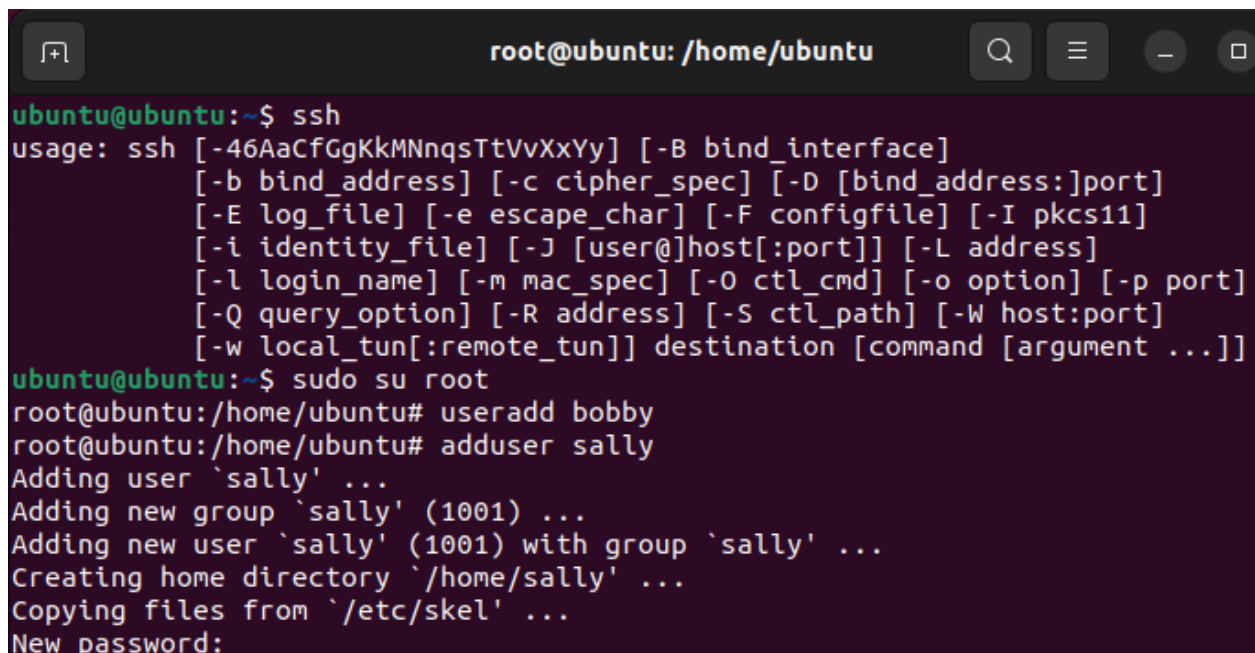
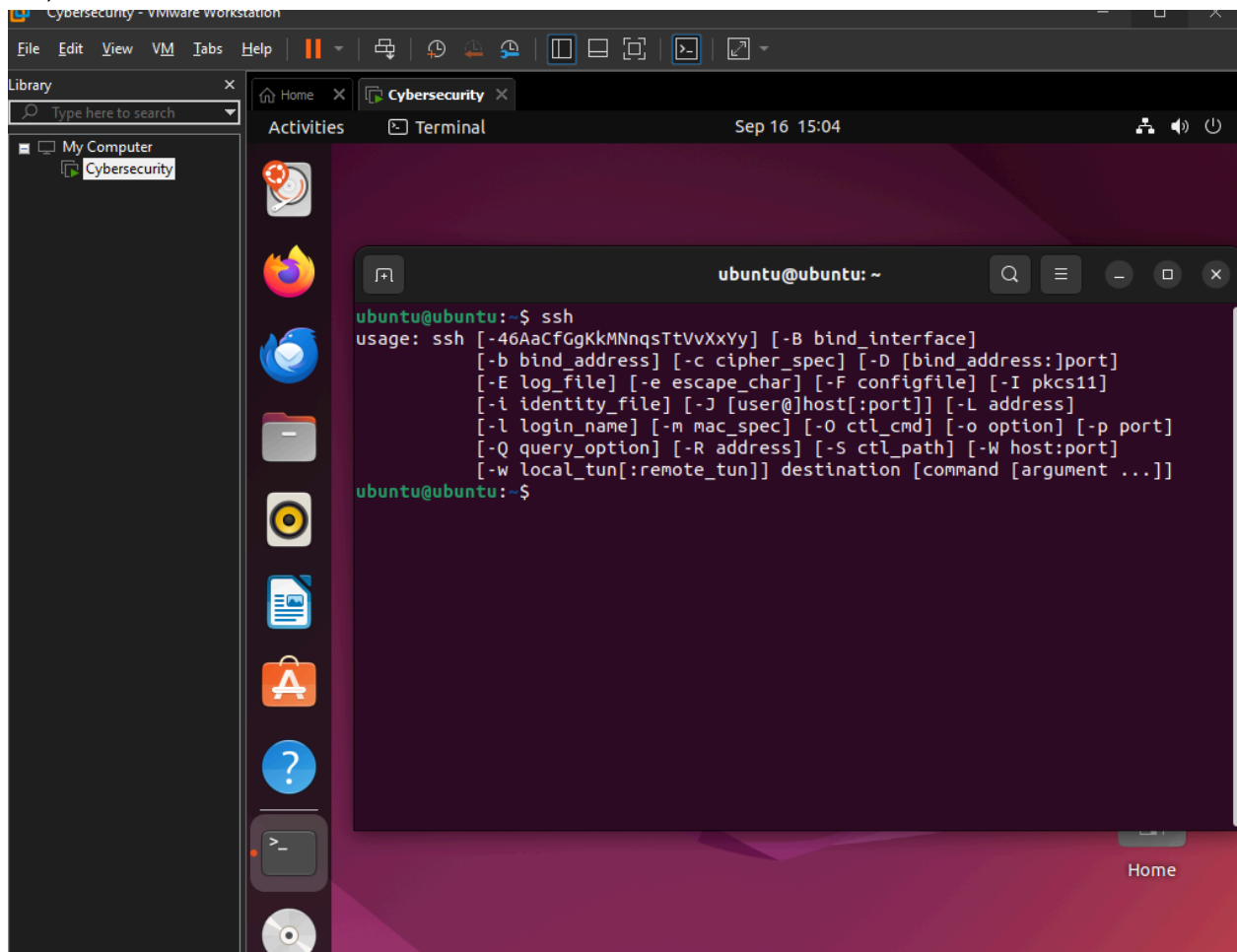


1-9)



```

root@ubuntu:/home/ubuntu# su - sally
sally@ubuntu:~$ adduser earl
adduser: Only root may add a user or group to the system.
sally@ubuntu:~$ exit
logout
root@ubuntu:/home/ubuntu# useradd earl
root@ubuntu:/home/ubuntu# sudo deluser earl
Removing user `earl' ...
Warning: group `earl' has no more members.
Done.

```

10) It's bad practice to stay logged in as root because it gives unrestricted access to the system, making mistakes or security breaches much more dangerous.

11,12,13)

```

ubuntu@ubuntu:~$ id
uid=999(ubuntu) gid=999(ubuntu) groups=999(ubuntu),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),122(lpadmin),135(lxd),136(sambashare)
ubuntu@ubuntu:~$ groups
ubuntu adm cdrom sudo dip plugdev lpadmin lxd sambashare
ubuntu@ubuntu:~$ sudo usermod -aG sudo sally
ubuntu@ubuntu:~$ su - sally
Password:
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

sally@ubuntu:~$ sudo adduser earl
[sudo] password for sally:
Adding user `earl' ...
Adding new group `earl' (1002) ...
Adding new user `earl' (1002) with group `earl' ...
Creating home directory `/home/earl' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for earl
Enter the new value, or press ENTER for the default
    Full Name []: earl
    Room Number []: 1
    Work Phone []: 123
    Home Phone []: 1234
    Other []: 12345
Is the information correct? [Y/n] Y
sally@ubuntu:~$

```

14-18)

```
sally@ubuntu:~$ su - ubuntu
ubuntu@ubuntu:~$ sudo groupadd cybersec
ubuntu@ubuntu:~$ sudo usermod -aG cybersec sally
ubuntu@ubuntu:~$ su - sally
Password:
Busu: Authentication failure
ubuntu@ubuntu:~$ su - sally
Password:
sally@ubuntu:~$ groups
sally sudo cybersec
sally@ubuntu:~$ su - ubuntu
ubuntu@ubuntu:~$ mkdir lab1
ubuntu@ubuntu:~$ ls -ld lab1
drwxrwxr-x 2 ubuntu ubuntu 40 Sep 16 15:26 lab1
ubuntu@ubuntu:~$ cd lab1
ubuntu@ubuntu:~/lab1$ nano helloWorld
ubuntu@ubuntu:~/lab1$ chmod +x helloWorld
ubuntu@ubuntu:~/lab1$ ./helloWorld
Hello World!
ubuntu@ubuntu:~/lab1$
```

19,20,21)

```
ubuntu@ubuntu:~/lab1$ ls -la helloWorld
-rwxrwxr-x 1 ubuntu ubuntu 32 Sep 16 15:28 helloWorld
ubuntu@ubuntu:~/lab1$ chmod g+wx helloWorld
ubuntu@ubuntu:~/lab1$ ls -la helloWorld
-rwxrwxr-x 1 ubuntu ubuntu 32 Sep 16 15:28 helloWorld
ubuntu@ubuntu:~/lab1$ getfacl helloWorld
# file: helloWorld
# owner: ubuntu
# group: ubuntu
user::rwx
group::rwx
other::r-x

ubuntu@ubuntu:~/lab1$ setfacl -m u:sally:rw helloWorld
ubuntu@ubuntu:~/lab1$ getfacl helloWorld
# file: helloWorld
# owner: ubuntu
# group: ubuntu
user::rwx
user:sally:rw-
group::rwx
mask::rwx
other::r-x

ubuntu@ubuntu:~/lab1$ S
```