

IP2 Proxy Manager

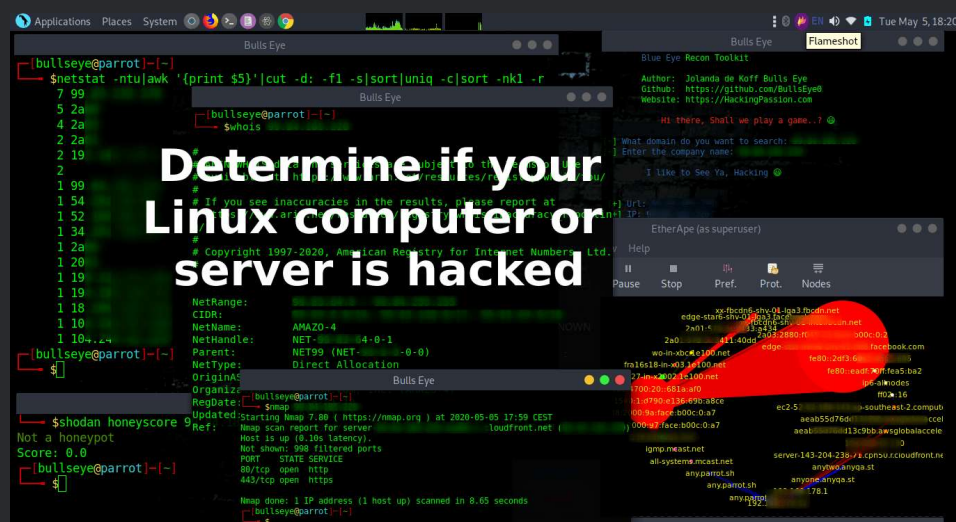
\$0.7/GB or \$0.04/IP, reliable & secure proxy services to reduce risk

IP2World

Open

Determine if Your Linux Computer or Server Is Hacked

 Bulls Eye included in  linux  windows



“Advice from a Hacker” How do you determine whether your computer or server has been hacked. If you suspected this, this article certainly applies to you. But I also discuss several great commands that every Linux user or “Hacker” should know. And I show you various options. Some of these commands will also work for a Mac and Windows, so it’s a good idea to take a look if only for the tips you might want to use.

Keep calm and don't panic if you have been

IP2 Proxy Manager

Residential Proxies Unlimited Access Real IP Proxies

Just classify everything. Do not access a file with cat or strings, catalog the files and save that for later. Once you start removing things, you can no longer investigate how deeply they have penetrated. Don't be misled and just stay calm. Just do some investigation and research.

Take a good look at the attacker, you may find an IP address or a trace that has been left behind. This can only make the research more fun. Try to find out as much as possible about the attacker. If you have all the data then you can look to delete it safely.

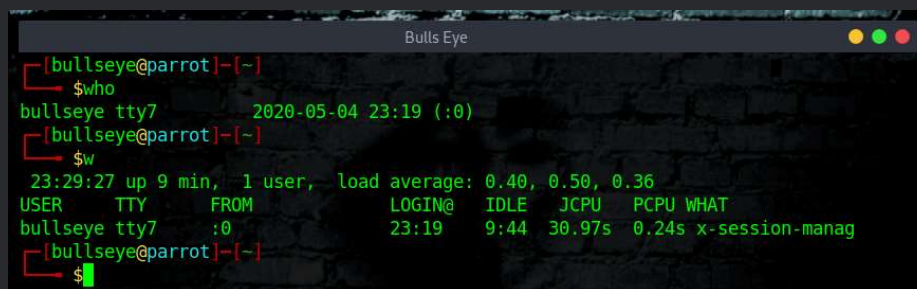
Obviously, it is urgent if you are very duped and a lot of money is involved, but then hire a team of specialized Ethical Hackers or Cyber security Experts. If you have a business that is always the best you can do.

"What hackers do is figure out technology and experiment with it in ways many people never imagined. They also have a strong desire to share this information with others and to explain it to people whose only qualification may be the desire to learn."

Show a listing of last logged in users

w or who

The first thing you should look for is who is currently logged into your computer. It is not uncommon to find the attacker actually logged into the server and working on it.



```
[bullseye@parrot]~$ who
bullseye tty7      2020-05-04 23:19 (:0)
[bullseye@parrot]~$ w
 23:29:27 up 9 min,  1 user,  load average: 0.40, 0.50, 0.36
USER      TTY      FROM          LOGIN@   IDLE   JCPU   PCPU WHAT
bullseye  tty7      :0             23:19    9:44   30.97s 0.24s x-session-manag
[bullseye@parrot]~$
```

| Use the command last

Show a listing of **last** logged in users. The history with this command goes all the way back to the start of the setup of the computer or server. (You can also



```
1 last -h
```

Code



```
1 Usage:
2 last [options] [<username>...] [<tty>...]
3
4 Show a listing of last logged in users.
5
6 Options:
7 -<number>          how many lines to show
8 -a, --hostlast      display hostnames in the last column
9 -d, --dns           translate the IP number back into a hostname
10 -f, --file <file>   use a specific file instead of /var/log/wtmp
11 -F, --fulltimes      print full login and logout times and dates
12 -i, --ip           display IP numbers in numbers-and-dots notation
13 -n, --limit <number> how many lines to show
14 -R, --nohostname    don't display the hostname field
15 -s, --since <time>  display the lines since the specified time
16 -t, --until <time>  display the lines until the specified time
17 -p, --present <time> display who were present at the specified time
18 -w, --fullnames      display full user and domain names
19 -x, --system         display system shutdown entries and run level c
20 --time-format <format> show timestamps in the specified <format>
21                     notime|short|full|iso
22
23 -h, --help           display this help
24 -V, --version         display version
```

```
Bulls Eye
bullseye@parrot:~$ last
bullseye tty7 :0 Sun May 3 22:27 still logged in
reboot system boot 5.5.0-1parrot1-a Sun May 3 22:27 still running
bullseye tty7 :0 Sun May 3 22:23 - 22:27 (00:03)
reboot system boot 5.5.0-1parrot1-a Sun May 3 22:23 - 22:27 (00:04)
bullseye tty7 :0 Thu Apr 23 21:41 - 22:22 (10+00:41)
reboot system boot 5.4.0-4parrot1-a Thu Apr 23 21:40 - 22:22 (10+00:41)
bullseye tty7 :0 Wed Apr 22 22:42 - 21:40 (22:57)
reboot system boot 5.4.0-4parrot1-a Wed Apr 22 22:42 - 21:40 (22:58)
bullseye tty7 :0 Thu Apr 16 16:10 - 22:41 (6+06:31)
reboot system boot 5.4.0-4parrot1-a Thu Apr 16 16:10 - 22:41 (6+06:31)
bullseye tty7 :0 Wed Apr 15 01:02 - 16:09 (1+15:07)
reboot system boot 5.4.0-4parrot1-a Wed Apr 15 01:01 - 16:09 (1+15:07)
bullseye tty7 :0 Wed Apr 15 00:54 - 01:01 (00:06)
reboot system boot 5.4.0-4parrot1-a Wed Apr 15 00:54 - 01:01 (00:07)
bullseye tty7 :0 Sun Apr 12 17:45 - 00:53 (2+07:08)
reboot system boot 5.4.0-4parrot1-a Sun Apr 12 17:45 - 00:53 (2+07:08)
bullseye tty7 :0 Thu Apr 9 15:43 - 17:44 (3+02:01)
reboot system boot 5.4.0-4parrot1-a Thu Apr 9 15:41 - 17:44 (3+02:03)
bullseye tty7 :0 Tue Apr 7 14:14 - 15:40 (2+01:25)
reboot system boot 5.4.0-4parrot1-a Tue Apr 7 14:14 - 15:40 (2+01:25)
bullseye tty7 :0 Tue Apr 7 13:39 - 14:14 (00:34)
reboot system boot 5.4.0-4parrot1-a Tue Apr 7 13:39 - 14:14 (00:34)
bullseye tty7 :0 Fri Apr 3 11:34 - 13:39 (4+02:04)
reboot system boot 5.4.0-4parrot1-a Fri Apr 3 11:33 - 13:39 (4+02:05)
bullseye tty7 :0 Thu Apr 2 23:58 - 11:33 (11:35)
reboot system boot 5.4.0-4parrot1-a Thu Apr 2 23:57 - 11:33 (11:35)
bullseye pts/0 :0 Thu Apr 2 23:44 - 23:48 (00:03)
bullseye tty7 :0 Tue Mar 31 17:21 - 23:57 (2+06:36)
```

▼ Code



```
1 tail -n 200 ~/.bash_history | more
```

▼ Code



```
1 cat ~/.bash_history | more
```

Of course, you can also open an editor (Like vim or nano) and save the output. So that you can notice any changes at a **later time**. Check also command from other users that you might have on your computer. /home/**username**/

▼ Code



```
1 sudo vim /home/USER_YOU_WANT_TO_VIEW/.bash_history
```

System files that have changed recently.

With this command, you can see what has happened recently. The “-2” means 2 days, i.e. this shows me all files modified in the last 2 days.

▼ Code



```
1 sudo find /etc /var -mtime -2
```

Now if you haven’t installed any new software on your server for a while then this command will run and produce very little output. Here in this picture I just did a new upgrade, so there is a lot to see.



```
[sudo] password for butts@eye:
/etc
/etc/anonsurf
/etc/apparmor.d
/etc/apparmor.d/tunables
/etc/apt
/etc/apt/apt.conf.d
/etc/apt/apt.conf.d/01autoremove-kernels
/etc/apt/trusted.gpg.d
/etc/bash_completion.d
/etc/beef-xss
/etc/cryptsetup-initramfs
/etc/cups
/etc/cups/subscriptions.conf.0
/etc/cups/subscriptions.conf
/etc/dbus-1/system.d
/etc/dconf/db
/etc/dconf/db/local.d
/etc/dconf/db/local.d/parrot-skel
/etc/dconf/db/local
/etc/dconf/db/ibus
/etc/default
/etc/dhcp
/etc/dhcp/dhclient-enter-hooks.d
/etc/dhcp/dhclient-exit-hooks.d
/etc/dpkg/dpkg.cfg.d
/etc/dpkg/origins
/etc/dradis
/etc/dradis/environments
/etc/dradis/initializers
/etc/dradis/locales
/etc/dradis/schedules
/etc/emacs/site-start.d
/etc/firefox
```

Verify the current connections from your computer and or server

Netstat

▼ Code



```
1 netstat --help
```

▼ Code



```
4
5      -r, --route           display routing table
6      -i, --interfaces     display interface table
7      -g, --groups         display multicast group memberships
8      -s, --statistics     display networking statistics (like
9      -M, --masquerade     display masqueraded connections
10
11      -v, --verbose        be verbose
12      -W, --wide           don't truncate IP addresses
13      -n, --numeric        don't resolve names
14      --numeric-hosts      don't resolve host names
15      --numeric-ports      don't resolve port names
16      --numeric-users      don't resolve user names
17      -N, --symbolic       resolve hardware names
18      -e, --extend         display other/more information
19      -p, --programs       display PID/Program name for sockets
20      -o, --timers         display timers
21      -c, --continuous    continuous listing
22
23      -l, --listening      display listening server sockets
24      -a, --all            display all sockets (default: connec
25      -F, --fib            display Forwarding Information Base
26      -C, --cache          display routing cache instead of FIB
27      -Z, --context        display SELinux security context for
28
29      <Socket>={-t|--tcp} {-u|--udp} {-U|--udplite} {-S|--sctp} {-w|--raw
30              {-x|--unix} --ax25 --ipx --netrom
31      <AF>=Use '-6|-4' or '-A <af>' or '--<af>'; default: inet
32      List of possible address families (which support routing):
33          inet (DARPA Internet) inet6 (IPv6) ax25 (AMPR AX.25)
34          netrom (AMPR NET/ROM) ipx (Novell IPX) ddp (Appletalk DDP)
35          x25 (CCITT X.25)
```

If you want more information about netstat, you can use the man (manual) page

▼ Code



```
1 man netstat
```



```

netstat - Print network connections, routing tables, interface statistics, masquerade connections, and multicast memberships

SYNOPSIS
netstat [address_family_options] [--tcp|-t] [--udp|-u] [--udplite|-U] [--sctp|-S] [--raw|-w]
[--l2cap|-2] [--rfcomm|-f] [--listening|-l] [--all|-a] [--numeric|-n] [--numeric-hosts]
[--numeric-ports] [--numeric-users] [--symbolic|-N] [--extend|-e|--extend|-e] [--timers|-o]
[--program|-p] [--verbose|-v] [--continuous|-c] [--wide|-W]

netstat [--route|-r] [address_family_options] [--extend|-e|--extend|-e] [--verbose|-v]
[--numeric|-n] [--numeric-hosts] [--numeric-ports] [--numeric-users] [--continuous|-c]

netstat [--interfaces|-i] [--all|-a] [--extend|-e|--extend|-e] [--verbose|-v] [--program|-p]
[--numeric|-n] [--numeric-hosts] [--numeric-ports] [--numeric-users] [--continuous|-c]

netstat [--groups|-g] [--numeric|-n] [--numeric-hosts] [--numeric-ports] [--numeric-users]
[--continuous|-c]

netstat [--masquerade|-M] [--extend|-e] [--numeric|-n] [--numeric-hosts] [--numeric-ports]
[--numeric-users] [--continuous|-c]

netstat [--statistics|-s] [--tcp|-t] [--udp|-u] [--udplite|-U] [--sctp|-S] [--raw|-w]

netstat [--version|-V]

netstat [--help|-h]

address_family_options:

[-4|--inet] [-6|--inet6] [--protocol={inet,inet6,unix,ipx,ax25,netrom,ddp,bluetooth, ...}]
[--unix|-x] [--inet|--ip|--tcpip] [--ax25] [--x25] [--rose] [--ash] [--bluetooth] [--ipx]
Manual page netstat(8) line 1 (press h for help or q to quit)

```

Often an attacker will install a program that doesn't do anything except listen on the network port for instructions. You should look for any process that is listed as in the LISTEN or ESTABLISHED status as these processes are either waiting for a connection (**LISTEN**) or have a connection open (**ESTABLISHED**). If you don't recognize these processes use "strace" or "lsof" (below an example) to try to see what they are doing.

This command will show you 2 parts, the first is "**Active Internet connections (w/o servers)**" and the second is "**Active UNIX domain sockets (w/o servers)**"

Check both carefully because if you got a malicious script running somewhere and this script is trying to sending spam mail or try to attach other servers you can easily find here.

Code

```
1 netstat | more
```



netstat | more Active Internet connections Determine if your Linux computer or server has been hacked

Also on **Windows** is Netstat to use. Open your Command Prompt and type:

Code

```
1 netstat | more
```

```
Active Connections
Proto Local Address      Foreign Address    State
TCP  192.168.17          4                  ESTABLISHED
TCP  192.168.17          4                  ESTABLISHED
TCP  192.168.17          4                  ESTABLISHED
TCP  192.168.17          4                  ESTABLISHED
TCP  192.168.17          4                  ESTABLISHED
TCP  192.168.17          a                  ESTABLISHED
TCP  192.168.17          4                  ESTABLISHED
TCP  192.168.17          5                  TIME_WAIT
TCP  192.168.17          4                  ESTABLISHED
TCP  192.168.17          4                  ESTABLISHED
TCP  192.168.17          1                  ps ESTABLISHED
TCP  192.168.17          1                  ps ESTABLISHED
TCP  192.168.17          1                  ps ESTABLISHED
TCP  192.168.17          5                  TIME_WAIT
TCP  192.168.17          5                  TIME_WAIT
TCP  192.168.17          5                  TIME_WAIT
TCP  192.168.17          5                  TIME_WAIT
TCP  192.168.17          5                  TIME_WAIT
TCP  192.168.17          9                  ESTABLISHED
TCP  192.168.17          5                  TIME_WAIT
TCP  192.168.17          9                  ESTABLISHED
TCP  192.168.17          5                  TIME_WAIT
```

Below I show an example of how to use the command **sudo netstat -atnp | grep ESTA** used. The first image without having anything open, the second image when I opened about 15 tabs in Chrome.

I must say that these commands have always been useful in the past, for example when you spoke to someone on **Telegram**, you could see the IP addresses of the people you spoke to. (also from bots). This IP address leak is now closed.

Code

```
1 sudo netstat -atnp | grep ESTA
```



```
sudo netstat -atnp | grep ESTA
```

When entered correctly, this command will return a descending list of which IPs are connected to your (**server**) "I use this command often for my computer" and how many connections each one has. Looking at your results, you will see connections listed ranging anywhere from 1 to about 50 connections per IP. This can be quite common for normal traffic (server). If however, you see some IPs with 100+ connections, this is something to scrutinize.

Included in the list, you may see known IPs, one or more of the server's own IPs, or even your own personal IP with many connections.

Code

```
1 netstat -ntu|awk '{print $5}'|cut -d: -f1 -s|sort|uniq -c|sort -nk1 -
```



```
netstat -ntu|awk
```




```
bullseye@parrot:~$ ss -t
COMMAND  PID  USER  FD   TYPE DEVICE SIZE/OFF  NODE NAME
gvfsd-smb 3520 bullseye 10u  IPv4  82947      0t0  TCP 192.168.1.100:443->192.168.1.100:443 (ESTABLISHED)
chrome    6331 bullseye 10u  IPv6  312894     0t0  TCP [2001:::5220] (ESTABLISHED)
chrome    6331 bullseye 20u  IPv6  295599     0t0  TCP [2001:::5220] (ESTABLISHED)
chrome    6331 bullseye 32u  IPv4  304846     0t0  TCP 192.168.1.100:443->192.168.1.100:443 (ESTABLISHED)
chrome    6331 bullseye 34u  IPv6  312910     0t0  UDP [2001:::5220] (ESTABLISHED)
chrome    6331 bullseye 35u  IPv4  309428     0t0  TCP 192.168.1.100:443->192.168.1.100:443 (ESTABLISHED)
chrome    6331 bullseye 37u  IPv4  311182     0t0  UDP 224.0.0.252:1900->224.0.0.252:1900 (ESTABLISHED)
chrome    6331 bullseye 39u  IPv4  295595     0t0  TCP 192.168.1.100:443->192.168.1.100:443 (ESTABLISHED)
chrome    6331 bullseye 42u  IPv4  299866     0t0  TCP 192.168.1.100:443->192.168.1.100:443 (ESTABLISHED)
chrome    6331 bullseye 47u  IPv4  299883     0t0  TCP 192.168.1.100:443->192.168.1.100:443 (ESTABLISHED)
chrome    6331 bullseye 49u  IPv4  303156     0t0  TCP 192.168.1.100:443->192.168.1.100:443 (ESTABLISHED)
chrome    6331 bullseye 51u  IPv4  308278     0t0  TCP 192.168.1.100:443->192.168.1.100:443 (ESTABLISHED)
chrome    6331 bullseye 73u  IPv4  224458     0t0  TCP 192.168.1.100:443->192.168.1.100:443 (ESTABLISHED)
chrome    6331 bullseye 82u  IPv4  249264     0t0  TCP 192.168.1.100:443->192.168.1.100:443 (ESTABLISHED)
chrome    6331 bullseye 122u IPv6  250356     0t0  TCP [2001:::5220] (ESTABLISHED)
atic.ak... com:https (ESTABLISHED)
```

strace

strace is a powerful command-line tool for debugging and troubleshooting. It captures and records all system calls made by a process and the signals received by the process.

If **strace** is not pre-installed on your Linux system, run the appropriate command below for your distribution, to install it.

Debian/Ubuntu

Code

```
1 sudo apt install strace
```

RHEL/CentOS

Code

```
1 yum install strace
```

Fedora 22+

Code

```
1 dnf install strace
```

Arch-based

Code

```
1 pacman -S strace
```

▼ Code



```
1 man strace
```



man strace Determine if your Linux computer or server has been hacked

▼ Code



```
1 strace ls
```

▼ Code



```
1 strace -d -p <PID Number>
```



strace ls

| Using ps

The **ps** (process status) command is one of the most frequently used commands in Linux. Usually it is used to get the more and detailed information about a specific process or all processes. For example it is used to know whether a particular process is running or not, who is running what process in system, which process is using higher memory or CPU, how long a process is running, etc.

Use the “man ps” for more info.

▼ Code



```
1 ps aux
```

a = show processes for all users

u = display the process's user/owner

x = also show processes not attached to a terminal

```
root      1  0.0  0.0 109100 12400 ?        Ss   May04   0:00 /sbin/init splash rootdaemond
root      2  0.0  0.0      0      0 ?        S    May04   0:00 [kthreadd]
root      3  0.0  0.0      0      0 ?        I<   May04   0:00 [rcu_gp]
root      4  0.0  0.0      0      0 ?        I<   May04   0:00 [rcu_par_gp]
root      6  0.0  0.0      0      0 ?        I<   May04   0:00 [kworker/0:0H-events_highpri]
root      8  0.0  0.0      0      0 ?        I<   May04   0:00 [mm_percpu_wq]
root      9  0.0  0.0      0      0 ?        S    May04   0:01 [ksoftirqd/0]
root     10  0.1  0.0      0      0 ?        I    May04   1:03 [rcu_sched]
root     11  0.0  0.0      0      0 ?        S    May04   0:00 [migration/0]
root     13  0.0  0.0      0      0 ?        S    May04   0:00 [cpuhp/0]
root     14  0.0  0.0      0      0 ?        S    May04   0:00 [cpuhp/1]
root     15  0.0  0.0      0      0 ?        S    May04   0:00 [migration/1]
root     16  0.0  0.0      0      0 ?        S    May04   0:01 [ksoftirqd/1]
root     18  0.0  0.0      0      0 ?        I<   May04   0:00 [kworker/1:0H-kblockd]
root     19  0.0  0.0      0      0 ?        S    May04   0:00 [cpuhp/2]
root     20  0.0  0.0      0      0 ?        S    May04   0:00 [migration/2]
root     21  0.0  0.0      0      0 ?        S    May04   0:00 [ksoftirqd/2]
root     23  0.0  0.0      0      0 ?        I<   May04   0:00 [kworker/2:0H-events_highpri]
root     24  0.0  0.0      0      0 ?        S    May04   0:00 [cpuhp/3]
root     25  0.0  0.0      0      0 ?        S    May04   0:00 [migration/3]
root     26  0.0  0.0      0      0 ?        S    May04   0:01 [ksoftirqd/3]
root     28  0.0  0.0      0      0 ?        I<   May04   0:00 [kworker/3:0H-events_highpri]
root     30  0.0  0.0      0      0 ?        S    May04   0:00 [kdevtmpfs]
root     31  0.0  0.0      0      0 ?        I<   May04   0:00 [netns]
root     32  0.0  0.0      0      0 ?        S    May04   0:00 [kauditd]
```

Check the running processes with TOP

The top command is a quick way to see what processes are consuming resources. **top** comes pre-installed on every Linux distribution. top it is interactive, and you can browse through the list of processes, kill a process, and so on. As you might have already guessed, you simply need to type this in to launch top.

You can use the arrow keys and Page Up/Down keys to browse through the list. If you want to quit, simply press "q".

Code

```
1 top
```

```
Bulls Eye
top - 15:16:39 up 15:57, 1 user, load average: 0.92, 0.92, 0.88
Tasks: 298 total, 1 running, 297 sleeping, 0 stopped, 0 zombie
%Cpu(s): 1.9 us, 0.7 sy, 0.0 ni, 97.5 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
MiB Mem : 15991.6 total, 1575.4 free, 3449.3 used, 10966.9 buff/cache
MiB Swap: 16293.0 total, 16293.0 free, 0.0 used, 11410.0 avail Mem

  PID USER      PR  NI   VIRT   RES   SHR  S  %CPU  %MEM    TIME+  COMMAND
 26730 bullseye 20   0 9087464 346800 106276 S   3.6   2.1 12:30.95 chrome
 1296 root      20   0 881156  97328 66052 S   2.3   0.6 47:39.66 Xorg
 1145 mongodb  20   0 974892  71044 33508 S   1.7   0.4 11:23.09 mongod
 2277 bullseye 20   0 346900  25276 19384 S   1.3   0.2 12:30.01 mate-multiloa-
 1144 root      20   0 486252  22948 14428 S   0.7   0.1 5:42.74 kismet
 2108 bullseye 20   0 625184  44096 31508 S   0.7   0.3 7:54.04 marco
 2673 root      20   0 1025896 43720 18148 S   0.7   0.3 4:39.30 bettercap
  684 root     -51   0      0      0      0 S   0.3   0.0 2:46.46 irq/40-iwlwifi
  958 root      20   0   8096   5232  1800 S   0.3   0.0 0:29.25 haveged
1509 root      20   0 1527456 86652 42848 S   0.3   0.5 2:34.05 dockerd
1602 root      20   0 1482040 37800 24352 S   0.3   0.2 2:32.51 docker-containe
 6331 bullseye 20   0 391884 120892 66932 S   0.3   0.7 6:30.77 chrome
 6591 bullseye 20   0 4684228 154168 93652 S   0.3   0.9 1:35.58 chrome
 6715 bullseye 20   0 4760684 265664 100724 S   0.3   1.6 7:50.41 chrome
 63667 bullseye 20   0 9302944 545632 427776 S   0.3   3.3 1:07.49 chrome
 63831 bullseye 20   0 5046588 310008 129488 S   0.3   1.9 7:41.78 chrome
 66364 root      20   0      0      0      0 I   0.3   0.0 0:00.51 kworker/0:1-events
 66962 root      20   0      0      0      0 I   0.3   0.0 0:00.12 kworker/3:1-events_power_efficient
 67087 bullseye 20   0 625004 44456 34912 S   0.3   0.3 0:00.36 mate-terminal
 67106 bullseye 20   0   9320   3916  3232 R   0.3   0.0 0:00.07 top
```

keyboard. When you first launch htop, you'll be greeted with a colorful interface showing a list of all processes running on the system. These are normally ordered by the amount of CPU usage, ordered from highest to lowest. It also shows the status of CPU usage, physical and swap memory.

Kill a Process Without Exiting From htop – Press F9 or k

To kill a process, Select the process that needs to be killed from the list, and press F9 or k, which will display the “Send signal” menu that lists all the available signals that you can send to the command.

```

Bulls Eye
1  [|||||] 14.0% Tasks: 151, 629 thr; 1 running
2  [|||||] 11.6% Load average: 0.59 0.85 0.85
3  [|||||] 15.2% Uptime: 16:21:38
4  [|||||] 15.5%
Mem[|||||] 4.34G/15.6G
Swp[|||||] 0K/15.9G

PID USER    PRI  NI  VIRT   RES   SHR  S  CPU% MEM%   TIME+  Command
68084 bullseye 20   0 3153M 664M  187M S 24.2 4.2  2:02.85 /usr/lib/firefox/firefox -contentproc -childID 1 -isForBrow
68011 bullseye 20   0 2814M 374M  165M S 11.4 2.3  1:02.53 /usr/bin/firefox.real
1296 root      20   0 889M  118M 89748 S 5.4 0.7 48:59.24 /usr/lib/xorg/Xorg :0 -seat seat0 -auth /var/run/lightdm/ro
26730 bullseye 20   0 8877M 364M  102M S 4.7 2.3 15:30.81 /opt/google/chrome/chrome --type=renderer --disable-webrtc-
2485 bullseye 20   0 1180M 98168 60316 S 4.0 0.6 1:25.44 flameshot
68124 bullseye 20   0 32.4G 173M 94616 S 4.0 1.1 0:14.14 /usr/lib/firefox/firefox -contentproc -childID 2 -isForBrow
68088 bullseye 20   0 3153M 664M  187M S 2.0 4.2 0:07.82 /usr/lib/firefox/firefox -contentproc -childID 1 -isForBrow
68021 bullseye 20   0 2814M 374M  165M S 1.3 2.3 0:07.56 /usr/bin/firefox.real
68669 bullseye 20   0 5952 4372 3096 R 1.3 0.0 0:00.78 htop
68044 bullseye 20   0 2814M 374M  165M S 1.3 2.3 0:04.78 /usr/bin/firefox.real
2277 bullseye 20   0 338M 25276 19384 S 1.3 0.2 12:48.11 /usr/lib/mate-applets/mate-multiloader-applet
1145 mongod 20   0 952M 71044 33508 S 1.3 0.4 11:39.20 /usr/bin/mongod --unixSocketPrefix=/run/mongod --config /e
1352 root      20   0 889M  118M 89748 S 1.3 0.7 1:47.14 /usr/lib/xorg/Xorg :0 -seat seat0 -auth /var/run/lightdm/ro
68122 bullseye 20   0 2814M 374M  165M S 1.3 2.3 0:03.07 /usr/bin/firefox.real
68069 bullseye 20   0 2814M 374M  165M S 0.7 2.3 0:02.64 /usr/bin/firefox.real
68095 bullseye 20   0 3153M 664M  187M S 0.7 4.2 0:02.47 /usr/lib/firefox/firefox -contentproc -childID 1 -isForBrow
1198 mongod 20   0 952M 71044 33508 S 0.7 0.4 5:58.09 /usr/bin/mongod --unixSocketPrefix=/run/mongod --config /e
2487 bullseye 20   0 1180M 98168 60316 S 0.7 0.6 0:04.75 flameshot
27452 bullseye 20   0 8877M 364M  102M S 0.7 2.3 2:45.08 /opt/google/chrome/chrome --type=renderer --disable-webrtc-

F1Help F2Setup F3Search F4Filter F5Free F6SortBy F7Nice F8Nice F9Kill F10Quit
  
```

Install NTop on Windows

NTop is an Htop-like system-monitor with Vi-emulation for Windows.

Because using Task Manager is not cool enough 😊

First, you have to open in the search bar **PowerShell** and **run it as administrator**. Now we going to install **chocolatey**

Code

```
1 Get-ExecutionPolicy
```

```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

PS C:\Windows\system32> Get-ExecutionPolicy
RemoteSigned
PS C:\Windows\system32> Set-ExecutionPolicy AllSigned

Execution Policy Change
The execution policy helps protect you from scripts that you do not trust. Changing
the execution policy might expose you to the security risks described in the
about_Execution_Policies help topic at
https://go.microsoft.com/fwlink/?LinkID=135170. Do you want to change the execution
policy?
[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help
(default is "N"):Y
PS C:\Windows\system32> Set-ExecutionPolicy Bypass -Scope Process -Force; [System.Ne
t.ServicePointManager]::SecurityProtocol = [System.Net.ServicePointManager]::Securit
yProtocol -bor 3072; iex ((New-Object System.Net.WebClient).DownloadString('https://
chocolatey.org/install.ps1'))
Getting latest version of the Chocolatey package for download.
Getting Chocolatey from https://chocolatey.org/api/v2/package/chocolatey/0.10.15.
Downloading 7-Zip commandline tool prior to extraction.
Extracting C:\Users\IEUser\AppData\Local\Temp\chocolatey\chocInstall\chocolatey.zip
to C:\Users\IEUser\AppData\Local\Temp\chocolatey\chocInstall...
Installing chocolatey on this machine
```

Code

```
1 choco -?
```

Now that it is installed, you can install NTop

Code

```
1 choco install ntop.portable
```

```
Administrator: Windows PowerShell
disk2vhd 2.01.0.20160213 [Approved] Downloads cached for licensed users
Charles 3.12.3 [Approved] Downloads cached for licensed users
install4j.portable 7.0.11 [Approved] Downloads cached for licensed users
appmanage 5.0.1.0 [Approved] Downloads cached for licensed users
Noto 0.20171025 [Approved] Downloads cached for licensed users
smartgit-with-jre 7.1.1 [Approved] Downloads cached for licensed users - Possibly br
oken for FOSS users (due to original download location changes by vendor)
jcpicker 5.2 [Approved] Downloads cached for licensed users - Possibly broken for FO
SS users (due to original download location changes by vendor)
wincontig 1.35.03 [Approved]
xonotic 0.8.2 [Approved] Downloads cached for licensed users
nyagos 4.4.5.4 [Approved] Downloads cached for licensed users
PS C:\Windows\system32> choco install ntop.portable
Chocolatey v0.10.15
Installing the following packages:
ntop.portable
By installing you accept licenses for the packages.
Progress: Downloading NTop.Portable 0.3.4... 100%

NTop.Portable v0.3.4 [Approved]
ntop.portable package files install completed. Performing other installation steps.
ShimGen has successfully created a shim for ntop.exe
The install of ntop.portable was successful.
Software install location not explicitly set, could be in package or
default install location if installer.
```



```
1 ntop
```



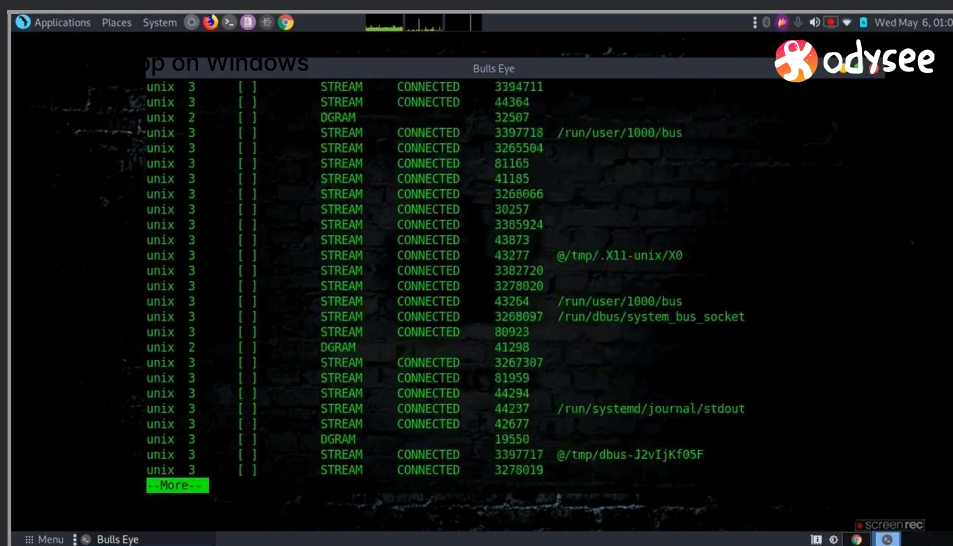
Using NTop for Windows



<https://hackingpassion.com/wp-content/uploads/2020/05/>

Video NTop on windows

In this video, I show you how to install NTop on Windows. The last part of the video shows how to use KILL "k" and shows you **nstat** | **more**.



Become a member on [Odysee.com](https://odysee.com)

Earning on Odysee for watching videos ❤️

Here an invitation link, so that we both benefit.

In this way, you also support my work.

[https://odysee.com/\\$/invite/@hackingpassion:9](https://odysee.com/$/invite/@hackingpassion:9)

Check SSH attempt connections

Check the SSH logs to understand if somebody is trying to get access to the server, or computer.

You can check the access log to the server (SSH) in this way.

This command will show you the log from the last 300 lines of all the attempts

IP2 Proxy Manager

IP2World

Of

Tip: If you need to read backward the log you need to increase the number of lines to 1000 or more, depending on the server use because of this logfile store all access to the server (FTP, SSH, Webmin, and other...)

If you are using a Debian distribution based

▼ Code



```
1 tail -n 300 /var/log/auth.log
```

▼ Code



```
1 tail -n 300 /var/log/auth.log | grep sshd
```

If you are using a Centos/RedHat distribution based

▼ Code



```
1 tail -n 300 /var/log/secure
```

▼ Code



```
1 tail -n 300 /var/log/secure | grep 'sshd'
```

You can use the top command to see what happens on your own PC. The numbers are adjustable.



Check SSH attempt connections

Open ports

Which ports do you have open? you can see this very well with nmap. A simple nmap scan will do for an initial overview.

▼ Code



The `proc` file system is a pseudo-file system which provides an interface to kernel data structures. It is commonly mounted at `/proc`. Read the man page for more info. `man proc`

Code

```
1 ls /proc/*/exe -la
```

or:

Code

```
1 sudo ls /proc/*/exe -la
```



ls /proc/*/exe -la

Common attack points

These are all the common unsecured places where the hacker intrudes into your Linux machine

Code

```
1 ls /tmp -la
```

Code

```
1 ls /dev/shm -la
```

Code

```
1 ls /var/tmp -la
```



Common attack points

Crontab scheduled jobs

Another way is to check the **cronjobs**. Maybe a malicious script or application could be seen here.

“The **crontab** is a list of commands that runs on a regular schedule. Crontab stands for “**cron table**” because it uses the job scheduler cron to execute tasks.”



less /etc/crontab Determine if your Linux computer or server has been hacked

| How to view /etc/crontab on Linux

▼ Code



```
1 cd /etc/
```

▼ Code



```
1 ls -l
```



Determine if your Linux computer or server has been hacked

| View Software Specific Cronjobs

▼ Code



```
1 cd /etc/cron.d/
```

▼ Code



```
1 ls -l
```

▼ Code



```
1 cat filename
```



cd /etc/cron.d/ls -l

| Listing users cron jobs when using systemd timers

Systemd comes with cron system called systemd.timer. This is another option that you can use on systemd based Linux distro. Use the systemctl command as follows to list cron jobs in Linux

▼ Code



```
1 systemctl list-timers
```



Listing users cron jobs when using systemd timers

Conclusion