# **ASSIGNMENT 2 – USER MANAGEMENT ASSIGNMENT**

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#### **ANSWERS SECTION 1:**

**Ans 1-** A user can belong to one primary group and multiple secondary groups. Groups cannot directly belong to other groups. Explanation:

Primary group: The group associated with a user when they are created.

Secondary groups: Additional groups a user can belong to.

**Ans 2-** The files containing local accounts and hashed passwords are located at '/etc/passwd' and '/etc/shadow', respectively. Explanation:

'/etc/passwd' holds user account information.

'/etc/shadow' stores the encrypted passwords and other security-related information.

**Ans 3-** The default values for the shadow password suite are defined in the /etc/login.defs file.

Explanation:

This file sets configuration parameters for user login and password policies.

#### **ANSWERS SECTION 2:**

### Ans 1 - Command to create and delete groups.

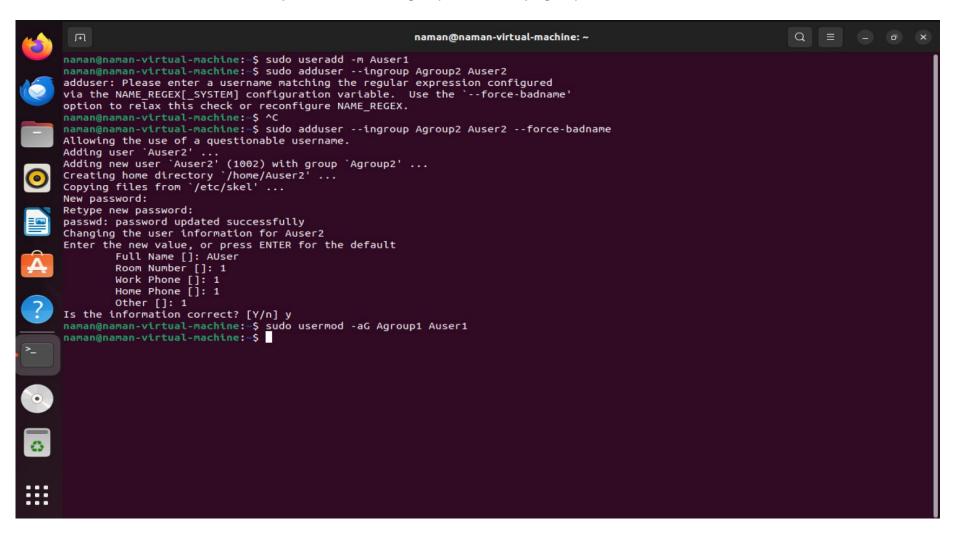
We use the 'groupadd' command to create groups, and use 'groupdel' to delete groups as shown in the screenshot below





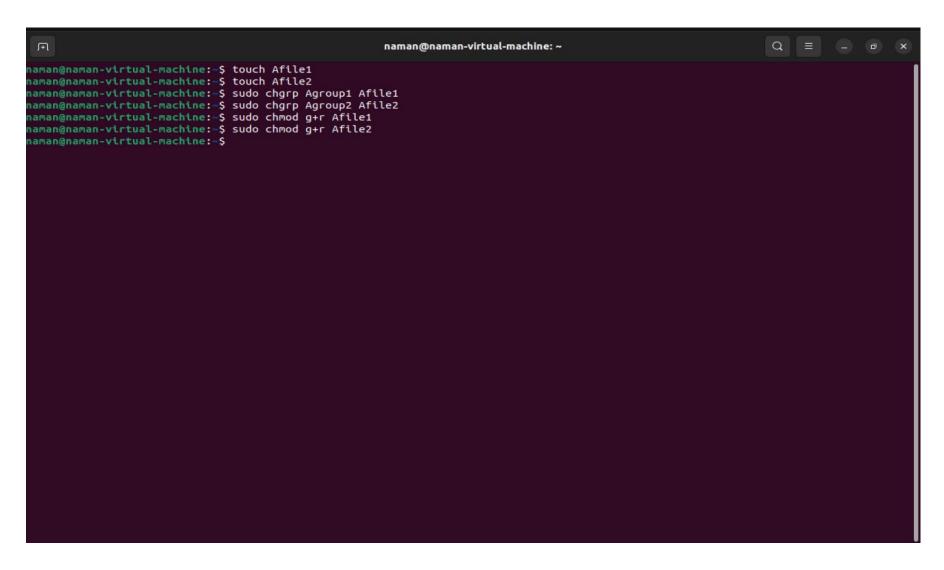
#### Ans 3 – Commands to create and add users to the group.

To add the users to a group, follow the 'usermod' command, which requires the user to be originally added before. If you want to create and add user simultaneously, use 'adduser –ingroup' followed by <groupname> and <username> as shown below



### Ans 2 - Commands to add files to groups and change group permissions.

Use 'chgrp' command to add files to the group, user chmod to change permissions of group for a file or folder.



#### **ANSWERS SECTION 3**

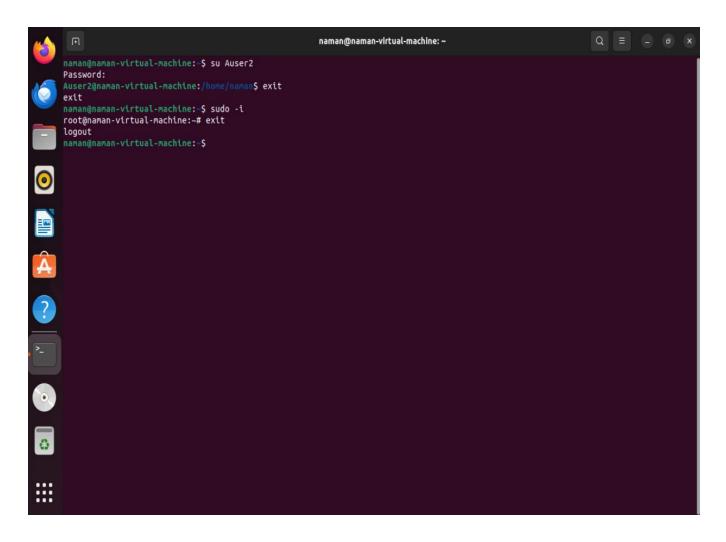
#### Ans 1 - Meaning of two (!!) exclamation mark in the shadow file

The presence of !! next to the account name in the shadow file indicates that the account has been disabled or locked, as shown.

```
naman@naman-virtual-machine: ~
list:*:19576:0:99999:7:::
irc:*:19576:0:99999:7:::
gnats:*:19576:0:99999:7:::
nobody: *:19576:0:99999:7:::
systemd-network:*:19576:0:99999:7:::
systemd-resolve:*:19576:0:99999:7:::
messagebus:*:19576:0:99999:7:::
systemd-timesync:*:19576:0:99999:7:::
syslog:*:19576:0:99999:7:::
apt:*:19576:0:99999:7:::
tss:*:19576:0:99999:7:::
uuidd:*:19576:0:99999:7:::
systemd-oom:*:19576:0:99999:7:::
tcpdump:*:19576:0:99999:7:::
avahi-autoipd:*:19576:0:99999:7:::
usbmux:*:19576:0:99999:7:::
dnsmasg:*:19576:0:99999:7:::
 Ubuntu Software :99999:7:::
cups-pk-helper:*:19576:0:99999:7:::
rtkit:*:19576:0:99999:7:::
whoopsie:*:19576:0:99999:7:::
sssd:*:19576:0:99999:7:::
speech-dispatcher:!:19576:0:99999:7:::
fwupd-refresh:*:19576:0:99999:7:::
nm-openvpn:*:19576:0:99999:7:::
saned:*:19576:0:99999:7:::
colord:*:19576:0:99999:7:::
geoclue:*:19576:0:99999:7:::
pulse:*:19576:0:99999:7:::
gnome-initial-setup:*:19576:0:99999:7:::
hplip:*:19576:0:99999:7:::
adm:*:19576:0:99999:7:::
naman:$y$j9T$lxVXbftzTcyBMAvsNEjiG0$IUUs19h8sRlxWdZ3PfEAB1nlR9e2JiFDWMwD45/ne15:19740:0:99999:7:::
lab:!:19768:0:99999:7:::
cherry:$y$j9T$NM9Lby2Vrjcnb0N2VcORU.$ctUA94UJ2lA9uLCvP4ziIUTy3LB00n47WypAVqS008A:19775:0:99999:7:::
Auser1:!:19789:0:99999:7:::
Auser2:$y$j9T$XksbzhdpmGQWHYHogRYiO0$tGs6z/v1AKhBWVp00r8ziMzZ3yrH3hHGwaoW35Y3jX8:19789:0:99999:7:::
Alockeduser:!!:$y$j9T$3rAcJfIR1aRrKj7sm50m21$RD6CosgNn4kYIxXZggn.82tLs0YWN4QVFgPRKaotkTB:19789:0:99999:7:::
 aman@naman-virtual-machine:~$
```

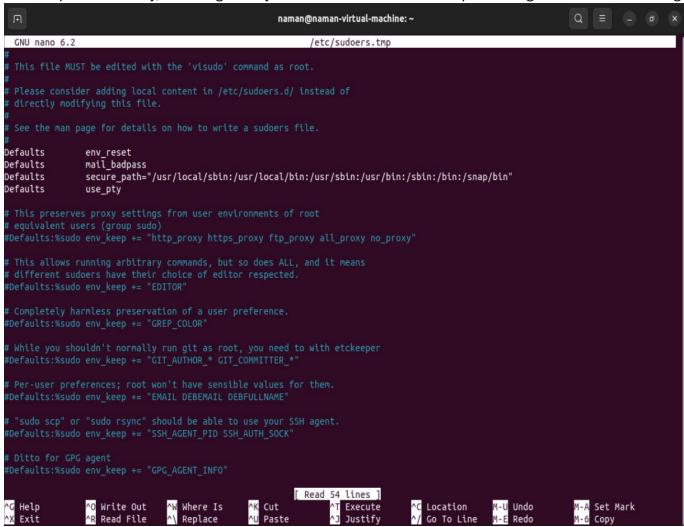
### Ans 2 – Reasons for switching users and difference between su and sudo.

You might switch to a different user for various reasons, such as performing tasks that require different privileges. The su command is used to switch to another user, while sudo is used to execute commands with elevated privileges.



#### Ans 3 - Command to edit the superuser's configuration file

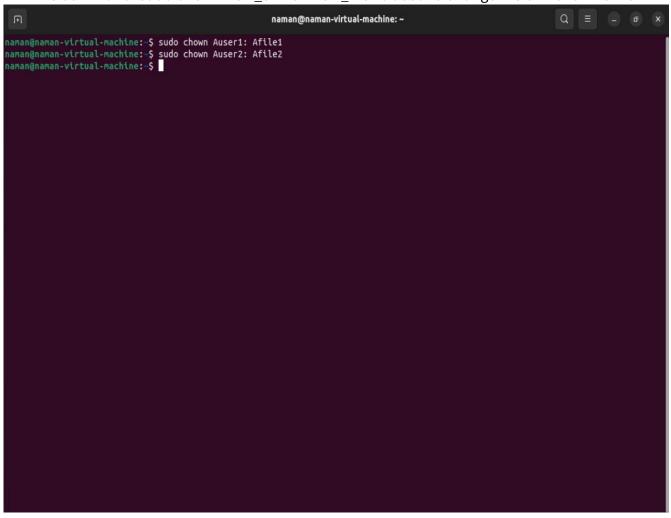
The command 'sudo visudo' is used to edit the sudoers file, which defines the configuration for the sudo command. It opens the sudoers file in a protected way, ensuring that syntax errors are avoided and preventing accidental misconfigurations.



#### **ANSWERS SECTION 4**

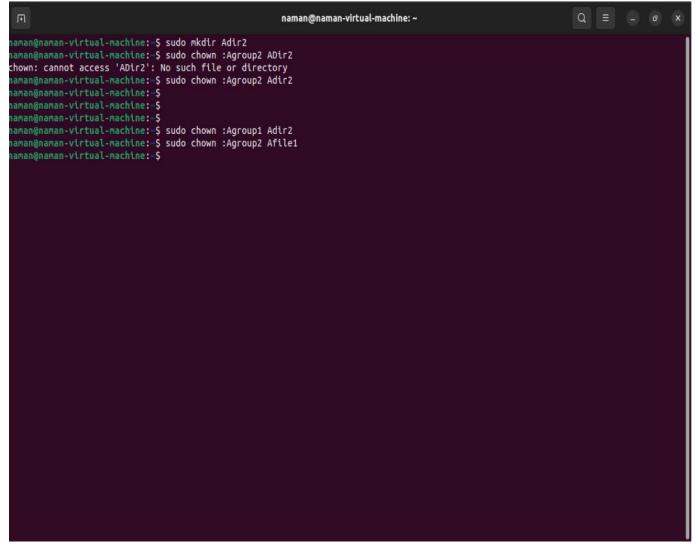
# Ans 1 – Command to change the owner of a file or directory.

The command 'sudo chown new\_owner: new\_file' is used to change the owner of the file.



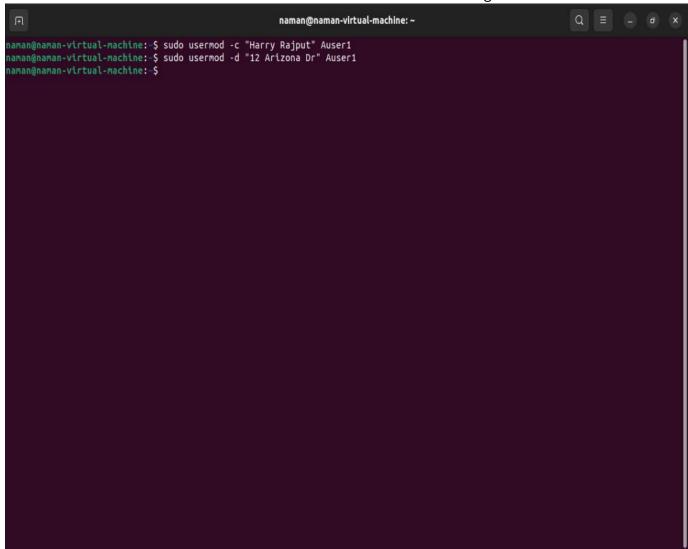
### Ans 2 - Command to change the group ownership of a file or directory.

The command 'sudo chown :new\_group new\_file' is used to change group ownership of a file or directory.



# Ans 3 – Command to change user's full name and other details.

The command 'sudo usermod username' is used to change user's details.



### Ans 4 - Command to display detailed user information.

The commands 'id or w or last username' are used to display detailed user information.

