Lab 1: User and Group Management
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Objective: Create a new group named ivolve and a new user assigned to this group with a secure password. Configure the user's permissions to allow installing Nginx with elevated privileges using the sudo tool (run sudo command for installing nginx without password).

1- configuration user,group
   -create user
          Useradd maher
    - create group
          Groupadd ivolve
    - make the user a member of the group
          Usermod -aG ivolve maher

```
sudo useradd  maher
su - maher
sudo passwd maher
sudo vim /etc/sudoers
su - maher
sudo vim /etc/sudoers
su - maher
sudo vim /etc/sudoers
su - maher
sudo vim /etc/sudoers
sudo usermod -aG ivolve maher
```

2-Modify sudoers file to allow passwordless Nginx installation
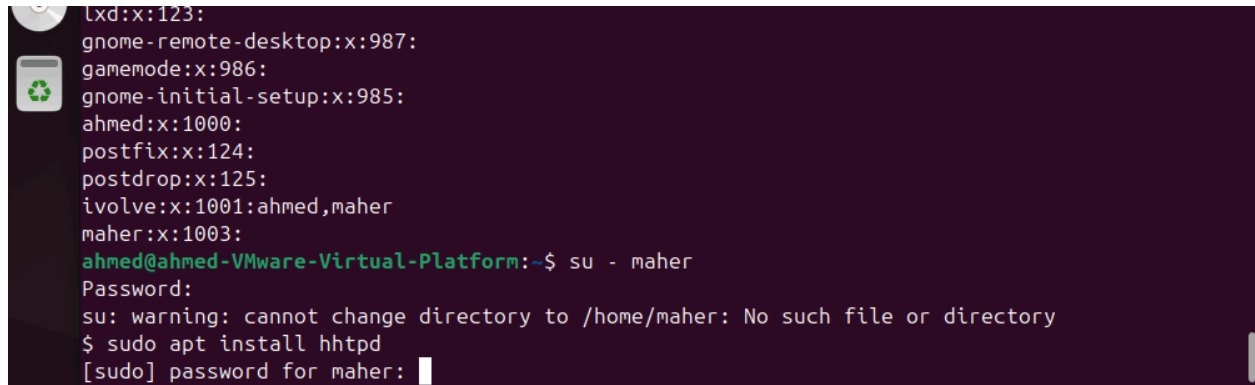   -vim /etc/sudoers:

```
# "sudo scp" or "sudo rsync" should be able to use your SSH agent.
#Defaults:%sudo env_keep += "SSH_AGENT_PID SSH_AUTH_SOCK"

# Ditto for GPG agent
#Defaults:%sudo env_keep += "GPG_AGENT_INFO"

# Host alias specification

# User alias specification

# Cmnd alias specification

# User privilege specification
root    ALL=(ALL:ALL) ALL
maher   ALL=(ALL) NOPASSWD: /usr/bin/apt install nginx


# Members of the admin group may gain root privileges
```

3-run sudo apt install nginx

```
$ sudo apt install nginx
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  nginx-common
Suggested packages:
  fcgiwrap nginx-doc
The following NEW packages will be installed:
  nginx nginx-common
0 upgraded, 2 newly installed, 0 to remove and 201 not upgraded.
Need to get 552 kB of archives.
After this operation, 1,596 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://eg.archive.ubuntu.com/ubuntu noble-updates/main amd64 nginx-common all 1.24.0-2
buntu7.1 [31.2 kB]
Get:2 http://eg.archive.ubuntu.com/ubuntu noble-updates/main amd64 nginx amd64 1.24.0-2ubunt
7.1 [521 kB]
Fetched 552 kB in 2s (229 kB/s)
Preconfiguring packages ...
Selecting previously unselected package nginx-common.
(Reading database ... 151361 files and directories currently installed.)
```

4- must passwd to sudo apt install *
    Such as

```
lxd:x:123:
gnome-remote-desktop:x:987:
gamemode:x:986:
gnome-initial-setup:x:985:
ahmed:x:1000:
postfix:x:124:
postdrop:x:125:
ivolve:x:1001:ahmed,maher
maher:x:1003:
ahmed@ahmed-VMware-Virtual-Platform:~$ su - maher
Password:
su: warning: cannot change directory to /home/maher: No such file or directory
$ sudo apt install hhtpd
[sudo] password for maher:
```