

Jun 30 10:34

```
rvu@rvu-OptiPlex-SFF-7020: $ mkdir -p 0061/Exam
rvu@rvu-OptiPlex-SFF-7020: $ cd 0061/Exam
rvu@rvu-OptiPlex-SFF-7020:~/0061/Exam$ pwd
/home/rvu/0061/Exam
rvu@rvu-OptiPlex-SFF-7020:~/0061/Exam$ touch notes.txt
rvu@rvu-OptiPlex-SFF-7020:~/0061/Exam$ ls -l /etc/passwd
-rw-r--r-- 1 root root 2855 May 14 09:38 /etc/passwd
rvu@rvu-OptiPlex-SFF-7020:~/0061/Exam$ cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin.sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
_apt:x:42:65534::/nonexistent:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:998:998:systemd Network Management:/:/usr/sbin/nologin
systemd-timesync:x:996:996:systemd Time Synchronization:/:/usr/sbin/nologin
dhcpcd:x:100:65534:DHCP Client Daemon,,,:/usr/lib/dhcpcd:/bin/false
messagebus:x:101:101::/nonexistent:/usr/sbin/nologin
syslog:x:102:102::/nonexistent:/usr/sbin/nologin
systemd-resolve:x:991:991:systemd Resolver:/:/usr/sbin/nologin
uuidd:x:103:103::/run/uuidd:/usr/sbin/nologin
usbmux:x:104:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
tss:x:105:105:TPM software stack,,,:/var/lib/tpm:/bin/false
systemd-oom:x:990:990:systemd Userspace OOM Killer:/:/usr/sbin/nologin
kernoops:x:106:65534:Kernel Oops Tracking Daemon,,,:/usr/sbin/nologin
```

rvu@rvu-OptiPlex-SFF-7020:~

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/U:x:1000:1000:RVU:/home/rvu:/bin/bash

rvu@rvu-OptiPlex-SFF-7020:~

rvu@rvu-OptiPlex-SFF-7020:~\$ man cat
rvu@rvu-OptiPlex-SFF-7020:~\$ top

top - 10:11:29 up 3 min, 1 user, load average: 0.14, 0.14, 0.06
 tasks: 387 total, 1 running, 386 sleeping, 0 stopped, 0 zombie
 Cpu(s): 0.1 us, 0.2 sy, 0.0 ni, 99.7 id, 0.0 wa, 0.0 hi, 0.1 si, 0.0 st
 iB Mem : 15676.3 total, 13607.3 free, 1430.2 used, 1134.6 buff/cache
 iB Swap: 4096.0 total, 4096.0 free, 0.0 used. 14246.2 avail Mem

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+ COMMAND
857	root	-51	0	0	0	0	S	4.0	0.0	0:07.54 irq/172-rtw89_pci
999	avahi	20	0	10240	5328	3728	S	1.3	0.0	0:03.07 avahi-daemon
17	root	20	0	0	0	0	I	0.3	0.0	0:00.53 rcu_preempt
1270	root	20	0	336748	18120	15560	S	0.3	0.1	0:01.25 NetworkManager
3220	rvu	20	0	557824	55656	44984	S	0.3	0.3	0:01.16 gnome-terminal-
3426	rvu	20	0	14528	5904	3664	R	0.3	0.0	0:00.02 top
1	root	20	0	23608	13892	9092	S	0.0	0.1	0:01.55 systemd
2	root	20	0	0	0	0	S	0.0	0.0	0:00.00 kthreadd
3	root	20	0	0	0	0	S	0.0	0.0	0:00.00 pool_workqueue_release
4	root	0	-20	0	0	0	I	0.0	0.0	0:00.00 kworker/R-rcu_gp
5	root	0	-20	0	0	0	I	0.0	0.0	0:00.00 kworker/R-sync_wq
6	root	0	-20	0	0	0	I	0.0	0.0	0:00.00 kworker/R-slub_flushwq
7	root	0	-20	0	0	0	I	0.0	0.0	0:00.00 kworker/R-netns
8	root	20	0	0	0	0	I	0.0	0.0	0:00.00 kworker/0:0-events
9	root	0	-20	0	0	0	I	0.0	0.0	0:00.00 kworker/0:0H-events_highpri
10	root	20	0	0	0	0	I	0.0	0.0	0:00.07 kworker/u80:0-events_unbound
11	root	20	0	0	0	0	I	0.0	0.0	0:00.00 kworker/R-mm_percpu_wq
12	root	0	-20	0	0	0	I	0.0	0.0	0:00.00 rcu_tasks_kthread
13	root	20	0	0	0	0	I	0.0	0.0	0:00.00 rcu_tasks_rude_kthread
14	root	20	0	0	0	0	I	0.0	0.0	0:00.00 rcu_tasks_trace_kthread
15	root	20	0	0	0	0	S	0.0	0.0	0:00.00 ksoftirqd/0
16	root	20	0	0	0	0	S	0.0	0.0	0:00.00 rcu_exp_par_gp_kthread_worker/1
18	root	20	0	0	0	0	S	0.0	0.0	0:00.00 rcu_exp_gp_kthread_worker
19	root	20	0	0	0	0	S	0.0	0.0	0:00.00 migration/0
20	root	rt	0	0	0	0	S	0.0	0.0	0:00.00 idle_inject/0
21	root	-51	0	0	0	0	S	0.0	0.0	0:00.00



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rvu@rvu-OptiPlex-SFF-7020: ~

25 root rt 0 0 0 0 S 0.0 0.0 0:00.08 migration/2
rvu@rvu-OptiPlex-SFF-7020: ~\$ ps -aux
USER PID %CPU %MEM VSZ RSS TTY STAT START TIME COMMAND
root 1 0.6 0.0 23608 13892 ? Ss 10:07 0:01 /sbin/init splash
root 2 0.0 0.0 0 0 ? S 10:07 0:00 [kthreadd]
root 3 0.0 0.0 0 0 ? S 10:07 0:00 [pool_workqueue_release]
root 4 0.0 0.0 0 0 ? I< 10:07 0:00 [kworker/R-rcu_gp]
root 5 0.0 0.0 0 0 ? I< 10:07 0:00 [kworker/R-sync_wq]
root 6 0.0 0.0 0 0 ? I< 10:07 0:00 [kworker/R-slub_flushwq]
root 7 0.0 0.0 0 0 ? I< 10:07 0:00 [kworker/R-netns]
root 8 0.0 0.0 0 0 ? I 10:07 0:00 [kworker/0:0-events]
root 9 0.0 0.0 0 0 ? I< 10:07 0:00 [kworker/0:0H-events_highpri]
root 10 0.0 0.0 0 0 ? I 10:07 0:00 [kworker/0:1-events]
root 11 0.0 0.0 0 0 ? I 10:07 0:00 [kworker/u80:0-events_unbound]
root 12 0.0 0.0 0 0 ? I< 10:07 0:00 [kworker/R-mm_percpu_wq]
root 13 0.0 0.0 0 0 ? I 10:07 0:00 [rcu_tasks_kthread]
root 14 0.0 0.0 0 0 ? I 10:07 0:00 [rcu_tasks_rude_kthread]
root 15 0.0 0.0 0 0 ? I 10:07 0:00 [rcu_tasks_trace_kthread]
root 16 0.0 0.0 0 0 ? S 10:07 0:00 [ksoftirqd/0]
root 17 0.2 0.0 0 0 ? I 10:07 0:00 [rcu_preempt]
root 18 0.0 0.0 0 0 ? S 10:07 0:00 [rcu_exp_par_gp_kthread_worker/1]
root 19 0.0 0.0 0 0 ? S 10:07 0:00 [rcu_exp_gp_kthread_worker]
root 20 0.0 0.0 0 0 ? S 10:07 0:00 [migration/0]
root 21 0.0 0.0 0 0 ? S 10:07 0:00 [idle_inject/0]
root 22 0.0 0.0 0 0 ? S 10:07 0:00 [cpuhp/0]
root 23 0.0 0.0 0 0 ? S 10:07 0:00 [cpuhp/2]
root 24 0.0 0.0 0 0 ? S 10:07 0:00 [idle_inject/2]
root 25 0.0 0.0 0 0 ? S 10:07 0:00 [migration/2]
root 26 0.0 0.0 0 0 ? S 10:07 0:00 [ksoftirqd/2]
root 27 0.0 0.0 0 0 ? I 10:07 0:00 [kworker/2:0-cgroup_bpf_destroy]
root 28 0.0 0.0 0 0 ? I< 10:07 0:00 [kworker/2:0H-events_highpri]
root 29 0.0 0.0 0 0 ? S 10:07 0:00 [cpuhp/4]
root 30 0.0 0.0 0 0 ? S 10:07 0:00 [idle_inject/4]
root 31 0.0 0.0 0 0 ? S 10:07 0:00 [migration/4]
root 32 0.0 0.0 0 0 ? S 10:07 0:00 [ksoftirqd/4]
root 33 0.0 0.0 0 0 ? I 10:07 0:00 [kworker/4:0-rcu_gp]
root 34 0.0 0.0 0 0 ? I< 10:07 0:00 [kworker/4:0H-events_highpri]

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rvu@rvu-OptiPlex-SFF-7020: ~

```
rvu      3327  0.0  0.1 568252 29644 ?          Sl   10:08  0:00 /usr/bin/update-notifier
rvu      3427  0.0  0.0 15104  5572 pts/0    R+  10:11  0:00 ps -aux
rvu@rvu-OptiPlex-SFF-7020: ~$ cd
rvu@rvu-OptiPlex-SFF-7020: ~$ mount /dev/sdb1 /mnt
mount: /mnt: must be superuser to use mount.
dmesg(1) may have more information after failed mount system call.
rvu@rvu-OptiPlex-SFF-7020: ~$ mount /dev/sdb1 /media
mount: /media: must be superuser to use mount.
dmesg(1) may have more information after failed mount system call.
rvu@rvu-OptiPlex-SFF-7020: ~$ cd
rvu@rvu-OptiPlex-SFF-7020: ~$ mount /dev/sdb1 /mnt
mount: /mnt: must be superuser to use mount.
dmesg(1) may have more information after failed mount system call.
rvu@rvu-OptiPlex-SFF-7020: ~$ sudo mount /dev/sdb1 /mnt
[sudo] password for rvu:
mount: /mnt: special device /dev/sdb1 does not exist.                                I
dmesg(1) may have more information after failed mount system call.
rvu@rvu-OptiPlex-SFF-7020: ~$ man mount
rvu@rvu-OptiPlex-SFF-7020: ~$ vim notes.txt
rvu@rvu-OptiPlex-SFF-7020: ~$ tar -czvf backup.tar.gz ~/0061/Exam/notes.txt
tar: Removing leading '/' from member names
/hone/rvu/0061/Exam/notes.txt
rvu@rvu-OptiPlex-SFF-7020: ~$ cd 0061/Exam
rvu@rvu-OptiPlex-SFF-7020: ~/0061/Exam$ ls
notes.txt
rvu@rvu-OptiPlex-SFF-7020: ~/0061/Exam$ cd 0061/Exam/notes.txt
bash: cd: 0061/Exam/notes.txt: No such file or directory
rvu@rvu-OptiPlex-SFF-7020: ~/0061/Exam$ cd
rvu@rvu-OptiPlex-SFF-7020: ~$ ls
0061  backup.tar  Desktop  Documnets  DSEXAM.c  Music  notes.txt  organized.sh.save  Public  Templates  Videos
0061  backup.tar.gz  Documents  Downloads  folder1  nano.6835.save  organized  Pictures  snap  v
rvu@rvu-OptiPlex-SFF-7020: ~$ vim shell.sh
rvu@rvu-OptiPlex-SFF-7020: ~$ chmod +x shell.sh
rvu@rvu-OptiPlex-SFF-7020: ~$ ./shell.sh
rvu@rvu-OptiPlex-SFF-7020: ~$ ls -ld
drwxr-x--- 23 rvu rvu 4096 Jun 30 10:21 .
```

DELL


```

nvme0n1p6 259:6      0  150G  0 part /
rvu@rvu-OptiPlex-SFF-7020: $ lsblk
E          MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
p0          7:0    0 316.8M  1 loop /snap/code/191
p1          7:1    0     4K  1 loop /snap/bare/5
p2          7:2    0 322.8M  1 loop /snap/code/197
p3          7:3    0   63.8M  1 loop /snap/core20/2571
p4          7:4    0   63.8M  1 loop /snap/core20/2599
p5          7:5    0   73.9M  1 loop /snap/core22/1963
p6          7:6    0   73.9M  1 loop /snap/core22/2010
p7          7:7    0   66.8M  1 loop /snap/core24/1006
p8          7:8    0   66.8M  1 loop /snap/core24/888
p9          7:9    0   242M  1 loop /snap/firefox/6042
p10         7:10   0 242.4M  1 loop /snap/firefox/5987
p11         7:11   0   11.1M  1 loop /snap/firmware-updater/167
p12         7:12   0   11.1M  1 loop /snap/firmware-updater/147
p13         7:13   0 505.1M  1 loop /snap/gnome-42-2204/176
Loop14        7:14   0   516M  1 loop /snap/gnome-42-2204/202
loop15        7:15   0   91.7M  1 loop /snap/gtk-common-themes/1535
loop16        7:16   0 467.3M  1 loop /snap/python3-alt/9
loop17        7:17   0   10.8M  1 loop /snap/snap-store/1248
loop18        7:18   0   10.8M  1 loop /snap/snap-store/1270
loop19        7:19   0   50.9M  1 loop /snap/snapd/24505
loop20        7:20   0   50.9M  1 loop /snap/snapd/24718
loop21        7:21   0   500K  1 loop /snap/snapd-desktop-integration/178
loop22        7:22   0   568K  1 loop /snap/snapd-desktop-integration/253
sda           8:0    1  28.9G  0 disk
└─sda1        8:1    1  28.9G  0 part /media/rvu/HP x796w
nvme0n1      259:0   0 953.9G  0 disk
└─nvme0n1p1  259:1   0   300M  0 part /boot/efi
└─nvme0n1p2  259:2   0   128M  0 part
└─nvme0n1p3  259:3   0   801G  0 part
└─nvme0n1p4  259:4   0   990M  0 part
└─nvme0n1p5  259:5   0   1.5G  0 part
└─nvme0n1p6  259:6   0   150G  0 part /

```

rvu@rvu-OptiPlex-SFF-7020:~\$ sudo mount /dev/sda1/ /mnt
 mount: /mnt: special device /dev/sda1/ does not exist (a path prefix is not a directory).

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```
loop5      7:5    0  73.9M  1 loop  /snap/core22/1963
loop6      7:6    0  73.9M  1 loop  /snap/core22/2010
loop7      7:7    0  66.8M  1 loop  /snap/core24/1006
loop8      7:8    0  66.8M  1 loop  /snap/core24/888
loop9      7:9    0   242M  1 loop  /snap/firefox/6042
loop10     7:10   0 242.4M  1 loop  /snap/firefox/5987
loop11     7:11   0  11.1M  1 loop  /snap/firmware-updater/167
loop12     7:12   0  11.1M  1 loop  /snap/firmware-updater/147
loop13     7:13   0 505.1M  1 loop  /snap/gnome-42-2204/176
loop14     7:14   0   516M  1 loop  /snap/gnome-42-2204/202
loop15     7:15   0  91.7M  1 loop  /snap/gtk-common-themes/1535
loop16     7:16   0 467.3M  1 loop  /snap/python3-alt/9
loop17     7:17   0  10.8M  1 loop  /snap/snap-store/1248
loop18     7:18   0  10.8M  1 loop  /snap/snap-store/1270
loop19     7:19   0  50.9M  1 loop  /snap/snapd/24505
loop20     7:20   0  50.9M  1 loop  /snap/snapd/24718
loop21     7:21   0   500K  1 loop  /snap/snapd-desktop-integration/178
loop22     7:22   0   568K  1 loop  /snap/snapd-desktop-integration/253
sda        8:0    1  28.9G  0 disk
└─sda1     8:1    1  28.9G  0 part /media/rvu/HP x796w
nvme0n1   259:0  0 953.9G  0 disk
├─nvme0n1p1 259:1  0   300M  0 part /boot/efi
├─nvme0n1p2 259:2  0   128M  0 part
├─nvme0n1p3 259:3  0   801G  0 part
├─nvme0n1p4 259:4  0   990M  0 part
├─nvme0n1p5 259:5  0   1.5G  0 part
└─nvme0n1p6 259:6  0   150G  0 part /
rvu@rvu-OptiPlex-SFF-7020:~$ sudo mount /dev/sda1/ /mnt
mount: /mnt: special device /dev/sda1/ does not exist (a path prefix is not a directory).
      dmesg(1) may have more information after failed mount system call.
rvu@rvu-OptiPlex-SFF-7020:~$ cd /
rvu@rvu-OptiPlex-SFF-7020:/$ sudo mount /dev/sda1/ /mnt
mount: /mnt: special device /dev/sda1/ does not exist (a path prefix is not a directory).
      dmesg(1) may have more information after failed mount system call.
rvu@rvu-OptiPlex-SFF-7020:/$ cd
rvu@rvu-OptiPlex-SFF-7020:~$ vim shell.sh
rvu@rvu-OptiPlex-SFF-7020:~$
```

DELL

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rvu@rvu-OptiPlex-SFF-7020: ~

```
#!/bin/bash
#shell script
cd
touch file1.txt file2.txt file3.txt
cat file1.txt
cat file2.txt
cat file3.txt
chmod 444 file1.txt
chmod 444 file2.txt
chmod 444 file3.txt
```

"shell.sh" 11L, 168B

