Lab1

57 sudo vim /etc/sudoers.d/ivolve

```
hadeer@hadeer-VMware-Virtual-Platform:~

ivolvehadeer ALL=(ALL) NOPASSWD: /usr/bin/apt install nginx

hadeer@hadeer-VMware-Virtual-Platform:~$ su - ivolvehadeer
Password:
$ sudo apt install nginx
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
nginx is already the newest version (1.24.0-2ubuntu7.1).
0 upgraded, 0 newly installed, 0 to remove and 150 not upgraded.
$
```

Lab 2

```
hadeer@hadeer-VMware-Virtual-Platform: ~
#!/bin/bash
# Define variables
BACKUP_DIR="/backup/mysql"
TIMESTAMP=$(date +%F_%H-%M-%S)
BACKUP_FILE="$BACKUP_DIR/mysql_backup_$TIMESTAMP.sql"
MYSQL_USER="root"
MYSQL_PASSWORD="your_mysql_root_password"
mkdir -p $BACKUP_DIR
mysqldump -u $MYSQL_USER -p$MYSQL_PASSWORD --all-databases > $BACKUP_FILE
gzip $BACKUP_FILE
# Print success message
echo "Backup completed successfully: $BACKUP_FILE.gz"
-- INSERT --
                                                                         21,1
                                                                                        All
```

```
hadeer@hadeer-VMware-Virtual-Platform:~ Q = - □ ×

GNU nano 7.2 /tmp/crontab.vBprIX/crontab * I

# and what command to run for the task

# To define the time you can provide concrete values for
# minute (m), hour (h), day of month (dom), month (mon),
# and day of week (dow) or use '*' in these fields (for 'any').

# Notice that tasks will be started based on the cron's system
# daemon's notion of time and timezones.

#

**Output of the crontab jobs (including errors) is sent through
# email to the user the crontab file belongs to (unless redirected).

#

**For example, you can run a backup of all your user accounts
# at 5 a.m every week with:

**# 0 5 * * 1 tar -zcf /var/backups/home.tgz /home/
0 17 * * 0 /Usr/local/bin/mysql_backup.sh
```

Lab 3

```
hadeer@hadeer-VMware-Virtual-Platform:~$ vim ping_script.sh
```

```
hadeer@hadeer-VMware-Virtual-Platform:~$ ./ping_script.sh
server 172.16.17.0 is unreachable
server 172.16.17.1 is unreachable
server 172.16.17.2 is unreachable
server 172.16.17.3 is unreachable
```

Lab 5

hadeer@control:~\$ hostnamectl set-hostname control

```
hadeer@control:~/.ssh$ vim node01key.pem
hadeer@control:~/.ssh$ ls
authorized_keys config id_rsa id_rsa.pub known_hosts known_hosts.old node01key.pe
hadeer@control:~/.ssh$ # ssh -i ~/.ssh/node01key.pem ubuntu@54.209.156.35
hadeer@control:~/.ssh$ chmod 400 ~/.ssh/node01key.pem
hadeer@control:~/.ssh$ ssh -i ~/.ssh/node01key.pem ubuntu@54.209.156.35
The authenticity of host '54.209.156.35 (54.209.156.35)' can't be established.
ED25519 key fingerprint is SHA256:LfwDNSGLCZr3wRg6grujrucGJ3XdJOMyjc1LvpzBd7c.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '54.209.156.35' (ED25519) to the list of known hosts.
Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.8.0-1021-aws x86_64)
```

ubuntu@ip-172-31-82-123:~\$

hadeer@control:~\$ sudo nano ~/.ssh/config



hadeer@control:~\$ chmod 600 /home/hadeer/.ssh/config

hadeer@control:~\$ ssh node01
Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.8.0-1021-aws x86_64)