

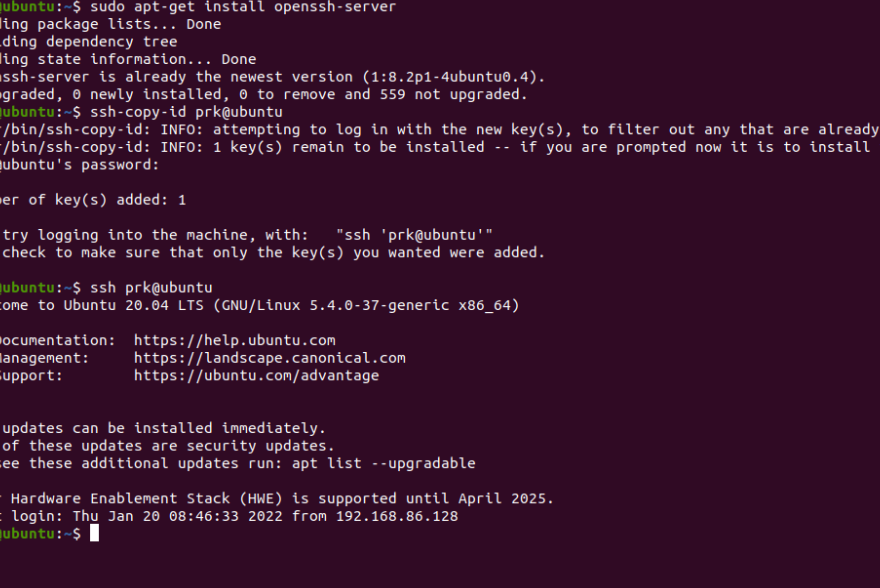
T138 OSTakeHome

1. Generate Public key pair menggunakan algoritma Elipitic Curve Digital Signature Algorithm(ECDSA). Dengan NAR22-1 sebagai password. Menggunakan command : **ssh-keygen -t ecdsa.**

The screenshot shows a terminal window titled "Activities" and "Terminal". The user is logged in as "prk@ubuntu" and is in the directory "~/.ssh". The terminal output shows the following commands and their results:

```
prk@ubuntu:~$ ssh-keygen -t ecdsa
Generating public/private ecdsa key pair.
Enter file in which to save the key (/home/prk/.ssh/id_ecdsa):
/home/prk/.ssh/id_ecdsa already exists.
Overwrite (y/n)? y
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/prk/.ssh/id_ecdsa
Your public key has been saved in /home/prk/.ssh/id_ecdsa.pub
The key fingerprint is:
SHA256:0wRm6JuEqU+0+uEC4EzQM/1TpaGVTLfFaEGeVehSeI8 prk@ubuntu
The key's randomart image is:
+----[ECDSA 256]-----+
| ..+.o.o..          |
| .+..+..           |
|..+.o..+.o..        |
|!+.o.S*...         |
|O=.o.o.o.=...      |
|+.+.o.o.=...E..    |
|.+.+.+.+.+.       |
|!+.+.+.+.+.       |
+----[SHA256]-----+
prk@ubuntu:~$ cd /home/prk/.ssh
prk@ubuntu:~/.ssh$ ls
id_ecdsa id_ecdsa.pub
prk@ubuntu:~/.ssh$ cat id_ecdsa
-----BEGIN OPENSSH PRIVATE KEY-----
b3B1bnNzeC1rZmktdjEAAAACAFpczi1nHsjdhIAAAAGYnyveXBAAAAAAGAAABDRRF8Kda
-wP0HT1PHWZ4WYAAYAAAEAAAEAAABQAAAEZVJZHNLKNoyITibnlzdHAyNTYAAAAIbm1z
dHAyNTYAAABBBDor/jaymwJukoQF7xYSdeUULjUMjuwMc225tItJ4q2rIQTOkMpFGxCtV
1jcMQsqMDxczhqlcSkXt47ohxnAAAAAwycJ0q1165BNRNMvYZ8AVlR/pqFAdpbVBlsh4g
TYcz4uw4KFvNYmoVEBTID0PatScvdze/L+kTDssvbxycaZ/DWtpL7PCWesCst/kJ0Fe/
aoog64Bxbq3pDQLTQmIntpyrtAjcfk4Vr9sq2tTsKGDR2HVFCpu3E9KSyeZLVVQSlnTOWq
/KLqy3HsnJ4j6uJhSUs/TtygzHKPEyVL7JC6F9/y31zWILrfRPJcu2rAI6M=
-----END OPENSSH PRIVATE KEY-----
prk@ubuntu:~/.ssh$ cat id_ecdsa.pub
ecdsa-sha2-nistp256 AAAAE2VjZHNhlLKnOyITibnlzdHAyNTYAAAAIbmlkdHAyNTYAAABBBDor/jaymwJukoQF7xYSdeUULjUMjuwMc225tItJ4q2rIQTOkMpFGxCtV1jcMQsqMDxczhqlcSkX
4tf4ohxn= prk@ubuntu
prk@ubuntu:~/.ssh$
```

2. Connect ke ssh menggunakan key yang dibuat di nomor 1.



```

prk@ubuntu:~$ sudo apt-get install openssh-server
Reading package lists... Done
Building dependency tree
Reading state information... Done
openssh-server is already the newest version (1:8.2p1-4ubuntu0.4).
0 upgraded, 0 newly installed, 0 to remove and 559 not upgraded.
prk@ubuntu:~$ ssh-copy-id prk@ubuntu
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to install the new keys
prk@ubuntu's password:

Number of key(s) added: 1

Now try logging into the machine, with:  "ssh 'prk@ubuntu'"
and check to make sure that only the key(s) you wanted were added.

prk@ubuntu:~$ ssh prk@ubuntu
Welcome to Ubuntu 20.04 LTS (GNU/Linux 5.4.0-37-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

575 updates can be installed immediately.
306 of these updates are security updates.
To see these additional updates run: apt list --upgradable

Your Hardware Enablement Stack (HWE) is supported until April 2025.
Last login: Thu Jan 20 08:46:33 2022 from 192.168.86.128
prk@ubuntu:~$

```

8. Make a bash script to rename .png file to .jpg file with these conditions:

```
#!/bin/bash
if [[ "$@" ]];
then
echo 1
else
for i in "$@"
do
if [[ -f $x ]]
then
if [[ $x.png ]]
then mv "$x" "${i%.png/.jpg}"
fi
else
echo "File doesn't exist"
fi
done
fi
```

12. GitHub Repository T138 Vito Caris Untariady

https://github.com/vitountariady/T138_OSBP.git

15. Display all file types in current directory that only has 3 characters with one command only. (You cannot use find).

File ???.*

16. alias viewfiles= "ll-a"

```
prk@ubuntu:~$ alias ll="ls -A"
prk@ubuntu:~$ ll
1,                               Minotaur},Tasks{Task
2,                               .mozilla
3,                               Music
4}}                             .p2
at                               Pictures
bandits,                        .pki
.bash_history                   .profile
.bash_logout                   Public
.bashrc                         rectangle.sh
.cache                          .ssh
.config                         .sudo_as_admin_successful
Desktop                         .swt
Documents                      Task
Downloads                      Templates
.eclipse                       the
eclipse-workspace              .tooling
.gnupg                          Videos
Kill                            .vscode
{Labours{Defeat                Win
.local                          wrestling,
prk@ubuntu:~$ S
```

20. echo "\$SHELL"

```
prk@ubuntu:~$ echo "$SHELL"
/bin/bash
prk@ubuntu:~$
```