

NAME: SANA TARIQ

CLASS: BSE 5B

REG.NO: 058

SUBJECT: CLOUD COMPUTING

LAB#06

TASK#01:

```
sana058@sana1:~$ sudo passwd root
[sudo] password for sana058:
New password:
Retype new password:
passwd: password updated successfully
sana058@sana1:~$ su -
Password:
root@sana1:~# whoami
root
root@sana1:~# id
uid=0(root) gid=0(root) groups=0(root)
root@sana1:~# exit
logout
sana058@sana1:~$ whoami
sana058
sana058@sana1:~$
```

TASK#02:

```
sana058@sana1:~$ sudo adduser tom
# follow prompts to set# follow prompts to set password/home info
info: Adding user `tom' ...
info: Selecting UID/GID from range 1000 to 59999 ...
info: Adding new group `tom' (1001) ...
info: Adding new user `tom' (1001) with group `tom (1001)' ...
info: Creating home directory `/home/tom' ...
info: Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for tom
Enter the new value, or press ENTER for the default
    Full Name []: tom welling
    Room Number []: 97
    Work Phone []: 2345
    Home Phone []: 6789
    Other []: 0000
Is the information correct? [Y/n] y_
```

```
cups-browsed:x:118:111::/nonexistent:/usr/sbin/nologin
xrdp:x:119:124::/run/xrdp:/usr/sbin/nologin
tom:x:1001:1001:tom welling,97,2345,6789,0000:/home/tom:/bin/bash
sana058@sana1:~$
```

```
caps: brдовснц:..20385.....  
xrdp:!:20385:::::  
tom:$y$j9T$/qP005L.MpW5BoOS01l0s1$QR/epwYfmbZgo5pyQqXuyhHx82HCKmVQ2EuRalXbtG6:20393:0:99999:7:::  
sana058@sana1:~$ _
```

TASK#03:

```
sana058@sana1:~$ sudo groupadd developer  
sana058@sana1:~$ sudo groupadd devops  
sana058@sana1:~$ sudo groupadd designer  
sana058@sana1:~$ cat /etc/group
```

```
DOCKER:x:500:  
tom:x:1001:  
developer:x:1002:  
devops:x:1003:  
designer:x:1004:  
sana058@sana1:~$ _
```

```
sana058@sana1:~$ sudo usermod -g designer tom  
sana058@sana1:~$ id tom  
uid=1001(tom) gid=1004(designer) groups=1004(designer),100(users)  
sana058@sana1:~$ _
```

```
sana058@sana1:~$ sudo usermod -aG developer,devops tom  
sana058@sana1:~$ id tom  
uid=1001(tom) gid=1004(designer) groups=1004(designer),100(users),1002(developer),1003(devops)  
sana058@sana1:~$ groups tom  
tom : designer users developer devops  
sana058@sana1:~$ _
```

```
tom : designer users developer devops  
sana058@sana1:~$ sudo usermod -G tom tom  
sana058@sana1:~$ id tom  
uid=1001(tom) gid=1004(designer) groups=1004(designer),1001(tom)  
sana058@sana1:~$ groups tom  
tom : designer tom
```

TASK#04:

```
sana058@sana1:~$ sudo adduser jerry  
info: Adding user `jerry' ...  
info: Selecting UID/GID from range 1000 to 59999 ...  
info: Adding new group `jerry' (1005) ...  
info: Adding new user `jerry' (1005) with group `jerry (1005)' ...  
info: Creating home directory `/home/jerry' ...  
info: Copying files from `/etc/skel' ...  
New password:  
Retype new password:  
passwd: password updated successfully  
Changing the user information for jerry  
Enter the new value, or press ENTER for the default  
    Full Name []: jerry lee  
    Room Number []: 98  
    Work Phone []: 1111  
    Home Phone []: 2222  
    Other []: 999  
Is the information correct? [Y/n] y  
info: Adding new user `jerry' to supplemental / extra groups `users' ...  
info: Adding user `jerry' to group `users' ...
```

```
sana058@sana1:~$ sudo useradd Scooby
sana058@sana1:~$ su - Scooby
Password:
su: Authentication failure
sana058@sana1:~$ su - Scooby
Password:
su: Authentication failure
sana058@sana1:~$ sudo passwd Scooby
New password:
Retype new password:
passwd: password updated successfully
sana058@sana1:~$
```

```
sana058@sana1:~$ su - Scooby
Password:
su: warning: cannot change directory to /home/Scooby: No such file or directory
$
```

```
sana058@sana1:~$ cat /etc/passwd | grep -E 'Scooby|jerry'
jerry:x:1005:1005:jerry lee,98,1111,2222,999:/home/jerry:/bin/bash
Scooby:x:1006:1006::/home/Scooby:/bin/sh
sana058@sana1:~$ ls -ld /home/Scooby
ls: cannot access '/home/Scooby': No such file or directory
sana058@sana1:~$
```

```
sana058@sana1:~$ sudo mkdir -p /home/Scooby
sana058@sana1:~$ sudo chown Scooby:Scooby /home/Scooby
sana058@sana1:~$ sudo chmod 750 /home/Scooby
sana058@sana1:~$ ls -ld /home/Scooby
drwxr-x--- 2 Scooby Scooby 4096 Nov  1 13:42 /home/Scooby
sana058@sana1:~$
```

```
sana058@sana1:~$ su - Scooby
Password:
$ pwd
/home/Scooby
$ ls -la
total 8
drwxr-x--- 2 Scooby Scooby 4096 Nov  1 13:42 .
```

```
sana058@sana1:~$ cat /etc/passwd | grep Scooby
Scooby:x:1006:1006::/home/Scooby:/bin/sh
sana058@sana1:~$ sudo usermod -s /bin/bash Scooby
sana058@sana1:~$ su - Scooby
Password:
Scooby@sana1:~$ _
```

```
1000
sana058@sana1:~$ sudo addgroup jolly
info: Selecting GID from range 1000 to 59999 ...
info: Adding group `jolly' (GID 1007) ...
sana058@sana1:~$ sudo addgroup anime
info: Selecting GID from range 1000 to 59999 ...
info: Adding group `anime' (GID 1008) ...
sana058@sana1:~$ cat /etc/group
```

```
Scooby:x:1006:
jolly:x:1007:
anime:x:1008:
sana058@sana1:~$
```

```
sana058@sana1:~$ sudo delgroup jolly
info: Removing group `jolly' ...
sana058@sana1:~$ sudo groupdel anime
sana058@sana1:~$ cat /etc/group
```

```
designer:x:1004:
jerry:x:1005:
Scooby:x:1006:
sana058@sana1:~$ _
```

```
sana058@sana1:~$ sudo deluser --remove-home jerry
info: Looking for files to backup/remove ...
info: Removing files ...
info: Removing crontab ...
info: Removing user `jerry' ...
```

```
sana058@sana1:~$ sudo userdel -r Scooby
userdel: Scooby mail spool (/var/mail/Scooby) not found
sana058@sana1:~$ cat /etc/passwd
```

```
cups-browsed:x:118:111::/nonexistent:/usr/sbin/nologin
xrdp:x:119:124::/run/xrdp:/usr/sbin/nologin
tom:x:1001:1004:tom welling,97,2345,6789,0000:/home/tom:/bin/bash
```

TASK#05:

```
sana058@sana1:~$ sudo adduser student
info: Adding user `student' ...
info: Selecting UID/GID from range 1000 to 59999 ...
info: Adding new group `student' (1005) ...
info: Adding new user `student' (1005) with group `student (1005)' ...
info: Creating home directory `/home/student' ...
info: Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for student
Enter the new value, or press ENTER for the default
      Full Name []: student 1
      Room Number []: 99
      Work Phone []: 333
      Home Phone []: 111
      Other []: 888
Is the information correct? [Y/n] y
info: Adding new user `student' to supplemental / extra groups `users'
info: Adding user `student' to group `users' ...
sana058@sana1:~$
```

```
sana058@sana1:~$ su - student
Password:
student@sana1:~$ touch file1
student@sana1:~$ mkdir -p dir1
student@sana1:~$ touch dir1/file2
student@sana1:~$ ls -l
total 4
drwxrwxr-x 2 student student 4096 Nov  1 13:57 dir1
-rw-rw-r-- 1 student student     0 Nov  1 13:57 file1
```

```
sana058@sana1:~$ sudo chown tom file1
sana058@sana1:~$ ls -l file1
-rw-rw-r-- 1 tom sana058 0 Nov  1 14:01 file1
sana058@sana1:~$ sudo chgrp devops file1
sana058@sana1:~$ ls -l file1
-rw-rw-r-- 1 tom devops 0 Nov  1 14:01 file1
sana058@sana1:~$ _
```

```
sana058@sana1:~$ ls -l
total 56
-rw-rw-r-- 1 sana058 sana058 365 Oct 23 14:30 answers.md
-rw-rw-r-- 1 sana058 sana058 402 Oct 24 05:16 apt_upgrade_vs_update.md
drwxr-xr-x 2 sana058 sana058 4096 Oct 24 05:49 Desktop
drwxr-xr-x 2 sana058 sana058 4096 Oct 24 05:49 Documents
drwxr-xr-x 2 sana058 sana058 4096 Oct 24 05:49 Downloads
-rw-rw-r-- 1 tom devops 0 Nov  1 14:01 file1
drwxrwxr-x 3 sana058 sana058 4096 Oct 23 14:42 lab4
drwxrwxr-x 2 sana058 sana058 4096 Oct 30 14:02 Lab5
drwxr-xr-x 2 sana058 sana058 4096 Oct 24 05:49 Music
drwxr-xr-x 2 sana058 sana058 4096 Oct 24 05:49 Pictures
drwxr-xr-x 2 sana058 sana058 4096 Oct 24 05:49 Public
drwx----- 3 sana058 sana058 4096 Oct 24 05:26 snap
drwxr-xr-x 2 sana058 sana058 4096 Oct 24 05:49 Templates
drwxrwxr-t 2 sana058 sana058 4096 Oct 24 05:49 thinclient_drives
drwxr-xr-x 2 sana058 sana058 4096 Oct 24 05:49 Videos
sana058@sana1:~$ ls -l dir1
ls: cannot access 'dir1': No such file or directory
```

```
sana058@sana1:~$ ls -l /dev/null
crw-rw-rw- 1 root root 1, 3 Nov  1 13:11 /dev/null
sana058@sana1:~$ file file1 dir1 /dev/null
file1:      empty
dir1:      cannot open `dir1' (No such file or directory)
/dev/null: character special (1/3)
```

TASK#06:

```
sana058@sana1:~$ su - student
Password:
student@sana1:~$ cd ~
student@sana1:~$ ls -l file1
-rw-rw-r-- 1 student student 0 Nov  1 13:57 file1
student@sana1:~$ chmod -rwx file1
student@sana1:~$ ls -l file1
----- 1 student student 0 Nov  1 13:57 file1
```

```
student@sana1:~$ chmod +r file1
student@sana1:~$ ls -l file1
-r--r--r-- 1 student student 0 Nov  1 13:57 file1
```

```
student@sana1:~$ chmod u+x file1
student@sana1:~$ ls -l file1
-r-xr--r-- 1 student student 0 Nov  1 13:57 file1
student@sana1:~$ chmod ug+x file1
student@sana1:~$ ls -l file1
-r-xr-xr-- 1 student student 0 Nov  1 13:57 file1
student@sana1:~$ chmod ugo-rwx file1
student@sana1:~$ ls -l file1
----- 1 student student 0 Nov  1 13:57 file1
```

TASK#07:

```
student@sana1:~$ chmod 767 file1
student@sana1:~$ ls -l file1
-rwxrw-rwx 1 student student 0 Nov  1 13:57 file1
```

```
student@sana1:~$ chmod g=rw,o=rwx file1
student@sana1:~$ ls -l file1
-rwxrwx-rwx 1 student student 0 Nov  1 13:57 file1
```

```
student@sana1:~$ chmod u=,g=,o= file1
student@sana1:~$ ls -l file1
----- 1 student student 0 Nov  1 13:57 file1
```

TASK#08:

```
student@sana1:~$ chmod 777 file1
student@sana1:~$ ls -l file1
-rwxrwxrwx 1 student student 0 Nov  1 13:57 file1
student@sana1:~$ chmod 700 file1
student@sana1:~$ ls -l file1
-rwx----- 1 student student 0 Nov  1 13:57 file1
student@sana1:~$ chmod 744 file1
student@sana1:~$ ls -l file1
-rwxr--r-- 1 student student 0 Nov  1 13:57 file1
student@sana1:~$ chmod 640 file1
student@sana1:~$ ls -l file1
-rw-r----- 1 student student 0 Nov  1 13:57 file1
student@sana1:~$ chmod 664 file1
student@sana1:~$ ls -l file1
-rw-rw-r-- 1 student student 0 Nov  1 13:57 file1
student@sana1:~$ chmod 775 file1
student@sana1:~$ ls -l file1
-rwxrwxr-x 1 student student 0 Nov  1 13:57 file1
student@sana1:~$ chmod 750 file1
student@sana1:~$ ls -l file1
-rwxr-x--- 1 student student 0 Nov  1 13:57 file1
```

TASK#09:

```
sana058@sana1:~$ sudo cat /var/log/syslog | less
```

```
2025-10-26T13:21:26.587019+00:00 sana1 ModemManager[1319]: <msg> ModemManager (version 1.23.4) starting in system bus...
2025-10-26T13:21:28.141404+00:00 sana1 systemd[1]: Started udisks2.service - Disk Manager.
2025-10-26T13:21:28.206826+00:00 sana1 udisksd[1174]: Acquired the name org.freedesktop.UDisks2 on the system message bus
2025-10-26T13:21:28.767370+00:00 sana1 systemd[1]: dmesg.service: Deactivated successfully.
2025-10-26T13:21:28.897277+00:00 sana1 accounts-daemon[1116]: started daemon version 23.18.9
2025-10-26T13:21:28.897540+00:00 sana1 systemd[1]: Started accounts-daemon.service - Accounts Service.
2025-10-26T13:21:29.083173+00:00 sana1 NetworkManager[1272]: <info> [1761484889.0824] NetworkManager (version 1.46.0) is starting... (boot:f6da70e5-baf8-4245-fec74e62f61)
2025-10-26T13:21:29.083309+00:00 sana1 NetworkManager[1272]: <info> [1761484889.0825] Read config: /etc/NetworkManager/NetworkManager.conf (lib: 10-dns-resolv.conf)
```

```
sana058@sana1:~$ sudo cat /var/log/syslog | more
```

```
2025-10-26T13:21:25.139486+00:00 sana1 wpa_supplicant[1273]: Successfully initialized wpa_supplicant
2025-10-26T13:21:26.587019+00:00 sana1 ModemManager[1319]: <msg> ModemManager (version 1.23.4) starting in system bus...
2025-10-26T13:21:28.141404+00:00 sana1 systemd[1]: Started udisks2.service - Disk Manager.
2025-10-26T13:21:28.206826+00:00 sana1 udisksd[1174]: Acquired the name org.freedesktop.UDisks2 on the system message bus
2025-10-26T13:21:28.767370+00:00 sana1 systemd[1]: dmesg.service: Deactivated successfully.
2025-10-26T13:21:28.897277+00:00 sana1 accounts-daemon[1116]: started daemon version 23.18.9
2025-10-26T13:21:28.897540+00:00 sana1 systemd[1]: Started accounts-daemon.service - Accounts Service.
2025-10-26T13:21:29.083173+00:00 sana1 NetworkManager[1272]: <info> [1761484889.0824] NetworkManager (version 1.46.0) is starting.
4e5-fec74e62f61)
2025-10-26T13:21:29.083309+00:00 sana1 NetworkManager[1272]: <info> [1761484889.0825] Read config: /etc/NetworkManager/NetworkManager.conf (lib: 10-dns-resolv.conf)
```

```
sana058@sana1:~$ sudo grep -E 'fail|error' /var/log/syslog | head
2025-10-26T13:21:22.646804+00:00 sana1 multipath: sda: failed to get sysfs uid: No such file or directory
2025-10-26T13:21:22.646885+00:00 sana1 multipath: sda: failed to get sgio uid: No such file or directory
2025-10-26T13:21:22.658087+00:00 sana1 multipathd[470]: sda: failed to get udev uid: No data available
2025-10-26T13:21:22.658129+00:00 sana1 multipathd[470]: sda: failed to get path uid
2025-10-26T13:21:22.658143+00:00 sana1 multipathd[470]: uevent trigger error
2025-10-26T13:21:32.651214+00:00 sana1 multipath: sda: failed to get sysfs uid: No such file or directory
2025-10-26T13:21:32.651805+00:00 sana1 multipath: sda: failed to get sgio uid: No such file or directory
2025-10-26T13:21:32.681394+00:00 sana1 multipathd[470]: sda: failed to get udev uid: No data available
2025-10-26T13:21:32.681434+00:00 sana1 multipathd[470]: sda: failed to get path uid
2025-10-26T13:21:32.681446+00:00 sana1 multipathd[470]: uevent trigger error
```

```
sana058@sana1:~$ sudo grep -i systemd /var/log/syslog > ~/syslog_systemd.txt
```

```
sana058@sana1:~$ cat ~/syslog_systemd.txt
```

```
2025-11-01T14:03:38.622843+00:00 sana1 systemd[1]: Starting udisks2.service - Disk Manager...
2025-11-01T14:03:38.994296+00:00 sana1 systemd[1]: Started udisks2.service - Disk Manager.
2025-11-01T14:03:42.553248+00:00 sana1 systemd[1]: fwupd-refresh.service: Deactivated successfully.
2025-11-01T14:03:42.553437+00:00 sana1 systemd[1]: Finished fwupd-refresh.service - Refresh fwupd metadata and update motd.
2025-11-01T14:10:14.387636+00:00 sana1 systemd[1]: Starting sysstat-collect.service - system activity accounting tool...
2025-11-01T14:10:14.393120+00:00 sana1 systemd[1]: sysstat-collect.service: Deactivated successfully.
2025-11-01T14:10:14.393290+00:00 sana1 systemd[1]: Finished sysstat-collect.service - system activity accounting tool.
2025-11-01T14:20:14.385987+00:00 sana1 systemd[1]: Starting sysstat-collect.service - system activity accounting tool...
2025-11-01T14:20:14.391077+00:00 sana1 systemd[1]: sysstat-collect.service: Deactivated successfully.
2025-11-01T14:20:14.391375+00:00 sana1 systemd[1]: Finished sysstat-collect.service - system activity accounting tool.
2025-11-01T14:30:37.131774+00:00 sana1 systemd[1]: Starting sysstat-collect.service - system activity accounting tool...
2025-11-01T14:30:37.144600+00:00 sana1 systemd[1]: sysstat-collect.service: Deactivated successfully.
2025-11-01T14:30:37.144922+00:00 sana1 systemd[1]: Finished sysstat-collect.service - system activity accounting tool.
```

```
sana058@sana1:~$ sudo grep -i network /var/log/syslog > ~/syslog_systemd.txt
sana058@sana1:~$ cat ~/syslog_systemd.txt
```

```
2025-11-01T13:11:58.975409+00:00 sana1 NetworkManager[1257]: <info> [1762002718.9749] manager: startup complete
2025-11-01T13:11:58.997177+00:00 sana1 systemd[1]: Starting NetworkManager-wait-online.service - Network Manager Wait Online...
2025-11-01T13:11:59.026671+00:00 sana1 NetworkManager[1257]: <info> [1762002719.0260] modem-manager: ModemManager available
2025-11-01T13:11:59.132285+00:00 sana1 systemd[1]: Finished NetworkManager-wait-online.service - Network Manager Wait Online.
2025-11-01T13:11:59.139598+00:00 sana1 systemd[1]: Reached target network-online.target - Network is Online.
2025-11-01T13:12:04.405221+00:00 sana1 systemd[1]: NetworkManager-dispatcher.service: Deactivated successfully.
2025-11-01T13:12:11.253592+00:00 sana1 NetworkManager[1257]: <info> [1762002731.2533] manager: (docker0): new Bridge device (/org/freedesktop/NetworkManager/Bridges/3)
2025-11-01T13:12:11.320508+00:00 sana1 systemd-networkd[734]: docker0: Link UP
2025-11-01T13:12:16.209757+00:00 sana1 systemd[1869]: Listening on dirmngr.socket - GnuPG network certificate management daemon.
2025-11-01T13:26:40.960048+00:00 sana1 systemd-timesyncd[747]: Network configuration changed, trying to establish connection.
```

```
sana058@sana1:~$ sudo journalctl | less
```

```

Sep 30 14:37:43 sanai kernel: Linux version 6.8.0-71-generic (buildd@lcy02-amd64-053) (x86_64-linux-gnu-gcc-13 (Ubuntu 13.3.0-6ubuntu2~24.04) 13.3.0, GNU ld (GNU Binutils for Ubuntu) 2.42) #71-Ubuntu SMP PREEMPT_DYNAMIC Tue Jul 22 16:52:38 UTC 2025 (Ubuntu 6.8.0-71.71-generic 6.8.12)
Sep 30 14:37:43 sanai kernel: Command line: BOOT_IMAGE=/vmlinuz-6.8.0-71-generic root=/dev/mapper/ubuntu--vg-ubuntu--lv ro
Sep 30 14:37:43 sanai kernel: KERNEL supported cpus:
Sep 30 14:37:43 sanai kernel:   Intel GenuineIntel
Sep 30 14:37:43 sanai kernel:   AMD AuthenticAMD
Sep 30 14:37:43 sanai kernel:   Hygon HugonGenuine
Sep 30 14:37:43 sanai kernel:   Centaur CentaurHauls
Sep 30 14:37:43 sanai kernel:   zhaoxin Shanghai
Sep 30 14:37:43 sanai kernel: BIOS-provided physical RAM map:
Sep 30 14:37:43 sanai kernel:   [mem 0x0000000000000000-0x0000000000009eff] usable
Sep 30 14:37:43 sanai kernel:   [mem 0x00000000000000009e000-0x000000000000ffff] reserved
Sep 30 14:37:43 sanai kernel:   [mem 0x0000000000000000c0000-0x000000000000ffff] reserved
Sep 30 14:37:43 sanai kernel:   [mem 0x0000000000000000100000-0x0000000000fcffff] usable
Sep 30 14:37:43 sanai kernel:   [mem 0x00000000000000000000-0x000000000000ffff] ACPI data
Sep 30 14:37:43 sanai kernel:   [mem 0x00000000000000000000-0x000000000000ffff] ACPI NVS
Sep 30 14:37:43 sanai kernel:   [mem 0x00000000000000000000-0x000000000000ffff] reserved
Sep 30 14:37:43 sanai kernel:   [mem 0x00000000000000000000-0x000000000000ffff] usable
Sep 30 14:37:43 sanai kernel:   [mem 0x00000000000000000000-0x000000000000ffff] reserved
Sep 30 14:37:43 sanai kernel: NX (Execute Disable) protection: active
Sep 30 14:37:43 sanai kernel: APIC: Static calls initialized
Sep 30 14:37:43 sanai kernel: SMBIOS 2.7 present.
Sep 30 14:37:43 sanai kernel: DMI: VMWare, Inc. VMware Virtual Platform/440BX Desktop Reference Platform, BIOS 6.00 11/12/2020
Sep 30 14:37:43 sanai kernel: vmware: hypercall mode: 0x02
Sep 30 14:37:43 sanai kernel: Hypervisor detected: VMware
Sep 30 14:37:43 sanai kernel: vmware: TSC freq read from hypervisor : 1190.400 MHz
Sep 30 14:37:43 sanai kernel: vmware: Host bus clock speed read from hypervisor : 66000000 Hz
Sep 30 14:37:43 sanai kernel: vmware: using clock offset of 8049659277 ns
Sep 30 14:37:43 sanai kernel: tsc: Detected 1190.400 MHz processor
Sep 30 14:37:43 sanai kernel: e820: update [mem 0x00000000-0x0000ffff] usable => reserved
Sep 30 14:37:43 sanai kernel: e820: remove [mem 0x00000000-0x0000ffff] usable
Sep 30 14:37:43 sanai kernel: last_pfn = 0x140000 max_arch_pfn = 0x400000000
Sep 30 14:37:43 sanai kernel: total RAM covered: 130048M
Sep 30 14:37:43 sanai kernel: Found optimal setting for mtrr clean up
Sep 30 14:37:43 sanai kernel:   gran_size: 64K    chunk_size: 64K    num_reg: 7    lose cover RAM: 0G
Sep 30 14:37:43 sanai kernel: MTRR map: 7 entries (5 fixed + 2 variable; max 21), built from 8 variable MTRRs
Sep 30 14:37:43 sanai kernel: x86_PAT: Configuration [0-7]: WB NC UC UC WB WP UC- WT
Sep 30 14:37:43 sanai kernel: e820: update [mem 0xc0000000-0xffffffff] usable => reserved
Sep 30 14:37:43 sanai kernel: last_pfn = 0xc0000000 max_arch_pfn = 0x400000000
Sep 30 14:37:43 sanai kernel: found SMP MP-tablet at [mem 0x000f6a70-0x000f6a7f]
Sep 30 14:37:43 sanai kernel: Using GB pages for direct mapping
Sep 30 14:37:43 sanai kernel: RAMDISK: [mem 0x2f5b9000-0x33ad3fff]
Sep 30 14:37:43 sanai kernel: ACPI: Early table checksum verification disabled
Sep 30 14:37:43 sanai kernel: ACPI: RSDP 0x00000000000f5a000 000024 (v02 PTI LD )
Sep 30 14:37:43 sanai kernel: ACPI: XSDT 0x0000000008FEDC633 00005C (v01 INTEL 440BX 06040000 VMW 01324272)
Sep 30 14:37:43 sanai kernel: ACPI: FACP 0x000000000BEFEET73 0000F4 (v04 INTEL 440BX 06040000 PTL 000F4240)

```

```
sana058@sana1:~$ sudo journalctl -u systemd | grep -i error > ~/journal_errors.txt
```

TASK#10:

```
"setup.sh" [New] 1L, 12B written
sana058@sana1:~$
```

```
sana058@sana1:~$ chmod +x setup.sh
sana058@sana1:~$ ./setup.sh
sana058@sana1:~$
```

```
"setup.sh" 6L, 117B written
sana058@sana1:~$ ./setup.sh
var1: hello form lab 6
allfiles (ls -1):
total 160
-rw-rw-r-- 1 sana058 sana058 365 Oct 23 14:30 answers.md
-rw-rw-r-- 1 sana058 sana058 402 Oct 24 05:16 apt_upgrade_vs_update.md
drwxr-xr-x 2 sana058 sana058 4096 Oct 24 05:49 Desktop
drwxr-xr-x 2 sana058 sana058 4096 Oct 24 05:49 Documents
drwxr-xr-x 2 sana058 sana058 4096 Oct 24 05:49 Downloads
-rw-rw-r-- 1 tom devops 0 Nov 1 14:01 file1
-rw-rw-r-- 1 sana058 sana058 0 Nov 1 14:38 journal_errors.txt
drwxrwxr-x 3 sana058 sana058 4096 Oct 23 14:42 lab4
drwxrwxr-x 2 sana058 sana058 4096 Oct 30 14:02 Lab5
drwxr-xr-x 2 sana058 sana058 4096 Oct 24 05:49 Music
drwxr-xr-x 2 sana058 sana058 4096 Oct 24 05:49 Pictures
drwxr-xr-x 2 sana058 sana058 4096 Oct 24 05:49 Public
-rw-rwxr-x 1 sana058 sana058 117 Nov 1 15:02 setup.sh
drwx----- 3 sana058 sana058 4096 Oct 24 05:26 snap
-rw-rw-r-- 1 sana058 sana058 98682 Nov 1 14:33 syslog_systemd.txt
drwxr-xr-x 2 sana058 sana058 4096 Oct 24 05:49 Templates
drwxrwxr-t 2 sana058 sana058 4096 Oct 24 05:49 thinclient_drives
drwxr-xr-x 2 sana058 sana058 4096 Oct 24 05:49 Videos
```

```
"setup.sh" 14L, 278B written
sana058@sana1:~$ ./setup.sh
vari: hello form lab 6
allfiles (ls -l):
total 160
-rw-rw-r-- 1 sana058 sana058 365 Oct 23 14:30 answers.md
-rw-rw-r-- 1 sana058 sana058 402 Oct 24 05:16 apt_upgrade_vs_update.md
drwxr-xr-x 2 sana058 sana058 4096 Oct 24 05:49 Desktop
drwxr-xr-x 2 sana058 sana058 4096 Oct 24 05:49 Documents
drwxr-xr-x 2 sana058 sana058 4096 Oct 24 05:49 Downloads
-rw-rw-r-- 1 tom devops 0 Nov 1 14:01 file1
-rw-rw-r-- 1 sana058 sana058 0 Nov 1 14:38 journal_errors.txt
drwxrwxr-x 3 sana058 sana058 4096 Oct 23 14:42 lab4
drwxrwxr-x 2 sana058 sana058 4096 Oct 30 14:02 Lab5
drwxr-xr-x 2 sana058 sana058 4096 Oct 24 05:49 Music
drwxr-xr-x 2 sana058 sana058 4096 Oct 24 05:49 Pictures
drwxr-xr-x 2 sana058 sana058 4096 Oct 24 05:49 Public
-rwxrwxr-x 1 sana058 sana058 278 Nov 1 15:06 setup.sh
drwx----- 3 sana058 sana058 4096 Oct 24 05:26 snap
-rw-rw-r-- 1 sana058 sana058 98682 Nov 1 14:33 syslog_systemd.txt
drwxr-xr-x 2 sana058 sana058 4096 Oct 24 05:49 Templates
drwxrwxr-t 2 sana058 sana058 4096 Oct 24 05:49 thinclient_drives
drwxr-xr-x 2 sana058 sana058 4096 Oct 24 05:49 Videos
directory dir1 doesnot exit. Creating....
directory dir1 created
```

```
sana058@sana1:~$ ./setup.sh
./setup.sh: line 2: [-f: command not found
file2 does not exist. Creating...
file2 created
sana058@sana1:~$
```

```
setup.sh 14L, 278B written
sana058@sana1:~$ ./setup.sh
read permission missing; granting to user...
write permision missing. granting to user...
```

```
sana058@sana1:~$ ./setup.sh
execute permissom missing.granting to user...
```

```
final permission for dir1/file2:
-rwx----- 1 sana058 sana058 0 Nov 1 15:10 dir1/file2
```

TASK#11:

```
sana058@sana1:~$ chmod +x setup.sh
sana058@sana1:~$ ./setup.sh 10 student
sana058@sana1:~$ cat setup.sh
#!/bin/bash
num=$1
str=$2
```

```
"setup.sh" 9L, 136B written
sana058@sana1:~$ ./setup.sh 7 student
7 is NOT equal to 10 (-eq).
sana058@sana1:~$ ./setup.sh 10 student
10 is equal to 10 (-eq).
sana058@sana1:~$
```

```
"setup.sh" 9L, 142B written
sana058@sana1:~$ ./setup.sh 7 student
7 is equal to 10 (-ne).
sana058@sana1:~$ ./setup.sh 10 student
10 is NOT equal to 10 (-ne false).
```

```
"setup.sh" 9L, 144B written
sana058@sana1:~$ ./setup.sh 12 student
12 is greater than 10 (-gt).
sana058@sana1:~$ ./setup.sh 9 student
9 is NOT greater than 10 (-gt).
sana058@sana1:~$ _
```

```
"setup.sh" 9L, 138B written
sana058@sana1:~$ ./setup.sh 7 student
7 is less than 10 (-lt).
sana058@sana1:~$ ./setup.sh 11 student
11 is NOT less than 10 (-lt).
sana058@sana1:~$
```

```
"setup.sh" 9L, 171B written
sana058@sana1:~$ ./setup.sh 10 student
secong argument equals 'student'( = ).
sana058@sana1:~$ ./setup.sh 10 test
second argument does NOT equal 'student' ( = ).
```

```
"setup.sh" 9L, 145B written
sana058@sana1:~$ ./setup.sh 10
second argument is empty (zero-length).
sana058@sana1:~$ ./setup.sh 10 student
second argument is NOT empty.
```

TASK#12:

```
"setup.sh" 7L, 170B written
sana058@sana1:~$ ./setup.sh
printing all arguments using $*:
sana058@sana1:~$
```

```
"setup.sh" 7L, 170B written
sana058@sana1:~$ chmod +x setup.sh
sana058@sana1:~$ ./setup.sh "two words" three
printing all arguments using $*:
argument: two
argument: words
argument: three
```

TASK#13:

```
"setup.sh" 14L, 203B written
sana058@sana1:~$ ./setup.sh
enter a number (or 'q' to quit): 3
total score: 3
enter a number (or 'q' to quit): 4
total score: 7
enter a number (or 'q' to quit): 6
total score: 13
enter a number (or 'q' to quit): q
final total: 13
```

```
sana058@sana1:~$ chmod +x setup.sh
sana058@sana1:~$ ./setup.sh
Now demonstrating sum_args function:
sum_args(3,4) returned: 7
```

TASK#14:

SanaTariq205 / UbuntuMachine

Code Pull requests Actions Projects Wiki Security Insights Settings

UbuntuMachine Public
forked from [WaqasSaleem97/UbuntuMachine](#)

main 1 Branch 0 Tags Go to file Add file Code

This branch is up to date with [WaqasSaleem97/UbuntuMachine:main](#).

240438 Adding the stop script Sa1777d · 5 days ago 3 Commits

README.md Initial commit last week

start-desktop.sh Adding the stop script 5 days ago

stop-desktop.sh Adding the stop script 5 days ago

About No description, website, or topics provided.

Readme Activity 0 stars 0 watching 0 forks

Releases No releases published Create a new release

Packages No packages published Publish your first package

Languages

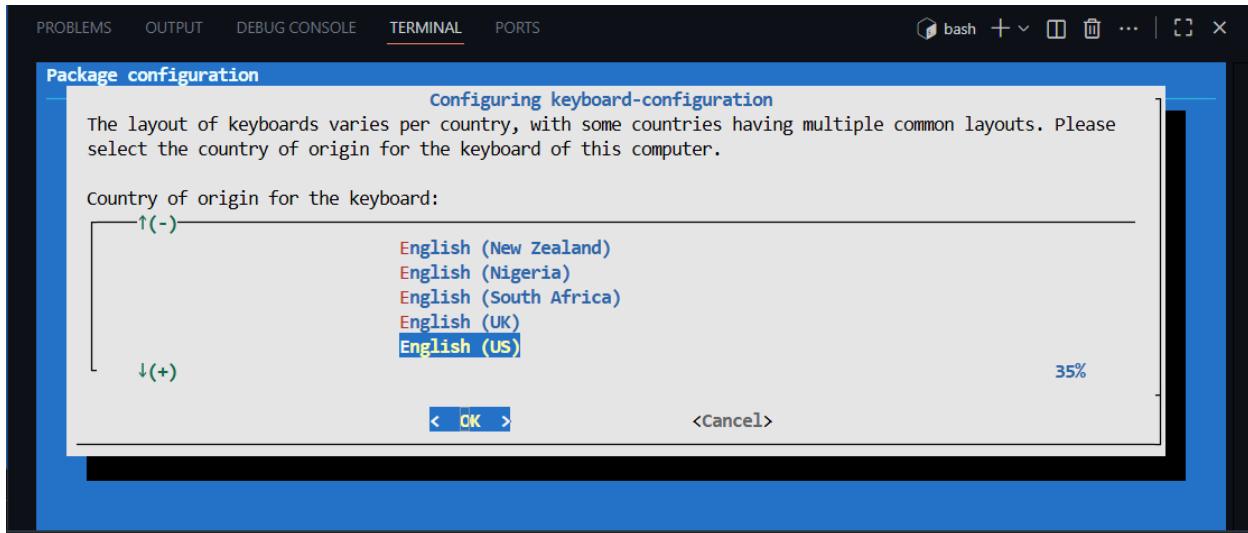
EXPLORER

UBUNTUMACHINE [CODESPACES: UBIQUITOUS ROT...]

- README.md
- start-desktop.sh
- stop-desktop.sh

```
@SanaTariq205 →/workspaces/UbuntuMachine (main) $ ls -l start-desktop.sh stop-desktop.sh
-rwxrwxrwx 1 codespace root 1333 Nov 1 16:27 start-desktop.sh
-rwxrwxrwx 1 codespace root 428 Nov 1 16:27 stop-desktop.sh
@SanaTariq205 →/workspaces/UbuntuMachine (main) $ chmod +x star-desktop.sh stop-desktop.sh
chmod: cannot access 'star-desktop.sh': No such file or directory
● @SanaTariq205 →/workspaces/UbuntuMachine (main) $ chmod +x start-desktop.sh stop-desktop.sh
```

```
● @SanaTariq205 →/workspaces/UbuntuMachine (main) $ chmod +x start-desktop.sh
○ @SanaTariq205 →/workspaces/UbuntuMachine (main) $ ./start-desktop.sh
```



```
Press Ctrl-C to exit

[✓] XFCE desktop environment is running!
🌐 Access it via the Codespaces HTTPS port (6080)
○ @Sanatariq205 →/workspaces/UbuntuMachine (main) $ WebSocket server settings:
  - Listen on :6080
  - Web server. Web root: /usr/share/novnc
  - No SSL/TLS support (no cert file)
  - proxying from :6080 to localhost:5901
```

Directory listing for /

-
- [app/](#)
 - [core/](#)
 - [include/](#)
 - [utils/](#)
 - [vendor/](#)
 - [vnc.html](#)
 - [vnc_auto.html@](#)
 - [vnc_lite.html](#)
-



