\Program Files\BraveSoftware\Brave-Browser\Application\brave.exe" --type=renderer --extension-process --disable-client-side-phishing-detection --display-capture-permissions-policy-allowed --origin-trial-public-key=bYUKPJoPnCxeNvu72j4EmPuK7tr1PAC7SHh8ld9MnW3E=,fMS4mpO6buLQ/QMd+zJmxzty/VQ6B1EUZqoCUO4zoRU= --brave_session_token=13905483012887973638 --lang=en-US --device-scale-factor=1.25 --num-raster-threads=4 --enable-main-frame-before-activation --renderer-client-id=14 --launch-time-ticks=911098193964 --mojo-platform-channel-handle=6016 --field-trial-handle=1860,8522214094988192311,5524789581673823291,131072 /prefetch:1
PS C:\WINDOWS\system32>

SERVICES

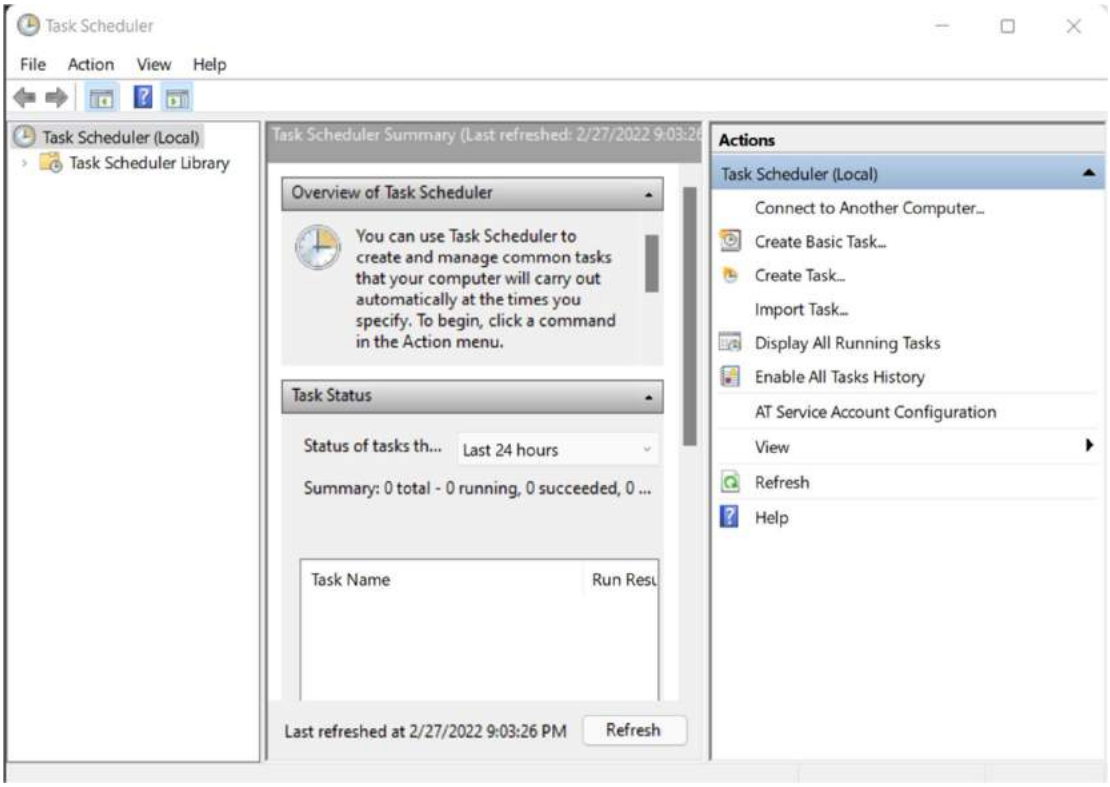

Services
File Action View Help
Services (Local)
Services (Local)
Select an item to view its description.
Name
Description
Status
Startup Type
ActiveX Installer (AxInstSV) Provides Use... Manual
Adobe Genuine Monitor Ser... Adobe Genu... Running Automatic
Adobe Genuine Software Int... Adobe Genu... Running Automatic
AdobeUpdateService Running Automatic
Agent Activation Runtime_7... Runtime for ... Running Manual
AllJoyn Router Service Routes AllJo... Manual (Trigg...
App Readiness Gets apps re... Manual
Application Identity Determines ... Manual (Trigg...
Application Information Facilitates th... Running Manual (Trigg...
Application Layer Gateway S... Provides sup... Manual
AppX Deployment Service (A... Provides infr... Running Manual (Trigg...
ASP.NET State Service Provides sup... Manual
Auto Time Zone Updater Automaticall... Disabled
AVCTP service This is Audio... Running Manual (Trigg...
Background Intelligent Tran... Transfers file... Manual
Background Tasks Infrastruc... Windows inf... Running Automatic
Base Filtering Engine The Base Filt... Running Automatic
BattlEye Service Manual
BitLocker Drive Encryption S... BDESVC hos... Manual (Trigg...
Block Level Backup Engine S... The WBENGI... Manual
Bluetooth Audio Gateway Se... Service supp... Manual (Trigg...
Extended
Standard

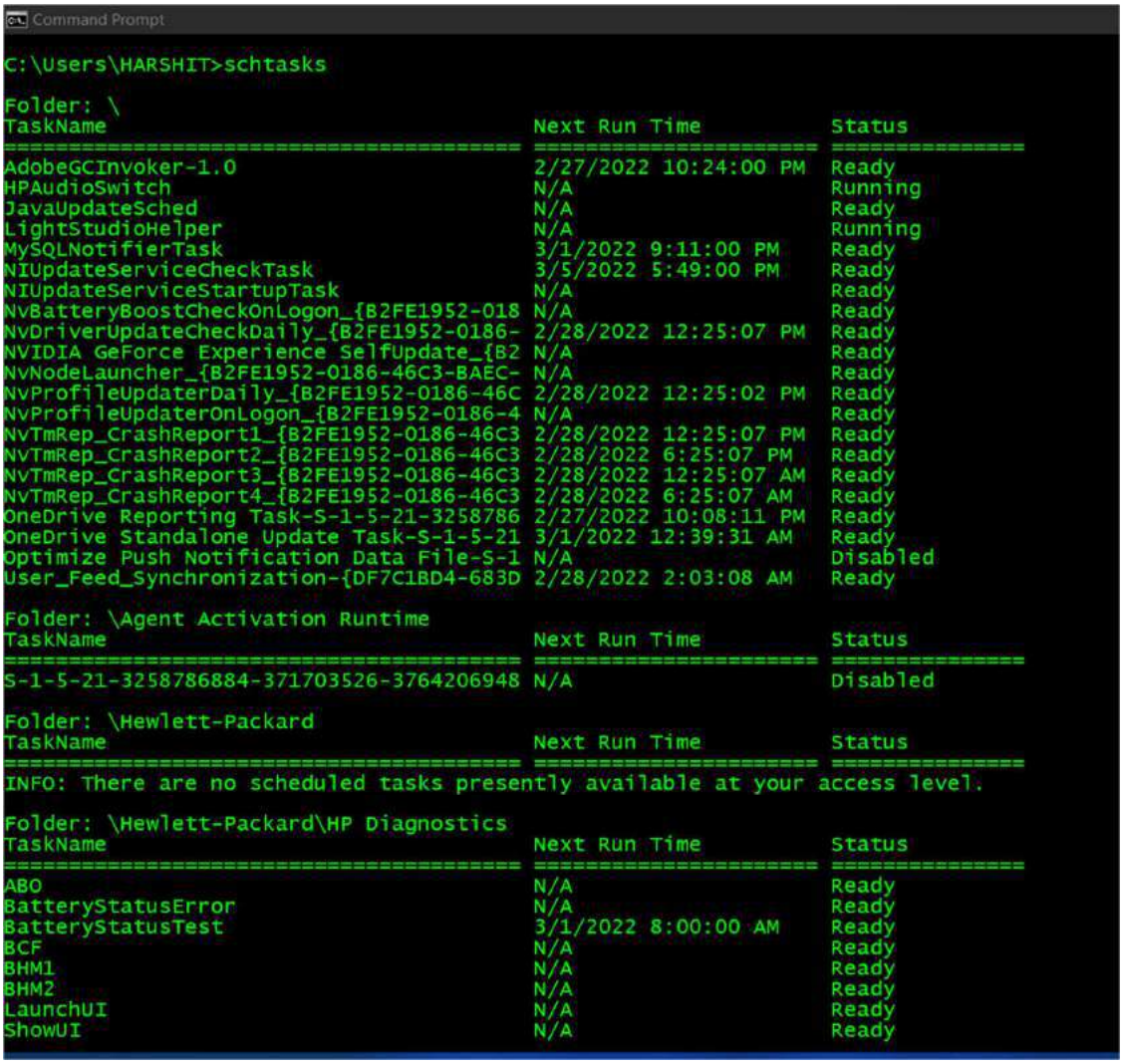

Command Prompt
Microsoft Windows [Version 10.0.22000.493]
(c) Microsoft Corporation. All rights reserved.
C:\Users\HARSHIT>net start
These Windows services are started:
Adobe Genuine Monitor Service
Adobe Genuine Software Integrity Service
AdobeUpdateService
Agent Activation Runtime_7ae38537
Application Information
AppX Deployment Service (AppXSVC)
AVCTP service
Background Tasks Infrastructure Service
Base Filtering Engine
Capability Access Manager Service
CaptureService_7ae38537
Certificate Propagation
Clipboard User Service_7ae38537
CNG Key Isolation
COM+ Event System
Connected Devices Platform Service
Connected Devices Platform User Service_7ae38537
Connected User Experiences and Telemetry
Contact Data_7ae38537
CoreMessaging
Credential Manager
Cryptographic Services
Data Sharing Service
Data Usage
DbxSvc
DCOM Server Process Launcher
Delivery Optimization
Device Association Service
DevQuery Background Discovery Broker
DHCP Client
Diagnostic Policy Service
Diagnostic Service Host
Display Enhancement Service
Display Policy Service
Distributed Link Tracking Client
DNS Client
Docker Desktop Service
DtsApo4Service
ELAN Service
Encrypting File System (EFS)
Function Discovery Provider Host
Function Discovery Resource Publication
Geolocation Service


Command Prompt
C:\Users\HARSHIT>sc query | more
SERVICE_NAME: AdobeUpdateService
DISPLAY_NAME: AdobeUpdateService
TYPE : 10 WIN32_OWN_PROCESS
STATE : 4 RUNNING
(STOPPABLE, NOT_PAUSABLE, IGNORES_SHUTDOWN)
WIN32_EXIT_CODE : 0 (0x0)
SERVICE_EXIT_CODE : 0 (0x0)
CHECKPOINT : 0x0
WAIT_HINT : 0x0
SERVICE_NAME: AGMService
DISPLAY_NAME: Adobe Genuine Monitor Service
TYPE : 10 WIN32_OWN_PROCESS
STATE : 4 RUNNING
(STOPPABLE, NOT_PAUSABLE, ACCEPTS_SHUTDOWN)
WIN32_EXIT_CODE : 0 (0x0)
SERVICE_EXIT_CODE : 0 (0x0)
CHECKPOINT : 0x0
WAIT_HINT : 0x0
SERVICE_NAME: AGSService
DISPLAY_NAME: Adobe Genuine Software Integrity Service
TYPE : 10 WIN32_OWN_PROCESS
STATE : 4 RUNNING
(STOPPABLE, NOT_PAUSABLE, ACCEPTS_SHUTDOWN)
WIN32_EXIT_CODE : 0 (0x0)
SERVICE_EXIT_CODE : 0 (0x0)
CHECKPOINT : 0x0
WAIT_HINT : 0x0
SERVICE_NAME: Appinfo
DISPLAY_NAME: Application Information
TYPE : 30 WIN32
STATE : 4 RUNNING
(STOPPABLE, NOT_PAUSABLE, IGNORES_SHUTDOWN)
WIN32_EXIT_CODE : 0 (0x0)
SERVICE_EXIT_CODE : 0 (0x0)
CHECKPOINT : 0x0
WAIT_HINT : 0x0
SERVICE_NAME: AppXSvc
DISPLAY_NAME: AppX Deployment Service (AppXSVC)
TYPE : 30 WIN32
STATE : 4 RUNNING
(NOT_STOPPABLE, NOT_PAUSABLE, ACCEPTS_SHUTDOWN)
WIN32_EXIT_CODE : 0 (0x0)

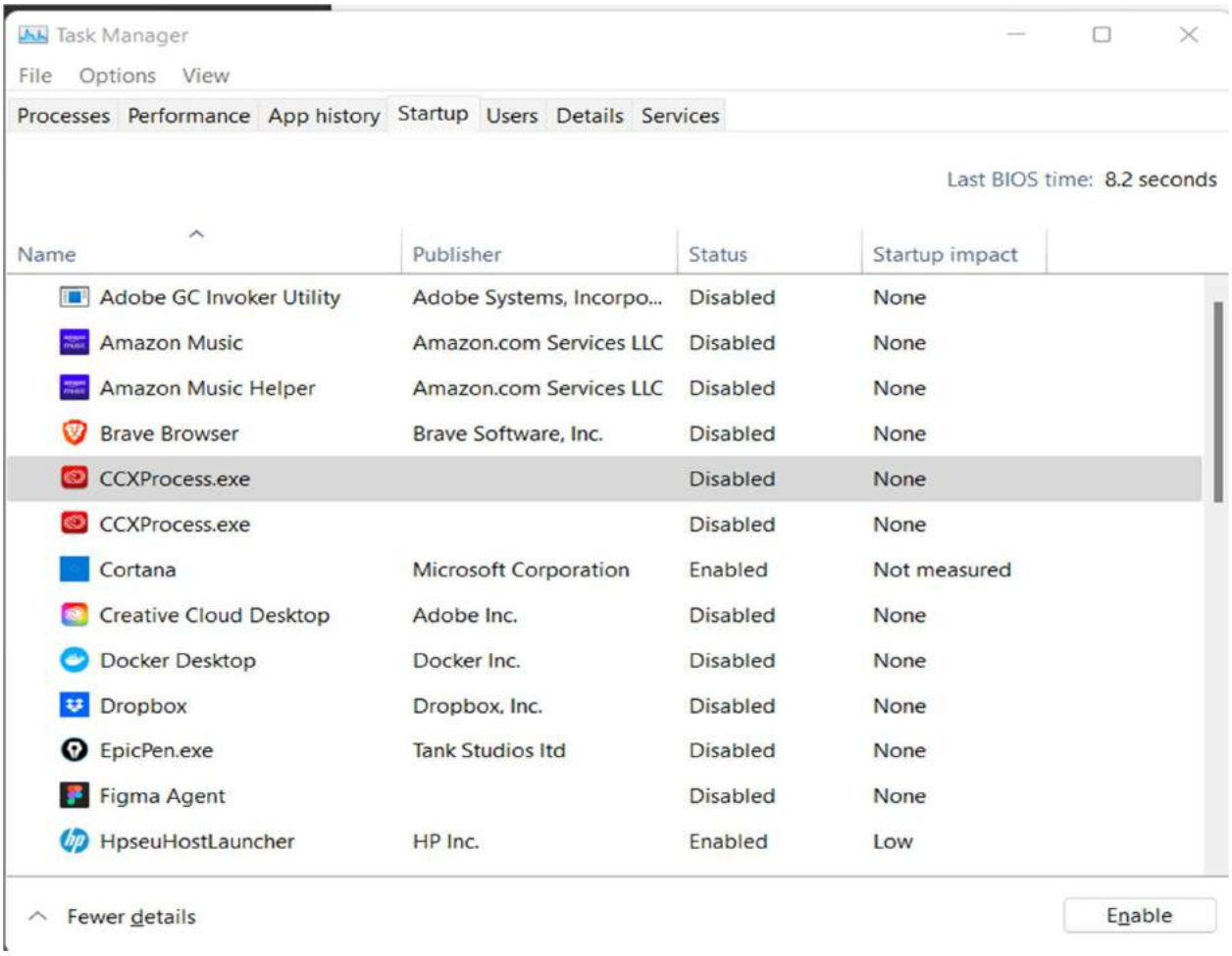

Command Prompt
C:\Users\HARSHIT>tasklist /svc
Image Name PID Services
System Idle Process 0 N/A
System 4 N/A
Secure System 136 N/A
Registry 208 N/A
smss.exe 636 N/A
csrss.exe 972 N/A
wininit.exe 664 N/A
services.exe 1056 N/A
LsaIso.exe 1076 N/A
lsass.exe 1084 EFS, KeyIso, SamSs, VaultSvc
svchost.exe 1200 BrokerInfrastructure, DcomLaunch, PlugPlay, Power, SystemEventsBroker
fontdrvhost.exe 1228 N/A
WUDFHost.exe 1284 N/A
svchost.exe 1332 RpcEptMapper, RpcSs
svchost.exe 1384 LSM
svchost.exe 1612 HvHost
svchost.exe 1620 TermService
svchost.exe 1792 NcbService
svchost.exe 1864 Schedule
svchost.exe 1872 ProfSvc
svchost.exe 1880 TimeBrokerSvc
svchost.exe 1908 DisplayEnhancementService
svchost.exe 1992 nsi
svchost.exe 1140 UserManager
svchost.exe 1136 TabletInputService
svchost.exe 1344 netprofm
svchost.exe 2192 camsvc
svchost.exe 2240 DevQueryBroker
svchost.exe 2264 CoreMessagingRegistrar
svchost.exe 2432 UmRdpService
svchost.exe 2504 Winmgmt
AppHelperCap.exe 2520 HPAppHelperCap
NetworkCap.exe 2528 HPNetworkCap
DiagsCap.exe 2536 HPDiagsCap
svchost.exe 2696 CertPropSvc
svchost.exe 2732 Dnscache
TouchpointAnalyticsClient 2780 HpTouchpointAnalyticsService
svchost.exe 2900 CryptSvc
svchost.exe 2916 LanmanWorkstation
svchost.exe 3044 Dhcp
svchost.exe 2028 HNS
svchost.exe 2716 DispBrokerDesktopSvc
svchost.exe 3124 SessionEnv

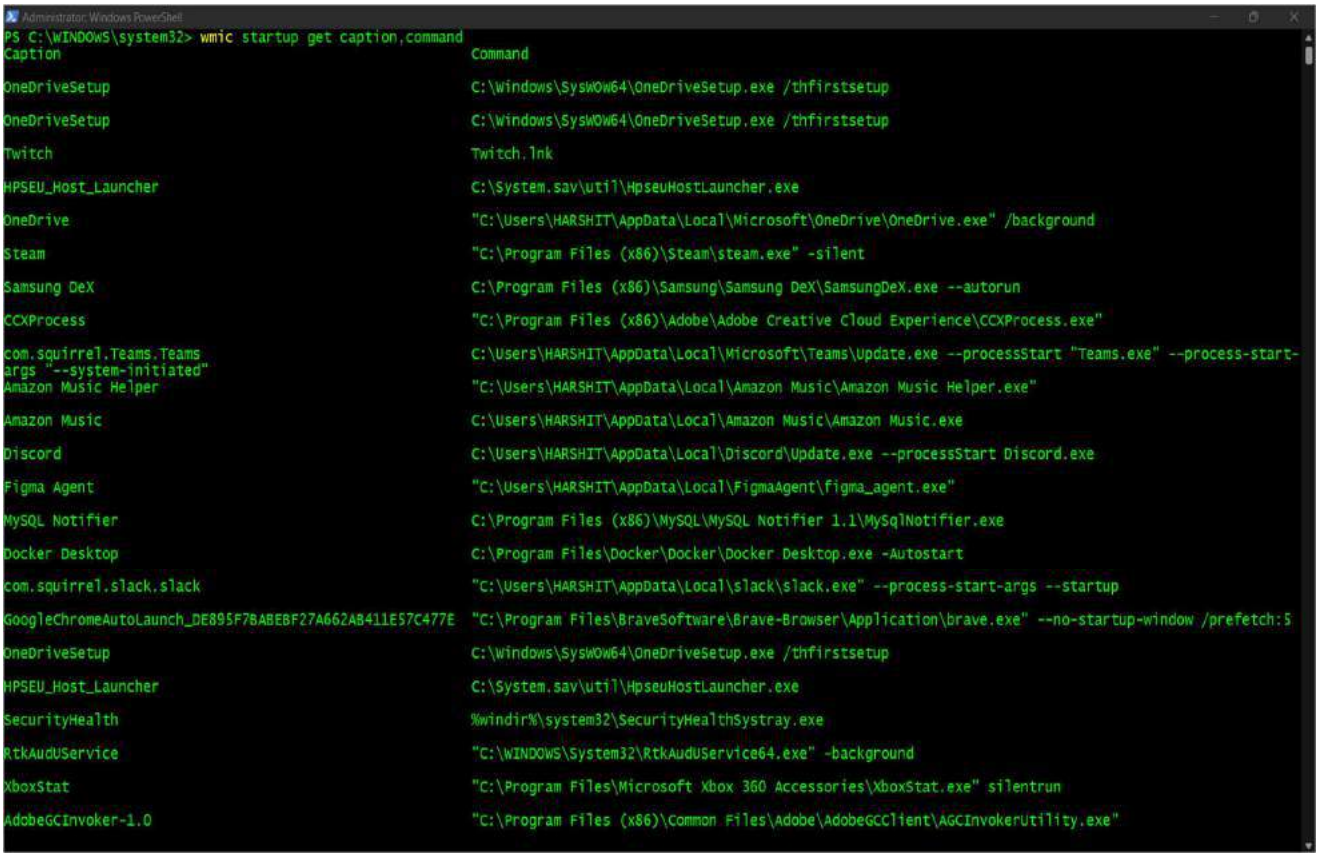
TASK SCHEDULER



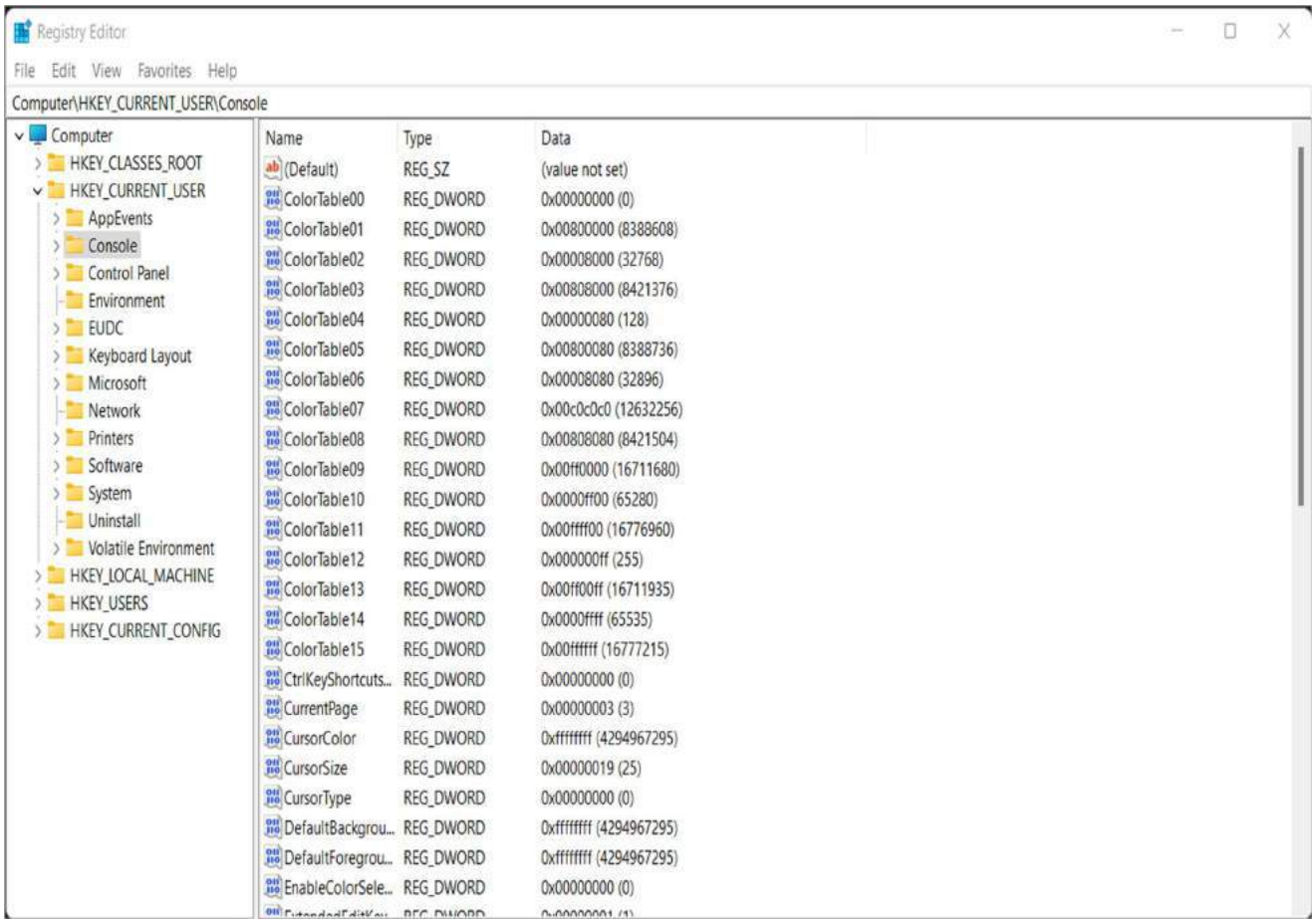
STARTUP


Task Manager
File Options View
Processes Performance App history Startup Users Details Services
Last BIOS time: 8.2 seconds
Name Publisher Status Startup impact
Adobe GC Invoker Utility Adobe Systems, Incorpo... Disabled None
Amazon Music Amazon.com Services LLC Disabled None
Amazon Music Helper Amazon.com Services LLC Disabled None
Brave Browser Brave Software, Inc. Disabled None
CCXProcess.exe Disabled None
CCXProcess.exe Disabled None
Cortana Microsoft Corporation Enabled Not measured
Creative Cloud Desktop Adobe Inc. Disabled None
Docker Desktop Docker Inc. Disabled None
Dropbox Dropbox, Inc. Disabled None
EpicPen.exe Tank Studios ltd Disabled None
Figma Agent Disabled None
HpseuHostLauncher HP Inc. Enabled Low
Fewer details
Enable


Administrator: Windows PowerShell
PS C:\WINDOWS\system32> wmic startup get caption,command
Caption Command
OneDriveSetup C:\Windows\SysWOW64\OneDriveSetup.exe /thfirstsetup
OneDriveSetup C:\Windows\SysWOW64\OneDriveSetup.exe /thfirstsetup
Twitch Twitch.lnk
HPSEU_Host_Launcher C:\System.sav\util\HpseuHostLauncher.exe
OneDrive "C:\Users\HARSHIT\AppData\Local\Microsoft\OneDrive\OneDrive.exe" /background
Steam "C:\Program Files (x86)\Steam\steam.exe" -silent
Samsung DeX C:\Program Files (x86)\Samsung\Samsung DeX\SamsungDeX.exe --autorun
CCXProcess "C:\Program Files (x86)\Adobe\Adobe Creative Cloud Experience\CCXProcess.exe"
com.squirrel.Teams.Teams C:\Users\HARSHIT\AppData\Local\Microsoft\Teams\Update.exe --processStart "Teams.exe" --process-start-args "--system-initiated"
Amazon Music Helper "C:\Users\HARSHIT\AppData\Local\Amazon Music\Amazon Music Helper.exe"
Amazon Music C:\Users\HARSHIT\AppData\Local\Amazon Music\Amazon Music.exe
Discord C:\Users\HARSHIT\AppData\Local\Discord\Update.exe --processStart Discord.exe
Figma Agent "C:\Users\HARSHIT\AppData\Local\FigmaAgent\figma_agent.exe"
MySQL Notifier C:\Program Files (x86)\MySQL\MySQL Notifier 1.1\MySqlNotifier.exe
Docker Desktop C:\Program Files\Docker\Docker\Docker Desktop.exe -Autostart
com.squirrel.slack.slack "C:\Users\HARSHIT\AppData\Local\slack\slack.exe" --process-start-args --startup
GoogleChromeAutoLaunch_DE895F7BABEBF27A662AB411E57C477E "C:\Program Files\BraveSoftware\Brave-Browser\Application\brave.exe" --no-startup-window /prefetch:5
OneDriveSetup C:\Windows\SysWOW64\OneDriveSetup.exe /thfirstsetup
HPSEU_Host_Launcher C:\System.sav\util\HpseuHostLauncher.exe
SecurityHealth %windir%\system32\SecurityHealthSystray.exe
RtkAudUService "C:\WINDOWS\System32\RtkAudUService64.exe" -background
XboxStat "C:\Program Files\Microsoft Xbox 360 Accessories\XboxStat.exe" silentrun
AdobeGCInvoker-1.0 "C:\Program Files (x86)\Common Files\Adobe\AdobeGCClient\AGCInvokerUtility.exe"

```
Administrator: Windows PowerShell
PS C:\WINDOWS\system32> Get-CimInstance Win32_StartupCommand | Select-Object Name, command, Location, User | Format-List


Name     : OneDriveSetup
command  : C:\Windows\SysWOW64\OneDriveSetup.exe /thfirstsetup
Location : HKU\S-1-5-19\SOFTWARE\Microsoft\Windows\CurrentVersion\Run
User     : NT AUTHORITY\LOCAL SERVICE

Name     : OneDriveSetup
command  : C:\Windows\SysWOW64\OneDriveSetup.exe /thfirstsetup
Location : HKU\S-1-5-20\SOFTWARE\Microsoft\Windows\CurrentVersion\Run
User     : NT AUTHORITY\NETWORK SERVICE

Name     : Twitch
command  : Twitch.lnk
Location : Startup
User     : LAPTOP-UE4331SF\HARSHIT

Name     : HPSEU_Host_Launcher
command  : C:\System.sav\util\HpseuHostLauncher.exe
Location : HKU\S-1-5-21-3258786884-371703526-3764206948-1001\SOFTWARE\Microsoft\Windows\CurrentVersion\Run
User     : LAPTOP-UE4331SF\HARSHIT

Name     : OneDrive
command  : "C:\Users\HARSHIT\AppData\Local\Microsoft\OneDrive\OneDrive.exe" /background
Location : HKU\S-1-5-21-3258786884-371703526-3764206948-1001\SOFTWARE\Microsoft\Windows\CurrentVersion\Run
User     : LAPTOP-UE4331SF\HARSHIT

Name     : Steam
command  : "C:\Program Files (x86)\Steam\steam.exe" -silent
Location : HKU\S-1-5-21-3258786884-371703526-3764206948-1001\SOFTWARE\Microsoft\Windows\CurrentVersion\Run
User     : LAPTOP-UE4331SF\HARSHIT

Name     : Samsung DeX
command  : C:\Program Files (x86)\Samsung\Samsung DeX\SamsungDeX.exe --autorun
Location : HKU\S-1-5-21-3258786884-371703526-3764206948-1001\SOFTWARE\Microsoft\Windows\CurrentVersion\Run
User     : LAPTOP-UE4331SF\HARSHIT

Name     : CCXProcess
command  : "C:\Program Files (x86)\Adobe\Adobe Creative Cloud Experience\CCXProcess.exe"
Location : HKU\S-1-5-21-3258786884-371703526-3764206948-1001\SOFTWARE\Microsoft\Windows\CurrentVersion\Run
User     : LAPTOP-UE4331SF\HARSHIT

Name     : com.squirrel.Teams.Teams
command  : C:\Users\HARSHIT\AppData\Local\Microsoft\Teams\Update.exe --processStart "Teams.exe" --process-start-args "--system-initiated"
Location : HKU\S-1-5-21-3258786884-371703526-3764206948-1001\SOFTWARE\Microsoft\Windows\CurrentVersion\Run
User     : LAPTOP-UE4331SF\HARSHIT

Name     : Amazon Music Helper
```

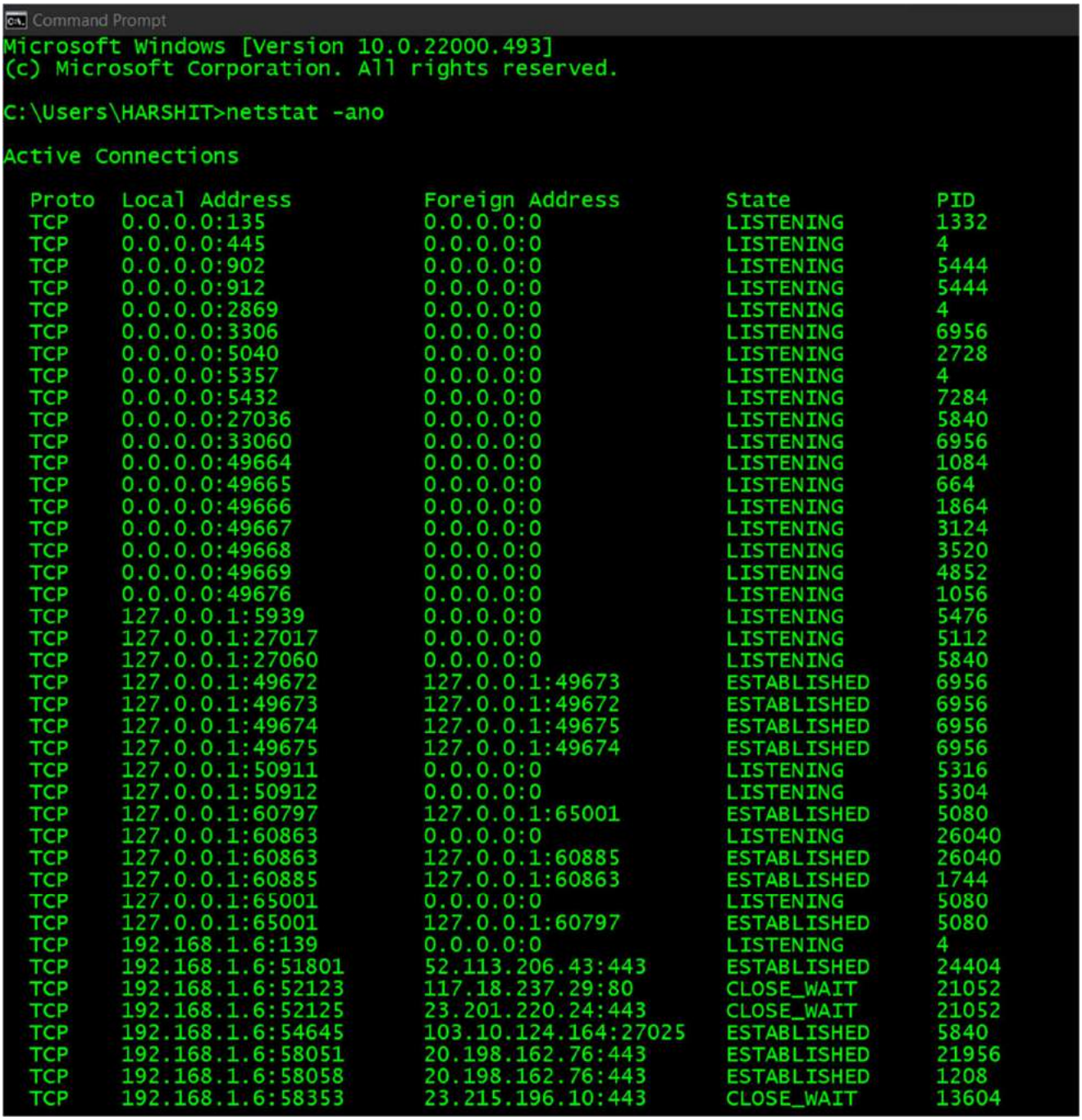
REGISTRY EDITOR



```
Administrator: Windows PowerShell
PS C:\WINDOWS\system32> reg query HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\Run

HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Run
    SecurityHealth    REG_EXPAND_SZ    %windir%\system32\SecurityHealthSystray.exe
    RtkAudUService    REG_SZ    "C:\WINDOWS\System32\RtkAudUService64.exe" -background
    XboxStat    REG_SZ    "C:\Program Files\Microsoft Xbox 360 Accessories\XboxStat.exe" silentrun
    AdobeGCInvoker-1.0    REG_SZ    "C:\Program Files (x86)\Common Files\Adobe\AdobeGCClient\AGCInvokerUtility.exe"
    PentabletService    REG_SZ    C:\Program Files\Pentablet\PentabletService.exe

PS C:\WINDOWS\system32>
```

```
Administrator: Windows PowerShell
PS C:\WINDOWS\system32> reg query HKEY_CURRENT_USER\SOFTWARE\Microsoft\Windows\CurrentVersion\Run

HKEY_CURRENT_USER\SOFTWARE\Microsoft\Windows\CurrentVersion\Run
    HPSEU_Host_Launcher    REG_SZ    C:\System.sav\util\HpseuHostLauncher.exe
    OneDrive    REG_SZ    "C:\Users\HARSHIT\AppData\Local\Microsoft\OneDrive\OneDrive.exe" /background
    Steam    REG_SZ    "C:\Program Files (x86)\Steam\steam.exe" -silent
    Samsung DeX    REG_SZ    C:\Program Files (x86)\Samsung\Samsung DeX\SamsungDeX.exe --autorun
    CCXProcess    REG_SZ    "C:\Program Files (x86)\Adobe\Adobe Creative Cloud Experience\CCXProcess.exe"
    com.squirrel.Teams.Teams    REG_SZ    C:\Users\HARSHIT\AppData\Local\Microsoft\Teams\Update.exe --processStart "Teams.exe" --process-start-args "--system-
initiated"
    Amazon Music Helper    REG_SZ    "C:\Users\HARSHIT\AppData\Local\Amazon Music\Amazon Music Helper.exe"
    Amazon Music    REG_SZ    C:\Users\HARSHIT\AppData\Local\Amazon Music\Amazon Music.exe
    Discord    REG_SZ    C:\Users\HARSHIT\AppData\Local\Discord\Update.exe --processStart Discord.exe
    Figma Agent    REG_SZ    "C:\Users\HARSHIT\AppData\Local\FigmaAgent\figma_agent.exe"
    MySQL Notifier    REG_SZ    C:\Program Files (x86)\MySQL\MySQL Notifier 1.1\MySqlNotifier.exe
    Docker Desktop    REG_SZ    C:\Program Files\Docker\Docker\Docker Desktop.exe -Autostart
    com.squirrel.slack.slack    REG_SZ    "C:\Users\HARSHIT\AppData\Local\slack\slack.exe" --process-start-args --startup
    GoogleChromeAutoLaunch_DE895F7BABEBF27A662AB411E57C477E    REG_SZ    "C:\Program Files\BraveSoftware\Brave-Browser\Application\brave.exe" --no-startup-win
dow /prefetch:5

PS C:\WINDOWS\system32>
```

NETWORK [TCP and UDP]

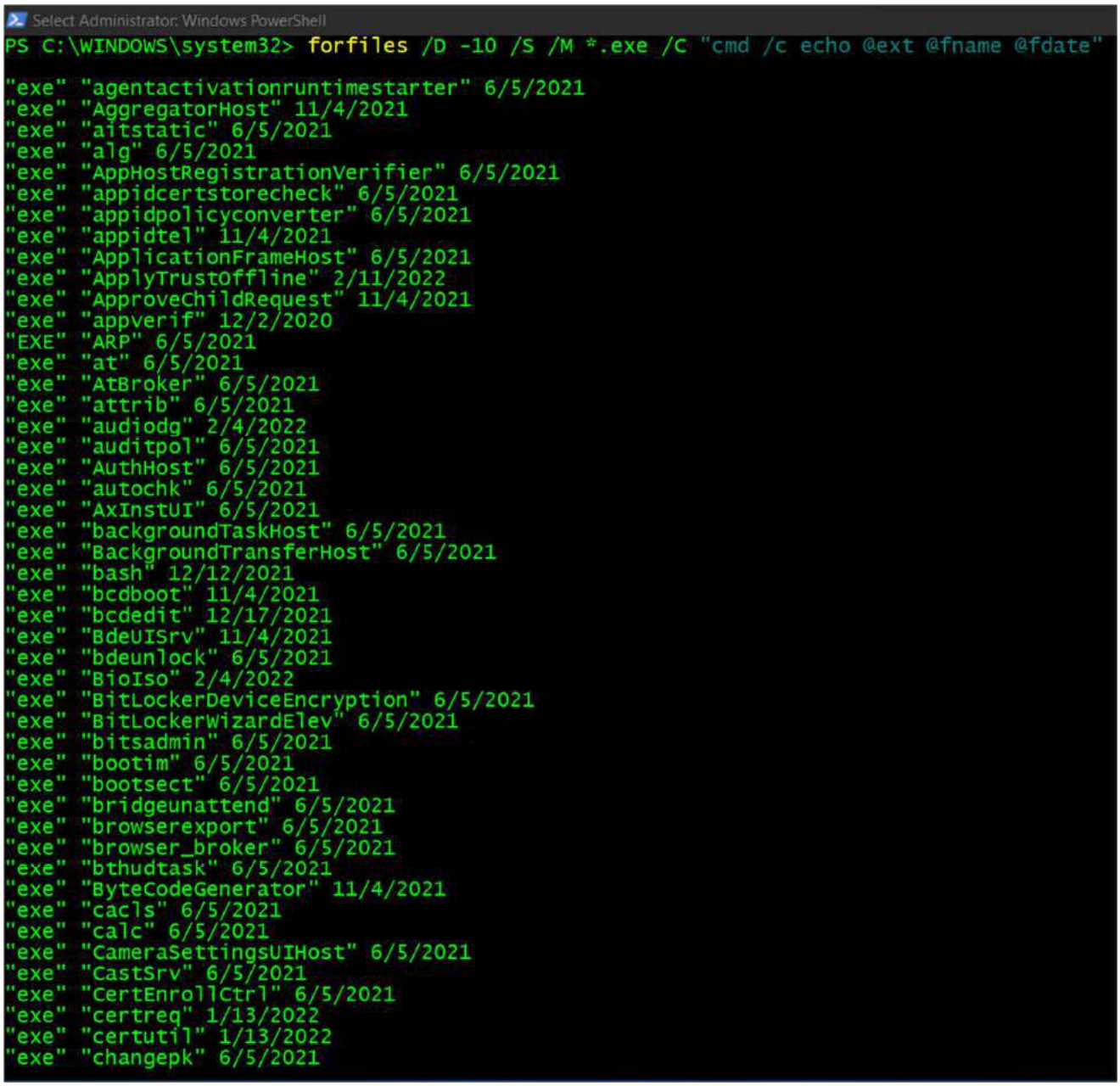


```
Administrator: Windows PowerShell
PS C:\WINDOWS\system32> Get-NetTCPConnection -LocalAddress 192.168.1.6 | Sort-Object LocalPort

LocalAddress                LocalPort RemoteAddress               RemotePort State       AppliedSetting OwningProcess
------------                --------- -------------               ---------- -----       -------------- -------------
192.168.1.6                 139       0.0.0.0                     0          Listen                     4
192.168.1.6                 51801     52.113.206.43               443        Established Internet       24404
192.168.1.6                 52123     117.18.237.29               80         CloseWait   Internet       21052
192.168.1.6                 52125     23.201.220.24               443        CloseWait   Internet       21052
192.168.1.6                 54645     103.10.124.164              27025      Established Internet       5840
192.168.1.6                 58051     20.198.162.76               443        Established Internet       21956
192.168.1.6                 58058     20.198.162.76               443        Established Internet       1208
192.168.1.6                 58353     23.215.196.10               443        CloseWait   Internet       13604
192.168.1.6                 58416     18.66.78.126                443        CloseWait   Internet       28008
192.168.1.6                 58417     117.18.237.29               80         CloseWait   Internet       28008
192.168.1.6                 58418     54.200.189.169              443        CloseWait   Internet       28008
192.168.1.6                 58600     20.198.162.78               443        Established Internet       20844
192.168.1.6                 58876     52.114.44.84                443        Established Internet       20452
192.168.1.6                 59431     54.239.36.69                443        Established Internet       14136
192.168.1.6                 59478     199.232.253.229             443        Established Internet       14136
192.168.1.6                 59499     18.66.85.28                 443        Established Internet       14136
192.168.1.6                 59500     142.250.194.197             443        Established Internet       14136
192.168.1.6                 59501     52.114.133.48               443        Established Internet       24404
192.168.1.6                 59502     52.114.133.48               443        Established Internet       24404
192.168.1.6                 59503     52.113.194.132              443        Established Internet       24404
192.168.1.6                 59504     13.107.3.254                443        Established Internet       11284
192.168.1.6                 59505     204.79.197.200              443        Established Internet       11284
192.168.1.6                 59506     117.18.232.200              443        Established Internet       11284
192.168.1.6                 59507     13.107.128.254              443        Established Internet       11284
192.168.1.6                 59508     52.109.56.48                443        Established Internet       11244
192.168.1.6                 59509     204.79.197.222              443        Established Internet       11284
192.168.1.6                 59511     23.15.34.108                80         Established Internet       2900
192.168.1.6                 59512     23.15.34.108                80         Established Internet       2900
192.168.1.6                 59513     23.15.34.108                80         Established Internet       2900
192.168.1.6                 59539     52.218.136.1                443        CloseWait   Internet       12784
192.168.1.6                 60786     20.198.162.76               443        Established Internet       5736


PS C:\WINDOWS\system32>
```

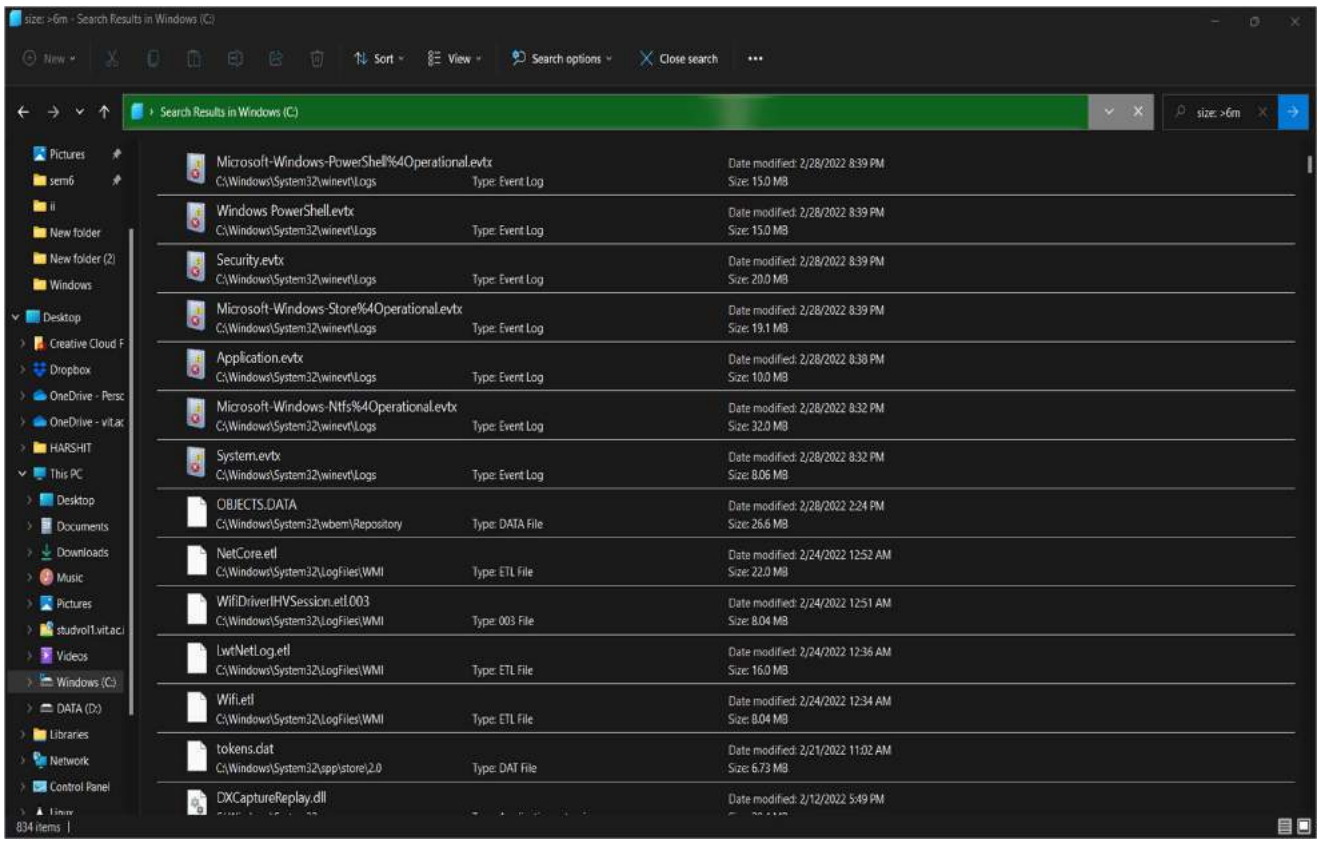
```
Administrator: Windows PowerShell
PS C:\WINDOWS\system32> net view \\127.0.0.1
There are no entries in the list.

PS C:\WINDOWS\system32>
```

```
Administrator: Windows PowerShell
PS C:\WINDOWS\system32> Get-SMBShare

Name    ScopeName Path        Description
----    --------- ----        -----------
ADMIN$  *         C:\WINDOWS  Remote Admin
C$      *         C:\         Default share
D$      *         D:\         Default share
IPC$    *                     Remote IPC


PS C:\WINDOWS\system32>
```

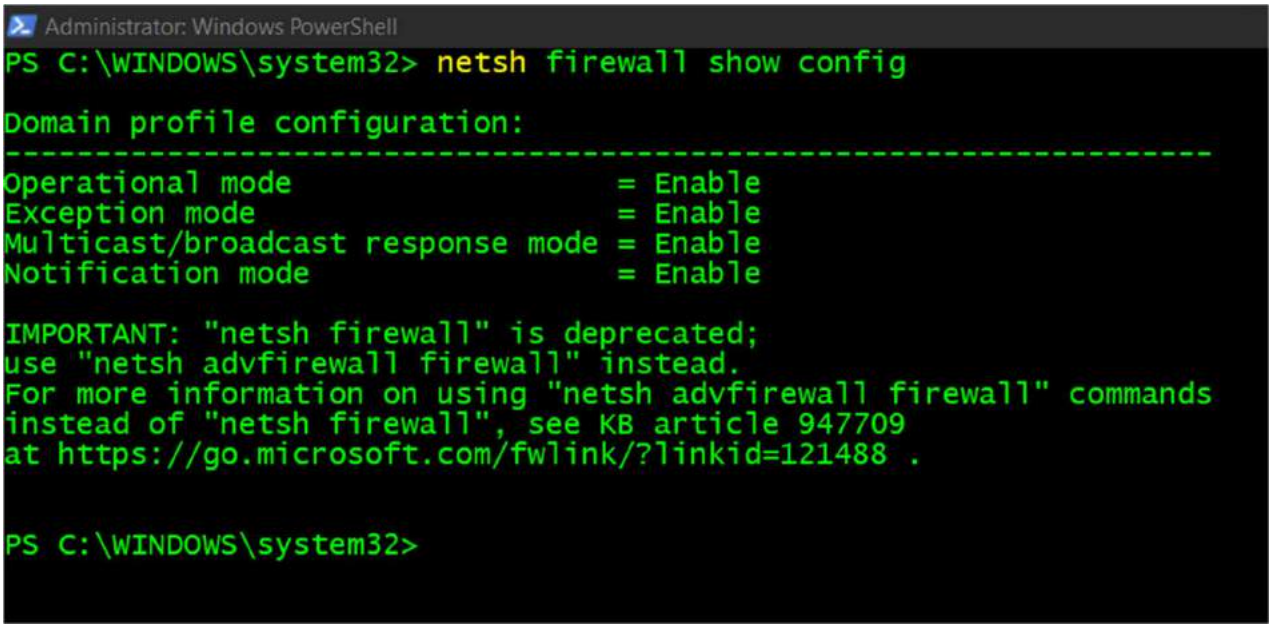
FILES and FILE SHARING:


Select Administrator: Windows PowerShell
PS C:\WINDOWS\system32> forfiles /D -10 /S /M *.exe /C "cmd /c echo @ext @fname @fdate"
"exe" "agentactivationruntimestarter" 6/5/2021
"exe" "AggregatorHost" 11/4/2021
"exe" "aitstatic" 6/5/2021
"exe" "alg" 6/5/2021
"exe" "AppHostRegistrationVerifier" 6/5/2021
"exe" "appidcertstorecheck" 6/5/2021
"exe" "appidpolicyconverter" 6/5/2021
"exe" "appidtel" 11/4/2021
"exe" "ApplicationFrameHost" 6/5/2021
"exe" "ApplyTrustOffline" 2/11/2022
"exe" "ApproveChildRequest" 11/4/2021
"exe" "appverif" 12/2/2020
"EXE" "ARP" 6/5/2021
"exe" "at" 6/5/2021
"exe" "AtBroker" 6/5/2021
"exe" "attrib" 6/5/2021
"exe" "audiodg" 2/4/2022
"exe" "auditpol" 6/5/2021
"exe" "AuthHost" 6/5/2021
"exe" "autochk" 6/5/2021
"exe" "AxInstUI" 6/5/2021
"exe" "backgroundTaskHost" 6/5/2021
"exe" "BackgroundTransferHost" 6/5/2021
"exe" "bash" 12/12/2021
"exe" "bcdboot" 11/4/2021
"exe" "bcdedit" 12/17/2021
"exe" "BdeUISrv" 11/4/2021
"exe" "bdeunlock" 6/5/2021
"exe" "BioIso" 2/4/2022
"exe" "BitLockerDeviceEncryption" 6/5/2021
"exe" "BitLockerWizardElev" 6/5/2021
"exe" "bitsadmin" 6/5/2021
"exe" "bootim" 6/5/2021
"exe" "bootsect" 6/5/2021
"exe" "bridgeunattend" 6/5/2021
"exe" "browserexport" 6/5/2021
"exe" "browser_broker" 6/5/2021
"exe" "bthudtask" 6/5/2021
"exe" "ByteCodeGenerator" 11/4/2021
"exe" "cacls" 6/5/2021
"exe" "calc" 6/5/2021
"exe" "CameraSettingsUIHost" 6/5/2021
"exe" "CastSrv" 6/5/2021
"exe" "CertEnrollCtrl" 6/5/2021
"exe" "certreq" 1/13/2022
"exe" "certutil" 1/13/2022
"exe" "changepk" 6/5/2021


Select Administrator: Windows PowerShell
PS C:\WINDOWS\system32> forfiles /p c: /S /D -10
"0409"
"07409496-a423-4a3e-b620-2cfb01a9318d_HyperV-ComputeNetwork.dll"
"0ae3b998-9a38-4b72-a4c4-06849441518d_Servicing-Stack.dll"
"1028"
"1029"
"1031"
"1033"
"1036"
"1040"
"1041"
"1042"
"1045"
"1046"
"1049"
"1055"
"2052"
"3082"
"69fe178f-26e7-43a9-aa7d-2b616b672dde_eventlogservice.dll"
"6bea57fb-8dfb-4177-9ae8-42e8b3529933_RuntimeDeviceInstall.dll"
"@AdvancedKeySettingsNotification.png"
"@AppHelpToast.png"
"@AudioToastIcon.png"
"@BackgroundAccessToastIcon.png"
"@bitlockertoastimage.png"
"@edptoastimage.png"
"@EnrollmentToastIcon.png"
"@language_notification_icon.png"
"@optionalfeatures.png"
"@StorageSenseToastIcon.png"
"@VpnToastIcon.png"
"@windows-hello-V4.1.gif"
"@WindowsHelloFaceToastIcon.png"
"@WindowsUpdateToastIcon.contrast-black.png"
"@WindowsUpdateToastIcon.contrast-white.png"
"@WindowsUpdateToastIcon.png"
"@WirelessDisplayToast.png"
"@WLOGO_48x48.png"
"aadauthhelper.dll"
"aadcloudap.dll"
"aadjcsp.dll"
"aadtb.dll"
"aadWamExtension.dll"
"AarSvc.dll"
"AboutSettingsHandlers.dll"
"AboveLockAppHost.dll"
"accessibilitycpl.dll"
"accountaccessor.dll"

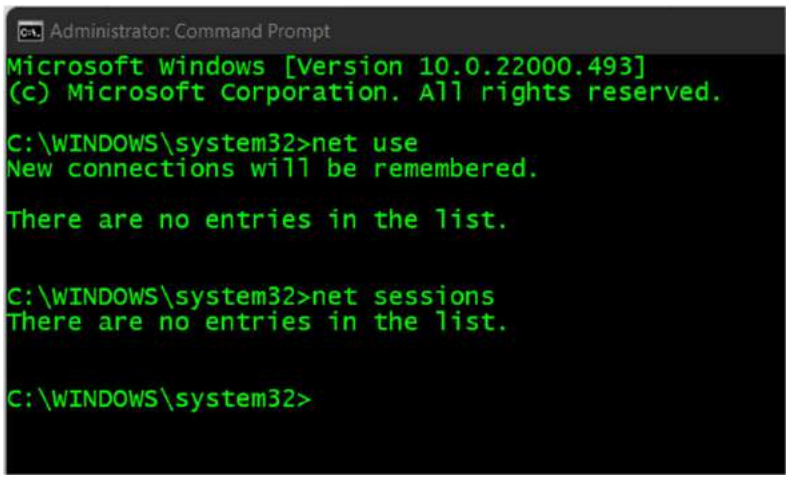

size: >6m - Search Results in Windows (C:)
New
Sort
View
Search options
Close search
Search Results in Windows (C:)
size: >6m
Pictures
sem6
ii
New folder
New folder (2)
Windows
Desktop
Creative Cloud F
Dropbox
OneDrive - Persc
OneDrive - vit.ac
HARSHIT
This PC
Desktop
Documents
Downloads
Music
Pictures
studvol1.vit.ac.i
Videos
Windows (C:)
DATA (D:)
Libraries
Network
Control Panel
Microsoft-Windows-PowerShell%4Operational.evtx
C:\Windows\System32\winevt\Logs
Type: Event Log
Date modified: 2/28/2022 8:39 PM
Size: 15.0 MB
Windows PowerShell.evtx
C:\Windows\System32\winevt\Logs
Type: Event Log
Date modified: 2/28/2022 8:39 PM
Size: 15.0 MB
Security.evtx
C:\Windows\System32\winevt\Logs
Type: Event Log
Date modified: 2/28/2022 8:39 PM
Size: 20.0 MB
Microsoft-Windows-Store%4Operational.evtx
C:\Windows\System32\winevt\Logs
Type: Event Log
Date modified: 2/28/2022 8:39 PM
Size: 19.1 MB
Application.evtx
C:\Windows\System32\winevt\Logs
Type: Event Log
Date modified: 2/28/2022 8:38 PM
Size: 10.0 MB
Microsoft-Windows-Ntfs%4Operational.evtx
C:\Windows\System32\winevt\Logs
Type: Event Log
Date modified: 2/28/2022 8:32 PM
Size: 32.0 MB
System.evtx
C:\Windows\System32\winevt\Logs
Type: Event Log
Date modified: 2/28/2022 8:32 PM
Size: 8.06 MB
OBJECTS.DATA
C:\Windows\System32\wbem\Repository
Type: DATA File
Date modified: 2/28/2022 2:24 PM
Size: 26.6 MB
NetCore.etl
C:\Windows\System32\LogFiles\WMI
Type: ETL File
Date modified: 2/24/2022 12:52 AM
Size: 22.0 MB
WifiDriverIHVSession.etl.003
C:\Windows\System32\LogFiles\WMI
Type: 003 File
Date modified: 2/24/2022 12:51 AM
Size: 8.04 MB
LwtNetLog.etl
C:\Windows\System32\LogFiles\WMI
Type: ETL File
Date modified: 2/24/2022 12:36 AM
Size: 16.0 MB
Wifi.etl
C:\Windows\System32\LogFiles\WMI
Type: ETL File
Date modified: 2/24/2022 12:34 AM
Size: 8.04 MB
tokens.dat
C:\Windows\System32\spp\store\2.0
Type: DAT File
Date modified: 2/21/2022 11:02 AM
Size: 6.73 MB
DXCaptureReplay.dll
Date modified: 2/12/2022 5:49 PM
834 items

FIREWALL SETTINGS:

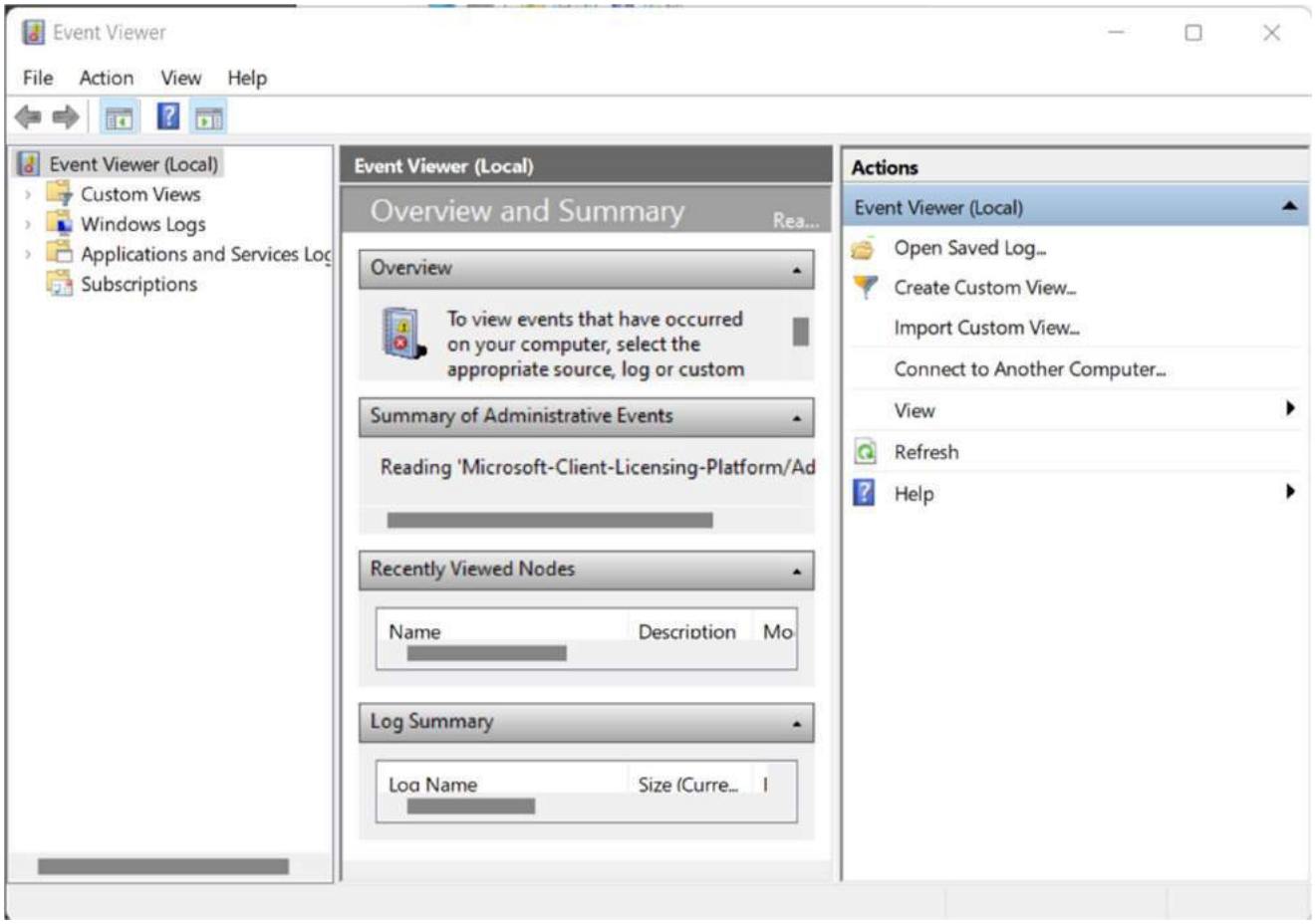


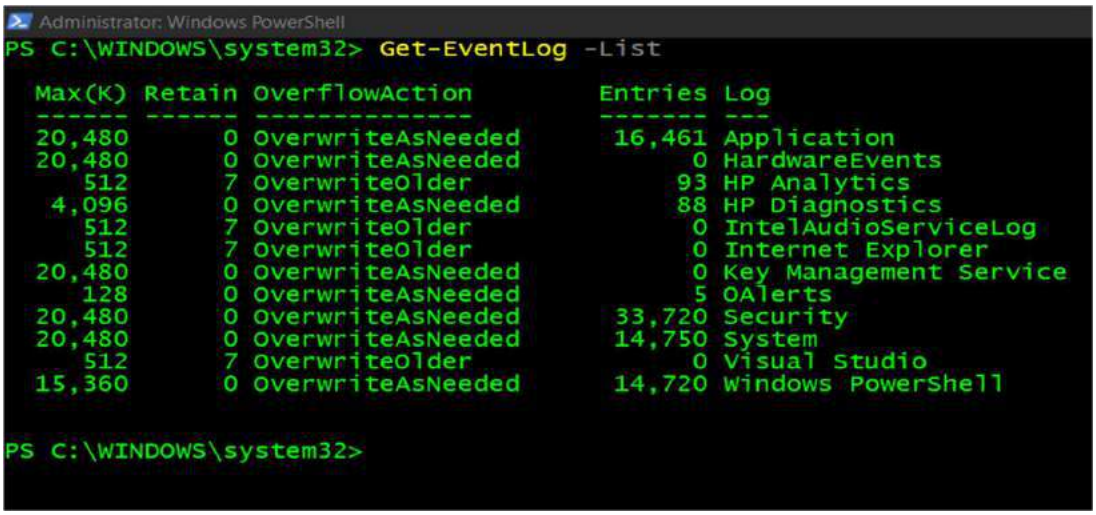


SESSIONS



LOG ENTRIES


Event Viewer
File Action View Help
Event Viewer (Local)
Custom Views
Windows Logs
Applications and Services Log
Subscriptions
Event Viewer (Local)
Overview and Summary
Overview
To view events that have occurred on your computer, select the appropriate source, log or custom
Summary of Administrative Events
Reading 'Microsoft-Client-Licensing-Platform/Ad
Recently Viewed Nodes
Name
Description
Log Summary
Log Name
Size (Curre...
Actions
Event Viewer (Local)
Open Saved Log...
Create Custom View...
Import Custom View...
Connect to Another Computer...
View
Refresh
Help


Administrator: Windows PowerShell
PS C:\WINDOWS\system32> Get-EventLog -List
Max(K) Retain OverflowAction Entries Log
20,480 0 OverwriteAsNeeded 16,461 Application
20,480 0 OverwriteAsNeeded 0 HardwareEvents
512 7 OverwriteOlder 93 HP Analytics
4,096 0 OverwriteAsNeeded 88 HP Diagnostics
512 7 OverwriteOlder 0 IntelAudioServiceLog
512 7 OverwriteOlder 0 Internet Explorer
20,480 0 OverwriteAsNeeded 0 Key Management Service
128 0 OverwriteAsNeeded 5 OAlerts
20,480 0 OverwriteAsNeeded 33,720 Security
20,480 0 OverwriteAsNeeded 14,750 System
512 7 OverwriteOlder 0 Visual Studio
15,360 0 OverwriteAsNeeded 14,720 Windows PowerShell
PS C:\WINDOWS\system32>

# DEMONSTRATION OF MAN IN THE MIDDLE ATTACK USING PENETRATION TESTING TOOLS

**INFORMATION SECURITY MANAGEMENT (CSE3502)**

**J COMPONENT [F2/ L5+L6]**

**HARSHIT SRIVASTAVA**

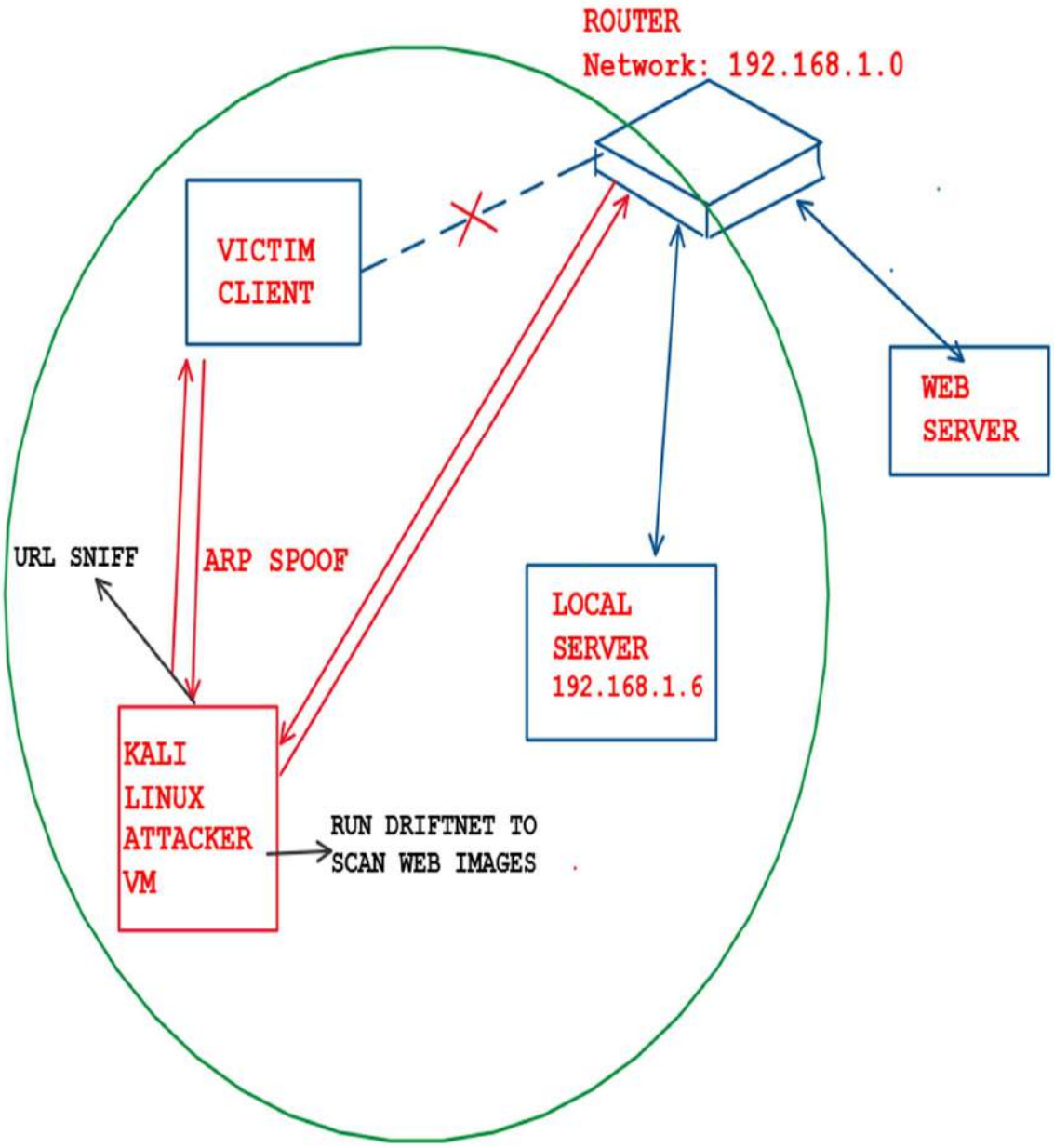
**19BCE0382**

**WINTER SEMESTER 2021-22**

**PROFESSOR: SIVA SHANMUGAM G**

**ARCHITECTURE DIAGRAM AND WORKING MODEL**

**Architecture Diagram:**



## Working Model:

A **Man in the Middle attack** occurs when a hacker inserts itself between the communications of a client and a server.

**ARP spoofing** is a type of attack in which a malicious actor sends falsified ARP (Address Resolution Protocol) messages over a local area network. This results in the linking of an attacker's MAC address with the IP address of a legitimate computer or server on the network. Once the attacker's MAC address is connected to an authentic IP address, the attacker will begin receiving any data that is intended for that IP address. ARP spoofing can enable malicious parties to intercept, modify or even stop data in-transit. ARP spoofing attacks can only occur on local area networks that utilize the Address Resolution Protocol. MITM attacks can rely on ARP spoofing to intercept and modify traffic between victims.

## Methodology:

Firstly, here we are using a Kali Linux machine as an attacker which is connected to the same network as that of Client which is our target/victim. In our Linux machine we would enable packet forwarding such that it acts like a router. So, while a client sends a request it would actually reach to the attacker machine and the request will be forwarded from there to the Router/ Internet Server.

In this scenario we will be using ARP spoofing. Here the packets in the LAN that are intended for the router by the client will be captured by our attack machine. This way we will be able to sniff all the packets and monitor the flow from victim/client to the router.

Similarly, it will be necessary for us to intercept packets from routers to the victim to be redirected via the attacker in case of a response. We will again use ARP spoofing for the same. With this, we have created a tunnel for all the

communications between the victim client and the router such that all incoming and outgoing data packets are routed via our attacker machine.

At this stage, our requirement is to sniff images from these packets which means reading the data packets. So, in order to see the images of websites that our victim visits we will use a tool known as driftnet. Driftnet is a program which listens to network traffic and picks out images from TCP streams it observes. Fun to run on a host which sees lots of web traffic. It is necessary to note that in case our attack machine is not forwarding the packets, the internet connection of the client will freeze thus the attack will be rendered useless.

Finally, in this process, we will use another tool known as urlsnarf, which is used to get information about the websites that our victim visits, it's a command line tool that sniffs HTTP requests in Common Log Format. It outputs all requested URLs sniffed from HTTP traffic in CLF (Common Log Format, used by almost all web servers), suitable for offline post-processing using web log analysis tool (analog, wwwstat, etc.).