

TASK 5

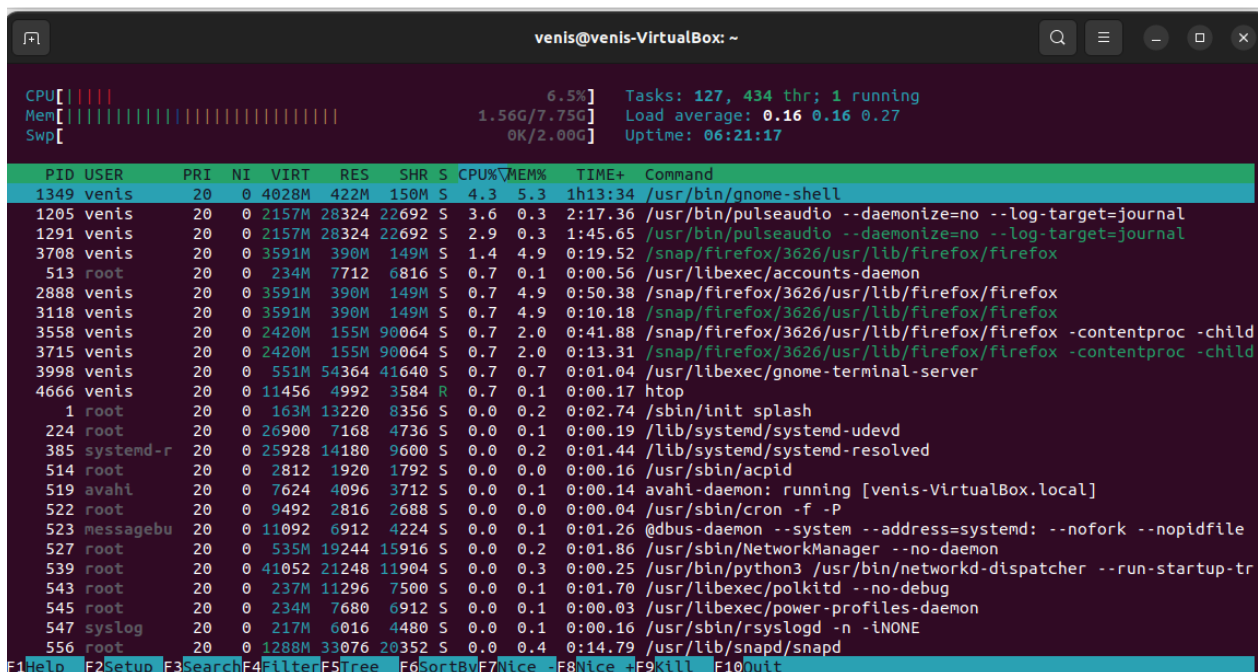
Task: Create a tutorial that explains how to use the "htop" command-line tool to monitor resource utilization on a Linux system. Cover the key features of "htop" and provide realtime examples of its application.

Htop : “htop” command is used as a cross-platform interactive process viewer .

To install htop use the following command :

Sudo apt install htop

```
venis@venis-VirtualBox:~$ sudo apt install htop
[sudo] password for venis:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Suggested packages:
  lm-sensors
The following NEW packages will be installed:
  htop
0 upgraded, 1 newly installed, 0 to remove and 61 not upgraded.
Need to get 128 kB of archives.
After this operation, 342 kB of additional disk space will be used.
Get:1 http://in.archive.ubuntu.com/ubuntu jammy/main amd64 htop amd64 3.0.5-7build2 [128 kB]
Fetched 128 kB in 7s (19.3 kB/s)
Selecting previously unselected package htop.
(Reading database ... 198709 files and directories currently installed.)
Preparing to unpack .../htop_3.0.5-7build2_amd64.deb ...
Unpacking htop (3.0.5-7build2) ...
Setting up htop (3.0.5-7build2) ...
Processing triggers for mailcap (3.70+nmu1ubuntu1) ...
Processing triggers for desktop-file-utils (0.26-1ubuntu3) ...
Processing triggers for hicolor-icon-theme (0.17-2) ...
Processing triggers for gnome-menus (3.36.0-1ubuntu3) ...
Processing triggers for man-db (2.10.2-1) ...
venis@venis-VirtualBox:~$
```



- **PID:** PID is process id,
- **USER:** User column represents the user which started the process.
- **PRI:** PRI shows the priority of the
- **NI:** The nice value of a process
- **VIRT:** The size of the virtual memory of the process
- **CPU%:** It shows the percentage of CPU usage by a process
- **RES:** The resident set size (text + data + stack) of the process.
- **SHR:** The size of the process's shared pages.
- **MEM%** It shows the percentage of memory usage by the process
- **TIME:** The amount of time has been running for
- **Command:** it shows the command to run that process

Following are the options:

- **F1:** F1 is to show help
- **F2:** F2 is used to select setup
- **F3:** F3 is used to search the process
- **F4:** F4 is used to filter the processes
- **F5:** F5 is used to show the tree of the command
- **F6:** F6 is used to sort the processes by some feature0
- **F7:** Nice
- **F8:** Nice
- **F9:** F9 is used to kill a process
- **F10:** F10 is to quit