T003 - Jason

OS TakeHome

JAWABAN:

1. Generate private/public key pair using **Elliptic Curve Digital Signature Algorithm** with "NAR22-1" as password.

ssh-keygen -t ecdsa //ssh-keygen adalah alat untuk membuat pasangan kunci otentikasi baru untuk SSH. Pasangan kunci tersebut digunakan untuk mengotomatisasi login, sistem masuk tunggal, dan untuk mengautentikasi host.-t untuk memilih algoritma yang akan digunakan dan ecdsa adalah Elliptic Curve Digital Signature Algorithm yang ingin digunakan.

```
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):
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:ZZAHYleM1rF2KVhprp/nDns+18ClLuh/qkiuDun1SK4 prk@ubuntu
The key's randomart image is:
+---[ECDSA 256]---+
       o +B+o
         .+* 0
     Eo=.+.+0**
    -[SHA256]
prk@ubuntu:~$
```

2. Connect to the server (with your own IP Address and user).

sudo apt update

sudo apt install openssh-server

sudo systemctl status ssh //check apakah openssh-server sudah terinstall

ip a //check ip

ssh user@ip_address //connect to server dengan IP address dan user

```
prk@ubuntu:~$ ssh prk@192.168.215.128
The authenticity of host '192.168.215.128 (192.168.215.128)' can't be established.
ECDSA key fingerprint is SHA256:BL2Br7vHHjiA+wnQjB+JVDGZXS9PE0ve99ZE0IiF8ao.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.168.215.128' (ECDSA) to the list of known hosts.
prk@192.168.215.128's password:
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
```

- 8. Make a bash script to rename .png file to .jpg file with these conditions:
 - The script can accept multiple files.
 - If there are no arguments that are supplied, return 1 as the exit code.
 - By default, the script will use bash.
 - The script can escape spaces in the file name. (e.g., "hello world.png" will become "hello world.jpg").
 - Validate that the file must exists.

#!/bin/bash

for f in *.png; do //mengambil semua file yang memiliki extension png

mv "\$f" "\${f/%.png/.jpg}" //merename file yang memiliki extension png menjadi jpg dengan mv command

done

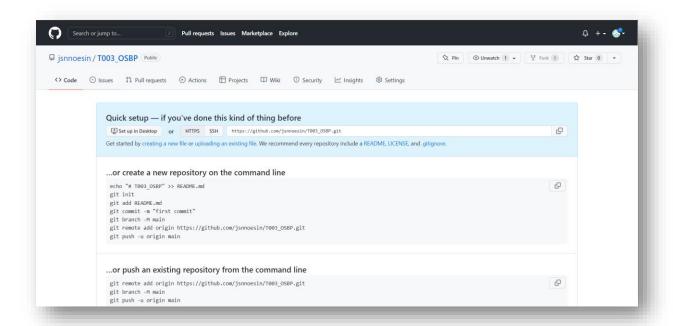
- 12. You have created your scripts, now you need to upload all your **bash scripts** and **explanations**, now you are asked to put it into **Github**. Here are some specifications:
 - Create a **Github Account** with a username that you picked, create a project with format:

TXXX_OSBP

Where:
TXXX: Your trainee number

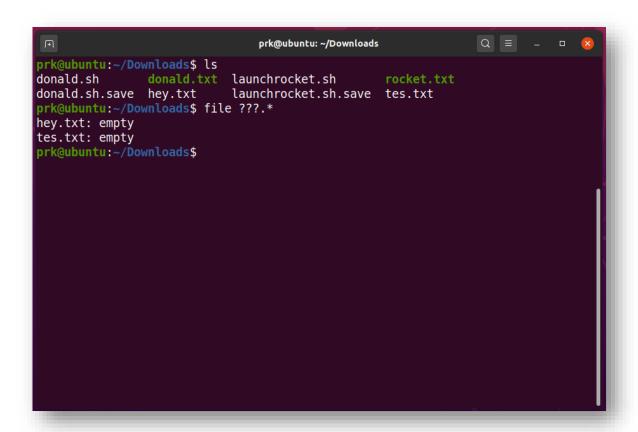
- Set your repository visibility to **public**.
- Create a branch based on:

T003 Jason Github: https://github.com/jsnnoesin/T003 OSBP



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

file ???.* //file menampilkan file dan brief isinya lalu bisa tambahkan extension di belakangnya arti ??? disini berarti 3 kata dan * adalah semua tipe file.



16. Make alias for a command "II" that are used to display all file and hidden file in the directory. (Without current directory and parent directory).

```
prk@ubuntu: ~/Downloads
prk@ubuntu:~/Downloads$ ls
donald.sh
               donald.txt
                            launchrocket.sh
                                                  rocket.txt
donald.sh.save hey.txt
                           launchrocket.sh.save tes.txt
prk@ubuntu:~/Downloads$ alias show='ll -A'
prk@ubuntu:~/Downloads$ show
total 24
                       37 Jan 20 01:22 donald.sh
-rw-rw-r-- 1 prk prk
-rw-rw-r-- 1 prk prk
                     30 Jan 20 01:59 donald.sh.save
-rwxrw-rw- 1 prk prk 1439 Jan 4 20:07 donald.txt*
-rw-rw-r-- 1 prk prk
                      0 Jan 21 11:59 hey.txt
-rw-rw-r-- 1 prk prk
                     200 Jan 20 01:02 launchrocket.sh
-rw----- 1 prk prk
                      95 Jan 20 01:59 launchrocket.sh.save
-rwxrw-rw- 1 prk prk 1303 Jan 3 22:05 rocket.txt*
-rw-rw-r-- 1 prk prk
                      0 Jan 21 11:59 tes.txt
prk@ubuntu:~/Downloads$
```

20. Check what kind of **UNIX Shell** that you use currently with **one command**.

// pada kasus ini UNIX Shell yang digunakan adalah BASH (Bourne Again Shell)
echo "\$SHELL"

