

19CS417-Ethical Hacking Techniques

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KALI-LINUX COMMAND

- *ls*

```
(kali㉿kali)-[~]  
$ ls  
Desktop  Documents  Downloads  Music  Pictures  Public  Templates  users.txt  Videos
```

- *pwd*

```
(user㉿kali)-[~]  
$ pwd  
/home/user
```

- *mkdir*

```
(kali㉿kali)-[~]  
$ mkdir file1
```

- *rmdir*

```
(kali㉿kali)-[~]  
$ rmdir file1
```

- *cd*

```
(kali㉿kali)-[~]  
$ cd sreyy
```

- **cat**

```
(kali㉿kali)-[~/sreyy]  
$ cat > file2  
helllooo
```

- **cp**

```
(kali㉿kali)-[~/sreyy]  
$ cp file2 file3  
  
(kali㉿kali)-[~/sreyy]  
$ cat file3  
helllooo
```

- **mv**

```
(kali㉿kali)-[~/sreyy]  
$ mv file2 file3
```

- **id**

```
(kali㉿kali)-[~/sreyy]  
$ id  
uid=1000(kali) gid=1000(kali) groups=1000(kali),4(adm),20(dialout),24(cdrom),25(floppy),27(sudo),29(audio),30(dip),44(video),46(plugdev),100(users),101(netdev),103(scanner),107(bluetooth),125(lpadmin),133(wit  
oxsf)
```

- **ifconflg**

```

(kali㉿kali)-[~/sreyy]
$ ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.155.8.85 netmask 255.255.255.0 broadcast 10.155.8.255
    inet6 2401:4900:4de6:5c35:6b24:75f3:b0a0:3ca4 prefixlen 64 scopeid 0x0<global>
    inet6 fe80::e7cf:25f5:3a51:e1b7 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:d1:f8:5d txqueuelen 1000 (Ethernet)
    RX packets 140 bytes 16130 (15.7 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 50 bytes 6010 (5.8 KiB)
    TX errors 0 dropped 1 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 8 bytes 480 (480.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 8 bytes 480 (480.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

```

• chmod 777

```

(kali㉿kali)-[~/sreyy]
$ chmod 777 file3

```

• grep

```

(kali㉿kali)-[~/sreyy]
$ grep file3
3985
844
050906

```

• tr

```

(kali㉿kali)-[~/sreyy]
$ tr 'helllooo' hello<file3
heoooooooo

```

• tar

```
(kali㉿kali)-[~/sreyy]
$ tar cvf file3.tar file3
file3
```

- **make**

```
(kali㉿kali)-[~/sreyy]
$ make
make: *** No targets specified and no makefile found. Stop.
```

- **gzip**

```
(kali㉿kali)-[~/sreyy]
$ gzip file3
```

- **clear**

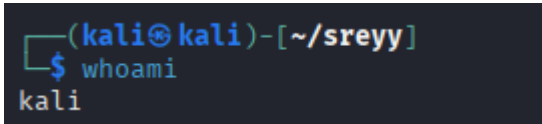
```
(kali㉿kali)-[~/sreyy]
$ clear
```

- **df**

```
(kali㉿kali)-[~/sreyy]
$ df
```

Filesystem	1K-blocks	Used	Available	Use%	Mounted on
udev	942708	0	942708	0%	/dev
tmpfs	202108	972	201136	1%	/run
/dev/sda1	82083148	15480016	62387584	20%	/
tmpfs	1010528	4	1010524	1%	/dev/shm
tmpfs	5120	0	5120	0%	/run/lock
tmpfs	1024	0	1024	0%	/run/credentials/systemd-journald.service
tmpfs	1010528	8	1010520	1%	/tmp
tmpfs	1024	0	1024	0%	/run/credentials/getty@tty1.service
tmpfs	202104	124	201980	1%	/run/user/1000

- **whoami**



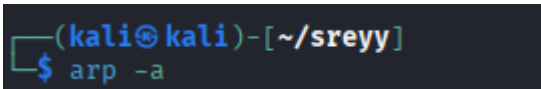
• searchsploit

```
(kali@kali)-[~/sreyy]
└─$ searchsploit apache 2.4
```

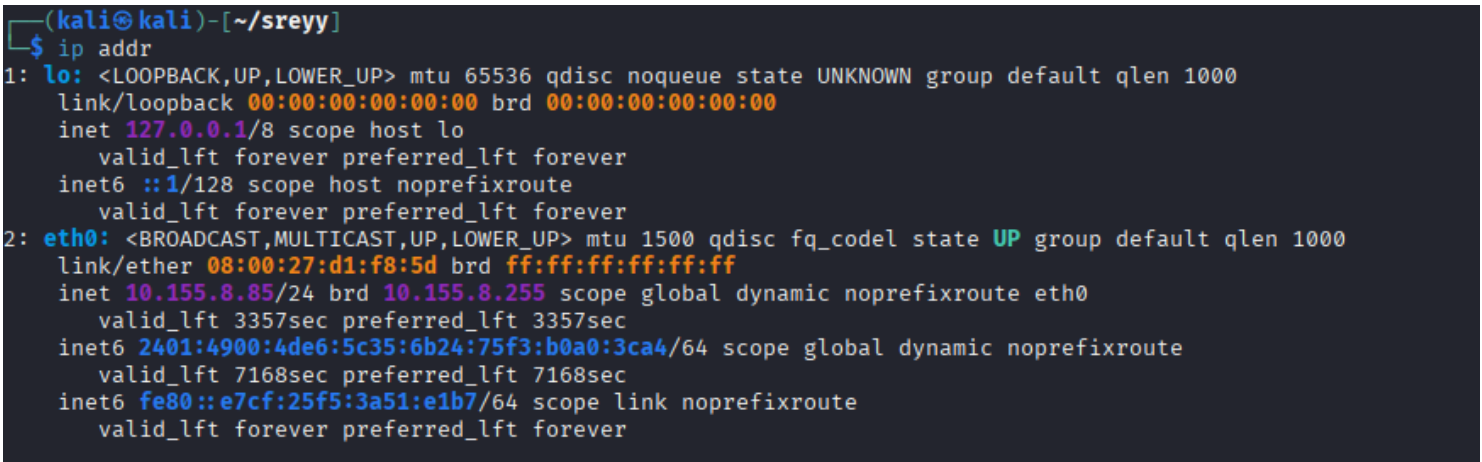
Exploit Title	Path
Apache + PHP < 5.3.12 / < 5.4.2 - cgi-bin Remote Code Execution	php/remote/29290.c
Apache + PHP < 5.3.12 / < 5.4.2 - Remote Code Execution + Scanner	php/remote/29316.py
Apache 2.2.4 - 413 Error HTTP Request Method Cross-Site Scripting	unix/remote/30835.sh
Apache 2.4.17 - Denial of Service	windows/dos/39037.php
Apache 2.4.17 < 2.4.30 - 'apache2ctl graceful' 'logrotate' Local Privilege Escalation	linux/local/46676.php
Apache 2.4.23 mod_http2 - Denial of Service	linux/dos/40909.py
Apache 2.4.7 + PHP 7.0.2 - 'openssl_seal()' Uninitialized Memory Code Execution	php/remote/40142.php
Apache 2.4.7 mod_status - Scoreboard Handling Race Condition	linux/dos/34133.txt
Apache 2.4.8 - Buffer Overflow	multiple/webapps/51193.py
Apache < 2.2.34 / < 2.4.27 - OPTIONS Memory Leak	linux/webapps/47245.py
Apache CXF < 2.5.10/2.6.7/2.7.4 - Denial of Service	multiple/dos/26710.txt
Apache HTTP Server 2.4.49 - Path Traversal & Remote Code Execution (RCE)	multiple/webapps/50383.sh
Apache HTTP Server 2.4.50 - Path Traversal & Remote Code Execution (RCE)	multiple/webapps/50406.sh
Apache HTTP Server 2.4.50 - Remote Code Execution (RCE) (2)	multiple/webapps/50446.sh
Apache HTTP Server 2.4.50 - Remote Code Execution (RCE) (3)	multiple/webapps/50512.py
Apache mod_ssl < 2.8.7 OpenSSL - 'OpenFuck.c' Remote Buffer Overflow	unix/remote/21671.c
Apache mod_ssl < 2.8.7 OpenSSL - 'OpenFuckV2.c' Remote Buffer Overflow (1)	unix/remote/764.c
Apache mod_ssl < 2.8.7 OpenSSL - 'OpenFuckV2.c' Remote Buffer Overflow (2)	unix/remote/47080.c
Apache OpenMeetings 1.9.x < 3.1.0 - '.ZIP' File Directory Traversal	linux/webapps/39642.txt
Apache Shiro 1.2.4 - Cookie RememberME Deserial RCE (Metasploit)	multiple/remote/48410.rb
Apache Tomcat 3.2.3/3.2.4 - 'RealPath.jsp' Information Disclosure	multiple/remote/21492.txt
Apache Tomcat 3.2.3/3.2.4 - 'Source.jsp' Information Disclosure	multiple/remote/21490.txt
Apache Tomcat 3.2.3/3.2.4 - Example Files Web Root Full Path Disclosure	multiple/remote/21491.txt
Apache Tomcat < 5.5.17 - Remote Directory Listing	multiple/remote/2061.txt
Apache Tomcat < 6.0.18 - 'utf8' Directory Traversal	unix/remote/14489.c
Apache Tomcat < 6.0.18 - 'utf8' Directory Traversal (PoC)	multiple/remote/6229.txt
Apache Tomcat < 9.0.1 (Beta) / < 8.5.23 / < 8.0.47 / < 7.0.8 - JSP Upload Bypass / Remote Code Execution (1)	windows/webapps/42953.txt
Apache Tomcat < 9.0.1 (Beta) / < 8.5.23 / < 8.0.47 / < 7.0.8 - JSP Upload Bypass / Remote Code Execution (2)	jsp/webapps/42966.py
Apache Xerces-C XML Parser < 3.1.2 - Denial of Service (PoC)	linux/dos/36906.txt
Webroot Shoutbox < 2.32 (Apache) - Local File Inclusion / Remote Code Execution	linux/remote/34.pl

Shellcodes: No Results

• arp -a



• ip addr



WINDOWS COMMANDS

• dir

```
C:\Users\admin>dir
Volume in drive C is Windows
Volume Serial Number is 8A5B-6C40

Directory of C:\Users\admin

11-08-2025  03:10    <DIR>          .
06-08-2025  10:07    <DIR>          ..
22-06-2025  21:15             6,579 -1.14-windows.xml
23-05-2025  11:29    <DIR>          .conda
03-08-2023  04:38             25 .condarc
03-08-2023  04:37    <DIR>          .continuum
20-03-2025  13:44    <DIR>          .icesoft
24-02-2025  15:36    <DIR>          .ipynb_checkpoints
03-08-2023  04:41    <DIR>          .ipython
03-08-2023  04:39    <DIR>          .jupyter
25-10-2024  11:40             20 .lessht
19-02-2025  09:44    <DIR>          .matplotlib
20-03-2025  13:41    <DIR>          .openjfx
11-08-2025  03:40    <DIR>          .VirtualBox
02-08-2023  15:08    <DIR>          .vscode
27-12-2024  14:31             911 1 pr.html
06-08-2025  10:16    <DIR>          Contacts
06-08-2025  10:16    <DIR>          Desktop
06-08-2025  10:16    <DIR>          Documents
11-08-2025  03:13    <DIR>          Downloads
28-12-2024  06:23             1,801 exam.html
06-08-2025  10:16    <DIR>          Favorites
11-08-2025  03:10    <DIR>          file1
05-11-2024  14:51    <DIR>          josh
```

• cd

```
C:\Users\admin>cd downloads
```

```
C:\Users\admin\Downloads>
```

• mkdir

```
C:\Users\admin\Downloads>mkdir file1
```

```
C:\Users\admin\Downloads>|
```

• systeminfo

```
C:\Users\admin\Downloads>systeminfo
```

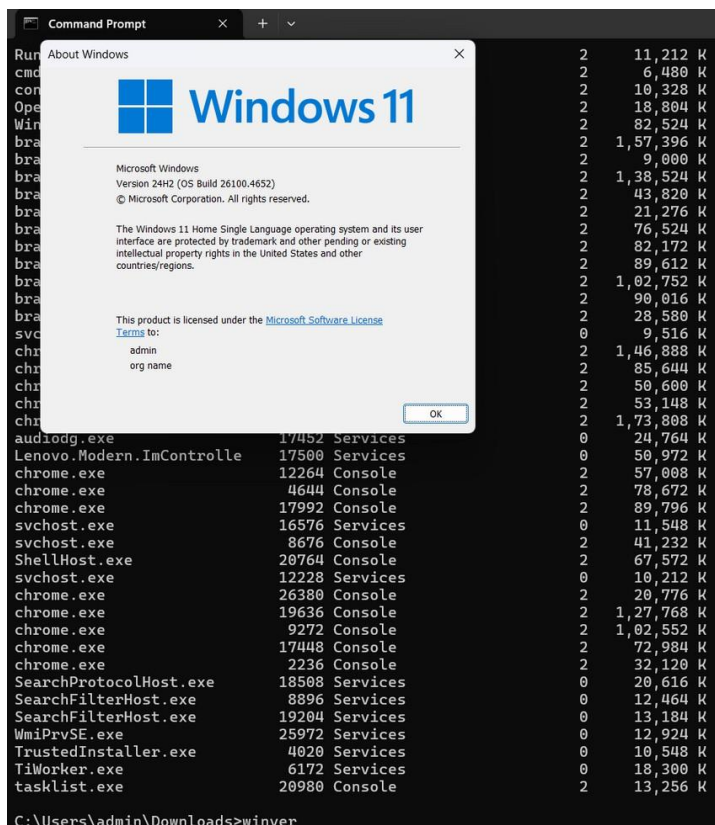
```
Host Name:                SUSH
OS Name:                  Microsoft Windows 11 Home Single Language
OS Version:              10.0.26100 N/A Build 26100
OS Manufacturer:        Microsoft Corporation
OS Configuration:       Standalone Workstation
OS Build Type:            Multiprocessor Free
Registered Owner:        admin
Registered Organization:  N/A
Product ID:               00342-42709-01070-AA0EM
Original Install Date:    06-08-2025, 10:15:48
System Boot Time:         10-08-2025, 14:43:36
System Manufacturer:     LENOVO
System Model:             21JQS7VC00
System Type:              x64-based PC
Processor(s):             1 Processor(s) Installed.
                          [01]: Intel64 Family 6 Model 186 Stepping 3 GenuineIntel ~1300 Mhz
BIOS Version:             LENOVO R2AET57W(1.32), 26-04-2024
Windows Directory:        C:\WINDOWS
System Directory:         C:\WINDOWS\system32
Boot Device:              \Device\HarddiskVolume1
System Locale:             en-us;English (United States)
Input Locale:             00004009
Time Zone:                (UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi
Total Physical Memory:    16,057 MB
Available Physical Memory: 4,050 MB
Virtual Memory: Max Size: 23,445 MB
Virtual Memory: Available: 983 MB
Virtual Memory: In Use:   22,462 MB
Page File Location(s):    C:\pagefile.sys
Domain:                   WORKGROUP
Logon Server:             \\SUSH
Hotfix(s):                3 Hotfix(s) Installed.
                          [01]: KB5056579
                          [02]: KB5062553
                          [03]: KB5063666
Network Card(s):          4 NIC(s) Installed.
                          [01]: Intel(R) Wi-Fi 6E AX211 160MHz
```

• tasklist


```
C:\Users\admin\Downloads>tasklist
```

Image Name	PID	Session Name	Session#	Mem Usage
System Idle Process	0	Services	0	8 K
System	4	Services	0	7,708 K
Secure System	188	Services	0	64,884 K
Registry	228	Services	0	48,880 K
smss.exe	816	Services	0	976 K
csrss.exe	960	Services	0	5,624 K
wininit.exe	1132	Services	0	5,312 K
services.exe	1256	Services	0	14,372 K
LsaIso.exe	1296	Services	0	2,732 K
lsass.exe	1308	Services	0	28,184 K
svchost.exe	1448	Services	0	37,652 K
fontdrvhost.exe	1468	Services	0	2,408 K
WUDFHost.exe	1524	Services	0	5,264 K
svchost.exe	1624	Services	0	19,556 K
svchost.exe	1668	Services	0	10,664 K
WUDFHost.exe	1712	Services	0	19,260 K
svchost.exe	1888	Services	0	4,140 K
WUDFHost.exe	1992	Services	0	11,864 K
svchost.exe	2072	Services	0	11,792 K
svchost.exe	2080	Services	0	5,724 K
svchost.exe	2088	Services	0	13,036 K
svchost.exe	2096	Services	0	10,624 K
svchost.exe	2112	Services	0	14,376 K
svchost.exe	2120	Services	0	7,252 K
svchost.exe	2128	Services	0	10,616 K
svchost.exe	2272	Services	0	14,400 K
svchost.exe	2360	Services	0	24,224 K
svchost.exe	2368	Services	0	10,620 K
svchost.exe	2452	Services	0	8,540 K
svchost.exe	2520	Services	0	8,460 K
svchost.exe	2632	Services	0	10,816 K

• winver



• netstat


```
C:\Users\admin\Downloads>netstat
```

Active Connections

Proto	Local Address	Foreign Address	State
TCP	127.0.0.1:49682	Sush:49683	ESTABLISHED
TCP	127.0.0.1:49683	Sush:49682	ESTABLISHED
TCP	127.0.0.1:49684	Sush:49685	ESTABLISHED
TCP	127.0.0.1:49685	Sush:49684	ESTABLISHED
TCP	127.0.0.1:49703	Sush:49704	ESTABLISHED
TCP	127.0.0.1:49704	Sush:49703	ESTABLISHED
TCP	127.0.0.1:64042	Sush:64043	ESTABLISHED
TCP	127.0.0.1:64042	Sush:64046	ESTABLISHED
TCP	127.0.0.1:64042	Sush:64047	ESTABLISHED
TCP	127.0.0.1:64043	Sush:64042	ESTABLISHED
TCP	127.0.0.1:64046	Sush:64042	ESTABLISHED
TCP	127.0.0.1:64047	Sush:64042	ESTABLISHED

• ipconfig

```
PS C:\Users\admin> ipconfig
```

Windows IP Configuration

Ethernet adapter Ethernet 2:

Media State : Media disconnected
Connection-specific DNS Suffix . :

Ethernet adapter Ethernet 4:

Connection-specific DNS Suffix . :
Link-local IPv6 Address : fe80::2c8e:e4ba:c193:b90c%16
IPv4 Address. : 192.168.56.1
Subnet Mask : 255.255.255.0
Default Gateway :

Wireless LAN adapter Local Area Connection* 1:

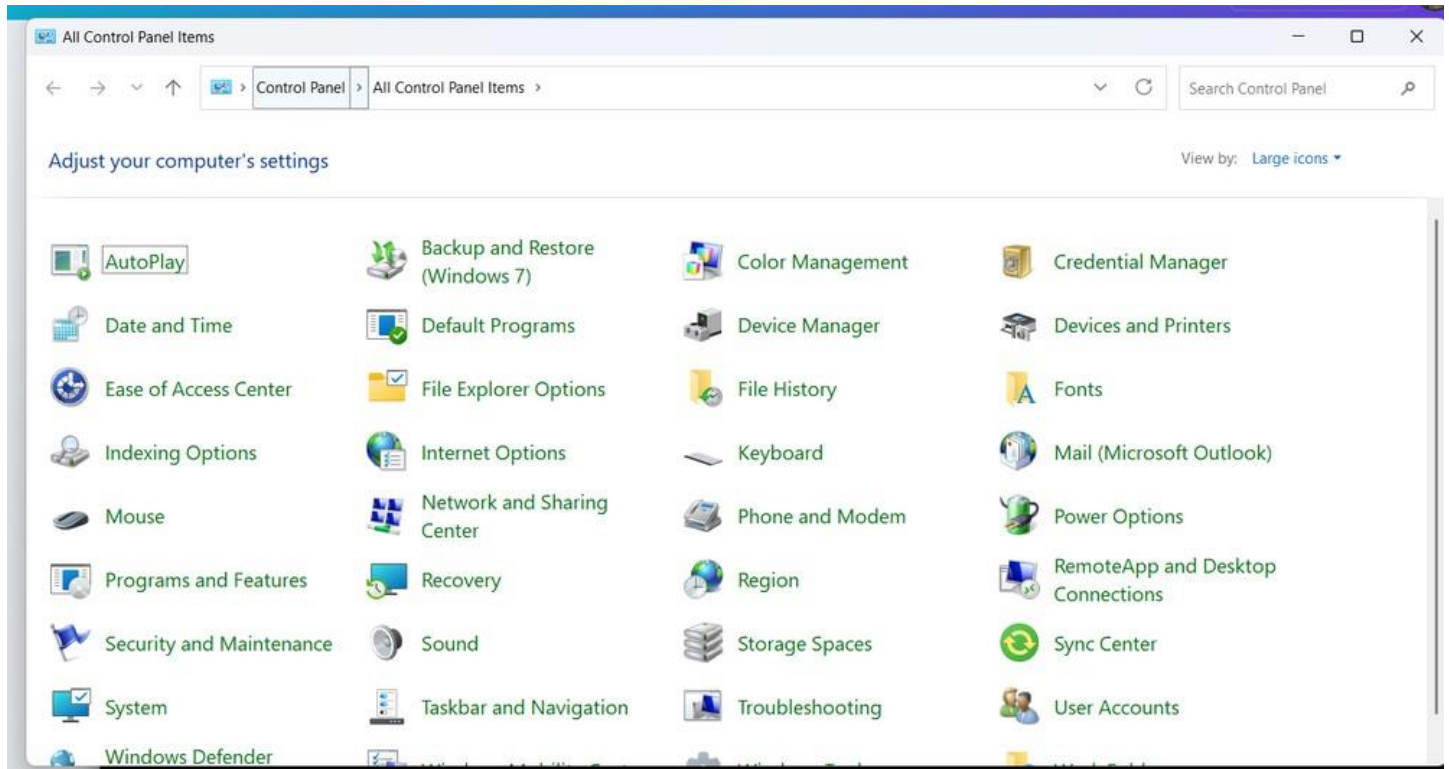
Media State : Media disconnected
Connection-specific DNS Suffix . :

Wireless LAN adapter Local Area Connection* 2:

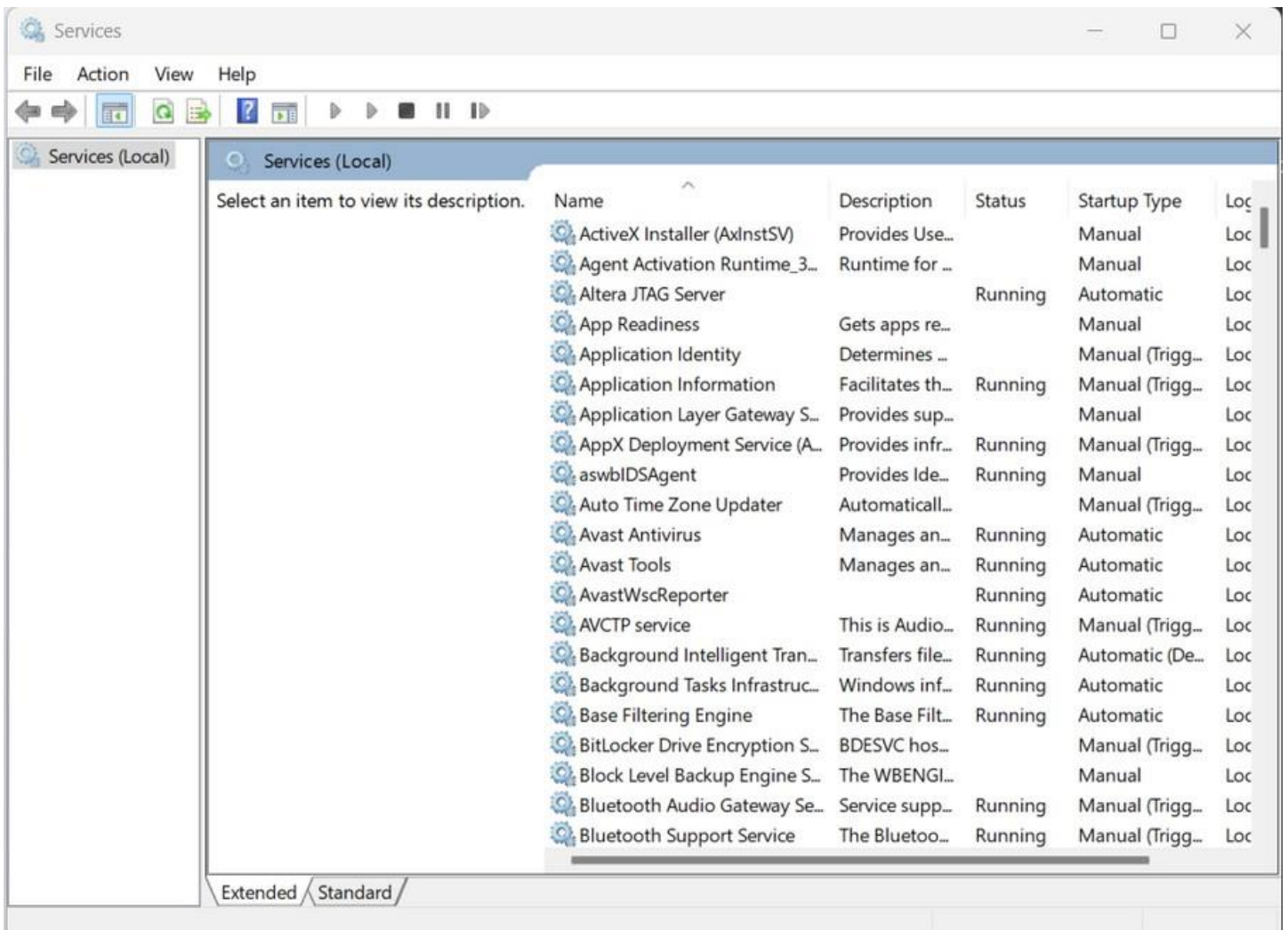
• nslookup

```
Connection-specific DNS Suffix  . :  
PS C:\Users\admin> nslookup  
Default Server:  UnKnown  
Address:  2403:8600:c090:42:a000::200
```

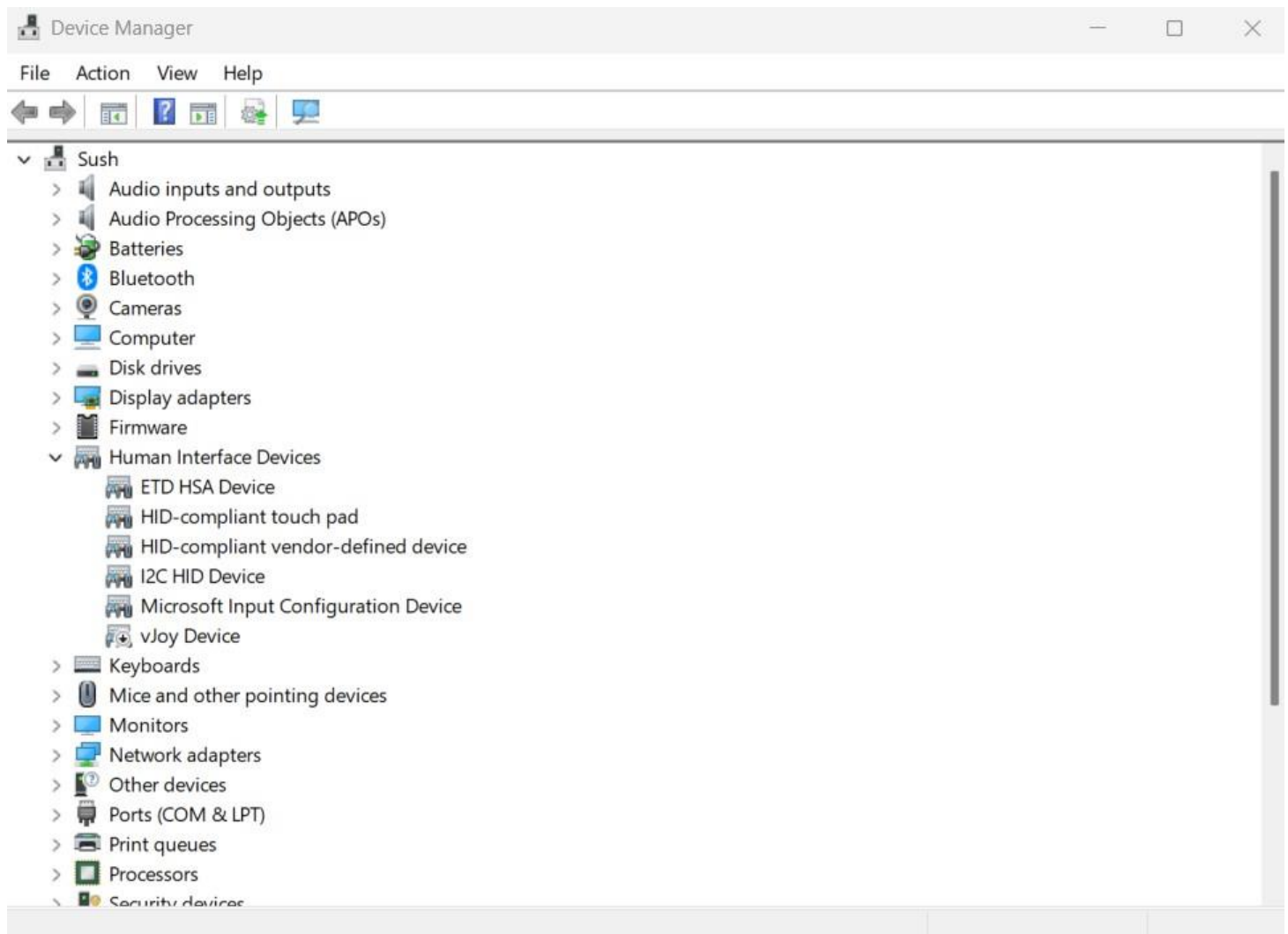
- **control**



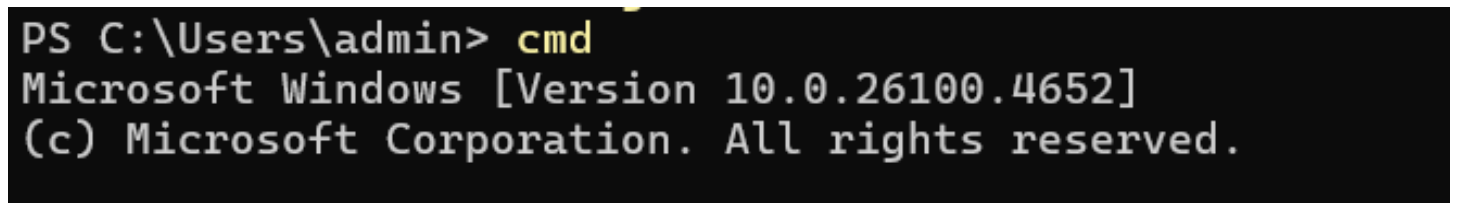
- **services.msc**



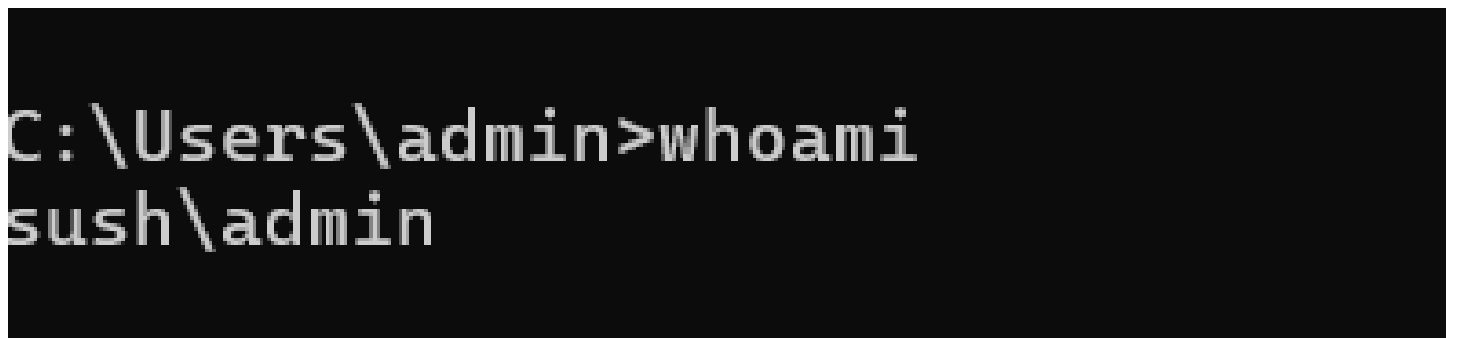
• **devmgmt.msc**



- **cmd**



- **whoami**



- **tree**

```
C:\Users\admin>tree
Folder PATH listing for volume Windows
Volume serial number is 8A5B-6C40
C:.
|
|-- .conda
|   |-- pkgs
|   |   |-- cache
|   |
|   |-- .continuum
|   |   |-- anaconda-client
|   |
|   |-- .icesoft
|   |   |-- icepdf-viewer
|   |   |   |-- _syslock
|   |
|   |-- .ipynb_checkpoints
|   |-- .ipython
|   |   |-- profile_default
|   |       |-- db
|   |       |-- log
|   |       |-- pid
|   |       |-- security
|   |       |-- startup
|   |
|   |-- .jupyter
|   |-- .matplotlib
|   |-- .openjfx
|   |   |-- cache
|   |   |   |-- 17.0.14-ea
|   |
|   |-- .VirtualBox
|   |-- .vscode
|   |   |-- cli
|   |   |-- extensions
|   |       |-- ms-dotnettools.vscode-dotnet-runtime-2.3.2
```

• ping

```
C:\Users\admin>ping www.google.com

Pinging www.google.com [2404:6800:4007:83b::2004] with 32 bytes of data:
Reply from 2404:6800:4007:83b::2004: time=56ms
Reply from 2404:6800:4007:83b::2004: time=97ms
Reply from 2404:6800:4007:83b::2004: time=10ms
Reply from 2404:6800:4007:83b::2004: time=97ms

Ping statistics for 2404:6800:4007:83b::2004:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 10ms, Maximum = 97ms, Average = 65ms
```

• cls

```
C:\Users\admin>cls
```

- **del**

```
C:\Users\admin>del file1
C:\Users\admin\file1\*, Are you sure (Y/N)?
```

- **getmac**

```
C:\Users\admin>getmac

Physical Address      Transport Name
=====
98-BD-80-DB-44-C6     \Device\Tcpip_{42527670-7750-4638-A65C-8BEA628D66C0}
C4-C6-E6-E3-28-4D     Media disconnected
98-BD-80-DB-44-CA     Media disconnected
0A-00-27-00-00-10     \Device\Tcpip_{886DB21D-6CF9-4D53-8B02-A88A2417A664}
```

- **color 1E**


```
C:\Users\admin>del
The syntax of the command is incorrect.

C:\Users\admin>del file1
C:\Users\admin\file1\*, Are you sure (Y/N)?
C:\Users\admin\file1\*, Are you sure (Y/N)? y

C:\Users\admin>getmac

Physical Address      Transport Name
=====
98-BD-80-DB-44-C6    \Device\Tcpip_{42527670-7750-4638-A65C-8BEA628D66C0}
C4-C6-E6-E3-28-4D    Media disconnected
98-BD-80-DB-44-CA    Media disconnected
0A-00-27-00-00-10    \Device\Tcpip_{886DB21D-6CF9-4D53-8B02-A88A2417A664}
```

• echo

```
C:\Users\admin>echo hello world
hello world
```

