Question 1: Present the content of manipulating of some command (including syntax, what does it for?, capture two of examples for each command) As pstree –np ; pkill ; uptime ; free

Process Management:

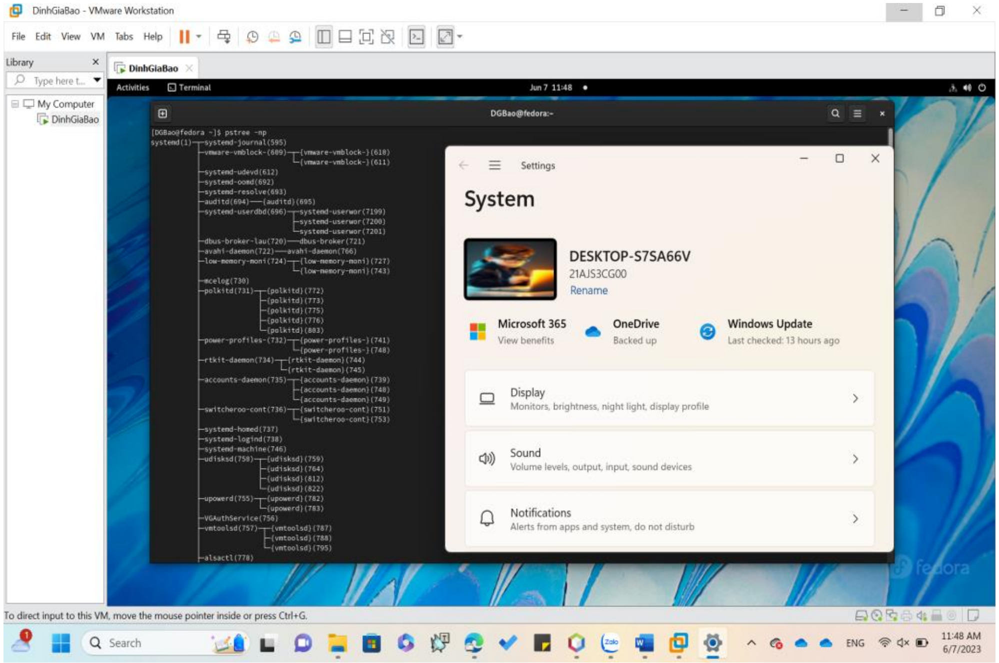
Pstree

Syntax: ps [-option]   with [-option] are :

-a: view all

-ax: view all process, even though the process is not concern with tree

-axl: view all process with the full command



```
[DGBao@fedora ~]$ pstree -np
systemd(1)─┬─systemd-journal(595)
           ├─vmware-vmblock-(609)─┬─{vmware-vmblock-}(610)
           │                      └─{vmware-vmblock-}(611)
           ├─systemd-udevd(612)
           ├─systemd-oomd(692)
           ├─systemd-resolve(693)
           ├─auditd(694)───{auditd}(695)
           ├─systemd-userdbd(696)─┬─systemd-userwor(7199)
           │                      ├─systemd-userwor(7200)
           │                      └─systemd-userwor(7201)
           ├─dbus-broker-lau(720)───dbus-broker(721)
           ├─avahi-daemon(722)───avahi-daemon(766)
           ├─low-memory-moni(724)─┬─{low-memory-moni}(727)
           │                      └─{low-memory-moni}(743)
           ├─mcelog(730)
           ├─polkitd(731)─┬─{polkitd}(772)
           │              ├─{polkitd}(773)
           │              ├─{polkitd}(775)
           │              ├─{polkitd}(776)
           │              └─{polkitd}(803)
           ├─power-profiles-(732)─┬─{power-profiles-}(741)
           │                      └─{power-profiles-}(748)
           ├─rtkit-daemon(734)─┬─{rtkit-daemon}(744)
           │                   └─{rtkit-daemon}(745)
           ├─accounts-daemon(735)─┬─{accounts-daemon}(739)
           │                      ├─{accounts-daemon}(740)
           │                      └─{accounts-daemon}(749)
           ├─switcheroo-cont(736)─┬─{switcheroo-cont}(751)
           │                      └─{switcheroo-cont}(753)
           ├─systemd-homed(737)
           ├─systemd-logind(738)
           ├─systemd-machine(746)
           ├─udisksd(750)─┬─{udisksd}(759)
           │              ├─{udisksd}(764)
           │              ├─{udisksd}(812)
           │              └─{udisksd}(822)
           ├─upowerd(755)─┬─{upowerd}(782)
           │              └─{upowerd}(783)
           ├─VGAuthService(756)
           ├─vmtoolsd(757)─┬─{vmtoolsd}(787)
           │               ├─{vmtoolsd}(788)
           │               └─{vmtoolsd}(795)
           ├─alsactl(778)
```

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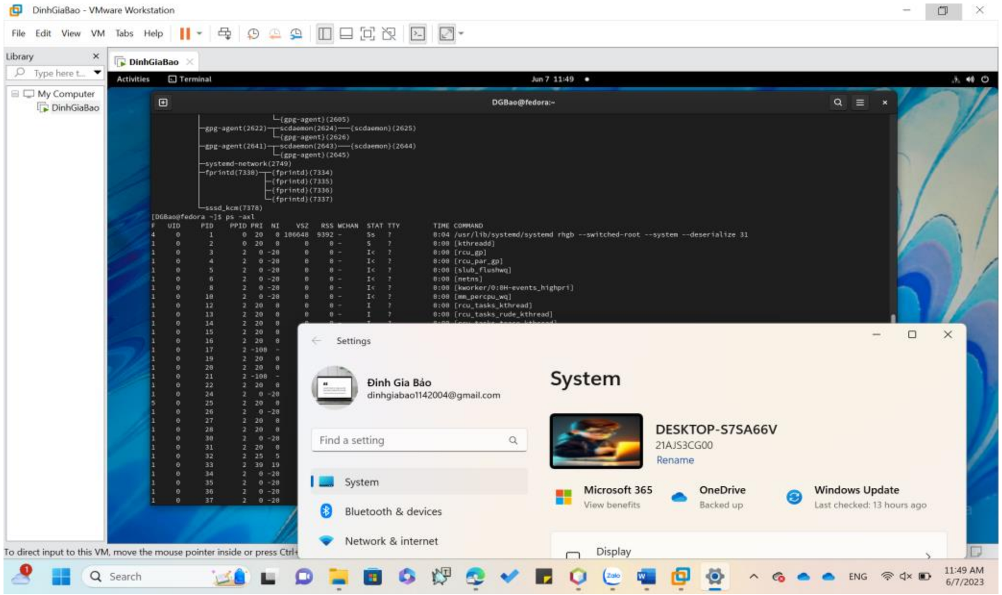
Jun 7 11:48
DGBao@fedora:~
Settings
System
DESKTOP-S7SA66V
21AJS3CG00
Rename
Microsoft 365
View benefits
OneDrive
Backed up
Windows Update
Last checked: 13 hours ago
Display
Monitors, brightness, night light, display profile
Sound
Volume levels, output, input, sound devices
Notifications
Alerts from apps and system, do not disturb
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.
Search
ENG
11:48 AM
6/7/2023

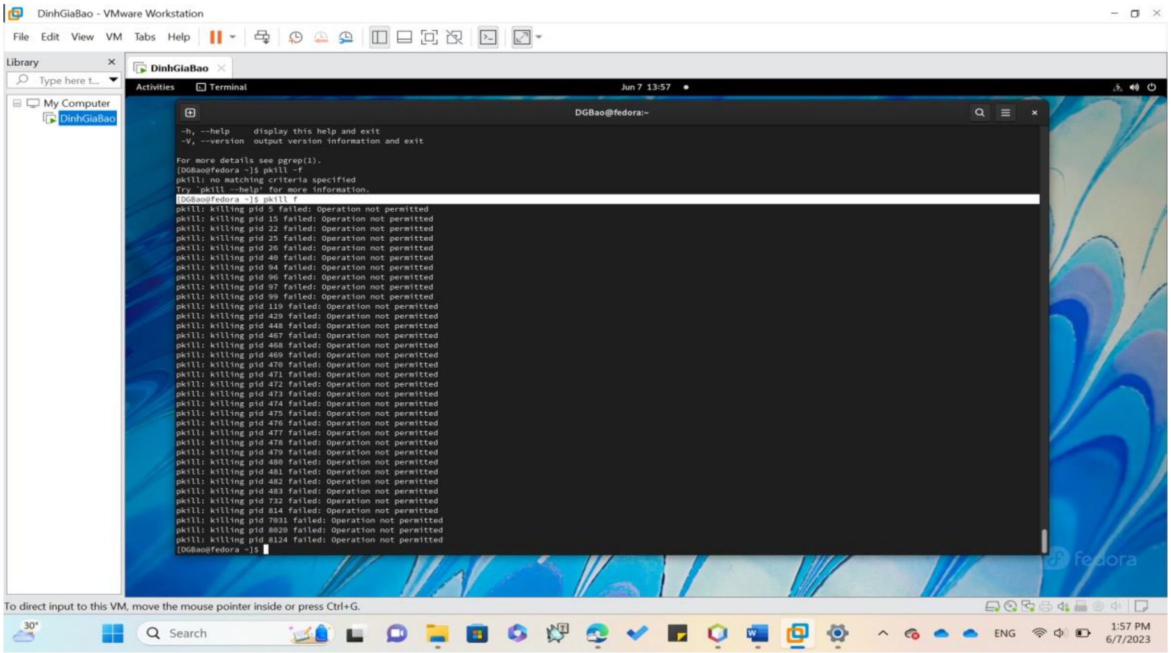


```
                    └─{gpg-agent}(2605)
           ├─gpg-agent(2622)─┬─scdaemon(2624)───{scdaemon}(2625)
           │                 └─{gpg-agent}(2626)
           ├─gpg-agent(2641)─┬─scdaemon(2643)───{scdaemon}(2644)
           │                 └─{gpg-agent}(2645)
           ├─systemd-network(2749)
           ├─fprintd(7330)─┬─{fprintd}(7334)
           │               ├─{fprintd}(7335)
           │               ├─{fprintd}(7336)
           │               └─{fprintd}(7337)
           └─sssd_kcm(7378)
[DGBao@fedora ~]$ ps -axl
F   UID     PID    PPID PRI  NI    VSZ   RSS WCHAN  STAT TTY        TIME COMMAND
4     0       1       0  20   0 106648  9392 -      Ss   ?          0:04 /usr/lib/systemd/systemd rhgb --switched-root --system --deserialize 31
1     0       2       0  20   0      0     0 -      S    ?          0:00 [kthreadd]
1     0       3       2   0 -20      0     0 -      I<   ?          0:00 [rcu_gp]
1     0       4       2   0 -20      0     0 -      I<   ?          0:00 [rcu_par_gp]
1     0       5       2   0 -20      0     0 -      I<   ?          0:00 [slub_flushwq]
1     0       6       2   0 -20      0     0 -      I<   ?          0:00 [netns]
1     0       8       2   0 -20      0     0 -      I<   ?          0:00 [kworker/0:0H-events_highpri]
1     0      10       2   0 -20      0     0 -      I<   ?          0:00 [mm_percpu_wq]
1     0      12       2  20   0      0     0 -      I    ?          0:00 [rcu_tasks_kthread]
1     0      13       2  20   0      0     0 -      I    ?          0:00 [rcu_tasks_rude_kthread]
1     0      14       2  20   0
1     0      15       2  20   0
1     0      16       2  20   0
1     0      17       2 -100  -
1     0      19       2  20   0
1     0      20       2  20   0
1     0      21       2 -100  -
1     0      22       2  20   0
1     0      24       2   0 -20
5     0      25       2  20   0
1     0      26       2   0 -20
1     0      27       2  20   0
1     0      28       2  20   0
1     0      30       2   0 -20
1     0      31       2  20   0
1     0      32       2  25   5
1     0      33       2  39  19
1     0      34       2   0 -20
1     0      35       2   0 -20
1     0      36       2   0 -20
1     0      37       2   0 -20
```

Pkill

pkill is a command-line utility that sends signals to the processes of a running program based on given criteria. The processes can be specified by their full or partial names, a user running the process, or other attributes.

Syntax: pkill [OPTIONS] <PATTERN>



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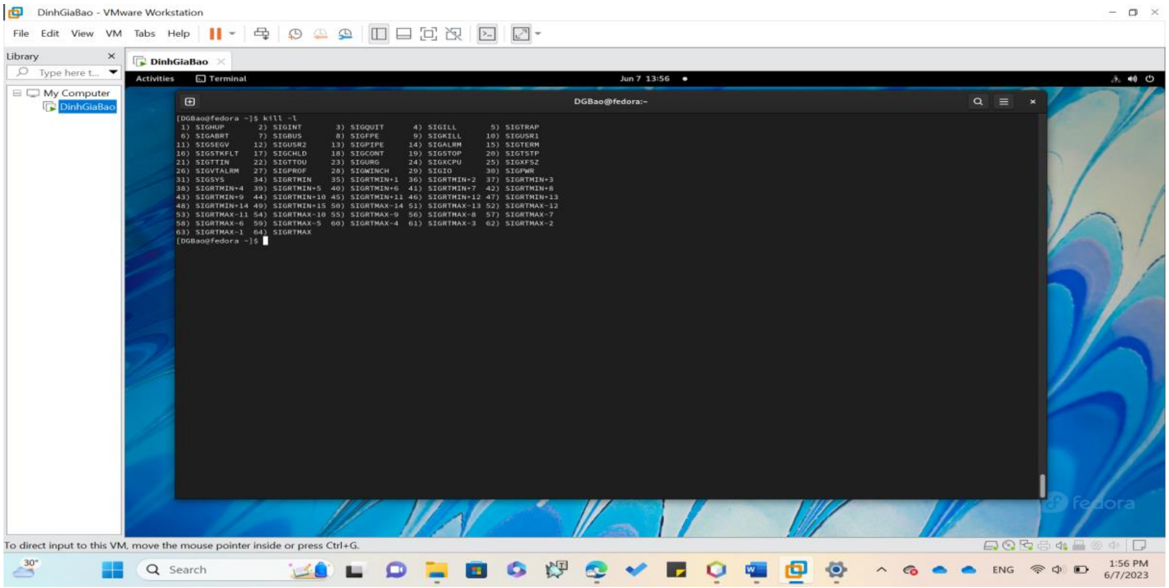
6/7/2023

```
 -h, --help     display this help and exit
 -V, --version  output version information and exit

For more details see pgrep(1).
[DGBao@fedora ~]$ pkill -f
pkill: no matching criteria specified
Try `pkill --help' for more information.
[DGBao@fedora ~]$ pkill f
pkill: killing pid 5 failed: Operation not permitted
pkill: killing pid 15 failed: Operation not permitted
pkill: killing pid 22 failed: Operation not permitted
pkill: killing pid 25 failed: Operation not permitted
pkill: killing pid 26 failed: Operation not permitted
pkill: killing pid 40 failed: Operation not permitted
pkill: killing pid 94 failed: Operation not permitted
pkill: killing pid 96 failed: Operation not permitted
pkill: killing pid 97 failed: Operation not permitted
pkill: killing pid 99 failed: Operation not permitted
pkill: killing pid 119 failed: Operation not permitted
pkill: killing pid 429 failed: Operation not permitted
pkill: killing pid 448 failed: Operation not permitted
pkill: killing pid 467 failed: Operation not permitted
pkill: killing pid 468 failed: Operation not permitted
pkill: killing pid 469 failed: Operation not permitted
pkill: killing pid 470 failed: Operation not permitted
pkill: killing pid 471 failed: Operation not permitted
pkill: killing pid 472 failed: Operation not permitted
pkill: killing pid 473 failed: Operation not permitted
pkill: killing pid 474 failed: Operation not permitted
pkill: killing pid 475 failed: Operation not permitted
pkill: killing pid 476 failed: Operation not permitted
pkill: killing pid 477 failed: Operation not permitted
pkill: killing pid 478 failed: Operation not permitted
pkill: killing pid 479 failed: Operation not permitted
pkill: killing pid 480 failed: Operation not permitted
pkill: killing pid 481 failed: Operation not permitted
pkill: killing pid 482 failed: Operation not permitted
pkill: killing pid 483 failed: Operation not permitted
pkill: killing pid 732 failed: Operation not permitted
pkill: killing pid 814 failed: Operation not permitted
pkill: killing pid 7031 failed: Operation not permitted
pkill: killing pid 8020 failed: Operation not permitted
pkill: killing pid 8124 failed: Operation not permitted
[DGBao@fedora ~]$
```



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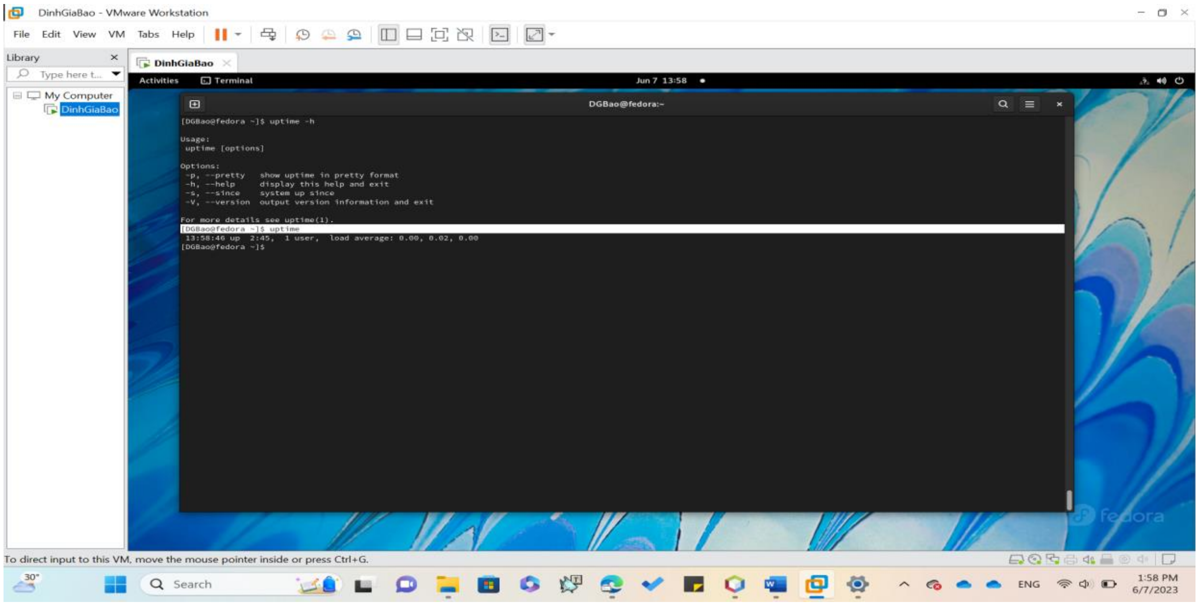
6/7/2023

```
[DGBao@fedora ~]$ kill -l
 1) SIGHUP       2) SIGINT       3) SIGQUIT      4) SIGILL       5) SIGTRAP
 6) SIGABRT      7) SIGBUS       8) SIGFPE       9) SIGKILL     10) SIGUSR1
11) SIGSEGV     12) SIGUSR2     13) SIGPIPE     14) SIGALRM     15) SIGTERM
16) SIGSTKFLT   17) SIGCHLD     18) SIGCONT     19) SIGSTOP     20) SIGTSTP
21) SIGTTIN     22) SIGTTOU     23) SIGURG      24) SIGXCPU     25) SIGXFSZ
26) SIGVTALRM   27) SIGPROF     28) SIGWINCH    29) SIGIO       30) SIGPWR
31) SIGSYS      34) SIGRTMIN    35) SIGRTMIN+1  36) SIGRTMIN+2  37) SIGRTMIN+3
38) SIGRTMIN+4  39) SIGRTMIN+5  40) SIGRTMIN+6  41) SIGRTMIN+7  42) SIGRTMIN+8
43) SIGRTMIN+9  44) SIGRTMIN+10 45) SIGRTMIN+11 46) SIGRTMIN+12 47) SIGRTMIN+13
48) SIGRTMIN+14 49) SIGRTMIN+15 50) SIGRTMAX-14 51) SIGRTMAX-13 52) SIGRTMAX-12
53) SIGRTMAX-11 54) SIGRTMAX-10 55) SIGRTMAX-9  56) SIGRTMAX-8  57) SIGRTMAX-7
58) SIGRTMAX-6  59) SIGRTMAX-5  60) SIGRTMAX-4  61) SIGRTMAX-3  62) SIGRTMAX-2
63) SIGRTMAX-1  64) SIGRTMAX
[DGBao@fedora ~]$
```

Uptime

Uptime Command In Linux: It is used to find out how long the system is active (running). This command returns set of values that involve, the current time, and the amount of time system is in running state, number of users currently logged into, and

Syntax: uptime [-options]



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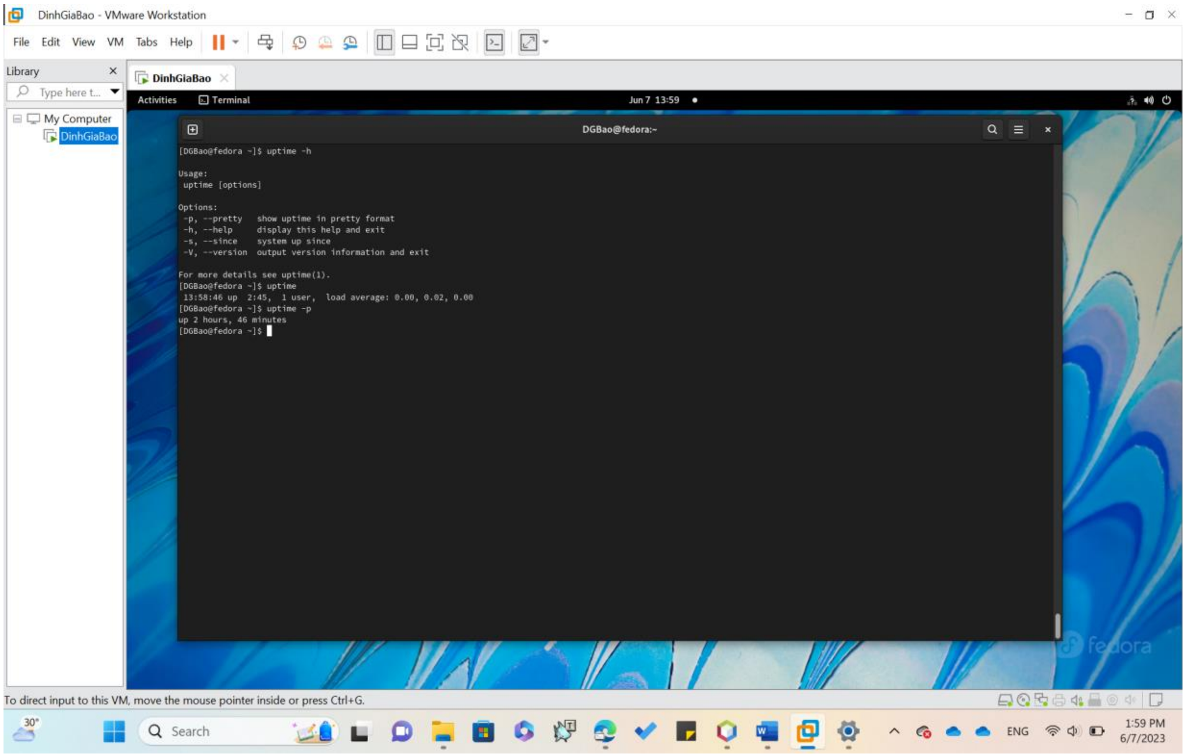
6/7/2023

```
[DGBao@fedora ~]$ uptime -h

Usage:
 uptime [options]

Options:
 -p, --pretty   show uptime in pretty format
 -h, --help     display this help and exit
 -s, --since    system up since
 -V, --version  output version information and exit

For more details see uptime(1).
[DGBao@fedora ~]$ uptime
 13:58:46 up  2:45,  1 user,  load average: 0.00, 0.02, 0.00
[DGBao@fedora ~]$
```



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Activities
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DGBao@fedora:~
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Search
ENG
1:59 PM
6/7/2023

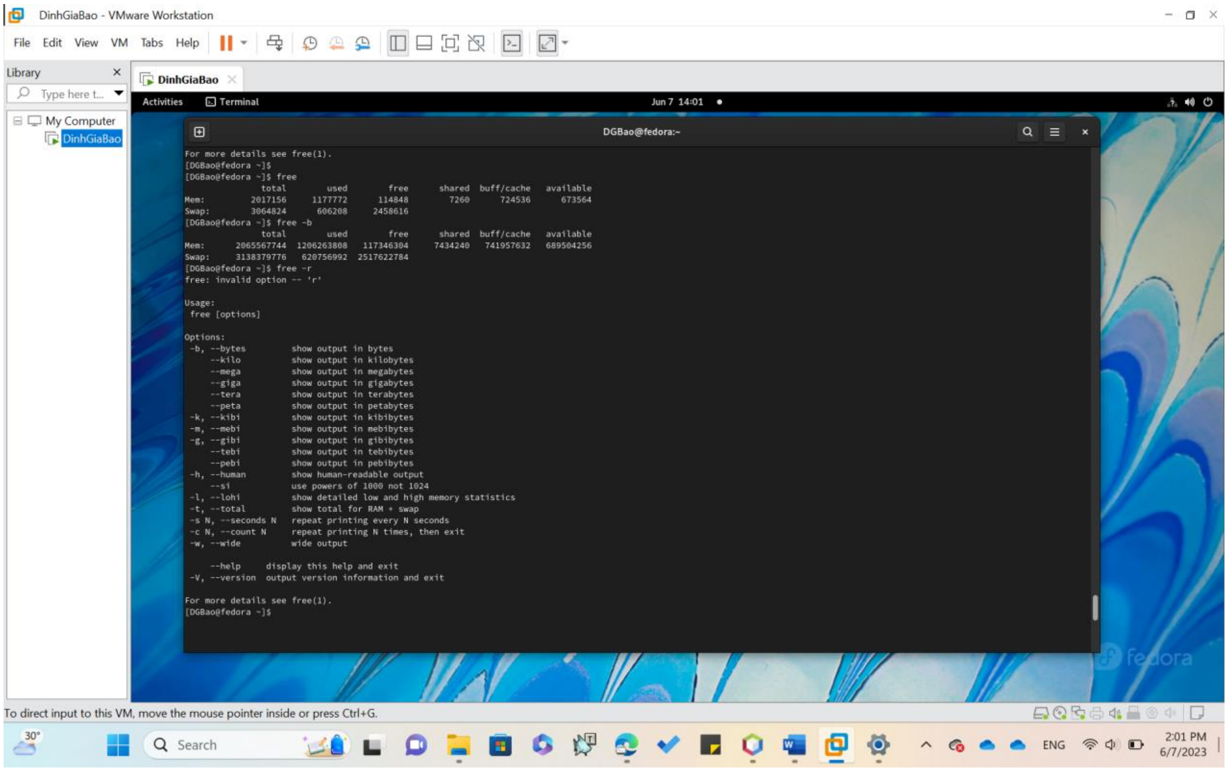
```
[DGBao@fedora ~]$ uptime -h

Usage:
 uptime [options]

Options:
 -p, --pretty   show uptime in pretty format
 -h, --help     display this help and exit
 -s, --since    system up since
 -V, --version  output version information and exit

For more details see uptime(1).
[DGBao@fedora ~]$ uptime
 13:58:46 up  2:45,  1 user,  load average: 0.00, 0.02, 0.00
[DGBao@fedora ~]$ uptime -p
up 2 hours, 46 minutes
[DGBao@fedora ~]$ 
```

Free

In LINUX, there exists a command line utility for this and that is free command which displays the total amount of free space available along with the amount of memory used and swap memory in the system, and also the buffers used by the kernel.

Syxtax: $free [OPTION]

OPTION : refers to the options compatible with free command.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30°
Search
ENG
2:01 PM
6/7/2023

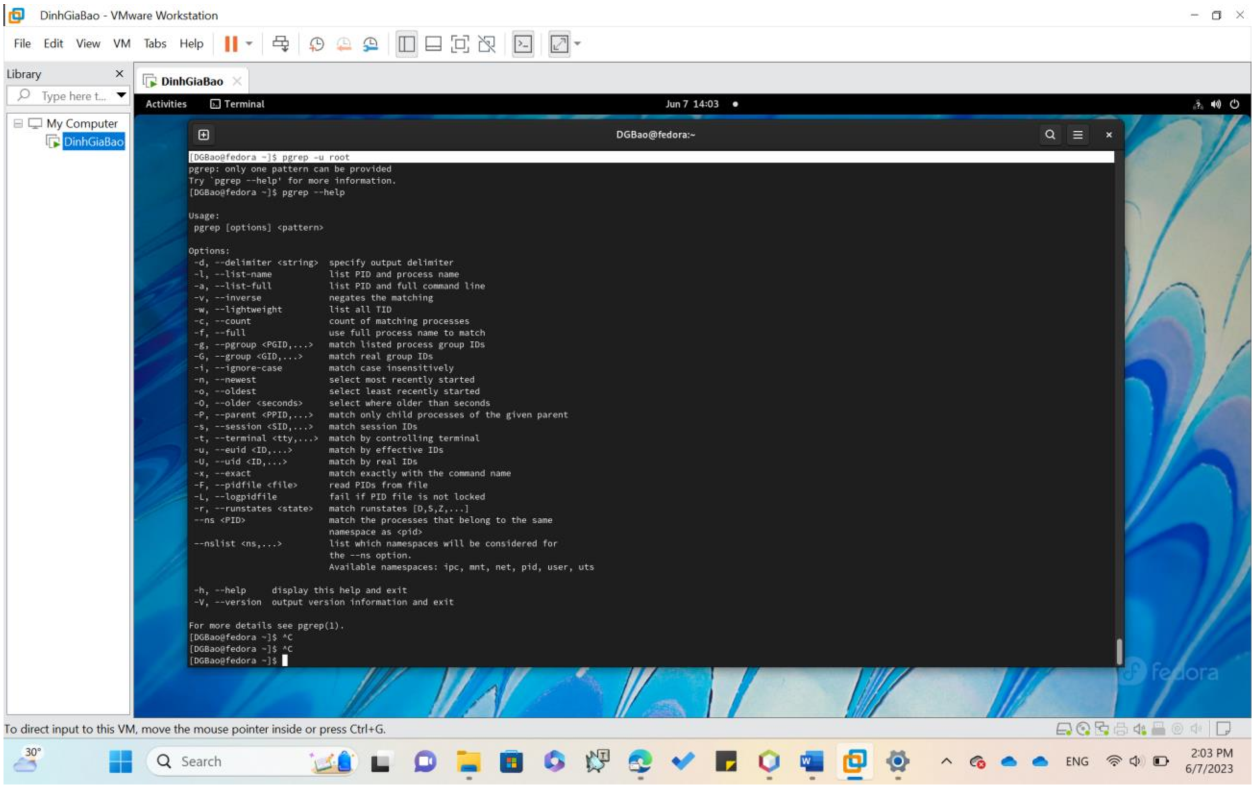
```
For more details see free(1).
[DGBao@fedora ~]$
[DGBao@fedora ~]$ free
               total        used        free      shared  buff/cache   available
Mem:         2017156     1177772      114848        7260      724536      673564
Swap:        3064824      606208     2458616
[DGBao@fedora ~]$ free -b
               total        used        free      shared  buff/cache   available
Mem:      2065567744  1206263808   117346304     7434240   741957632   689504256
Swap:     3138379776   620756992  2517622784
[DGBao@fedora ~]$ free -r
free: invalid option -- 'r'

Usage:
 free [options]

Options:
 -b, --bytes         show output in bytes
     --kilo          show output in kilobytes
     --mega          show output in megabytes
     --giga          show output in gigabytes
     --tera          show output in terabytes
     --peta          show output in petabytes
 -k, --kibi          show output in kibibytes
 -m, --mebi          show output in mebibytes
 -g, --gibi          show output in gibibytes
     --tebi          show output in tebibytes
     --pebi          show output in pebibytes
 -h, --human         show human-readable output
     --si            use powers of 1000 not 1024
 -l, --lohi          show detailed low and high memory statistics
 -t, --total         show total for RAM + swap
 -s N, --seconds N   repeat printing every N seconds
 -c N, --count N     repeat printing N times, then exit
 -w, --wide          wide output

     --help     display this help and exit
 -V, --version  output version information and exit

For more details see free(1).
[DGBao@fedora ~]$
```

Question 2: Capture the terminal screen using the “pgrep –u root” command.

Explain the result of the capture

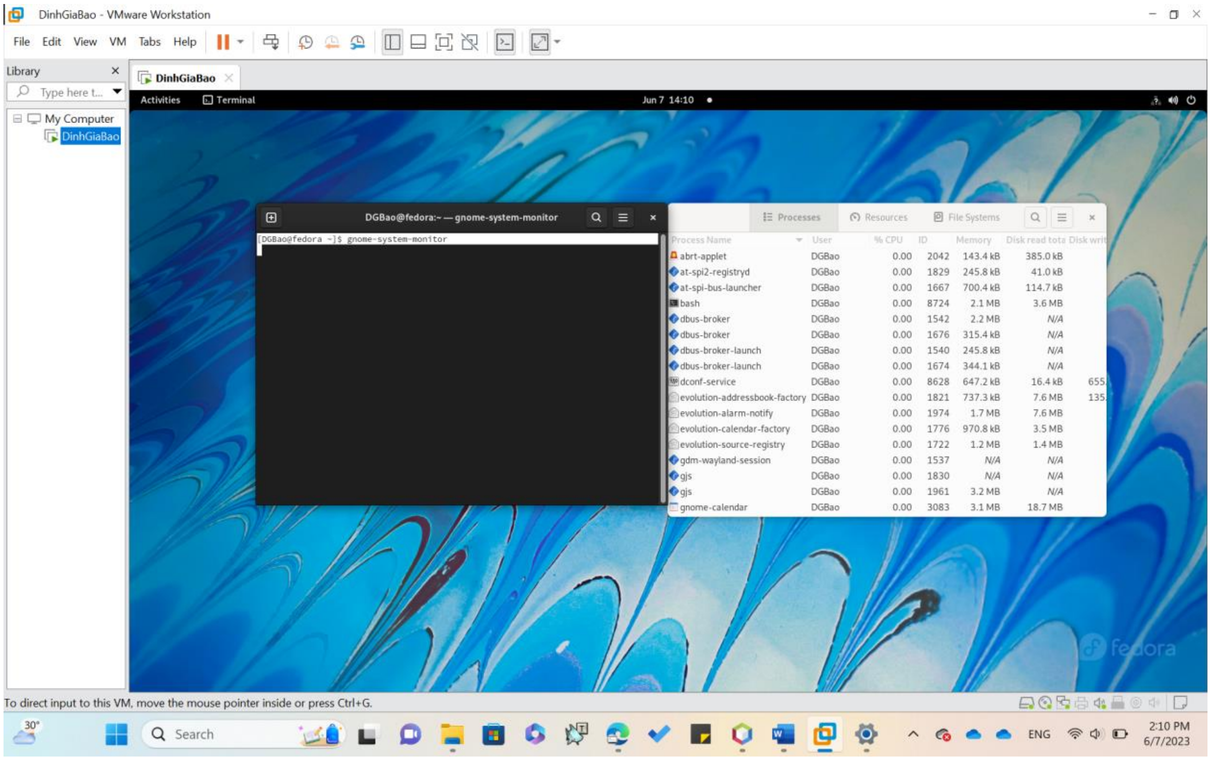
Explain: The pgrep -u root command in Linux is used to search and list the process IDs (PIDs) of running processes owned by the "root" user.

Syxtax : pgrep [options] <pattern>



```
[DGBao@fedora ~]$ pgrep -u root
pgrep: only one pattern can be provided
Try `pgrep --help' for more information.
[DGBao@fedora ~]$ pgrep --help

Usage:
 pgrep [options] <pattern>

Options:
 -d, --delimiter <string>  specify output delimiter
 -l, --list-name           list PID and process name
 -a, --list-full           list PID and full command line
 -v, --inverse             negates the matching
 -w, --lightweight         list all TID
 -c, --count               count of matching processes
 -f, --full                use full process name to match
 -g, --pgroup <PGID,...>   match listed process group IDs
 -G, --group <GID,...>     match real group IDs
 -i, --ignore-case         match case insensitively
 -n, --newest              select most recently started
 -o, --oldest              select least recently started
 -O, --older <seconds>     select where older than seconds
 -P, --parent <PPID,...>   match only child processes of the given parent
 -s, --session <SID,...>   match session IDs
 -t, --terminal <tty,...>  match by controlling terminal
 -u, --euid <ID,...>       match by effective IDs
 -U, --uid <ID,...>        match by real IDs
 -x, --exact               match exactly with the command name
 -F, --pidfile <file>      read PIDs from file
 -L, --logpidfile          fail if PID file is not locked
 -r, --runstates <state>   match runstates [D,S,Z,...]
 --ns <PID>                match the processes that belong to the same
                           namespace as <pid>
 --nslist <ns,...>         list which namespaces will be considered for
                           the --ns option.
                           Available namespaces: ipc, mnt, net, pid, user, uts

 -h, --help     display this help and exit
 -V, --version  output version information and exit

For more details see pgrep(1).
[DGBao@fedora ~]$ ^C
[DGBao@fedora ~]$ ^C
[DGBao@fedora ~]$ 
```

<span style="color:red">Question 3:</span> How to open same "Task Manager" as Windows in Linux that shows the processes tab? Capture that windows (using both command and GUI on taskbar).



```
[DGBao@fedora ~]$ gnome-system-monitor
```

Process Name	User	% CPU	ID	Memory	Disk read tota	Disk writ
abrt-applet	DGBao	0.00	2042	143.4 kB	385.0 kB	
at-spi2-registryd	DGBao	0.00	1829	245.8 kB	41.0 kB	
at-spi-bus-launcher	DGBao	0.00	1667	700.4 kB	114.7 kB	
bash	DGBao	0.00	8724	2.1 MB	3.6 MB	
dbus-broker	DGBao	0.00	1542	2.2 MB	N/A	
dbus-broker	DGBao	0.00	1676	315.4 kB	N/A	
dbus-broker-launch	DGBao	0.00	1540	245.8 kB	N/A	
dbus-broker-launch	DGBao	0.00	1674	344.1 kB	N/A	
dconf-service	DGBao	0.00	8628	647.2 kB	16.4 kB	655
evolution-addressbook-factory	DGBao	0.00	1821	737.3 kB	7.6 MB	135
evolution-alarm-notify	DGBao	0.00	1974	1.7 MB	7.6 MB	
evolution-calendar-factory	DGBao	0.00	1776	970.8 kB	3.5 MB	
evolution-source-registry	DGBao	0.00	1722	1.2 MB	1.4 MB	
gdm-wayland-session	DGBao	0.00	1537	N/A	N/A	
gjs	DGBao	0.00	1830	N/A	N/A	
gjs	DGBao	0.00	1961	3.2 MB	N/A	
gnome-calendar	DGBao	0.00	3083	3.1 MB	18.7 MB	

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DGBao@fedora:~ — gnome-system-monitor
Processes
Resources
File Systems
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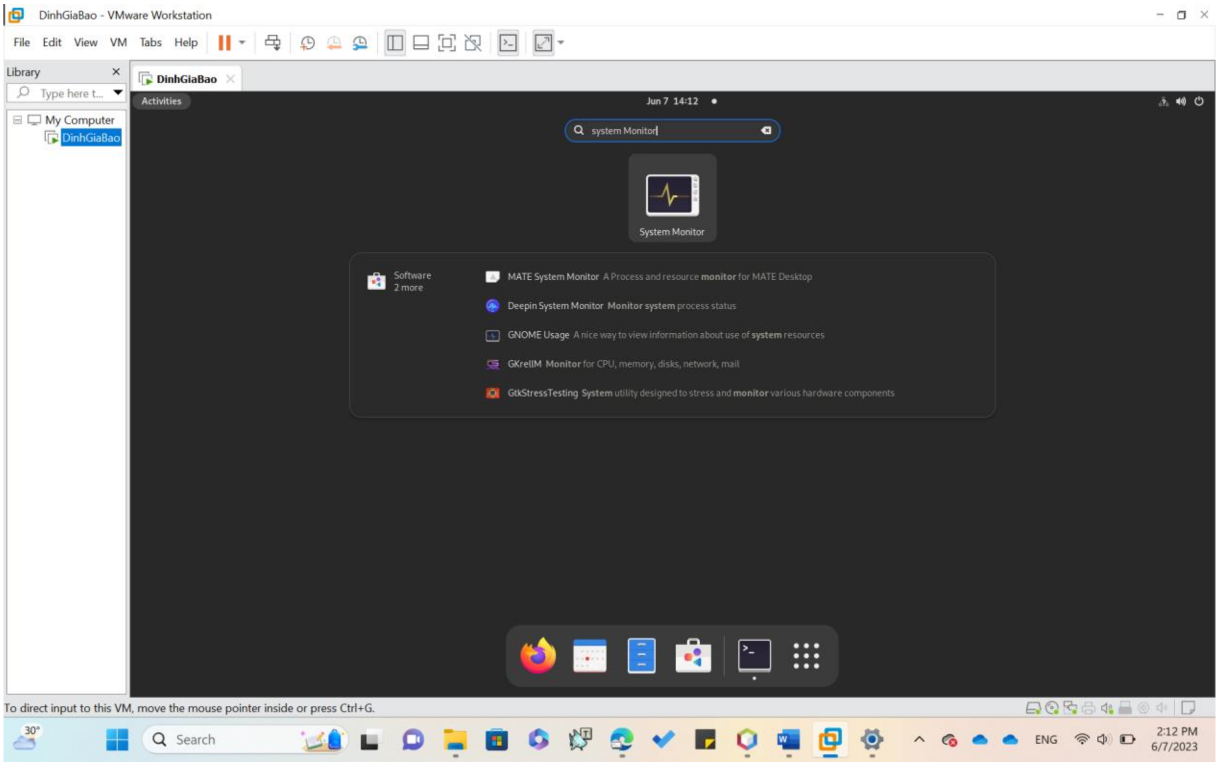
Search
ENG
2:10 PM
6/7/2023



system Monitor

System Monitor

Software
2 more

MATE System Monitor A Process and resource **monitor** for MATE Desktop

Deepin System Monitor **Monitor system** process status

GNOME Usage A nice way to view information about use of **system** resources

GKrellM **Monitor** for CPU, memory, disks, network, mail

GtkStressTesting **System** utility designed to stress and **monitor** various hardware components

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ENG
2:12 PM
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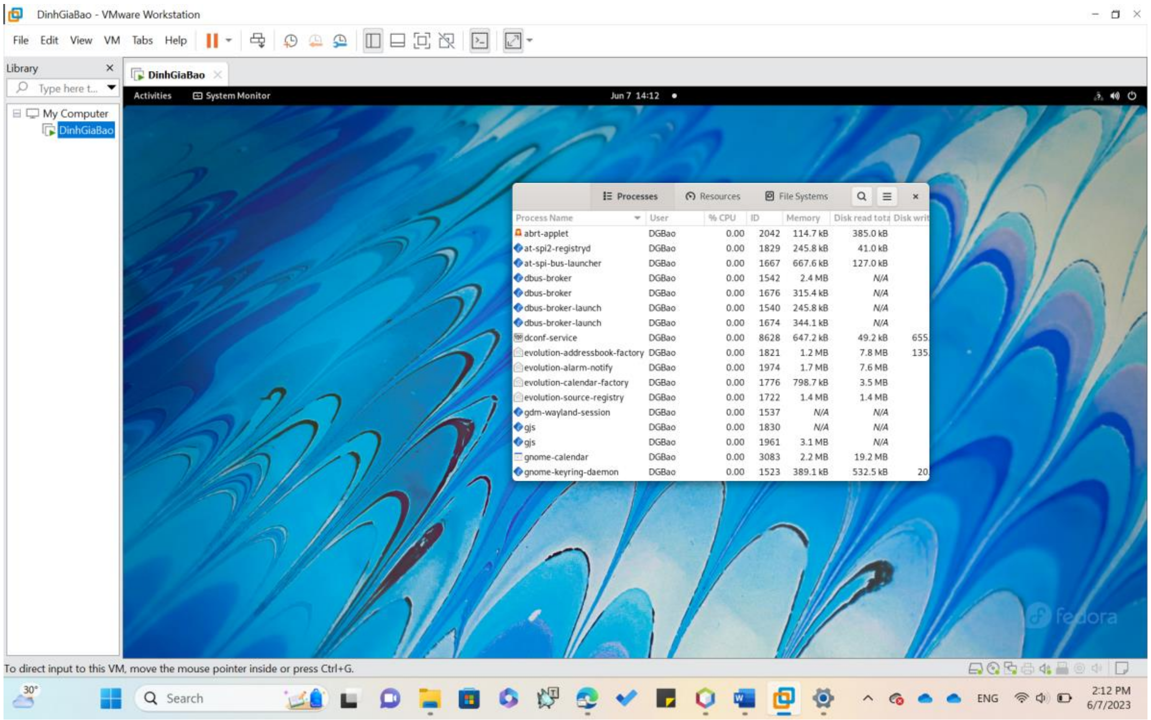
DinhGiaBao - VMware Workstation
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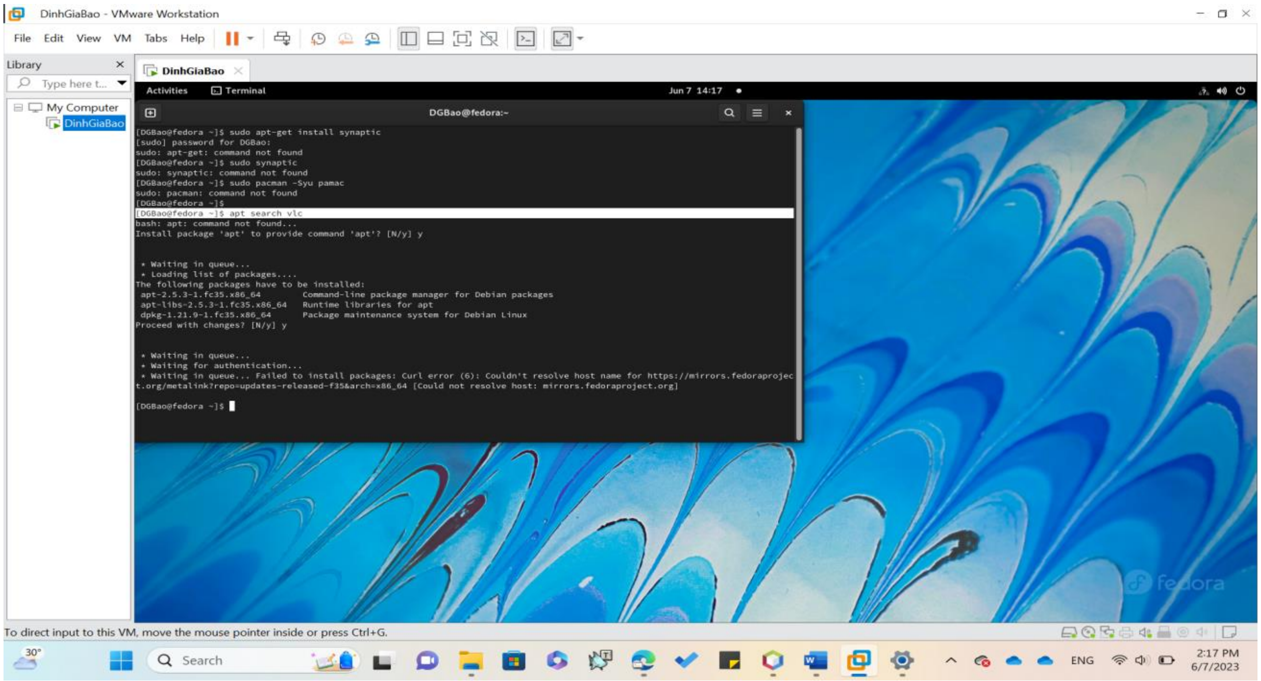
DinhGiaBao
Activities
System Monitor
Jun 7 14:12
Processes
Resources
File Systems
fedora
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.
Search
ENG
2:12 PM
6/7/2023

Process Name	User	% CPU	ID	Memory	Disk read tota	Disk writ
abrt-applet	DGBao	0.00	2042	114.7 kB	385.0 kB	
at-spi2-registryd	DGBao	0.00	1829	245.8 kB	41.0 kB	
at-spi-bus-launcher	DGBao	0.00	1667	667.6 kB	127.0 kB	
dbus-broker	DGBao	0.00	1542	2.4 MB	N/A	
dbus-broker	DGBao	0.00	1676	315.4 kB	N/A	
dbus-broker-launch	DGBao	0.00	1540	245.8 kB	N/A	
dbus-broker-launch	DGBao	0.00	1674	344.1 kB	N/A	
dconf-service	DGBao	0.00	8628	647.2 kB	49.2 kB	655.
evolution-addressbook-factory	DGBao	0.00	1821	1.2 MB	7.8 MB	135.
evolution-alarm-notify	DGBao	0.00	1974	1.7 MB	7.6 MB	
evolution-calendar-factory	DGBao	0.00	1776	798.7 kB	3.5 MB	
evolution-source-registry	DGBao	0.00	1722	1.4 MB	1.4 MB	
gdm-wayland-session	DGBao	0.00	1537	N/A	N/A	
gjs	DGBao	0.00	1830	N/A	N/A	
gjs	DGBao	0.00	1961	3.1 MB	N/A	
gnome-calendar	DGBao	0.00	3083	2.2 MB	19.2 MB	
gnome-keyring-daemon	DGBao	0.00	1523	389.1 kB	532.5 kB	20.

Question 4: How to open same "Add/Remove Program" as Windows in Linux that allows to update or remove the package software to OS? Capture that window.

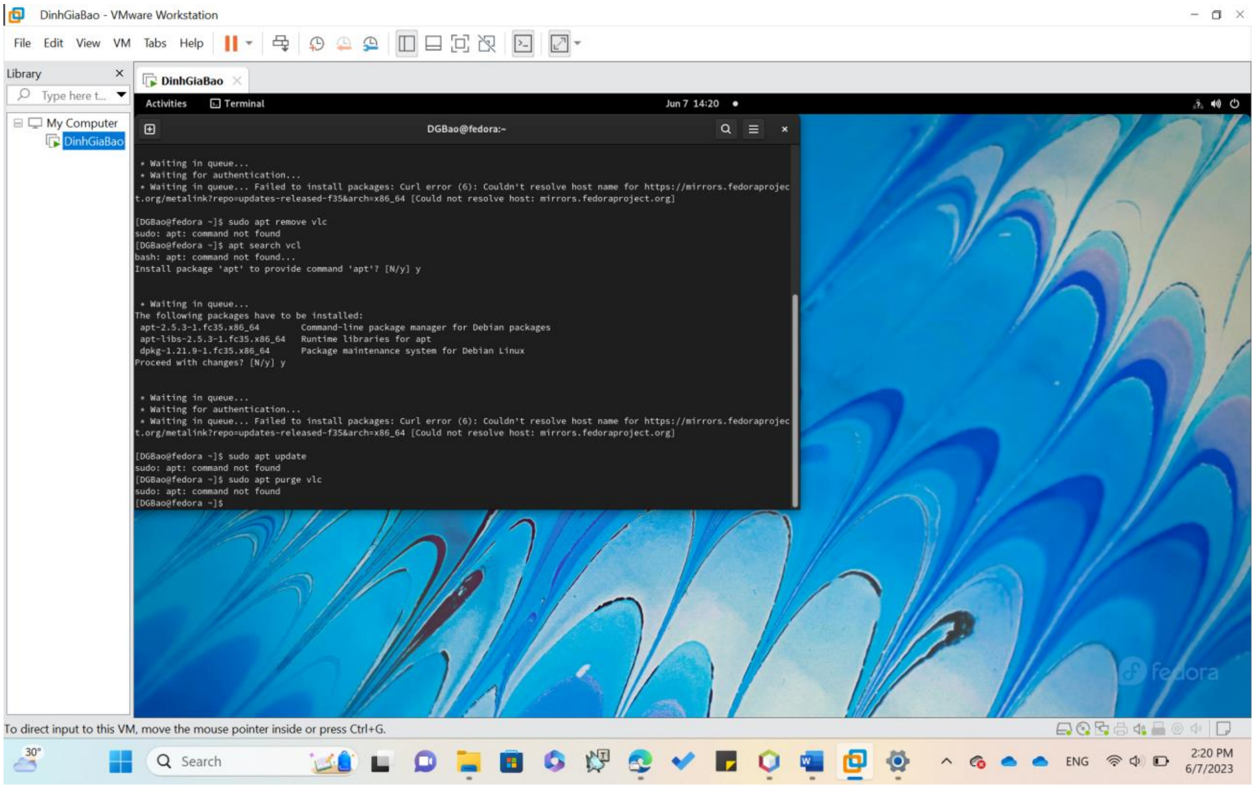

DinhGiaBao - VMware Workstation
File Edit View VM Tabs Help
Library
My Computer
DinhGiaBao
Activities
Terminal
Jun 7 14:17
DGBao@fedora:~
fedora
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.
Search
ENG
2:17 PM
6/7/2023

```
[DGBao@fedora ~]$ sudo apt-get install synaptic
[sudo] password for DGBao:
sudo: apt-get: command not found
[DGBao@fedora ~]$ sudo synaptic
sudo: synaptic: command not found
[DGBao@fedora ~]$ sudo pacman -Syu pamac
sudo: pacman: command not found
[DGBao@fedora ~]$
[DGBao@fedora ~]$ apt search vlc
bash: apt: command not found...
Install package 'apt' to provide command 'apt'? [N/y] y


 * Waiting in queue...
 * Loading list of packages....
The following packages have to be installed:
 apt-2.5.3-1.fc35.x86_64        Command-line package manager for Debian packages
 apt-libs-2.5.3-1.fc35.x86_64   Runtime libraries for apt
 dpkg-1.21.9-1.fc35.x86_64      Package maintenance system for Debian Linux
Proceed with changes? [N/y] y


 * Waiting in queue...
 * Waiting for authentication...
 * Waiting in queue... Failed to install packages: Curl error (6): Couldn't resolve host name for https://mirrors.fedoraprojec
t.org/metalink?repo=updates-released-f35&arch=x86_64 [Could not resolve host: mirrors.fedoraproject.org]

[DGBao@fedora ~]$ 
```


DinhGiaBao - VMware Workstation
File Edit View VM Tabs Help
Library
Type here t...
My Computer
DinhGiaBao
DinhGiaBao
Activities
Terminal
Jun 7 14:20
DGBao@fedora:~
fedora
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.
30°
Search
ENG
2:20 PM
6/7/2023

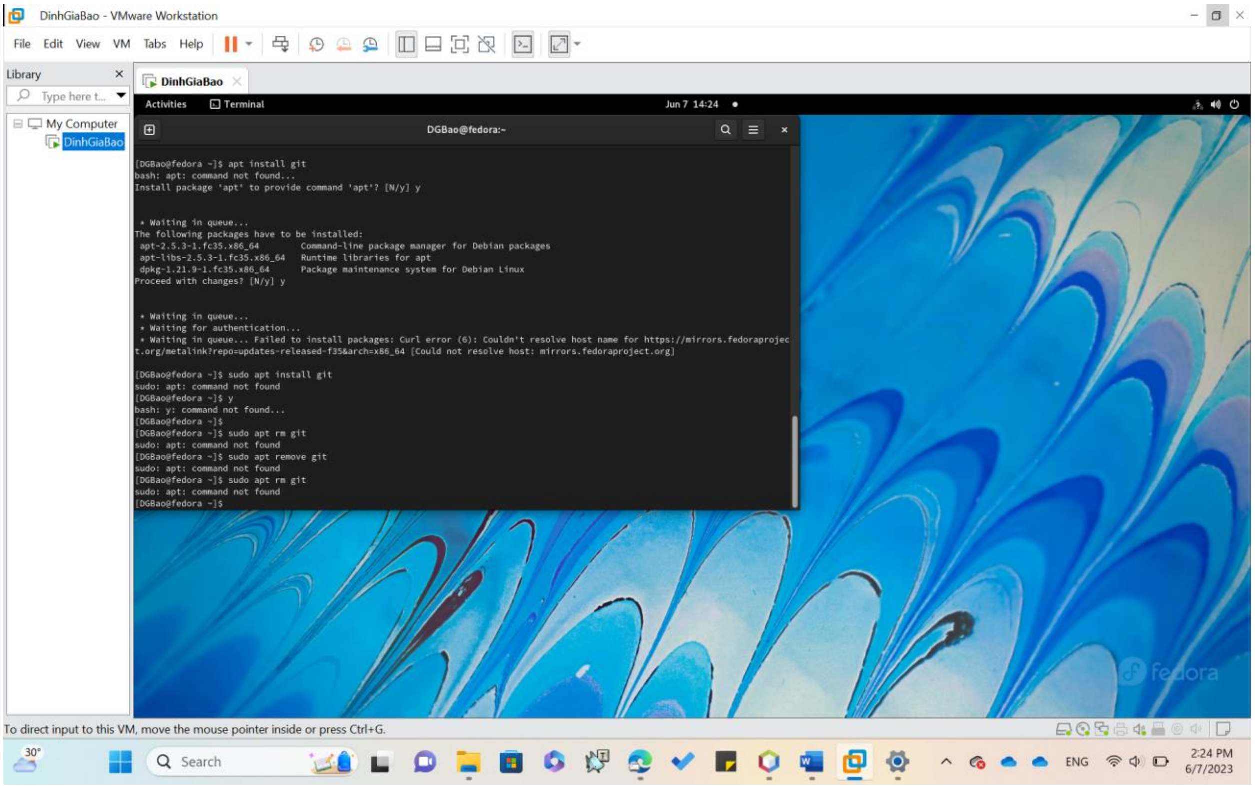
```
 * Waiting in queue...
 * Waiting for authentication...
 * Waiting in queue... Failed to install packages: Curl error (6): Couldn't resolve host name for https://mirrors.fedoraprojec
t.org/metalink?repo=updates-released-f35&arch=x86_64 [Could not resolve host: mirrors.fedoraproject.org]

[DGBao@fedora ~]$ sudo apt remove vlc
sudo: apt: command not found
[DGBao@fedora ~]$ apt search vcl
bash: apt: command not found...
Install package 'apt' to provide command 'apt'? [N/y] y


 * Waiting in queue...
The following packages have to be installed:
 apt-2.5.3-1.fc35.x86_64        Command-line package manager for Debian packages
 apt-libs-2.5.3-1.fc35.x86_64   Runtime libraries for apt
 dpkg-1.21.9-1.fc35.x86_64      Package maintenance system for Debian Linux
Proceed with changes? [N/y] y


 * Waiting in queue...
 * Waiting for authentication...
 * Waiting in queue... Failed to install packages: Curl error (6): Couldn't resolve host name for https://mirrors.fedoraprojec
t.org/metalink?repo=updates-released-f35&arch=x86_64 [Could not resolve host: mirrors.fedoraproject.org]

[DGBao@fedora ~]$ sudo apt update
sudo: apt: command not found
[DGBao@fedora ~]$ sudo apt purge vlc
sudo: apt: command not found
[DGBao@fedora ~]$
```


DinhGiaBao - VMware Workstation
File Edit View VM Tabs Help
Library
Type here t...
My Computer
DinhGiaBao
DinhGiaBao
Activities
Terminal
Jun 7 14:24
DGBao@fedora:~
fedora
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.
30°
Search
ENG
2:24 PM
6/7/2023

```
[DGBao@fedora ~]$ apt install git
bash: apt: command not found...
Install package 'apt' to provide command 'apt'? [N/y] y


 * Waiting in queue...
The following packages have to be installed:
 apt-2.5.3-1.fc35.x86_64        Command-line package manager for Debian packages
 apt-libs-2.5.3-1.fc35.x86_64   Runtime libraries for apt
 dpkg-1.21.9-1.fc35.x86_64      Package maintenance system for Debian Linux
Proceed with changes? [N/y] y


 * Waiting in queue...
 * Waiting for authentication...
 * Waiting in queue... Failed to install packages: Curl error (6): Couldn't resolve host name for https://mirrors.fedoraprojec
t.org/metalink?repo=updates-released-f35&arch=x86_64 [Could not resolve host: mirrors.fedoraproject.org]

[DGBao@fedora ~]$ sudo apt install git
sudo: apt: command not found
[DGBao@fedora ~]$ y
bash: y: command not found...
[DGBao@fedora ~]$
[DGBao@fedora ~]$ sudo apt rm git
sudo: apt: command not found
[DGBao@fedora ~]$ sudo apt remove git
sudo: apt: command not found
[DGBao@fedora ~]$ sudo apt rm git
sudo: apt: command not found
[DGBao@fedora ~]$
```