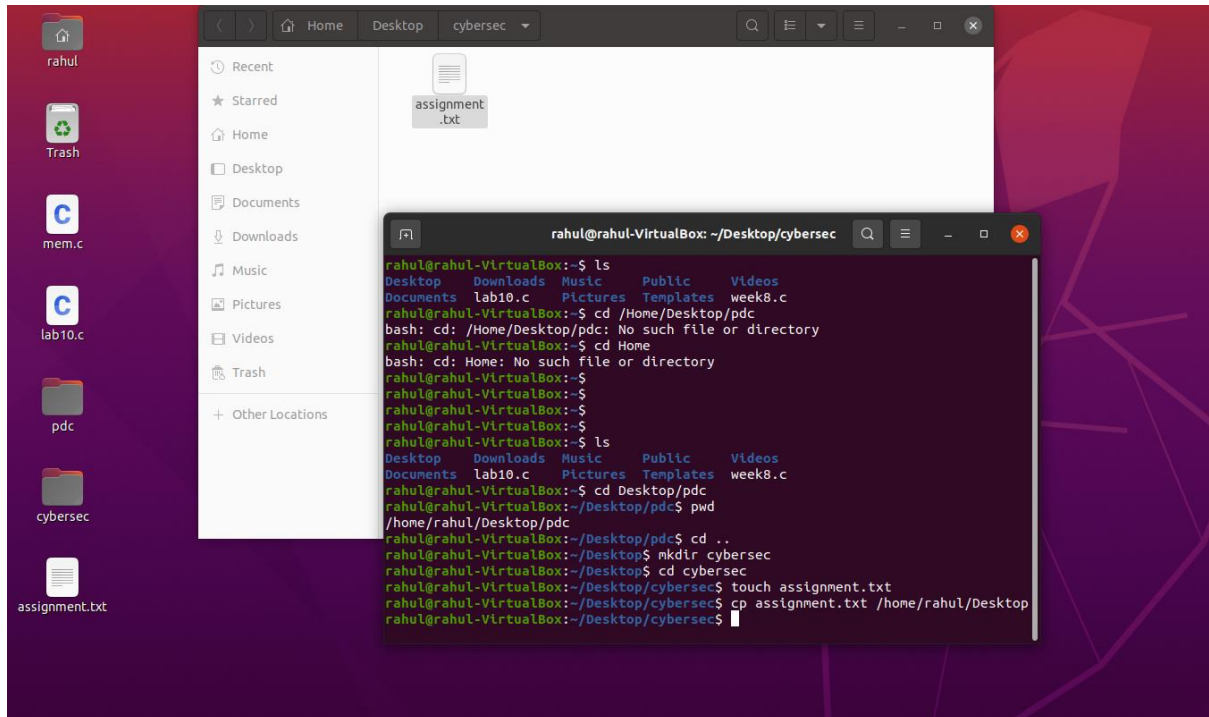


VIT Chennai

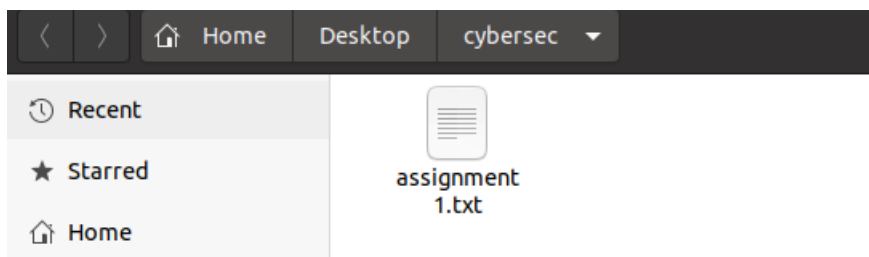
B.Tech. CSE Core

20BCE1724

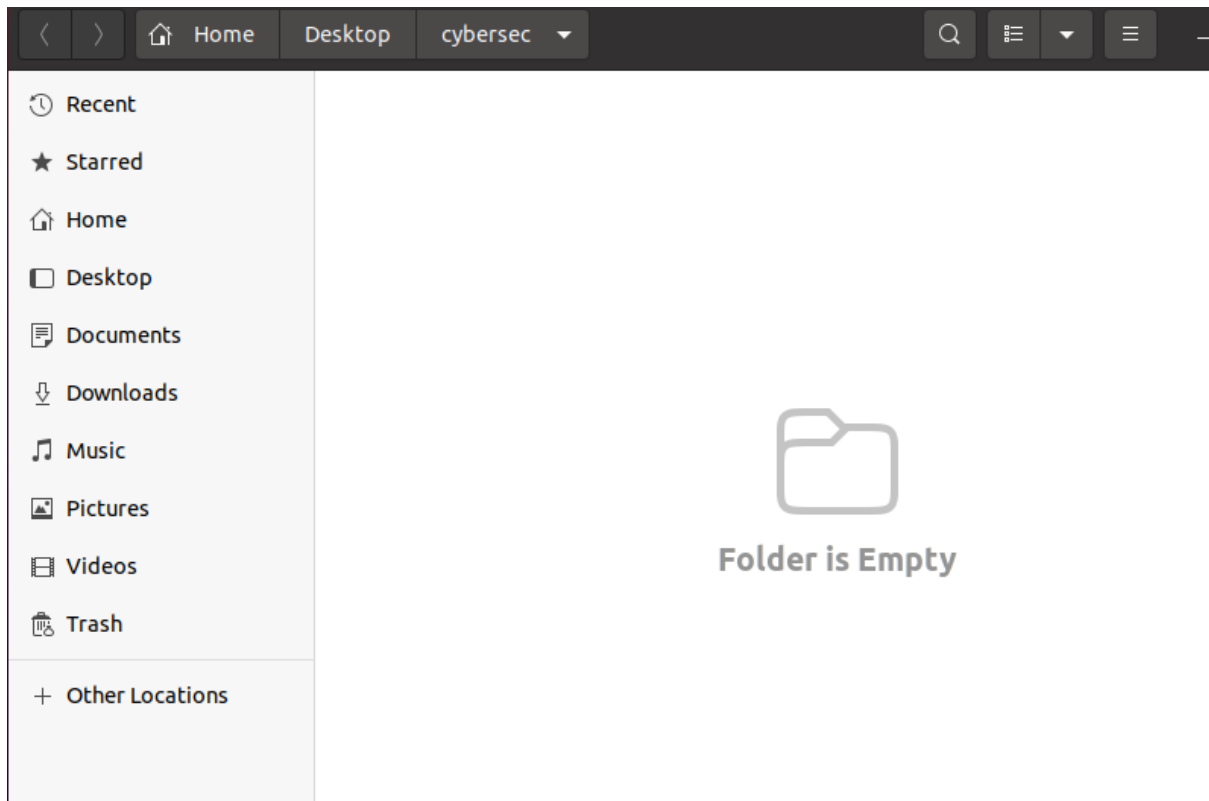
Rahul Sivaselvam



```
rahul@rahul-VirtualBox:~/Desktop/cybersec$ mv assignment.txt assignment1.txt
```



```
rahul@rahul-VirtualBox:~/Desktop/cybersec$ rm assignment1.txt
```



```
rahul@rahul-VirtualBox:~/Desktop/cybersec$ touch assignment.txt
rahul@rahul-VirtualBox:~/Desktop/cybersec$ find assignment.txt
assignment.txt
rahul@rahul-VirtualBox:~/Desktop/cybersec$ find -name assignment.txt
./assignment.txt
rahul@rahul-VirtualBox:~/Desktop/cybersec$
```

```
rahul@rahul-VirtualBox:~/Desktop/cybersec$ cat assignment.txt
Rahul Sivaselvam
20BCE1724
rahul@rahul-VirtualBox:~/Desktop/cybersec$ less assignment.txt
rahul@rahul-VirtualBox:~/Desktop/cybersec$
```



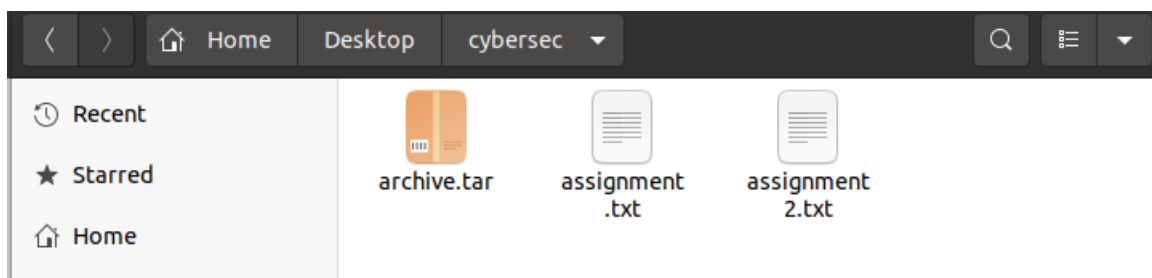
```
rahul@rahul-VirtualBox: ~/Desktop/cybersec
GNU nano 4.8 assignment.txt
Rahul Sivaselvan
20BCE1724

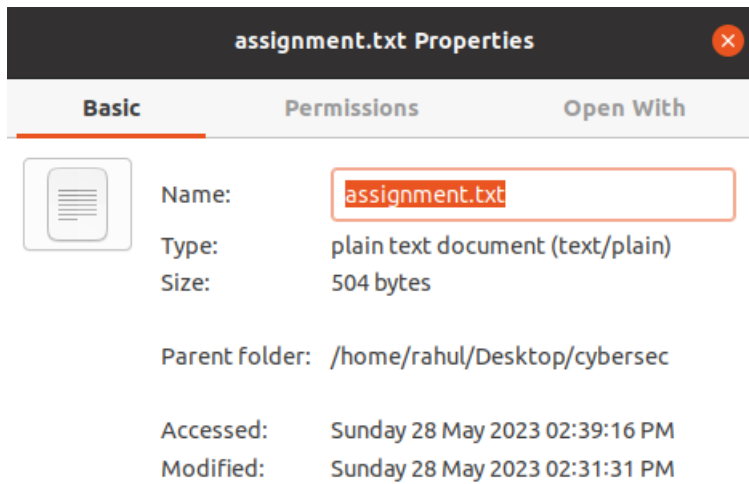
The following assessment aims to test your understanding and practical knowledge of various Linux commands. Perform the tasks.
Note: It is recommended to perform this assessment on a Linux machine or virtual environment.
```

Get Help	Write Out	Where Is	Read 16 lines	Cur Pos	Undo	Mark Text
Exit	Read File	Replace	Cut Text	Go To Line	Redo	Copy Text
			Paste Text			
			To Spell			

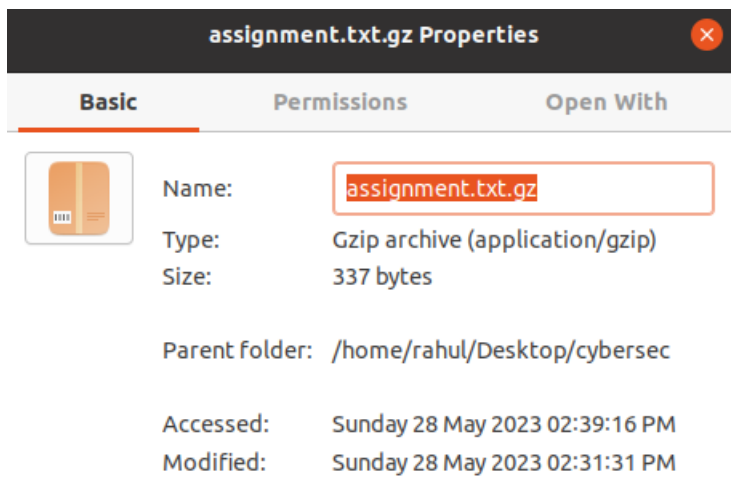
```
rahul@rahul-VirtualBox:~/Desktop/cybersec$ nano assignment.txt
rahul@rahul-VirtualBox:~/Desktop/cybersec$ vi assignment.txt
rahul@rahul-VirtualBox:~/Desktop/cybersec$ chmod permissions assignment.txt
chmod: invalid mode: 'permissions'
Try 'chmod --help' for more information.
rahul@rahul-VirtualBox:~/Desktop/cybersec$ chmod u+rw,go+r [assignment.txt]
chmod: cannot access '[assignment.txt]': No such file or directory
rahul@rahul-VirtualBox:~/Desktop/cybersec$ chmod u+rw,go+r assignment.txt
rahul@rahul-VirtualBox:~/Desktop/cybersec$ chown rahul2 assignment.txt
chown: invalid user: 'rahul2'
rahul@rahul-VirtualBox:~/Desktop/cybersec$ chown rahul assignment.txt
rahul@rahul-VirtualBox:~/Desktop/cybersec$ chgrp group2 assignment.txt
chgrp: invalid group: 'group2'
rahul@rahul-VirtualBox:~/Desktop/cybersec$ groups
rahul adm cdrom sudo dip plugdev lpadmin lxd sambashare
rahul@rahul-VirtualBox:~/Desktop/cybersec$ chgrp adm assignment.txt
```

```
rahul@rahul-VirtualBox:~/Desktop/cybersec$ tar -cvf archive.tar assignment.txt assignment2.txt
assignment.txt
assignment2.txt
```





```
rahul@rahul-VirtualBox:~/Desktop/cybersec$ gzip assignment.txt
```



```
rahul@rahul-VirtualBox:~/Desktop/cybersec$ unzip archive.zip
Archive: archive.zip
replace archive/assignment.txt? [y]es, [n]o, [A]ll, [N]one, [r]ename: y
  inflating: archive/assignment.txt
replace archive/assignment2.txt? [y]es, [n]o, [A]ll, [N]one, [r]ename: y
  inflating: archive/assignment2.txt
rahul@rahul-VirtualBox:~/Desktop/cybersec$
```

```

rahul@rahul-VirtualBox:~/Desktop/cybersec$ ps
  PID TTY          TIME CMD
 2169 pts/0    00:00:00 bash
 2757 pts/0    00:00:00 ps
rahul@rahul-VirtualBox:~/Desktop/cybersec$ top

```

```

top - 14:52:06 up 1:21, 1 user, load average: 0.28, 0.18, 0.11
Tasks: 219 total, 1 running, 218 sleeping, 0 stopped, 0 zombie
%Cpu(s): 1.8 us, 1.1 sy, 0.0 ni, 97.1 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
MiB Mem : 4631.1 total, 2484.9 free, 908.1 used, 1238.1 buff/cache
MiB Swap: 1090.7 total, 1090.7 free, 0.0 used. 3467.0 avail Mem

```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
1708	rahul	20	0	5399056	462648	145252	S	15.2	9.8	2:52.68	gnome-shell
1512	rahul	20	0	318332	123624	67152	S	8.9	2.6	0:52.06	Xorg
2180	rahul	20	0	1210648	83992	49504	S	4.6	1.8	0:24.14	nautilus
2161	rahul	20	0	815508	51684	38880	S	1.3	1.1	0:14.37	gnome-terminal-
2314	root	20	0	0	0	0	I	0.3	0.0	0:00.20	kworker/1:2-events
2427	rahul	20	0	820236	58404	39256	S	0.3	1.2	0:03.32	gedit
2758	rahul	20	0	11992	4004	3196	R	0.3	0.1	0:00.08	top
1	root	20	0	168316	11512	8336	S	0.0	0.2	0:01.60	systemd
2	root	20	0	0	0	0	S	0.0	0.0	0:00.02	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
5	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	netns
7	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/0:0H-events_highpri
9	root	0	-20	0	0	0	I	0.0	0.0	0:00.08	kworker/0:1H-events_highpri
10	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	mm_percpu_wq
11	root	20	0	0	0	0	S	0.0	0.0	0:00.00	rcu_tasks_rude_
12	root	20	0	0	0	0	S	0.0	0.0	0:00.00	rcu_tasks_trace
13	root	20	0	0	0	0	S	0.0	0.0	0:00.02	ksoftirqd/0
14	root	20	0	0	0	0	I	0.0	0.0	0:01.64	rcu_sched
15	root	rt	0	0	0	0	S	0.0	0.0	0:00.06	migration/0
16	root	-51	0	0	0	0	S	0.0	0.0	0:00.00	idle_inject/0
17	root	20	0	0	0	0	I	0.0	0.0	0:00.80	kworker/0:1-events
18	root	20	0	0	0	0	S	0.0	0.0	0:00.00	cpuhp/0
19	root	20	0	0	0	0	S	0.0	0.0	0:00.00	cpuhp/1
20	root	-51	0	0	0	0	S	0.0	0.0	0:00.00	idle_inject/1
21	root	rt	0	0	0	0	S	0.0	0.0	0:00.49	migration/1
22	root	20	0	0	0	0	S	0.0	0.0	0:00.02	ksoftirqd/1

```
rahul@rahul-VirtualBox:~/Desktop/cybersec$ kill 2427
```

```
rahul@rahul-VirtualBox:~/Desktop/cybersec$ top &
[1] 2831
```

```
rahul@rahul-VirtualBox:~/Desktop/cybersec$ fg
top
top: failed tty set: Interrupted system call
```

```

rahul@rahul-VirtualBox:~/Desktop/cybersec$ uname -a
Linux rahul-VirtualBox 5.15.0-50-generic #56~20.04.1-Ubuntu SMP Tue Sep 27 15:51:29 UTC 2022 x86_64 x86_64 x86_64 GNU/Linux
rahul@rahul-VirtualBox:~/Desktop/cybersec$ df -h
Filesystem      Size  Used Avail Use% Mounted on
udev            2.3G   0    2.3G   0% /dev
tmpfs           464M  1.4M  462M   1% /run
/dev/sda5       23G   11G   11G   49% /
tmpfs           2.3G   0    2.3G   0% /dev/shm
tmpfs           5.0M  4.0K  5.0M   1% /run/lock
tmpfs           2.3G   0    2.3G   0% /sys/fs/cgroup
/dev/loop0      128K  128K   0 100% /snap/bare/5
/dev/loop1      56M   56M   0 100% /snap/core18/2620
/dev/loop2      219M  219M   0 100% /snap/gnome-3-34-1804/93
/dev/loop3       74M   74M   0 100% /snap/core22/634
/dev/loop4       56M   56M   0 100% /snap/core18/2745
/dev/loop7      461M  461M   0 100% /snap/gnome-42-2204/102
/dev/loop5       64M   64M   0 100% /snap/core20/1695
/dev/loop8      350M  350M   0 100% /snap/gnome-3-38-2004/140
/dev/loop6       13M   13M   0 100% /snap/snap-store/959
/dev/loop9       66M   66M   0 100% /snap/gtk-common-themes/1519
/dev/loop11     219M  219M   0 100% /snap/gnome-3-34-1804/77
/dev/loop10     347M  347M   0 100% /snap/gnome-3-38-2004/119
/dev/loop12       64M   64M   0 100% /snap/core20/1891
/dev/loop14       54M   54M   0 100% /snap/snapd/19122
/dev/loop15      92M   92M   0 100% /snap/gtk-common-themes/1535
/dev/loop13      46M   46M   0 100% /snap/snap-store/599
/dev/sda1       511M  4.0K  511M   1% /boot/efi
tmpfs           464M  36K  464M   1% /run/user/1000
rahul@rahul-VirtualBox:~/Desktop/cybersec$ free -h
             total        used        free      shared  buff/cache   available
Mem:         4.5Gi        1.0Gi        2.3Gi        35Mi        1.2Gi        3.2Gi
Swap:        1.1Gi          0B          1.1Gi
rahul@rahul-VirtualBox:~/Desktop/cybersec$ uptime
 14:57:42 up  1:27,  1 user,  load average: 0.02, 0.09, 0.08
rahul@rahul-VirtualBox:~/Desktop/cybersec$ who
rahul      :0                2023-05-28 13:24 (:0)
rahul@rahul-VirtualBox:~/Desktop/cybersec$ w
 14:57:59 up  1:27,  1 user,  load average: 0.08, 0.10, 0.09
USER      TTY      FROM              LOGIN@   IDLE   JCPU   PCPU WHAT
rahul     :0                13:24    ?xdm?    4:44   0.02s /usr/lib/gdm3/gdm-x-session --run-script env GNOME_SHELL_S
rahul@rahul-VirtualBox:~/Desktop/cybersec$

```

```

rahul@rahul-VirtualBox:~/Desktop/cybersec$ ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.0.2.15 netmask 255.255.255.0 broadcast 10.0.2.255
    inet6 fe80::68cd:2e4f:8376:ac0f prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:12:be:51 txqueuelen 1000 (Ethernet)
    RX packets 423 bytes 279488 (279.4 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 370 bytes 40948 (40.9 KB)
    TX errors 0 dropped 0 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 167 bytes 14056 (14.0 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 167 bytes 14056 (14.0 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

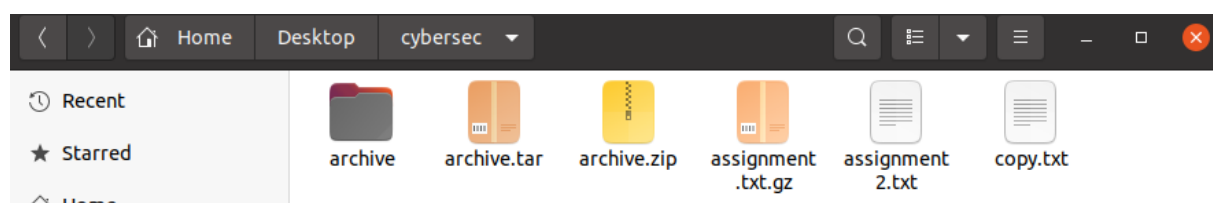
rahul@rahul-VirtualBox:~/Desktop/cybersec$ ping google.com
PING google.com (142.250.77.142) 56(84) bytes of data:
64 bytes from maa05s16-in-f14.1e100.net (142.250.77.142): icmp_seq=1 ttl=117 time=66.3 ms
64 bytes from maa05s16-in-f14.1e100.net (142.250.77.142): icmp_seq=2 ttl=117 time=28.1 ms
64 bytes from maa05s16-in-f14.1e100.net (142.250.77.142): icmp_seq=3 ttl=117 time=43.5 ms
64 bytes from maa05s16-in-f14.1e100.net (142.250.77.142): icmp_seq=4 ttl=117 time=21.8 ms
64 bytes from maa05s16-in-f14.1e100.net (142.250.77.142): icmp_seq=5 ttl=117 time=22.6 ms
^C
--- google.com ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4055ms
rtt min/avg/max/mdev = 21.795/36.450/66.256/16.815 ms

```

```

rahul@rahul-VirtualBox:~/Desktop/cybersec$ scp assignment2.txt copy.txt

```



```
rahu1@rahu1-VirtualBox:~/Desktop/cybersec$ wget bombmanual.com
--2023-05-28 15:04:15-- http://bombmanual.com/
Resolving bombmanual.com (bombmanual.com)... 99.86.20.43, 99.86.20.122, 99.86.20.80, ...
Connecting to bombmanual.com (bombmanual.com)|99.86.20.43|:80... connected.
HTTP request sent, awaiting response... 301 Moved Permanently
Location: https://bombmanual.com/ [following]
--2023-05-28 15:04:15-- https://bombmanual.com/
Connecting to bombmanual.com (bombmanual.com)|99.86.20.43|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 2569 (2.5K) [text/html]
Saving to: 'index.html'

index.html                               100%[=====] 2.51K --.-KB/s in 0s

2023-05-28 15:04:15 (253 MB/s) - 'index.html' saved [2569/2569]
```


Bomb Defusal Manual

file:///home/rahu1/Desktop/cybersec/index.html

It looks like you haven't started Firefox in a while. Do you want to clean it up for a fresh, like-new experience? And by the way, welcome back! Refresh Firefox...

Keep Talking and Nobody Explodes

Bomb Defusal Manual



Version 1

[View / Print PDF](#)
[View as Webpage](#)
[How to PlayLanguage GlobeLanguage](#)
[Looking for Mod Manuals?](#)

Find out more about the game "Keep Talking and Nobody Explodes" at www.keeptalkinggame.com

```
rahu1@rahu1-VirtualBox:~/Desktop/cybersec$ sudo apt install wireshark-qt
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  chromium-codecs-ffmpeg-extra gstreamer1.0-vaapi libfwupdplugin1 libgstreamer-plugins-bad1.0-0 libva-wayland2
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  libc-ares2 libdouble-conversion3 liblua5.2-0 libpcre2-16-0 libqt5core5a libqt5dbus5 libqt5gui5 libqt5multimedia5
  libqt5multimedia5-plugins libqt5multimediagsttools5 libqt5multimediawidgets5 libqt5network5 libqt5opengl5
  libqt5printsupport5 libqt5svg5 libqt5widgets5 libsmi2ldbl libspandsp2 libwireshark-data libwireshark13 libwiretap10
  libwsutil11 libxcb-xinerama0 libxcb-xinput0 qt5-gtk-platformtheme qttranslations5-l10n wireshark wireshark-common
Suggested packages:
  qt5-image-formats-plugins qtwayland5 snmp-mibs-downloader geoipupdate geoip-database geoip-database-extra
  libjs-leaflet libjs-leaflet.markercluster wireshark-doc
The following NEW packages will be installed:
  libc-ares2 libdouble-conversion3 liblua5.2-0 libpcre2-16-0 libqt5core5a libqt5dbus5 libqt5gui5 libqt5multimedia5
  libqt5multimedia5-plugins libqt5multimediagsttools5 libqt5multimediawidgets5 libqt5network5 libqt5opengl5
  libqt5printsupport5 libqt5svg5 libqt5widgets5 libsmi2ldbl libspandsp2 libwireshark-data libwireshark13 libwiretap10
  libwsutil11 libxcb-xinerama0 libxcb-xinput0 qt5-gtk-platformtheme qttranslations5-l10n wireshark wireshark-common
  wireshark-qt
0 upgraded, 29 newly installed, 0 to remove and 1 not upgraded.
Need to get 32.7 MB of archives.
After this operation, 163 MB of additional disk space will be used.
Do you want to continue? [Y/n]
```



```

rahul@rahul-VirtualBox:~/Desktop/cybersec$ systemctl --type=service --state=running
UNIT                                LOAD    ACTIVE SUB    DESCRIPTION
accounts-daemon.service            loaded active running Accounts Service
acpid.service                      loaded active running ACPI event daemon
avahi-daemon.service               loaded active running Avahi mDNS/DNS-SD Stack
colord.service                     loaded active running Manage, Install and Generate Color Profiles
cron.service                       loaded active running Regular background program processing daemon
cups-browsed.service               loaded active running Make remote CUPS printers available locally
cups.service                       loaded active running CUPS Scheduler
dbus.service                       loaded active running D-Bus System Message Bus
gdm.service                        loaded active running GNOME Display Manager
irqbalance.service                loaded active running irqbalance daemon
kerneloops.service                loaded active running Tool to automatically collect and submit kernel crash signatures
ModemManager.service              loaded active running Modem Manager
networkd-dispatcher.service         loaded active running Dispatcher daemon for systemd-networkd
NetworkManager.service            loaded active running Network Manager
packagekit.service                loaded active running PackageKit Daemon
polkit.service                     loaded active running Authorization Manager
rsyslog.service                   loaded active running System Logging Service
rtkit-daemon.service               loaded active running RealtimeKit Scheduling Policy Service
snapd.service                      loaded active running Snap Daemon
switcheroo-control.service          loaded active running Switcheroo Control Proxy service
systemd-journald.service            loaded active running Journal Service
systemd-logind.service             loaded active running Login Service
systemd-resolved.service            loaded active running Network Name Resolution
systemd-timesyncd.service           loaded active running Network Time Synchronization
systemd-udevd.service              loaded active running udev Kernel Device Manager
udisks2.service                    loaded active running Disk Manager
unattended-upgrades.service          loaded active running Unattended Upgrades Shutdown
upower.service                     loaded active running Daemon for power management
user@1000.service                  loaded active running User Manager for UID 1000
vboxadd-service.service            loaded active running vboxadd-service.service
whoopsie.service                   loaded active running crash report submission daemon
wpa_supplicant.service             loaded active running WPA supplicant

LOAD    = Reflects whether the unit definition was properly loaded.
ACTIVE  = The high-level unit activation state, i.e. generalization of SUB.
SUB     = The low-level unit activation state, values depend on unit type.

```

```

rahul@rahul-VirtualBox:~/Desktop/cybersec$ crontab -e
no crontab for rahul - using an empty one

Select an editor. To change later, run 'select-editor'.
 1. /bin/nano      <---- easiest
 2. /usr/bin/vim.tiny
 3. /bin/ed

Choose 1-3 [1]: 1
No modification made
rahul@rahul-VirtualBox:~/Desktop/cybersec$ useradd john
useradd: Permission denied.
useradd: cannot lock /etc/passwd; try again later.
rahul@rahul-VirtualBox:~/Desktop/cybersec$ sudo useradd john
rahul@rahul-VirtualBox:~/Desktop/cybersec$ sudo passwd rahul
New password:
Retype new password:
passwd: password updated successfully
rahul@rahul-VirtualBox:~/Desktop/cybersec$

```