

# Laporan Pemrosesan Paralel

“Instalasi Ubuntu Server dan konfigurasi Apache”



**Disusun Oleh:**

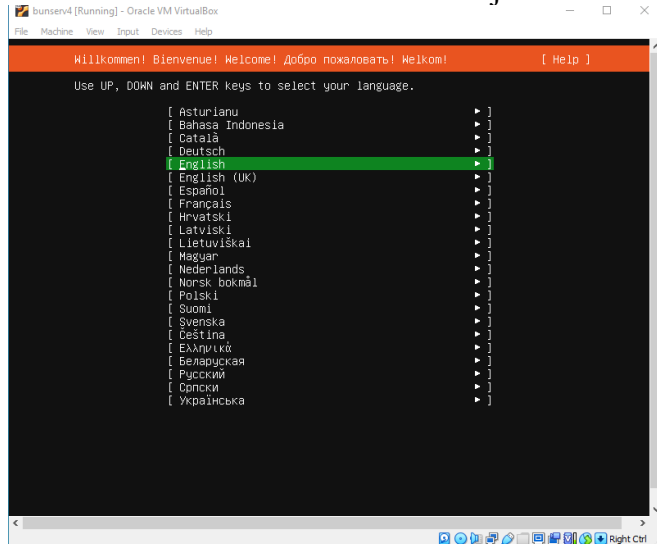
Rizky Ramadhan (09011282227087)

Dosen Pengampu :

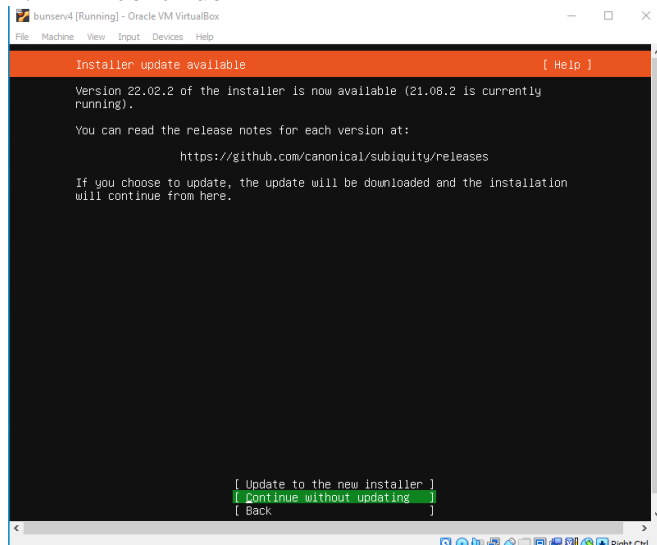
Adi Hermansyah, M.T.

**JURUSAN SISTEM KOMPUTER  
FAKULTAS ILMU KOMPUTER  
UNIVERSITAS SRIWIJAYA  
TAHUN AJARAN 2023/2024**

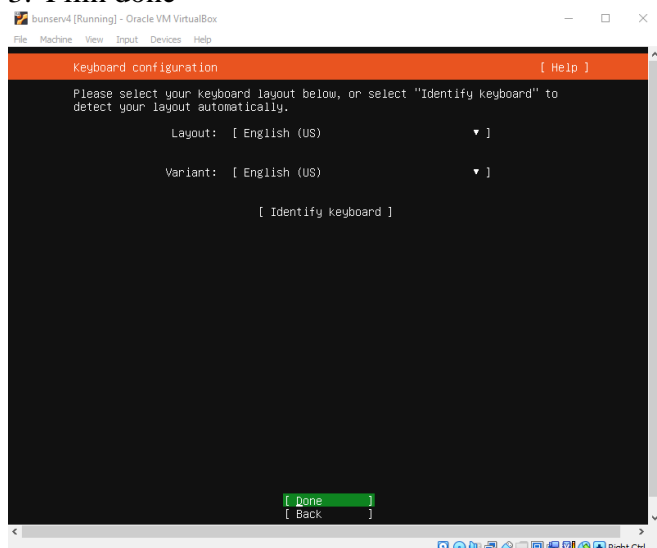
## 1. Setelah mendownload iso dan menjalankan di virtualbox, buka lalu pilih English



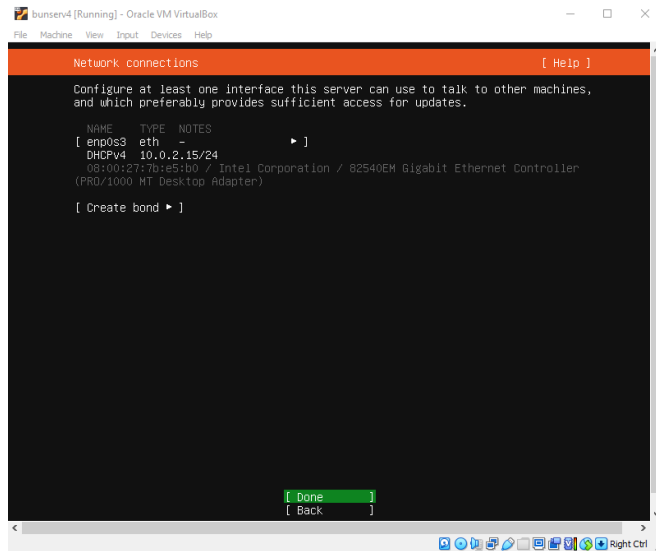
## 2. Pilih continue



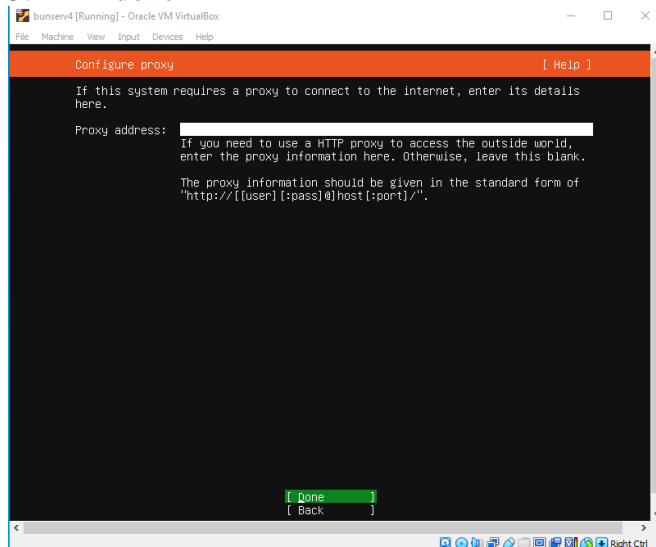
## 3. Pilih done



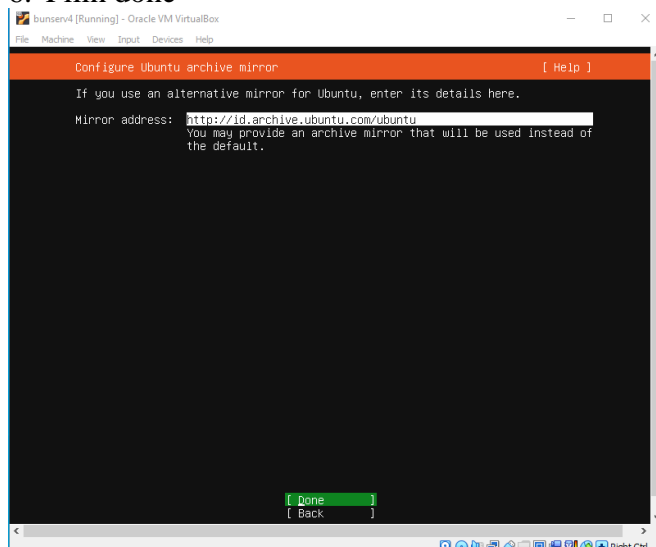
## 4. Pilih done



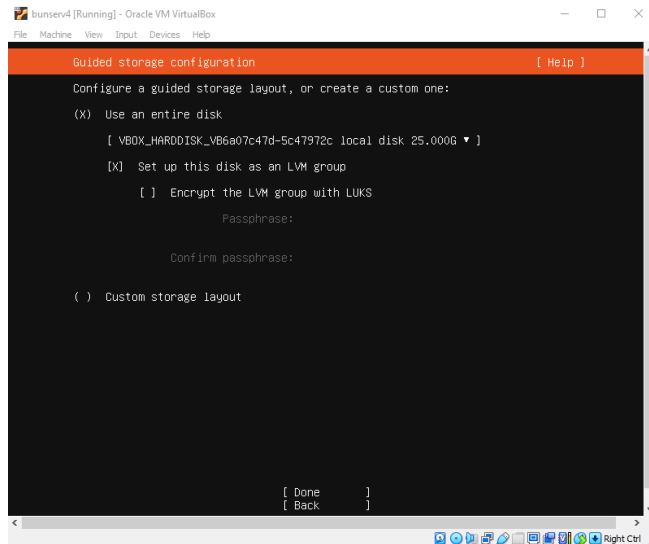
## 5. Pilih done



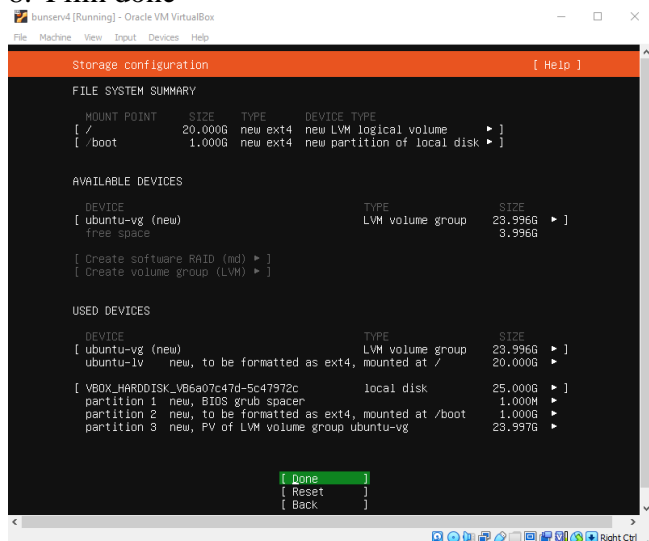
## 6. Pilih done



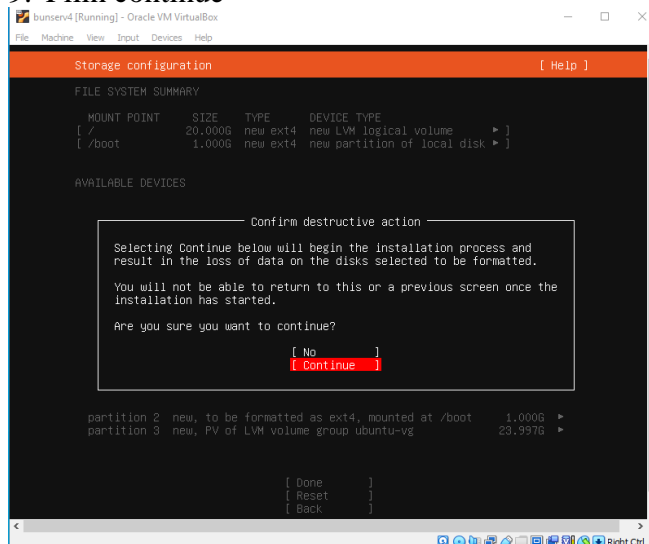
## 7. Pilih done



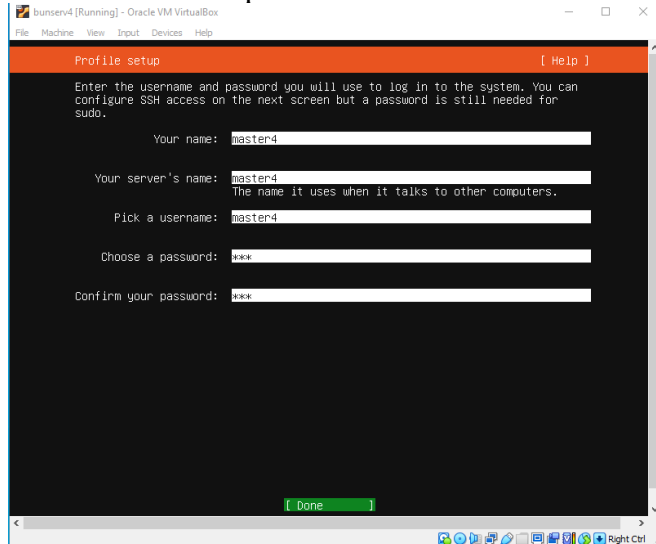
## 8. Pilih done



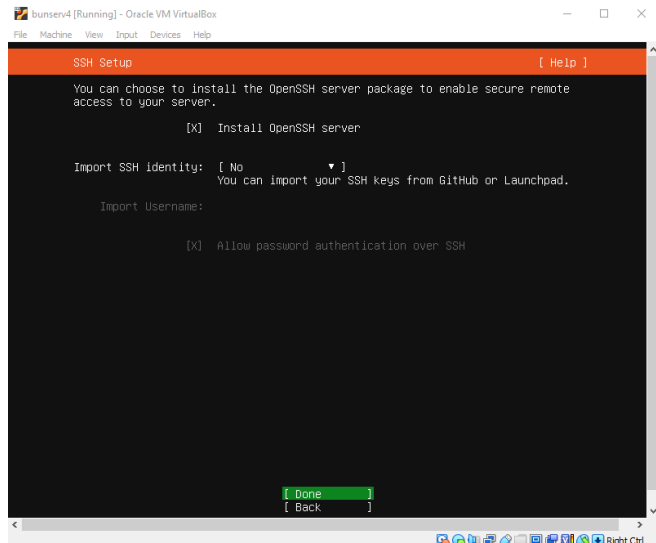
## 9. Pilih continue



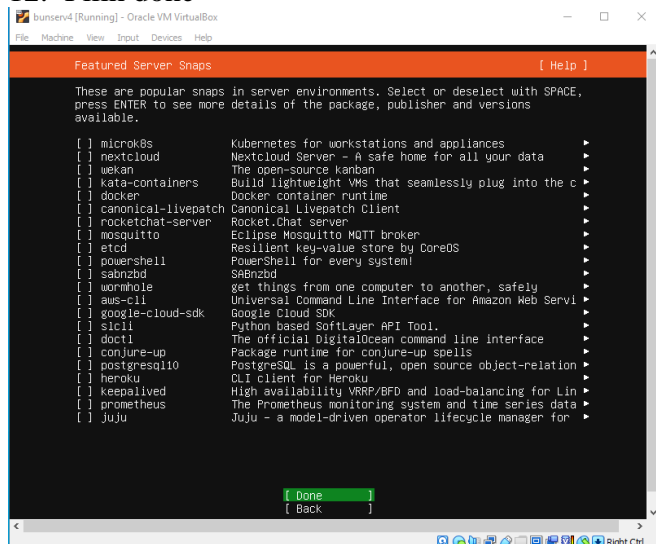
## 10. Set name dan password



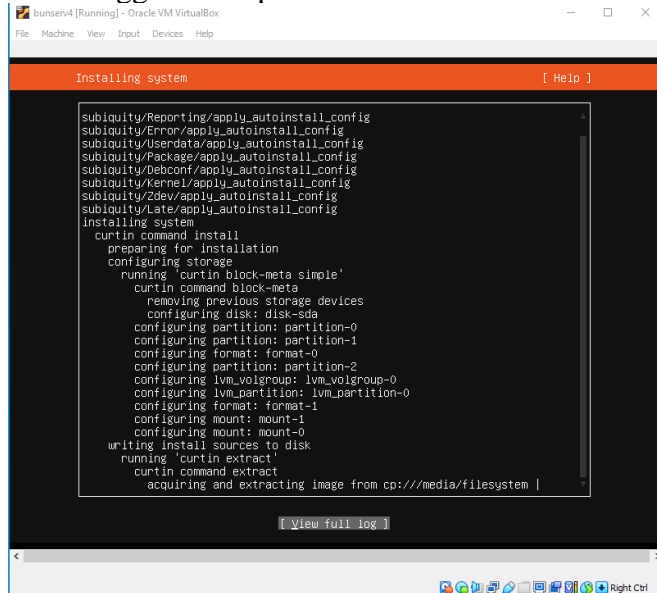
## 11. Pilih done



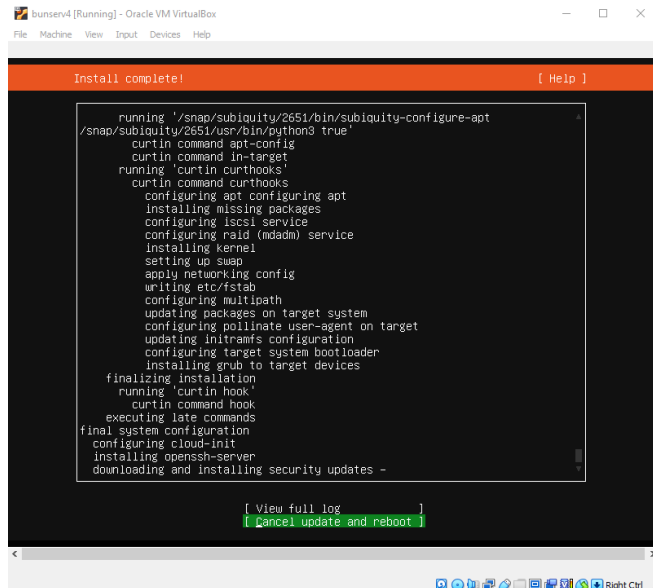
## 12. Pilih done



### 13. Tunggu beberapa menit



### 14. Pilih cancel and reboot



## 15. Setelah reboot masukkan username dan password yang telah dibuat

```
bunserv4 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

ck datasources

Ubuntu 18.04.6 LTS master4 tty1
master4 login: master4
Password:
Welcome to Ubuntu 18.04.6 LTS (GNU/Linux 4.15.0-213-generic x86_64)

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

System information as of Sun Oct 22 16:28:58 UTC 2023

System load:  1.53               Processes:    100
Usage of /:   25.5% of 19.52GB   Users logged in:  0
Memory usage: 4%                IP address for enp0s3: 10.0.2.15
Swap usage:   0%

183 updates can be applied immediately.
151 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

master4@master4:~$ _
```

## 16. Ketik sudo apt update

```
bunserv4 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

183 updates can be applied immediately.
151 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

master4@master4:~$ sudo apt update
[sudo] password for master4:
Hit:1 http://id.archive.ubuntu.com/ubuntu bionic InRelease
Hit:2 http://id.archive.ubuntu.com/ubuntu bionic-updates InRelease
Hit:3 http://id.archive.ubuntu.com/ubuntu bionic-backports InRelease
Hit:4 http://id.archive.ubuntu.com/ubuntu bionic-security InRelease
Get:5 http://id.archive.ubuntu.com/ubuntu bionic/main Translation-en [516 kB]
Get:6 http://id.archive.ubuntu.com/ubuntu bionic/restricted Translation-en [3,584 B]
Get:7 http://id.archive.ubuntu.com/ubuntu bionic/universe Translation-en [4,941 kB]
Get:8 http://id.archive.ubuntu.com/ubuntu bionic/multiverse Translation-en [108 kB]
Get:9 http://id.archive.ubuntu.com/ubuntu bionic-updates/main Translation-en [553 kB]
Get:10 http://id.archive.ubuntu.com/ubuntu bionic-updates/restricted Translation-en [187 kB]
Get:11 http://id.archive.ubuntu.com/ubuntu bionic-updates/universe Translation-en [421 kB]
Get:12 http://id.archive.ubuntu.com/ubuntu bionic-updates/multiverse Translation-en [6,088 B]
Get:13 http://id.archive.ubuntu.com/ubuntu bionic-backports/main Translation-en [14.6 kB]
Get:14 http://id.archive.ubuntu.com/ubuntu bionic-backports/universe Translation-en [8,668 B]
Get:15 http://id.archive.ubuntu.com/ubuntu bionic-security/main Translation-en [467 kB]
Get:16 http://id.archive.ubuntu.com/ubuntu bionic-security/restricted Translation-en [182 kB]
Get:17 http://id.archive.ubuntu.com/ubuntu bionic-security/universe Translation-en [308 kB]
94% [7 Translation-en store 0 B] [17 Translation-en 0 B/308 kB 0%] 853 kB/s 0s
```

## 17. Ketik sudo apt install apache2

```
bunserv4 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

apache2-bin apache2-data apache2-utils libapr1 libaprutil1 libaprutil1-dbd-sqlite3
libaprutil1-ldap liblua5.2-0 ssl-cert
Suggested packages:
  www-browser apache2-doc apache2-suexec-pristine | apache2-suexec-custom openssl-blacklist
The following NEW packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils libapr1 libaprutil1 libaprutil1-dbd-sqlite3
  libaprutil1-ldap liblua5.2-0 ssl-cert
0 upgraded, 10 newly installed, 0 to remove and 182 not upgraded.
Need to get 1,730 kB of archives.
After this operation, 7,000 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://id.archive.ubuntu.com/ubuntu bionic/main amd64 libapr1 amd64 1.6.3-2 [90.9 kB]
Get:2 http://id.archive.ubuntu.com/ubuntu bionic-updates/main amd64 libaprutil1 amd64 1.6.1-2ubuntu0
.1 [84.6 kB]
Get:3 http://id.archive.ubuntu.com/ubuntu bionic-updates/main amd64 libaprutil1-dbd-sqlite3 amd64 1.
6.1-2ubuntu0.1 [10.6 kB]
Get:4 http://id.archive.ubuntu.com/ubuntu bionic-updates/main amd64 libaprutil1-ldap amd64 1.6.1-2ub
untu0.1 [8,752 B]
Get:5 http://id.archive.ubuntu.com/ubuntu bionic/main amd64 liblua5.2-0 amd64 5.2.4-1.1build1 [108 k
B]
Get:6 http://id.archive.ubuntu.com/ubuntu bionic-updates/main amd64 apache2-bin amd64 2.4.29-1ubuntu
4.27 [1,071 kB]
Get:7 http://id.archive.ubuntu.com/ubuntu bionic-updates/main amd64 apache2-utils amd64 2.4.29-1ubun
tu4.27 [83.3 kB]
Get:8 http://id.archive.ubuntu.com/ubuntu bionic-updates/main amd64 apache2-data all 2.4.29-1ubuntu4
.27 [169 kB]
Get:9 http://id.archive.ubuntu.com/ubuntu bionic-updates/main amd64 apache2 amd64 2.4.29-1ubuntu4.27
[95.1 kB]
Get:10 http://id.archive.ubuntu.com/ubuntu bionic/main amd64 ssl-cert all 1.0.39 [17.0 kB]
Fetched 1,730 kB in 2s (863 kB/s)
Preconfiguring packages ...
Selecting previously unselected package libapr1:amd64.
(Reading database ... 67390 files and directories currently installed.)
Preparing to unpack .../0-libapr1_1.6.3-2_amd64.deb ...
Unpacking libapr1:amd64 (1.6.3-2) ...
Progress: [ 25] [ #.....]
```

## 18. Ketik sudo ufw app list untuk mengecek apakah sudah terinstall semua

```
bunserve4 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Usage: ufw COMMAND

Commands:
enable                enables the firewall
disable              disables the firewall
default ARG           set default policy
logging LEVEL         set logging to LEVEL
allow ARGS            add allow rule
deny ARGS             add deny rule
reject ARGS           add reject rule
limit ARGS            add limit rule
delete RULE|NUM       delete RULE
insert NUM RULE       insert RULE at NUM
route RULE            add route RULE
route delete RULE|NUM delete route RULE
route insert NUM RULE insert route RULE at NUM
reload               reload firewall
reset                reset firewall
status               show firewall status
status numbered      show firewall status as numbered list of RULES
status verbose        show verbose firewall status
show ARG             show firewall report
version              display version information

Application profile commands:
app list              list application profiles
app info PROFILE      show information on PROFILE
app update PROFILE    update PROFILE
app default ARG       set default application policy

master4@master4:~$ sudo ufw app list
Available applications:
Apache
Apache Full
Apache Secure
OpenSSH
master4@master4:~$ _
```

## 19. Ketik sudo ufw enable lalu sudo ufw allow in “Apache Full” dan “OpenSSH”

```
bunserve4 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
deny ARGS            add deny rule
reject ARGS           add reject rule
limit ARGS            add limit rule
delete RULE|NUM       delete RULE
insert NUM RULE       insert RULE at NUM
route RULE            add route RULE
route delete RULE|NUM delete route RULE
route insert NUM RULE insert route RULE at NUM
reload               reload firewall
reset                reset firewall
status               show firewall status
status numbered      show firewall status as numbered list of RULES
status verbose        show verbose firewall status
show ARG             show firewall report
version              display version information

Application profile commands:
app list              list application profiles
app info PROFILE      show information on PROFILE
app update PROFILE    update PROFILE
app default ARG       set default application policy

master4@master4:~$ sudo ufw app list
Available applications:
Apache
Apache Full
Apache Secure
OpenSSH
master4@master4:~$ sudo ufw status
Status: active
master4@master4:~$ sudo ufw allow in "Apache Full"
Rule added
Rule added (v6)
master4@master4:~$ sudo ufw allow in "OpenSSH"
Rule added
Rule added (v6)
master4@master4:~$ _
```

## 20. Ketik ifconfig untuk mengetahui ip, jika masih tidak ketemu keluar vm

```
bunserve4 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
app update PROFILE    update PROFILE
app default ARG       set default application policy

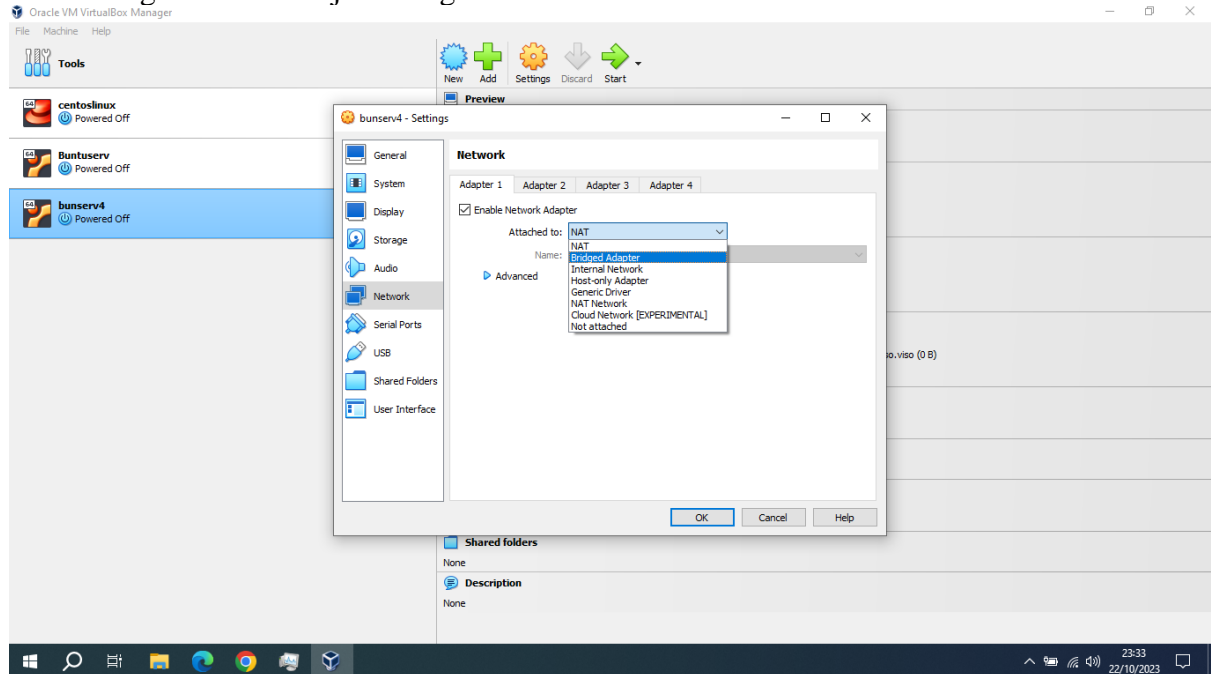
master4@master4:~$ sudo ufw app list
Available applications:
Apache
Apache Full
Apache Secure
OpenSSH
master4@master4:~$ sudo ufw status
Status: active
master4@master4:~$ sudo ufw allow in "Apache Full"
Rule added
Rule added (v6)
master4@master4:~$ sudo ufw allow in "OpenSSH"
Rule added
Rule added (v6)
master4@master4:~$ ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.0.2.15 netmask 255.255.255.0 broadcast 10.0.2.255
    inet6 fe80::a00:27fff:fe7b:e5b0 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:7b:e5:b0 txqueuelen 1000 (Ethernet)
    RX packets 6852 bytes 1011347 (10.1 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 2348 bytes 152762 (152.7 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 192 bytes 16848 (16.8 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 192 bytes 16848 (16.8 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

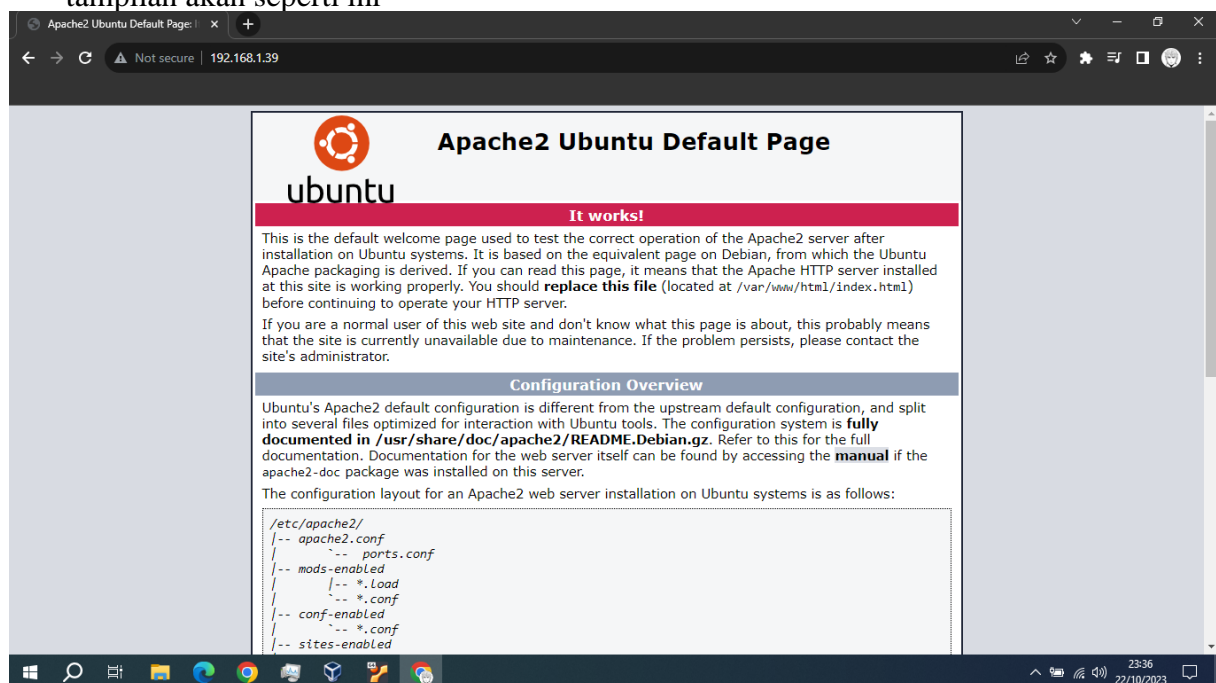
master4@master4:~$
```



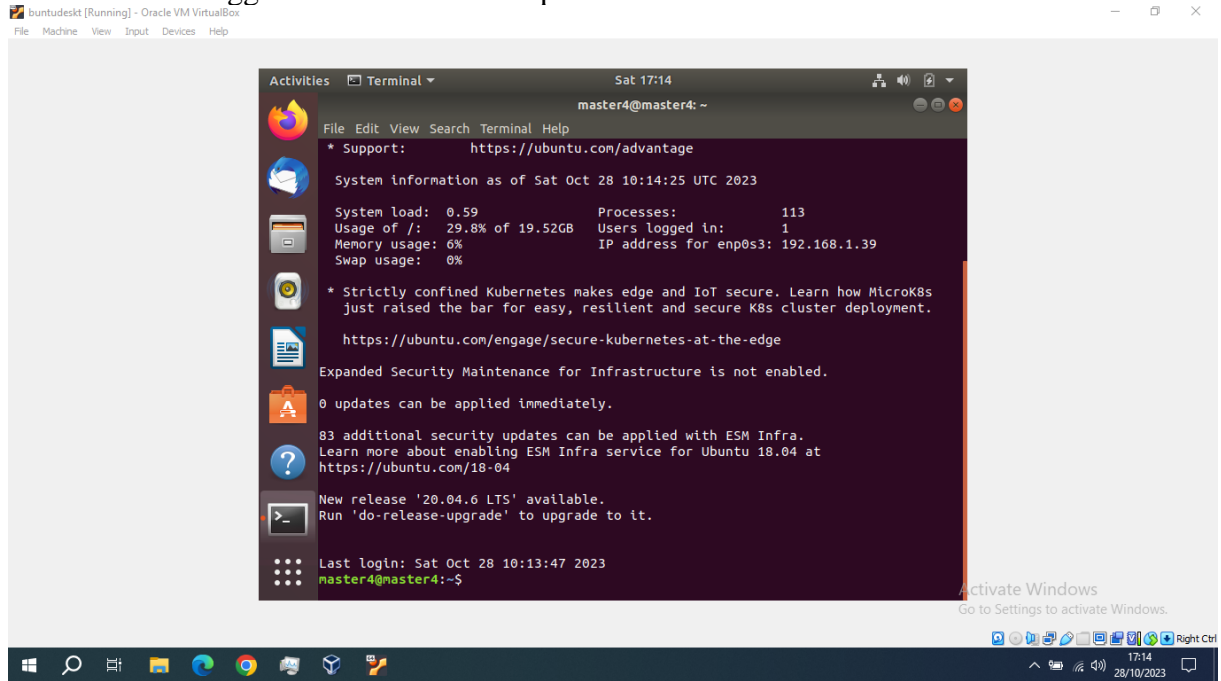
## 21. Setting network menjadi bridge



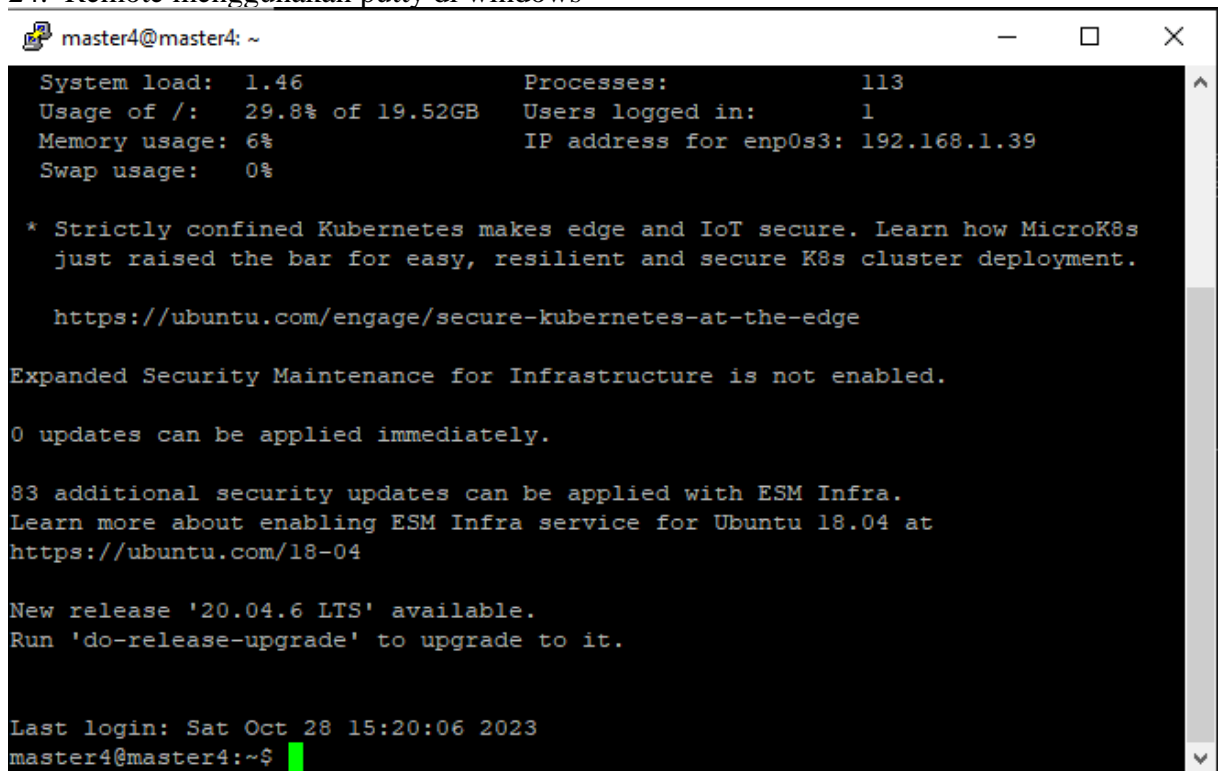
## 22. Login Kembali lalu cek ip dengan ifconfig dan search ip ke chrome, jika berhasil maka tampilan akan seperti ini



## 23. Remote menggunakan ubuntu desktop



## 24. Remote menggunakan putty di windows



## 25. Remote menggunakan cmd windows

```
cs: master4@master4: ~
* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/advantage

System information as of Sat Oct 28 15:21:43 UTC 2023

System load: 0.58      Processes:    113
Usage of /: 29.8% of 19.52GB   Users logged in: 1
Memory usage: 6%      IP address for enp0s3: 192.168.1.39
Swap usage: 0%

* Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s
  just raised the bar for easy, resilient and secure K8s cluster deployment.

  https://ubuntu.com/engage/secure-kubernetes-at-the-edge

Expanded Security Maintenance for Infrastructure is not enabled.

0 updates can be applied immediately.

83 additional security updates can be applied with ESM Infra.
Learn more about enabling ESM Infra service for Ubuntu 18.04 at
https://ubuntu.com/18-04

New release '20.04.6 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

Last login: Sat Oct 28 15:20:48 2023 from 192.168.1.37
master4@master4:~$
```

## 26. Remote menggunakan mobile ssh di handphone

```
22.22
Mobile SSH
Tokopedia
Pakai GoPay Later di Tokopedia bisa nikmati banyak keuntungan. Yuk cobain sekarang BUKA >
Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s
just raised the bar for easy, resilient and secure K8s cluster deployment.

https://ubuntu.com/engage/secure-kubernetes-at-the-edge

Expanded Security Maintenance for Infrastructure is not enabled.

0 updates can be applied immediately.

83 additional security updates can be applied with ESM Infra.
Learn more about enabling ESM Infra service for Ubuntu 18.04 at
https://ubuntu.com/18-04

New release '20.04.6 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

Last login: Sat Oct 28 15:21:45 2023 from 192.168.1.37

123
master4@master4:~$ 123
123: command not found
master4@master4:~$

Tab DN UP Send
```