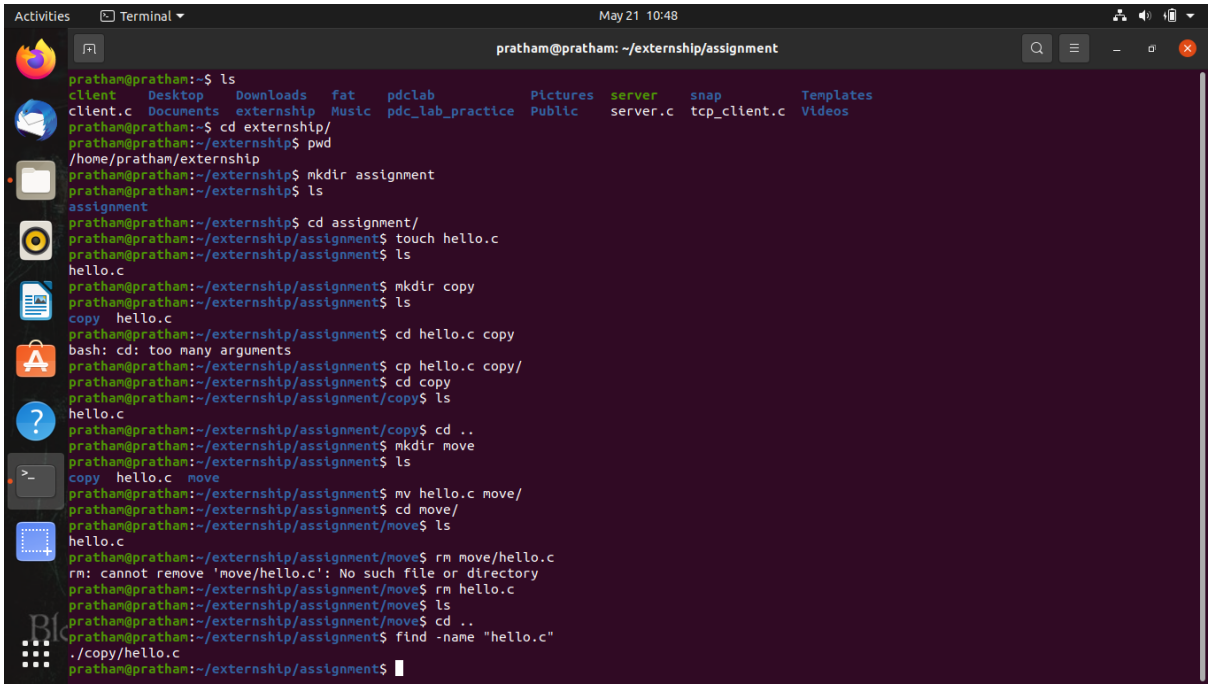
Name: Pratham Gupta

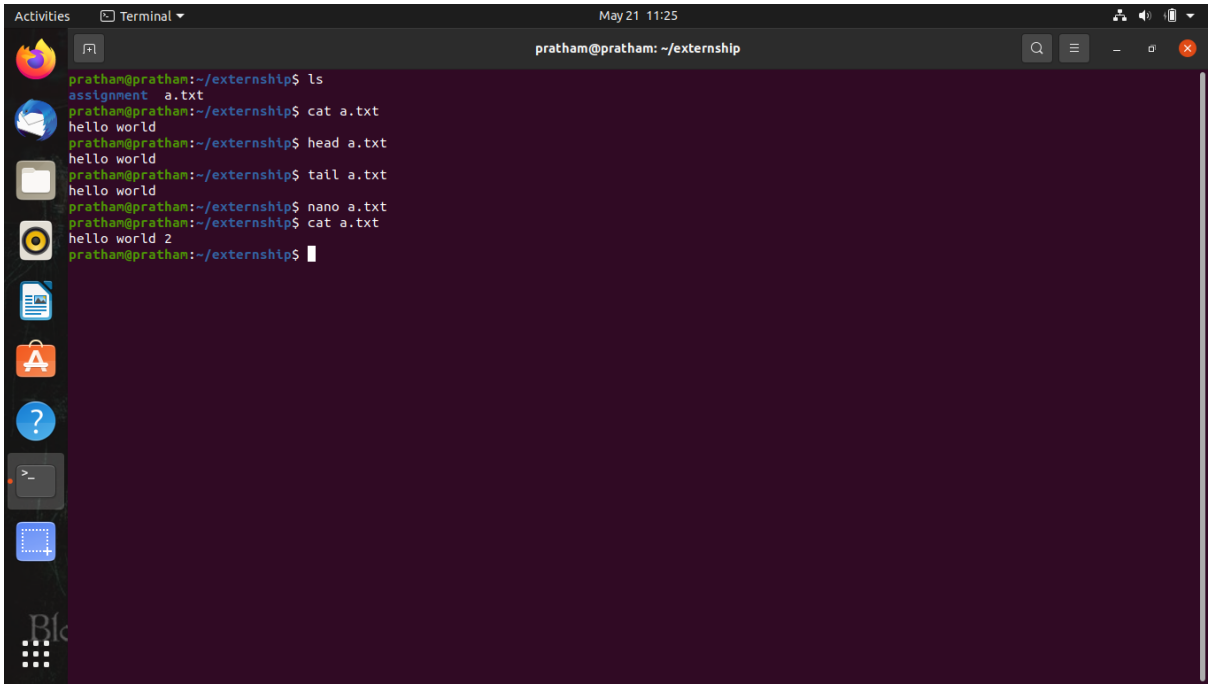
Reg. No: 20BCE2084

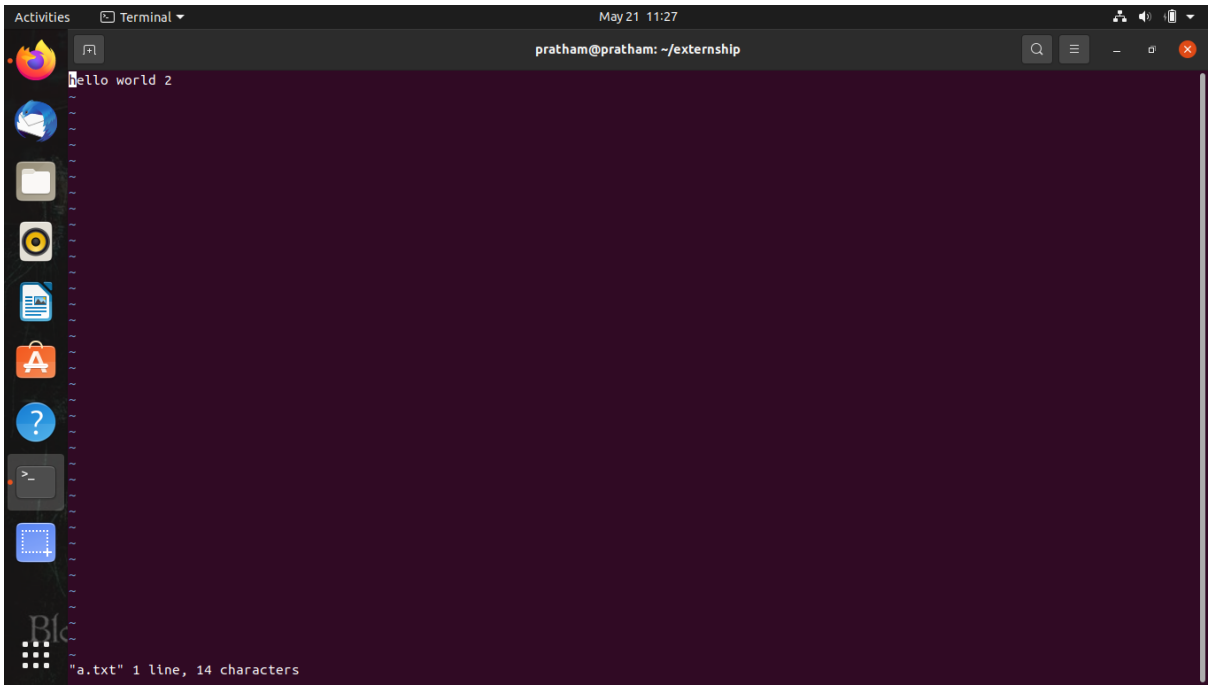
# Linux Command List Assessment

1. File and Directory Operations:

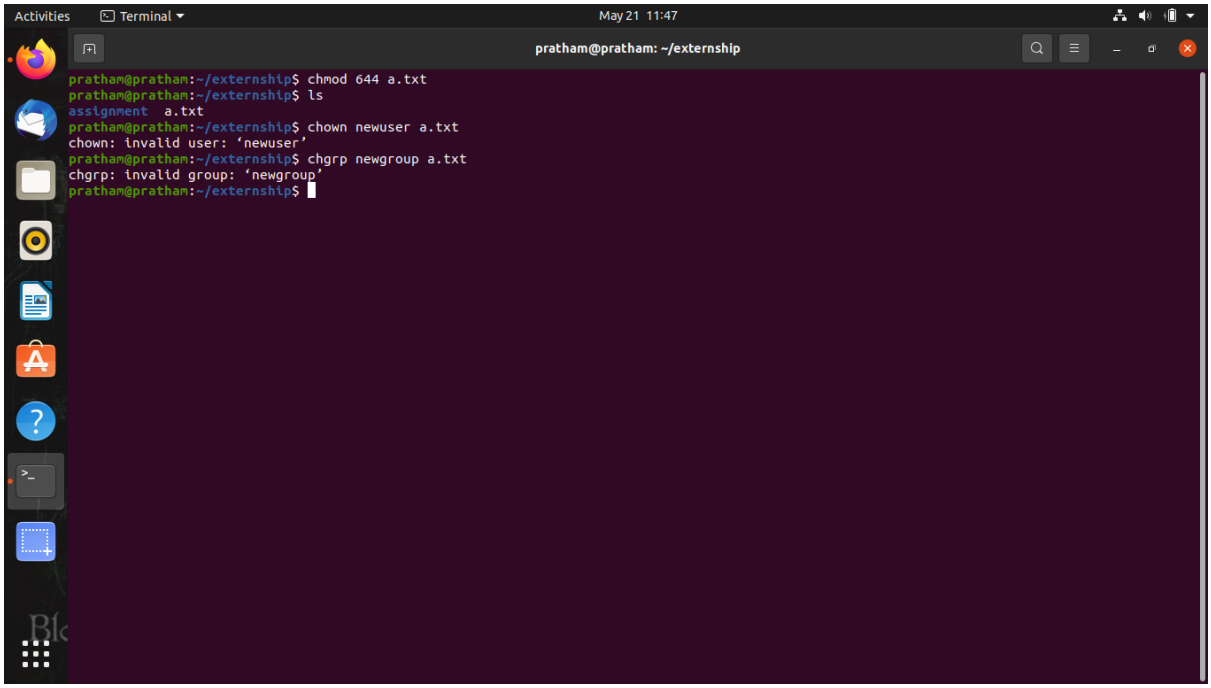



2. File Viewing and Editing:

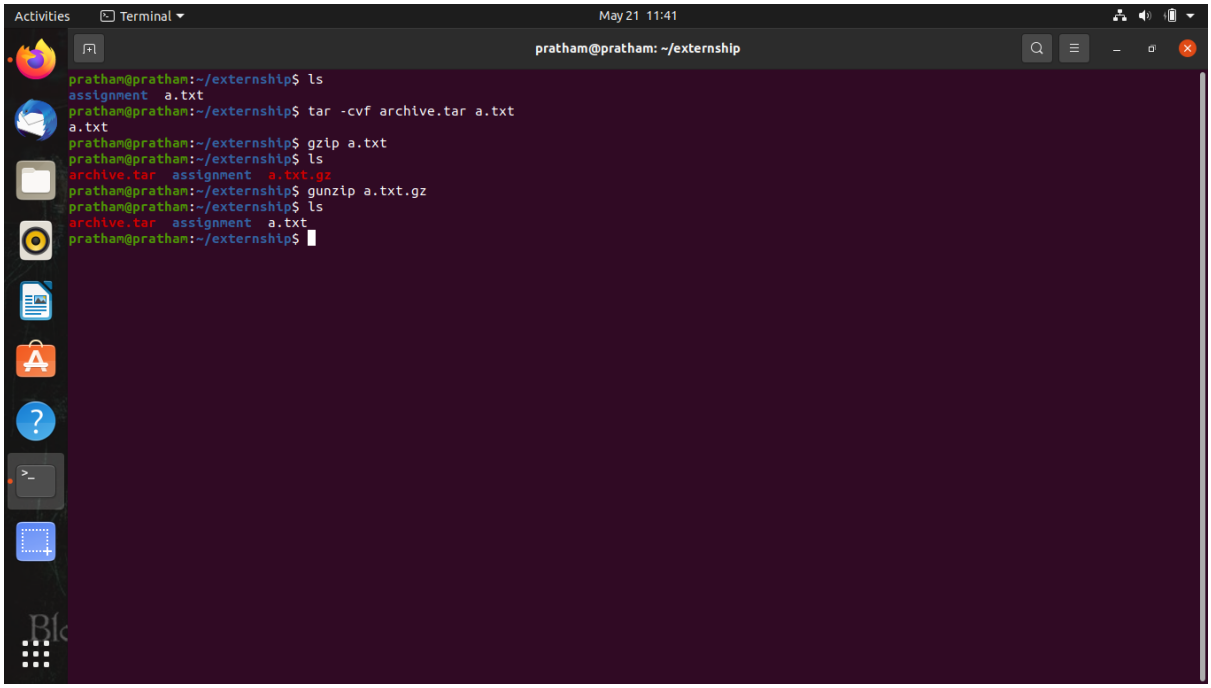


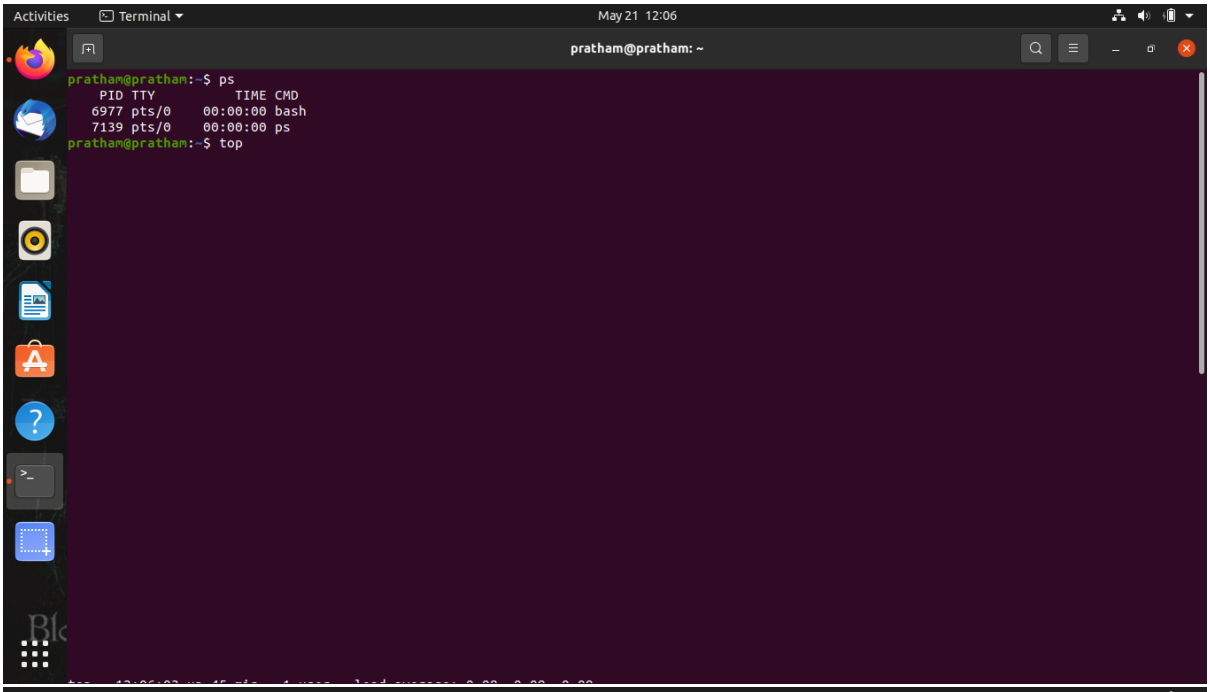

3. File Permissions:

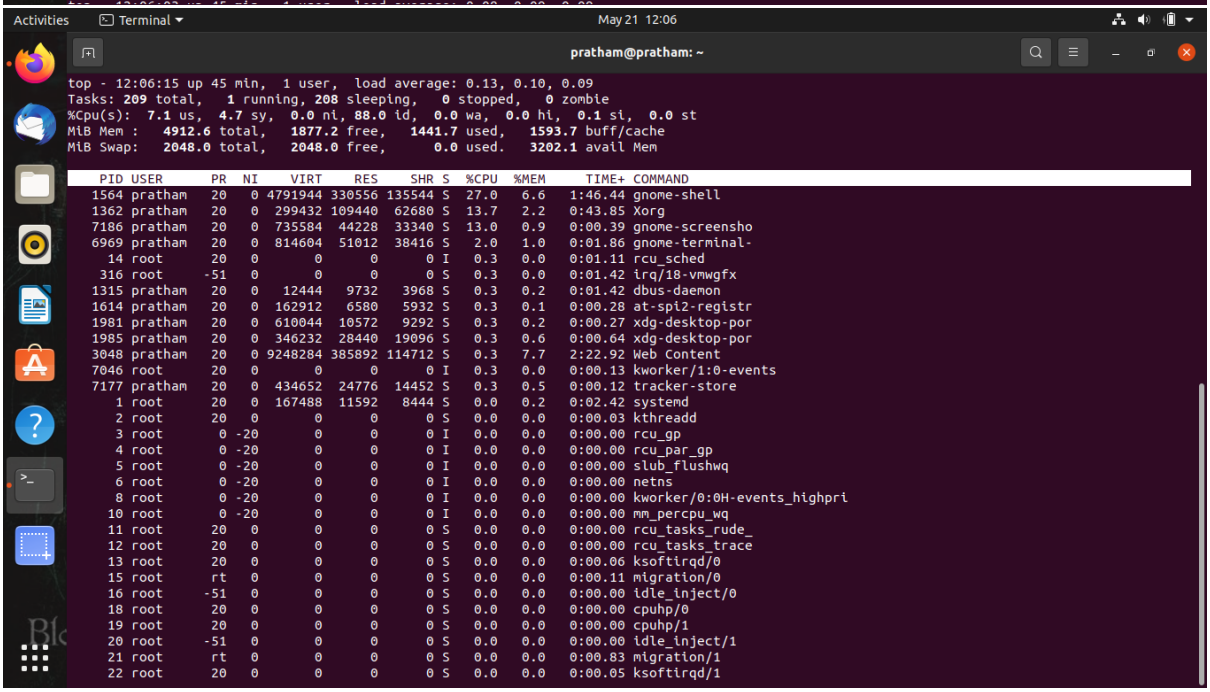


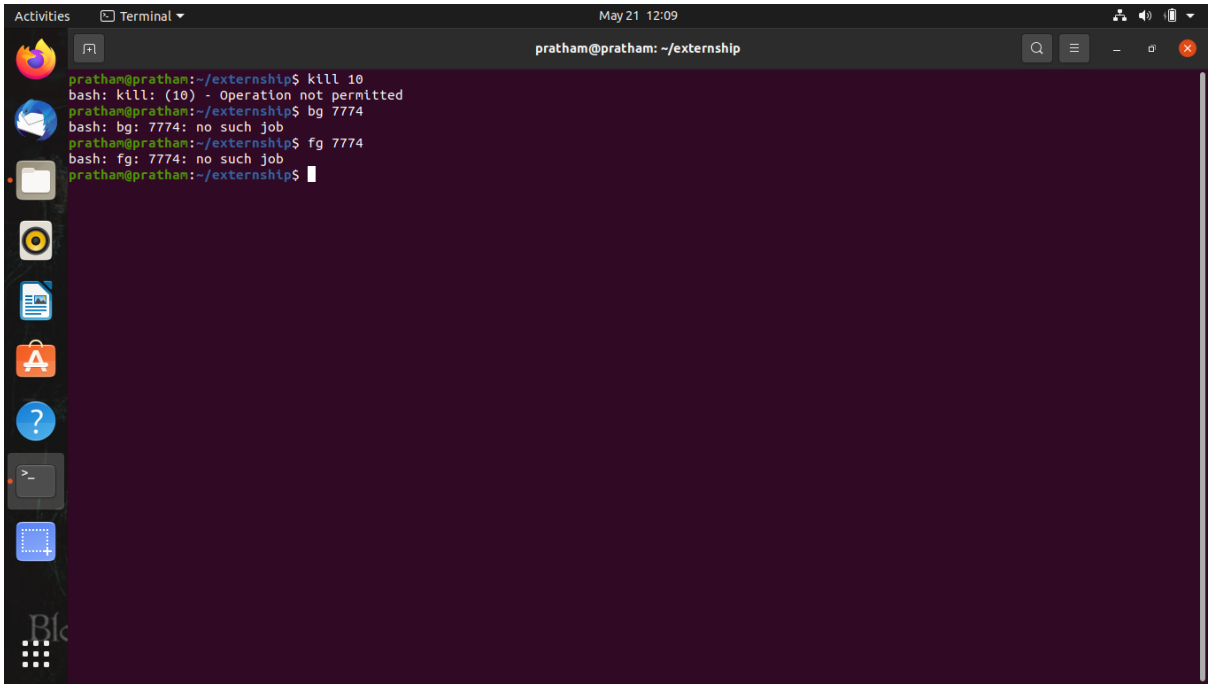

4. File Compression and Archiving:



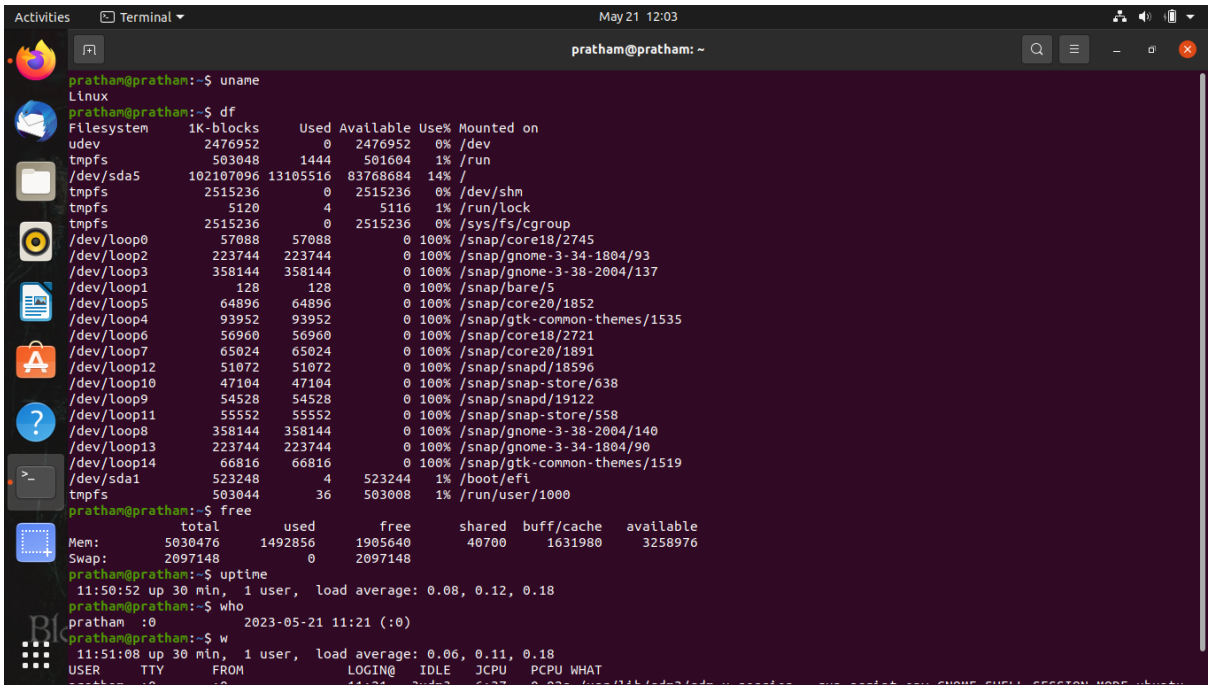

5. Process Management:


Activities
Terminal
May 21 12:06
pratham@pratham: ~
pratham@pratham:~$ ps
PID TTY TIME CMD
6977 pts/0 00:00:00 bash
7139 pts/0 00:00:00 ps
pratham@pratham:~$ top

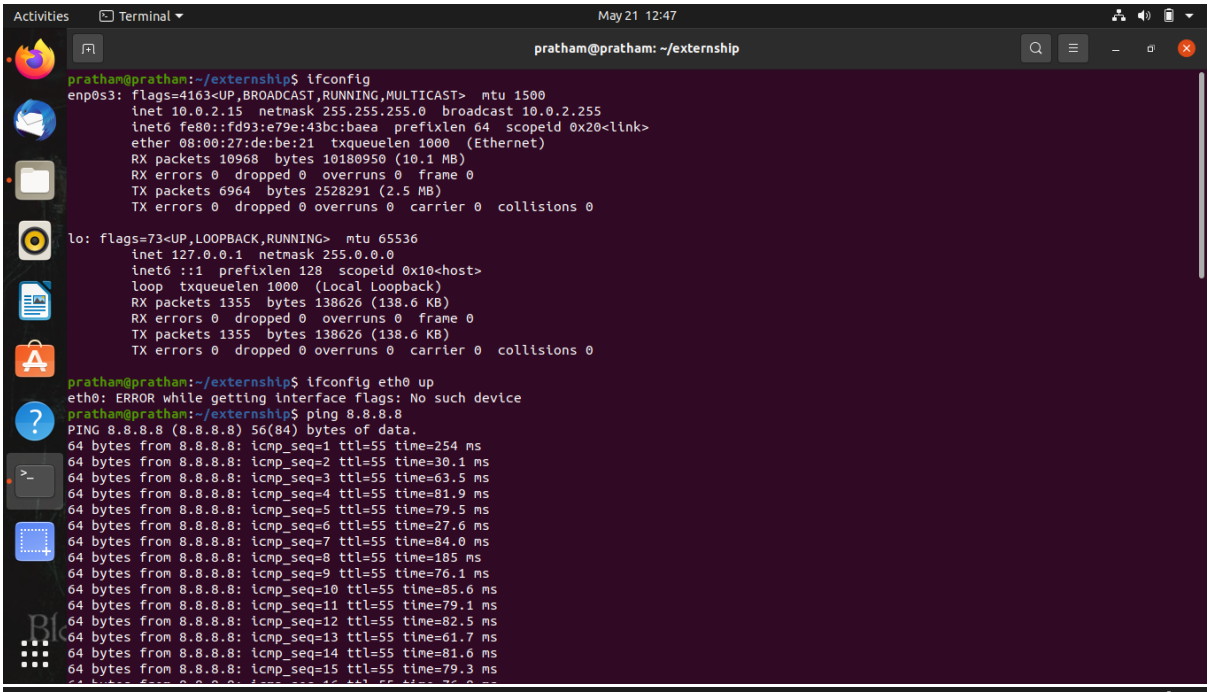

Activities
Terminal
May 21 12:06
pratham@pratham: ~
top - 12:06:15 up 45 min, 1 user, load average: 0.13, 0.10, 0.09
Tasks: 209 total, 1 running, 208 sleeping, 0 stopped, 0 zombie
%Cpu(s): 7.1 us, 4.7 sy, 0.0 ni, 88.0 id, 0.0 wa, 0.0 hi, 0.1 si, 0.0 st
MiB Mem : 4912.6 total, 1877.2 free, 1441.7 used, 1593.7 buff/cache
MiB Swap: 2048.0 total, 2048.0 free, 0.0 used. 3202.1 avail Mem
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
1564 pratham 20 0 4791944 330556 135544 S 27.0 6.6 1:46.44 gnome-shell
1362 pratham 20 0 299432 109440 62680 S 13.7 2.2 0:43.85 Xorg
7186 pratham 20 0 735584 44228 33340 S 13.0 0.9 0:00.39 gnome-screensho
6969 pratham 20 0 814604 51012 38416 S 2.0 1.0 0:01.86 gnome-terminal-
14 root 20 0 0 0 0 I 0.3 0.0 0:01.11 rcu_sched
316 root -51 0 0 0 0 S 0.3 0.0 0:01.42 irq/18-vmwgfx
1315 pratham 20 0 12444 9732 3968 S 0.3 0.2 0:01.42 dbus-daemon
1614 pratham 20 0 162912 6580 5932 S 0.3 0.1 0:00.28 at-spi2-registr
1981 pratham 20 0 610044 10572 9292 S 0.3 0.2 0:00.27 xdg-desktop-por
1985 pratham 20 0 346232 28440 19096 S 0.3 0.6 0:00.64 xdg-desktop-por
3048 pratham 20 0 9248284 385892 114712 S 0.3 7.7 2:22.92 Web Content
7046 root 20 0 0 0 0 I 0.3 0.0 0:00.13 kworker/1:0-events
7177 pratham 20 0 434652 24776 14452 S 0.3 0.5 0:00.12 tracker-store
1 root 20 0 167488 11592 8444 S 0.0 0.2 0:02.42 systemd
2 root 20 0 0 0 0 S 0.0 0.0 0:00.03 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 slub_flushwq
6 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 netns
8 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/0:0H-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 0:00.06 ksoftirqd/0
15 root rt 0 0 0 0 S 0.0 0.0 0:00.11 migration/0
16 root -51 0 0 0 0 S 0.0 0.0 0:00.00 idle_inject/0
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 0:00.83 migration/1
22 root 20 0 0 0 0 S 0.0 0.0 0:00.05 ksoftirqd/1

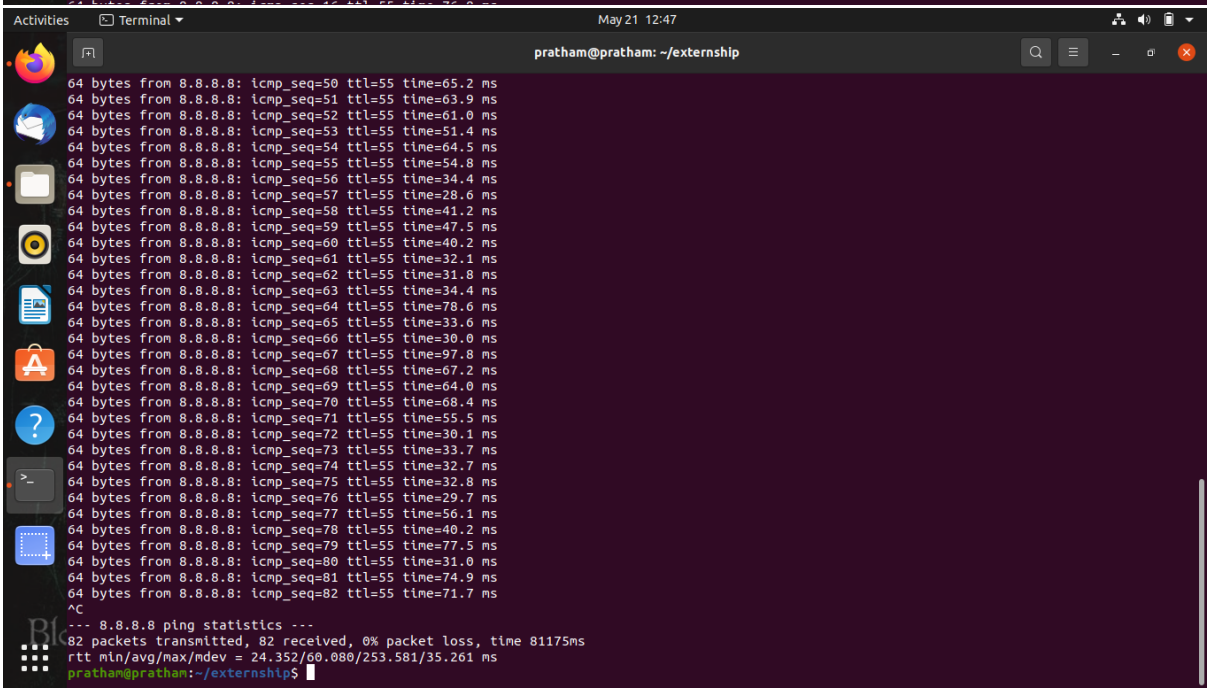


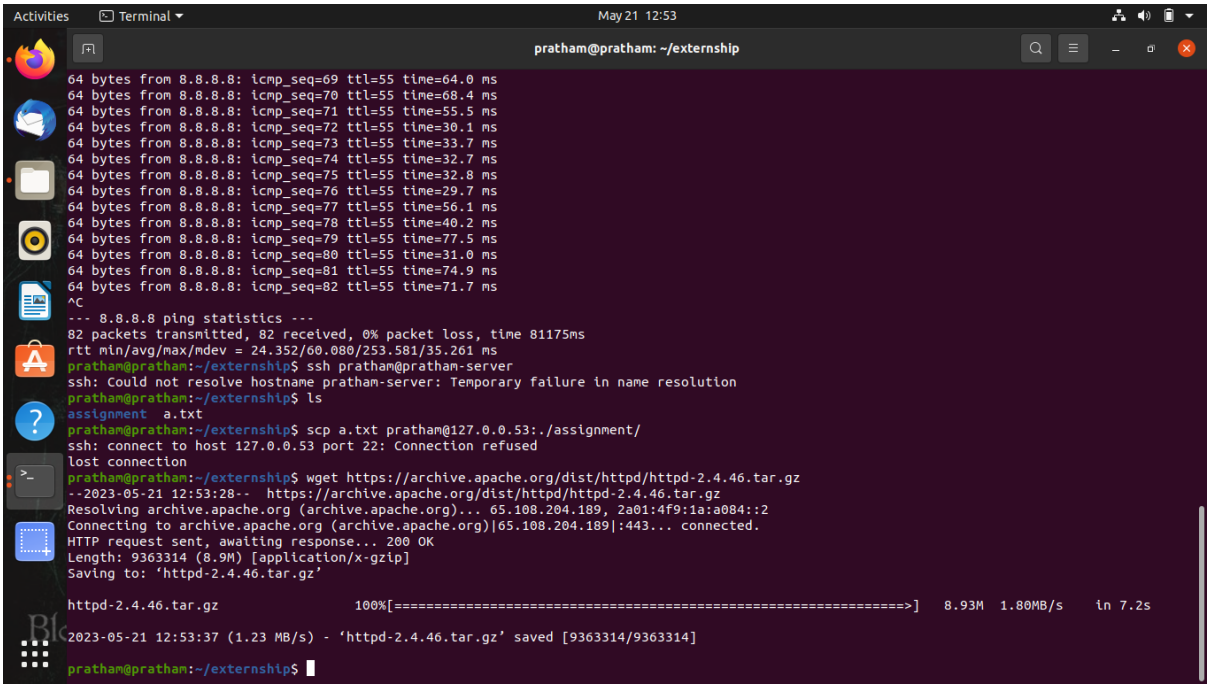

6. System Information:



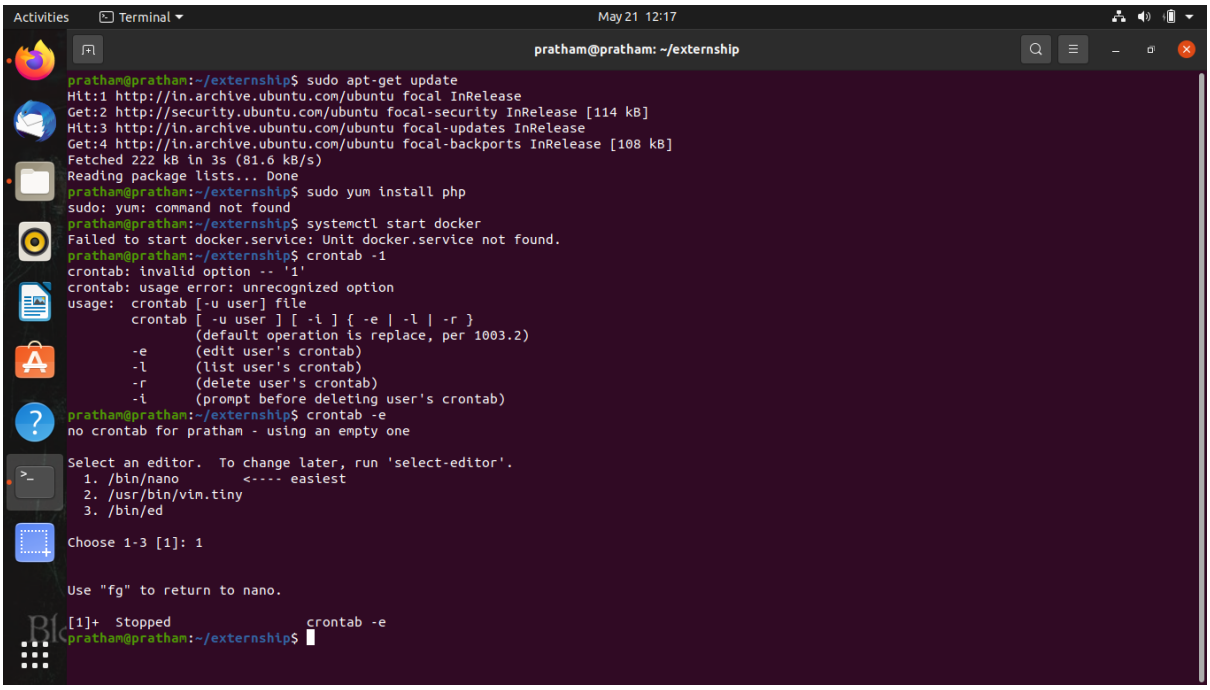

7. Networking:

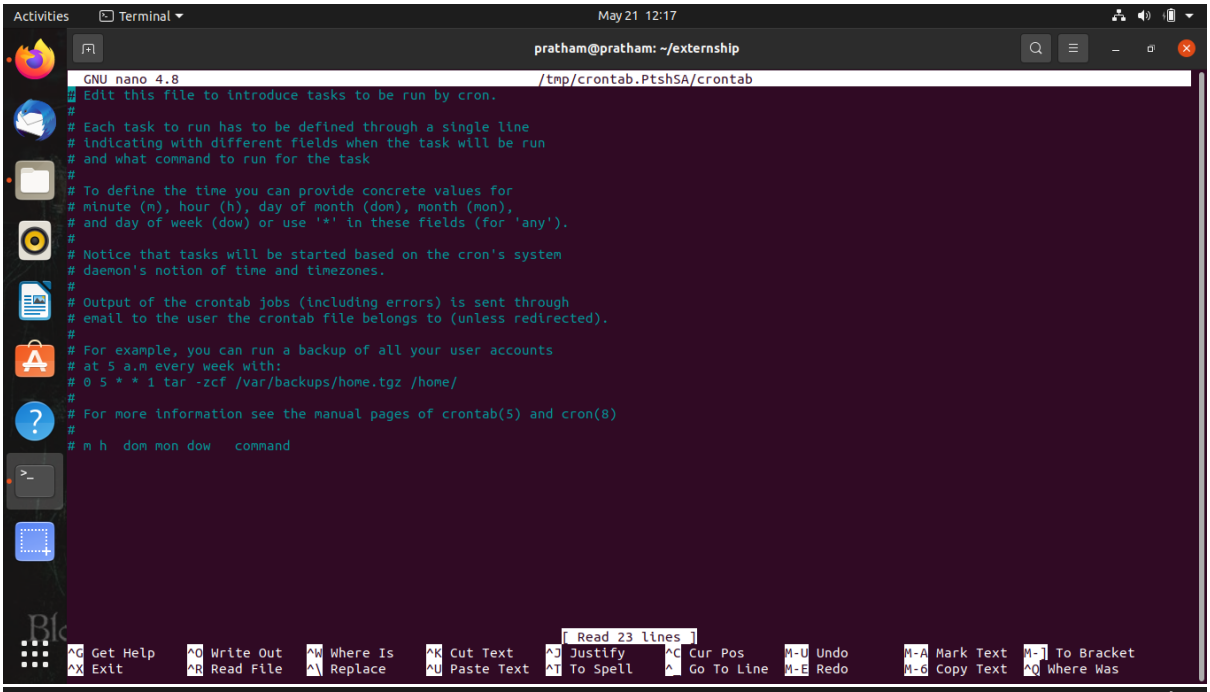

Activities
Terminal
May 21 12:47
pratham@pratham: ~/externship
pratham@pratham:~/externship$ ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
inet 10.0.2.15  netmask 255.255.255.0  broadcast 10.0.2.255
inet6 fe80::fd93:e79e:43bc:baea  prefixlen 64  scopeid 0x20<link>
ether 08:00:27:de:be:21  txqueuelen 1000  (Ethernet)
RX packets 10968  bytes 10180950 (10.1 MB)
RX errors 0  dropped 0  overruns 0  frame 0
TX packets 6964  bytes 2528291 (2.5 MB)
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 1355  bytes 138626 (138.6 KB)
RX errors 0  dropped 0  overruns 0  frame 0
TX packets 1355  bytes 138626 (138.6 KB)
TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0
pratham@pratham:~/externship$ ifconfig eth0 up
eth0: ERROR while getting interface flags: No such device
pratham@pratham:~/externship$ ping 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
64 bytes from 8.8.8.8: icmp_seq=1 ttl=55 time=254 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=55 time=30.1 ms
64 bytes from 8.8.8.8: icmp_seq=3 ttl=55 time=63.5 ms
64 bytes from 8.8.8.8: icmp_seq=4 ttl=55 time=81.9 ms
64 bytes from 8.8.8.8: icmp_seq=5 ttl=55 time=79.5 ms
64 bytes from 8.8.8.8: icmp_seq=6 ttl=55 time=27.6 ms
64 bytes from 8.8.8.8: icmp_seq=7 ttl=55 time=84.0 ms
64 bytes from 8.8.8.8: icmp_seq=8 ttl=55 time=185 ms
64 bytes from 8.8.8.8: icmp_seq=9 ttl=55 time=76.1 ms
64 bytes from 8.8.8.8: icmp_seq=10 ttl=55 time=85.6 ms
64 bytes from 8.8.8.8: icmp_seq=11 ttl=55 time=79.1 ms
64 bytes from 8.8.8.8: icmp_seq=12 ttl=55 time=82.5 ms
64 bytes from 8.8.8.8: icmp_seq=13 ttl=55 time=61.7 ms
64 bytes from 8.8.8.8: icmp_seq=14 ttl=55 time=81.6 ms
64 bytes from 8.8.8.8: icmp_seq=15 ttl=55 time=79.3 ms

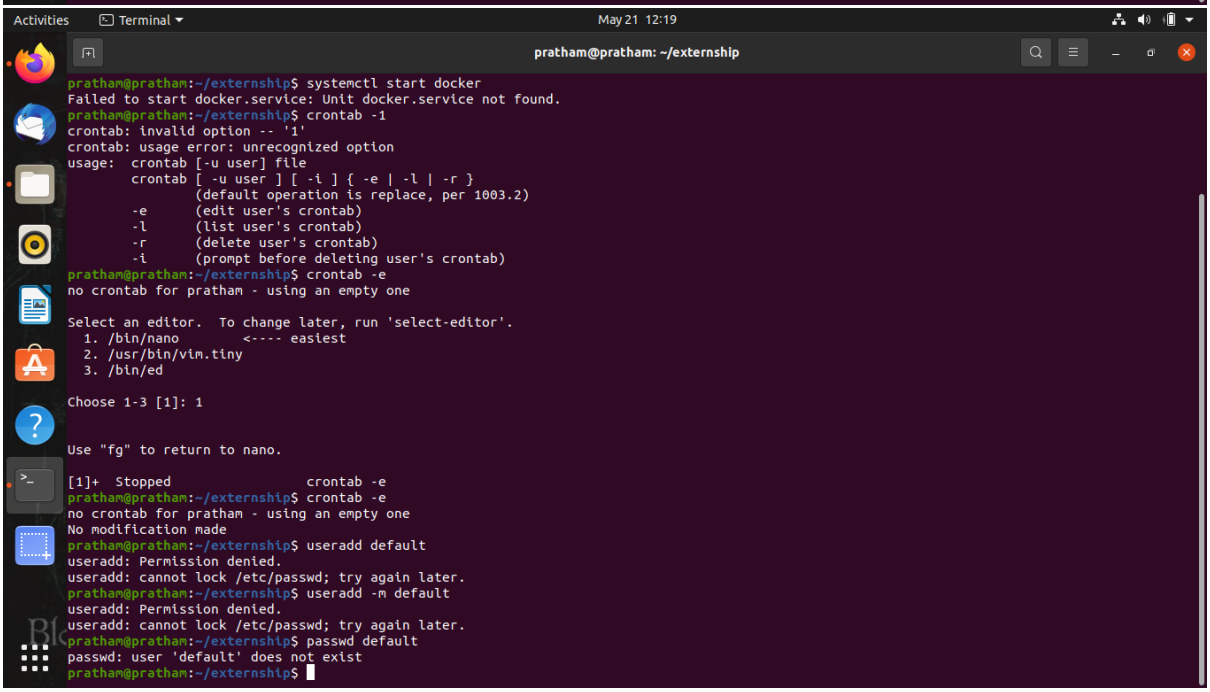

Activities
Terminal
May 21 12:47
pratham@pratham: ~/externship
64 bytes from 8.8.8.8: icmp_seq=50 ttl=55 time=65.2 ms
64 bytes from 8.8.8.8: icmp_seq=51 ttl=55 time=63.9 ms
64 bytes from 8.8.8.8: icmp_seq=52 ttl=55 time=61.0 ms
64 bytes from 8.8.8.8: icmp_seq=53 ttl=55 time=51.4 ms
64 bytes from 8.8.8.8: icmp_seq=54 ttl=55 time=64.5 ms
64 bytes from 8.8.8.8: icmp_seq=55 ttl=55 time=54.8 ms
64 bytes from 8.8.8.8: icmp_seq=56 ttl=55 time=34.4 ms
64 bytes from 8.8.8.8: icmp_seq=57 ttl=55 time=28.6 ms
64 bytes from 8.8.8.8: icmp_seq=58 ttl=55 time=41.2 ms
64 bytes from 8.8.8.8: icmp_seq=59 ttl=55 time=47.5 ms
64 bytes from 8.8.8.8: icmp_seq=60 ttl=55 time=40.2 ms
64 bytes from 8.8.8.8: icmp_seq=61 ttl=55 time=32.1 ms
64 bytes from 8.8.8.8: icmp_seq=62 ttl=55 time=31.8 ms
64 bytes from 8.8.8.8: icmp_seq=63 ttl=55 time=34.4 ms
64 bytes from 8.8.8.8: icmp_seq=64 ttl=55 time=78.6 ms
64 bytes from 8.8.8.8: icmp_seq=65 ttl=55 time=33.6 ms
64 bytes from 8.8.8.8: icmp_seq=66 ttl=55 time=30.0 ms
64 bytes from 8.8.8.8: icmp_seq=67 ttl=55 time=97.8 ms
64 bytes from 8.8.8.8: icmp_seq=68 ttl=55 time=67.2 ms
64 bytes from 8.8.8.8: icmp_seq=69 ttl=55 time=64.0 ms
64 bytes from 8.8.8.8: icmp_seq=70 ttl=55 time=68.4 ms
64 bytes from 8.8.8.8: icmp_seq=71 ttl=55 time=55.5 ms
64 bytes from 8.8.8.8: icmp_seq=72 ttl=55 time=30.1 ms
64 bytes from 8.8.8.8: icmp_seq=73 ttl=55 time=33.7 ms
64 bytes from 8.8.8.8: icmp_seq=74 ttl=55 time=32.7 ms
64 bytes from 8.8.8.8: icmp_seq=75 ttl=55 time=32.8 ms
64 bytes from 8.8.8.8: icmp_seq=76 ttl=55 time=29.7 ms
64 bytes from 8.8.8.8: icmp_seq=77 ttl=55 time=56.1 ms
64 bytes from 8.8.8.8: icmp_seq=78 ttl=55 time=40.2 ms
64 bytes from 8.8.8.8: icmp_seq=79 ttl=55 time=77.5 ms
64 bytes from 8.8.8.8: icmp_seq=80 ttl=55 time=31.0 ms
64 bytes from 8.8.8.8: icmp_seq=81 ttl=55 time=74.9 ms
64 bytes from 8.8.8.8: icmp_seq=82 ttl=55 time=71.7 ms
^C
--- 8.8.8.8 ping statistics ---
82 packets transmitted, 82 received, 0% packet loss, time 81175ms
rtt min/avg/max/mdev = 24.352/60.080/253.581/35.261 ms
pratham@pratham:~/externship$




8. System Administration:




Activities
Terminal
May 21 12:17
pratham@pratham: ~/externship
GNU nano 4.8 /tmp/crontab.PtshSA/crontab
# Edit this file to introduce tasks to be run by cron.
# Each task to run has to be defined through a single line
# indicating with different fields when the task will be run
# and what command to run for the task
# To define the time you can provide concrete values for
# minute (m), hour (h), day of month (dom), month (mon),
# and day of week (dow) or use '*' in these fields (for 'any').
# Notice that tasks will be started based on the cron's system
# daemon's notion of time and timezones.
# Output of the crontab jobs (including errors) is sent through
# email to the user the crontab file belongs to (unless redirected).
# For example, you can run a backup of all your user accounts
# at 5 a.m every week with:
# 0 5 * * 1 tar -zcf /var/backups/home.tgz /home/
# For more information see the manual pages of crontab(5) and cron(8)
# m h dom mon dow command
[ Read 23 lines ]
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos M-U Undo M-A Mark Text M-] To Bracket
^X Exit ^R Read File ^\ Replace ^U Paste Text ^T To Spell ^_ Go To Line M-E Redo M-6 Copy Text ^Q Where Was


Activities
Terminal
May 21 12:19
pratham@pratham: ~/externship
pratham@pratham:~/externship$ systemctl start docker
Failed to start docker.service: Unit docker.service not found.
pratham@pratham:~/externship$ crontab -1
crontab: invalid option -- '1'
crontab: usage error: unrecognized option
usage: crontab [-u user] file
crontab [ -u user ] [ -i ] { -e | -l | -r }
(default operation is replace, per 1003.2)
-e (edit user's crontab)
-l (list user's crontab)
-r (delete user's crontab)
-i (prompt before deleting user's crontab)
pratham@pratham:~/externship$ crontab -e
no crontab for pratham - 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
Use "fg" to return to nano.
[1]+ Stopped crontab -e
pratham@pratham:~/externship$ crontab -e
no crontab for pratham - using an empty one
No modification made
pratham@pratham:~/externship$ useradd default
useradd: Permission denied.
useradd: cannot lock /etc/passwd; try again later.
pratham@pratham:~/externship$ useradd -m default
useradd: Permission denied.
useradd: cannot lock /etc/passwd; try again later.
pratham@pratham:~/externship$ passwd default
passwd: user 'default' does not exist
pratham@pratham:~/externship$