

Lab No:3

Windows Commands:

```
C:\> Administrator: Command Prompt

Microsoft Windows [Version 10.0.19045.2965]
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C:\WINDOWS\system32>ping www.google.com

Pinging www.google.com [142.250.181.100] with 32 bytes of data:
Reply from 142.250.181.100: bytes=32 time=141ms TTL=118
Reply from 142.250.181.100: bytes=32 time=144ms TTL=118
Reply from 142.250.181.100: bytes=32 time=149ms TTL=118
Reply from 142.250.181.100: bytes=32 time=185ms TTL=118

Ping statistics for 142.250.181.100:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 141ms, Maximum = 185ms, Average = 154ms

C:\WINDOWS\system32>
```

```
Select Administrator: Command Prompt

C:\WINDOWS\system32>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet:

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

Ethernet adapter VirtualBox Host-Only Network:

    Connection-specific DNS Suffix  . :
    Link-local IPv6 Address . . . . . : fe80::33c9:db8e:59ea:4e83%3
    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:

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

Wireless LAN adapter Wi-Fi:

    Connection-specific DNS Suffix  . : Home
    Link-local IPv6 Address . . . . . : fe80::8871:4933:7d4b:4664%6
    IPv4 Address. . . . . : 192.168.10.8
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.10.1

Ethernet adapter Bluetooth Network Connection:

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

C:\WINDOWS\system32>
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Activate Windows
Go to Settings to activate Windows.

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Administrator: Command Prompt

C:\WINDOWS\system32>ipconfig /all

Windows IP Configuration

Host Name . . . . . : DESKTOP-4RUGND1
Primary Dns Suffix . . . . . :
Node Type . . . . . : Hybrid
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
DNS Suffix Search List. . . . . : Home

Ethernet adapter Ethernet:

Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . :
Description . . . . . : Intel(R) Ethernet Connection (3) I218-LM
Physical Address. . . . . : 48-0F-CF-2A-31-C3
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes

Ethernet adapter VirtualBox Host-Only Network:

Connection-specific DNS Suffix . :
Description . . . . . : VirtualBox Host-Only Ethernet Adapter
Physical Address. . . . . : 0A-00-27-00-00-03
DHCP Enabled. . . . . : No
Autoconfiguration Enabled . . . . : Yes
Link-local IPv6 Address . . . . . : fe80::33c9:db8e:59ea:4e83%3(Preferred)
IPv4 Address. . . . . : 192.168.56.1(Preferred)
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
DHCPv6 IAID . . . . . : 705298471
DHCPv6 Client DUID. . . . . : 00-01-00-01-2A-A1-72-5B-48-0F-CF-2A-31-C3
DNS Servers . . . . . : fec0:0:0:ffff::1%1
                       : fec0:0:0:ffff::2%1
                       : fec0:0:0:ffff::3%1
NetBIOS over Tcpip. . . . . : Enabled

Wireless LAN adapter Local Area Connection* 1:

Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . :
Description . . . . . : Microsoft Wi-Fi Direct Virtual Adapter
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Administrator: Command Prompt

Description . . . . . : Microsoft Wi-Fi Direct Virtual Adapter
Physical Address. . . . . : 34-02-86-7C-B0-02
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes

Wireless LAN adapter Local Area Connection* 2:

Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . :
Description . . . . . : Microsoft Wi-Fi Direct Virtual Adapter #2
Physical Address. . . . . : 36-02-86-7C-B0-01
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes

Wireless LAN adapter Wi-Fi:

Connection-specific DNS Suffix . : Home
Description . . . . . : Intel(R) Dual Band Wireless-AC 7265
Physical Address. . . . . : 34-02-86-7C-B0-01
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes
Link-local IPv6 Address . . . . . : fe80::8871:4933:7d4b:4664%6(Preferred)
IPv4 Address. . . . . : 192.168.10.8(Preferred)
Subnet Mask . . . . . : 255.255.255.0
Lease Obtained. . . . . : Saturday, June 17, 2023 4:19:17 PM
Lease Expires . . . . . : Sunday, June 18, 2023 9:18:38 PM
Default Gateway . . . . . : 192.168.10.1
DHCP Server . . . . . : 192.168.10.1
DHCPv6 IAID . . . . . : 87294598
DHCPv6 Client DUID. . . . . : 00-01-00-01-2A-A1-72-5B-48-0F-CF-2A-31-C3
DNS Servers . . . . . : 192.168.10.1
NetBIOS over Tcpip. . . . . : Enabled

Ethernet adapter Bluetooth Network Connection:

Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . :
Description . . . . . : Bluetooth Device (Personal Area Network)
Physical Address. . . . . : 34-02-86-7C-B0-05
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes

C:\WINDOWS\system32>
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Activate Windows
Go to Settings to activate Windows.

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Administrator: Command Prompt
C:\WINDOWS\system32>ipconfig /release

Windows IP Configuration

No operation can be performed on Ethernet while it has its media disconnected.
No operation can be performed on Local Area Connection* 1 while it has its media disconnected.
No operation can be performed on Local Area Connection* 2 while it has its media disconnected.
No operation can be performed on Bluetooth Network Connection while it has its media disconnected.

Ethernet adapter Ethernet:

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

Ethernet adapter VirtualBox Host-Only Network:

    Connection-specific DNS Suffix  . :
    Link-local IPv6 Address . . . . . : fe80::33c9:db8e:59ea:4e83%3
    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:

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

Wireless LAN adapter Wi-Fi:

    Connection-specific DNS Suffix  . :
    Link-local IPv6 Address . . . . . : fe80::8871:4933:7d4b:4664%6
    Default Gateway . . . . . :

Ethernet adapter Bluetooth Network Connection:

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

C:\WINDOWS\system32>
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Activate Windows
Go to Settings to activate Windows.

```
Administrator: Command Prompt
C:\WINDOWS\system32>ipconfig /renew

Windows IP Configuration

No operation can be performed on Ethernet while it has its media disconnected.
No operation can be performed on Local Area Connection* 1 while it has its media disconnected.
No operation can be performed on Local Area Connection* 2 while it has its media disconnected.
No operation can be performed on Bluetooth Network Connection while it has its media disconnected.

Ethernet adapter Ethernet:

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

Ethernet adapter VirtualBox Host-Only Network:

    Connection-specific DNS Suffix  . :
    Link-local IPv6 Address . . . . . : fe80::33c9:db8e:59ea:4e83%3
    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:

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

Wireless LAN adapter Wi-Fi:

    Connection-specific DNS Suffix  . : Home
    Link-local IPv6 Address . . . . . : fe80::8871:4933:7d4b:4664%6
    IPv4 Address. . . . . : 192.168.10.8
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.10.1

Ethernet adapter Bluetooth Network Connection:

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

Activate Windows
Go to Settings to activate Windows.

```
Administrator: Command Prompt
C:\WINDOWS\system32>ipconfig /?
USAGE:
    ipconfig [/allcompartments] [/? | /all |
        /renew [adapter] | /release [adapter] |
        /renew6 [adapter] | /release6 [adapter] |
        /flushdns | /displaydns | /registerdns |
        /showclassid adapter |
        /setclassid adapter [classid] |
        /showclassid6 adapter |
        /setclassid6 adapter [classid] ]

where
    adapter          Connection name
                     (wildcard characters * and ? allowed, see examples)

Options:
    /?              Display this help message.
    /all            Display full configuration information.
    /release        Release the IPv4 address for the specified adapter.
    /release6       Release the IPv6 address for the specified adapter.
    /renew          Renew the IPv4 address for the specified adapter.
    /renew6         Renew the IPv6 address for the specified adapter.
    /flushdns       Purges the DNS Resolver cache.
    /registerdns    Refreshes all DHCP leases and re-registers DNS names.
    /displaydns     Display the contents of the DNS Resolver Cache.
    /showclassid    Displays all the dhcp class IDs allowed for adapter.
    /setclassid     Modifies the dhcp class id.
    /showclassid6  Displays all the IPv6 DHCP class IDs allowed for adapter.
    /setclassid6   Modifies the IPv6 DHCP class id.

The default is to display only the IP address, subnet mask and
default gateway for each adapter bound to TCP/IP.

For Release and Renew, if no adapter name is specified, then the IP address
leases for all adapters bound to TCP/IP will be released or renewed.

For Setclassid and Setclassid6, if no ClassId is specified, then the ClassId is removed.

Examples:
    > ipconfig          ... Show information
    > ipconfig /all      ... Show detailed information
```

For Setclassid and Setclassid6, if no ClassId is specified, then the ClassId is removed.

```
Examples:
    > ipconfig          ... Show information
    > ipconfig /all      ... Show detailed information
    > ipconfig /renew    ... renew all adapters
    > ipconfig /renew EL* ... renew any connection that has its
                        name starting with EL
    > ipconfig /release *Con* ... release all matching connections,
                        eg. "Wired Ethernet Connection 1" or
                        "Wired Ethernet Connection 2"
    > ipconfig /allcompartments ... Show information about all
                        compartments
    > ipconfig /allcompartments /all ... Show detailed information about all
                        compartments
```

C:\WINDOWS\system32>

```
C:\WINDOWS\system32>ipconfig /flushdns

Windows IP Configuration

Successfully flushed the DNS Resolver Cache.

C:\WINDOWS\system32>
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Administrator: Command Prompt

Windows IP Configuration

Successfully flushed the DNS Resolver Cache.

C:\WINDOWS\system32>hostname
DESKTOP-4RUGND1

C:\WINDOWS\system32>getmac

Physical Address    Transport Name
-----
48-0F-CF-2A-31-C3   Media disconnected
34-02-86-7C-B0-91   \Device\NPF{5A4E38E5-E316-4D8A-8CB2-05585707F034}
34-02-86-7C-B0-95   Media disconnected
0A-00-27-00-00-03    \Device\NPF{0BAB9BCC-62DF-4310-9C91-4AAC204834E5}

C:\WINDOWS\system32>arg -a
'arg' is not recognized as an internal or external command,
operable program or batch file.

C:\WINDOWS\system32>arp -a

Interface: 192.168.56.1 --- 0x3
Internet Address    Physical Address    Type
192.168.56.255      ff-ff-ff-ff-ff-ff   static
224.0.0.22          01-00-5e-00-00-16   static
224.0.0.251         01-00-5e-00-00-fb   static
224.0.0.252         01-00-5e-00-00-fc   static
239.255.255.250     01-00-5e-7f-ff-fa   static

Interface: 192.168.10.8 --- 0x6
Internet Address    Physical Address    Type
192.168.10.1        c8-3a-35-94-d1-f0   dynamic
192.168.10.2        00-1d-9d-c6-f0-04   dynamic
192.168.10.255      ff-ff-ff-ff-ff-ff   static
224.0.0.2           01-00-5e-00-00-02   static
224.0.0.22          01-00-5e-00-00-16   static
224.0.0.251         01-00-5e-00-00-fb   static
224.0.0.252         01-00-5e-00-00-fc   static
239.255.255.250     01-00-5e-7f-ff-fa   static
255.255.255.255     ff-ff-ff-ff-ff-ff   static

C:\WINDOWS\system32>
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Administrator: Command Prompt

192.168.10.2         00-1d-9d-c6-f0-04   dynamic
192.168.10.255      ff-ff-ff-ff-ff-ff   static
224.0.0.2           01-00-5e-00-00-02   static
224.0.0.22          01-00-5e-00-00-16   static
224.0.0.251         01-00-5e-00-00-fb   static
224.0.0.252         01-00-5e-00-00-fc   static
239.255.255.250     01-00-5e-7f-ff-fa   static
255.255.255.255     ff-ff-ff-ff-ff-ff   static

C:\WINDOWS\system32>arp

Displays and modifies the IP-to-Physical address translation tables used by
address resolution protocol (ARP).

ARP -s inet_addr eth_addr [if_addr]
ARP -d inet_addr [if_addr]
ARP -a [inet_addr] [-N if_addr] [-v]

-a           Displays current ARP entries by interrogating the current
              protocol data. If inet_addr is specified, the IP and Physical
              addresses for only the specified computer are displayed. If
              more than one network interface uses ARP, entries for each ARP
              table are displayed.
-g           Same as -a.
-v           Displays current ARP entries in verbose mode. All invalid
              entries and entries on the loop-back interface will be shown.
inet_addr    Specifies an internet address.
-N if_addr   Displays the ARP entries for the network interface specified
              by if_addr.
-d           Deletes the host specified by inet_addr. inet_addr may be
              wildcarded with * to delete all hosts.
-s           Adds the host and associates the Internet address inet_addr
              with the Physical address eth_addr. The Physical address is
              given as 6 hexadecimal bytes separated by hyphens. The entry
              is permanent.
eth_addr     Specifies a physical address.
if_addr      If present, this specifies the Internet address of the
              interface whose address translation table should be modified.
              If not present, the first applicable interface will be used.

Example:
> arp -s 157.55.85.212 00-aa-00-62-c6-09 .... Adds a static entry.
> arp -a           .... Displays the arp table.

C:\WINDOWS\system32>
```

```
C:\WINDOWS\system32>nslookup
Default Server: Tenda.Home
Address: 192.168.10.1
```

```
C:\WINDOWS\system32>netstat -f
```

Active Connections

Proto	Local Address	Foreign Address	State
TCP	192.168.10.8:64742	20.198.119.143:https	ESTABLISHED
TCP	192.168.10.8:64743	whatsapp-cdn-shv-01-mct1.fbcdn.net:https	ESTABLISHED
TCP	192.168.10.8:64745	ec2-34-237-73-95.compute-1.amazonaws.com:https	ESTABLISHED
TCP	192.168.10.8:64755	192.168.10.2:8009	ESTABLISHED
TCP	192.168.10.8:64760	192.168.10.2:8009	ESTABLISHED
TCP	192.168.10.8:64764	wb-in-f188.1e100.net:5228	ESTABLISHED
TCP	192.168.10.8:64765	192.168.10.2:8008	ESTABLISHED
TCP	192.168.10.8:64766	192.168.10.2:8008	ESTABLISHED
TCP	192.168.10.8:64767	a23-209-46-156.deploy.static.akamaitechnologies.com:https	ESTABLISHED

```
C:\WINDOWS\system32>
```

Administrator: Command Prompt

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```
C:\WINDOWS\system32>tasklist
```

Image Name	PID	Session Name	Session#	Mem Usage
System Idle Process	0	Services	0	8 K
System	4	Services	0	68 K
Registry	100	Services	0	33,176 K
smss.exe	416	Services	0	656 K
csrss.exe	588	Services	0	6,020 K
wininit.exe	676	Services	0	7,512 K
services.exe	748	Services	0	10,516 K
lsass.exe	788	Services	0	20,552 K
svchost.exe	908	Services	0	36,456 K
fontdrvhost.exe	932	Services	0	2,636 K
svchost.exe	612	Services	0	21,612 K
svchost.exe	1036	Services	0	8,896 K
svchost.exe	1228	Services	0	6,104 K
svchost.exe	1252	Services	0	7,732 K
svchost.exe	1288	Services	0	11,716 K
svchost.exe	1300	Services	0	11,572 K
svchost.exe	1388	Services	0	10,456 K
svchost.exe	1516	Services	0	16,344 K
svchost.exe	1580	Services	0	6,724 K
svchost.exe	1612	Services	0	15,496 K
svchost.exe	1688	Services	0	8,304 K
svchost.exe	1808	Services	0	21,200 K
svchost.exe	1816	Services	0	19,816 K
svchost.exe	1848	Services	0	7,064 K
svchost.exe	1940	Services	0	11,840 K
svchost.exe	1648	Services	0	10,008 K
svchost.exe	2076	Services	0	21,108 K
svchost.exe	2084	Services	0	12,100 K
svchost.exe	2120	Services	0	7,828 K
svchost.exe	2172	Services	0	7,440 K
svchost.exe	2184	Services	0	89,980 K
svchost.exe	2192	Services	0	5,408 K
Memory Compression	2288	Services	0	56,080 K
svchost.exe	2324	Services	0	8,412 K
svchost.exe	2360	Services	0	13,944 K
igfxCUIService.exe	2392	Services	0	9,572 K
svchost.exe	2400	Services	0	10,844 K

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Administrator: Command Prompt				
lgfxCUIService.exe	2392	Services	0	9,572 K
svchost.exe	2400	Services	0	10,844 K
svchost.exe	2468	Services	0	8,268 K
svchost.exe	2476	Services	0	7,516 K
svchost.exe	2528	Services	0	10,512 K
svchost.exe	2624	Services	0	20,584 K
svchost.exe	2720	Services	0	14,812 K
RtkAudioService64.exe	2796	Services	0	9,364 K
svchost.exe	2936	Services	0	9,664 K
svchost.exe	2944	Services	0	6,348 K
svchost.exe	2952	Services	0	10,960 K
svchost.exe	2240	Services	0	7,352 K
svchost.exe	3200	Services	0	21,224 K
svchost.exe	3256	Services	0	14,292 K
spoolsv.exe	3332	Services	0	13,412 K
svchost.exe	3372	Services	0	14,808 K
svchost.exe	3396	Services	0	19,752 K
svchost.exe	3436	Services	0	7,548 K
svchost.exe	3716	Services	0	30,676 K
svchost.exe	3724	Services	0	13,960 K
OfficeClickToRun.exe	3736	Services	0	42,748 K
fpCSEvtSvc.exe	3744	Services	0	7,204 K
svchost.exe	3752	Services	0	29,160 K
HotKeyServiceUMP.exe	3768	Services	0	9,412 K
ibtsiva.exe	3812	Services	0	4,628 K
svchost.exe	3844	Services	0	7,556 K
svchost.exe	3868	Services	0	10,780 K
svchost.exe	3884	Services	0	10,084 K
servicehost.exe	3908	Services	0	44,812 K
svchost.exe	3916	Services	0	8,700 K
rsVPNCClientSvc.exe	4004	Services	0	11,544 K
SynTPEnhService.exe	4036	Services	0	4,568 K
svchost.exe	4044	Services	0	5,728 K
svchost.exe	4064	Services	0	5,240 K
valWBFPolicyService.exe	4080	Services	0	3,956 K
svchost.exe	3584	Services	0	23,588 K
svchost.exe	4100	Services	0	5,404 K
MsMpEng.exe	4172	Services	0	317,088 K
svchost.exe	4336	Services	0	6,640 K
LanManWanSwitchingServ	4580	Services	0	11,312 K
UDFHost.exe	5756	Services	0	12,108 K
svchost.exe	5968	Services	0	12,532 K
dllhost.exe	5216	Services	0	12,108 K
svchost.exe	5672	Services	0	8,348 K

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Administrator: Command Prompt				
dllhost.exe	5216	Services	0	12,108 K
svchost.exe	5672	Services	0	8,348 K
svchost.exe	5912	Services	0	8,796 K
svchost.exe	7292	Services	0	7,844 K
svchost.exe	7520	Services	0	22,316 K
svchost.exe	7952	Services	0	21,080 K
MsSrv.exe	8032	Services	0	10,616 K
svchost.exe	8156	Services	0	10,552 K
svchost.exe	7124	Services	0	10,996 K
svchost.exe	2100	Services	0	25,316 K
SearchIndexer.exe	3216	Services	0	54,200 K
SecurityHealthService.exe	1548	Services	0	22,404 K
svchost.exe	3764	Services	0	20,468 K
GoogleCrashHandler.exe	5840	Services	0	1,340 K
GoogleCrashHandler64.exe	7416	Services	0	1,212 K
svchost.exe	7344	Services	0	12,396 K
SgrmBroker.exe	8092	Services	0	8,536 K
svchost.exe	1372	Services	0	12,120 K
svchost.exe	9352	Services	0	10,784 K
svchost.exe	120	Services	0	9,832 K
svchost.exe	6800	Services	0	21,904 K
svchost.exe	3828	Services	0	36,552 K
WinPrvSE.exe	7236	Services	0	20,116 K
svchost.exe	3340	Services	0	7,088 K
rsVPNSvc.exe	13988	Services	0	91,728 K
svchost.exe	11880	Services	0	8,484 K
svchost.exe	8028	Services	0	9,908 K
svchost.exe	11996	Services	0	35,892 K
csrss.exe	7116	Console	15	7,288 K
winlogon.exe	7840	Console	15	11,768 K
fontdrvhost.exe	11652	Console	15	6,348 K
dwm.exe	13852	Console	15	81,196 K
svchost.exe	3972	Services	0	6,664 K
uihost.exe	1080	Console	15	27,748 K
RAVBg64.exe	12292	Console	15	15,068 K
RAVBg64.exe	1864	Console	15	15,872 K
SynTPEnh.exe	9068	Console	15	22,624 K
HPHotkeyNotification.exe	2268	Console	15	30,932 K
slhost.exe	7480	Console	15	27,804 K
svchost.exe	6436	Console	15	21,908 K
svchost.exe	5480	Console	15	34,412 K
taskhostw.exe	11984	Console	15	12,756 K
SSScheduler.exe	5848	Console	15	9,892 K
taskhostw.exe	13024	Console	15	20,588 K

Activate Windows
Go to Settings to activate Windows.

Administrator: Command Prompt				
taskhostw.exe	11984	Console	15	12,756 K
SSScheduler.exe	5848	Console	15	9,892 K
taskhostw.exe	13024	Console	15	20,588 K
McUpdaterModule.exe	7644	Console	15	4,048 K
ctfmon.exe	8564	Console	15	21,408 K
explorer.exe	10204	Console	15	153,692 K
MicrosoftEdgeUpdate.exe	920	Services	0	3,184 K
softinfo.exe	11600	Console	15	7,312 K
svchost.exe	8604	Console	15	19,044 K
igfxHK.exe	6308	Console	15	11,384 K
igfxTray.exe	4128	Console	15	13,000 K
StartMenuExperienceHost.exe	2900	Console	15	73,376 K
SynTPHelper.exe	7264	Console	15	6,080 K
RuntimeBroker.exe	9976	Console	15	28,460 K
rsAppUI.exe	13100	Console	15	104,628 K
SearchApp.exe	1244	Console	15	235,440 K
RuntimeBroker.exe	5884	Console	15	43,360 K
RuntimeBroker.exe	592	Console	15	19,468 K
SecurityHealthSystray.exe	5832	Console	15	10,176 K
RTKGUI64.exe	9552	Console	15	14,936 K
softinfo.exe	11776	Console	15	22,620 K
msedge.exe	11104	Console	15	104,588 K
msedge.exe	11152	Console	15	8,440 K
Cortana.exe	7460	Console	15	68,872 K
msedge.exe	7702	Console	15	29,460 K
msedge.exe	13606	Console	15	31,852 K
msedge.exe	5484	Console	15	18,784 K
rsAppUI.exe	6340	Console	15	89,256 K
svchost.exe	8212	Console	15	22,392 K
RuntimeBroker.exe	11100	Console	15	19,160 K
rsAppUI.exe	1672	Console	15	77,252 K
WmiPrvSE.exe	13004	Services	0	10,700 K
svchost.exe	2924	Console	15	23,420 K
rsAppUI.exe	12048	Console	15	49,148 K
svchost.exe	12876	Services	0	23,856 K
chrome.exe	5704	Console	15	215,280 K
chrome.exe	8276	Console	15	10,144 K
chrome.exe	5596	Console	15	161,468 K
chrome.exe	2344	Console	15	49,244 K
chrome.exe	11352	Console	15	21,468 K
chrome.exe	8384	Console	15	64,452 K
chrome.exe	12316	Console	15	50,756 K
chrome.exe	9468	Console	15	68,972 K
MicrosoftEdgeUpdate.exe	8416	Services	0	10,220 K

Activate Windows
Go to Settings to activate Windows.

Administrator: Command Prompt				
MicrosoftEdgeUpdate.exe	8416	Services	0	10,220 K
CompatTelRunner.exe	5456	Services	0	2,620 K
chrome.exe	3904	Console	15	69,876 K
chrome.exe	14032	Console	15	75,568 K
rsAppUI.exe	13668	Console	15	71,940 K
cmd.exe	13320	Console	15	4,616 K
conhost.exe	3184	Console	15	13,280 K
browserhost.exe	14104	Console	15	10,516 K
conhost.exe	6588	Services	0	1,932 K
TextInputHost.exe	14284	Console	15	44,304 K
CompatTelRunner.exe	10684	Services	0	31,160 K
PhoneExperienceHost.exe	10036	Console	15	141,440 K
MicrosoftEdgeUpdate.exe	6480	Services	0	19,580 K
chrome.exe	12364	Console	15	265,272 K
chrome.exe	9704	Console	15	21,996 K
RuntimeBroker.exe	12980	Console	15	14,480 K
chrome.exe	11964	Console	15	47,044 K
MicrosoftEdge_X64_114.0.1	6836	Services	0	8,240 K
setup.exe	9408	Services	0	5,752 K
McCHSvc.exe	8812	Services	0	32,516 K
chrome.exe	3556	Console	15	30,976 K
svchost.exe	9480	Services	0	16,804 K
powershell.exe	7504	Services	0	25,488 K
conhost.exe	14280	Services	0	10,592 K
dllhost.exe	12396	Console	15	14,540 K
smartscreen.exe	14296	Console	15	24,164 K
audiodg.exe	7308	Services	0	19,320 K
powershell.exe	11872	Services	0	25,636 K
conhost.exe	2608	Services	0	11,076 K
cmd.exe	11856	Console	15	5,108 K
conhost.exe	14188	Console	15	19,776 K
svchost.exe	13080	Services	0	8,768 K
tasklist.exe	5680	Console	15	9,800 K


```
C:\WINDOWS\system32>Taskkill /PID 920 /F
SUCCESS: The process with PID 920 has been terminated.
```

Linux Commands:

```
user:~$ ssh
usage: ssh [-46AaCfGgKkMNnqsTtVvXxYy] [-B bind_interface]
          [-b bind_address] [-c cipher_spec] [-D [bind_address:]port]
          [-E log_file] [-e escape_char] [-F configfile] [-I pkcs11]
          [-i identity_file] [-J [user@]host[:port]] [-L address]
          [-l login_name] [-m mac_spec] [-O ctl_cmd] [-o option] [-p port]
          [-Q query_option] [-R address] [-S ctl_path] [-W host:port]
          [-w local_tun[:remote_tun]] destination [command]

user:~$ pwd
/home/user
user:~$ whoami
user
```

Activate Windows

```
user:~$ cd /
user:/$ cd ~/target
user:~/target$
```

```
user:~$ ls
catkin_ws  target
user:~$ ls -l
total 8
drwxr-xr-x 5 user user 4096 Jun 17 18:08 catkin_ws
drwxr-xr-x 2 user user 4096 Jun 17 18:10 target
```

```
user:~$ ls -la
total 92
drwxr-xr-x 11 user user 4096 Jun 17 18:10 .
drwxr-xr-x  1 root root 4096 Jun 17 18:08 ..
-rw-r--r--  1 user user 5609 Jun 17 18:08 .__bashrc
-rw-r--r--  1 user user 3579 Jun 17 18:08 .bash_aliases
-rw-r--r--  1 user user 5609 May  2 13:37 .bashrc
-rw-r--r--  1 root root  225 Jun 17 18:08 .bashrc_bridge
-rw-r--r--  1 root root  116 Jun 17 18:08 .bashrc_ros1
-rw-r--r--  1 root root  240 Jun 17 18:08 .bashrc_ros2
drwxr-xr-x  3 user user 4096 Jun 17 15:55 .cache
lrwxrwxrwx  1 root root   34 Jun 17 18:08 .catkin_ws_python3 -> /usr/local/share/catkin_ws_python3
```

Activate Windows

```
-rw-r--r--  1 user user   65 Jun 17 18:08 .clangd
lrwxrwxrwx  1 user user   25 Jun 17 18:08 .gazebo -> /home/simulations/.gazebo
-rw-r-----  1 user user    0 Jun 17 18:08 .history
drwxr-xr-x  3 user user 4096 Jun 17 15:55 .ignition
drwxr-xr-x  2 user user 4096 Jun 17 18:08 .labelImg
-rw-r--r--  1 user user   22 Jun 17 18:08 .npmrc
lrwxrwxrwx  1 user user   30 Jun 17 18:08 .py3venv -> /usr/local/share/venvs/py3venv
-rw-r--r--  1 user user  215 Jun 17 18:08 .pylintrc
lrwxrwxrwx  1 user user   33 Jun 17 18:08 .python3_ws -> /usr/local/share/venvs/python3_ws
lrwxrwxrwx  1 user user   22 Jun 17 18:08 .ros -> /home/simulations/.ros
drwxr-xr-x  2 user user 4096 Jun 17 18:08 .rviz
drwxr-xr-x  2 user user 4096 Jun 17 18:08 .sdformat
```

Activate Windows

```
user:~$ cd ~
user:~$
```

