



PENGANTAR TELEKOMUNIKASI BUAT APLIKASI WORDPRESS DI UBUNTU SERVER



Nama : SRIWAHYUNI
NIM : 09011282025045
Kelas : SK 1 A
Jurusan : Sistem Komputer
Mata Kuliah : Pengantar Telekomunikasi
Dosen Pengampu : ADI HERMANSYAH, S.KOM., M.T.

1. Langkah pertama yaitu menginstall Ubuntu server pada virtual box
 - Klik icon New untuk membuat Virtual Machine. Lakukan konfigurasi seperti nama machine, RAM, dan virtual storage. Lalu tekan buat.


← Create Virtual Machine

Name and operating system

Please choose a descriptive name and destination folder for the new virtual machine and select the type of operating system you intend to install on it. The name you choose will be used throughout VirtualBox to identify this machine.

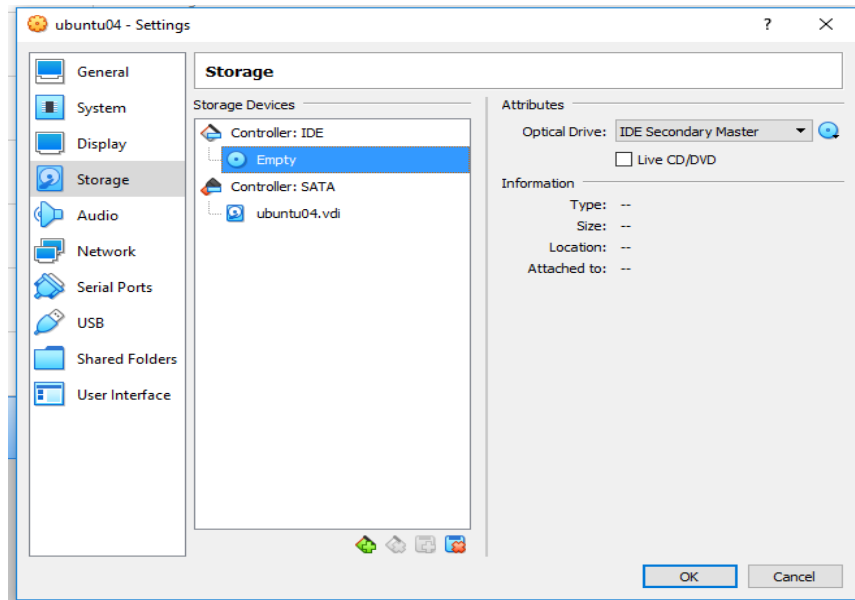
Name:

Machine Folder:

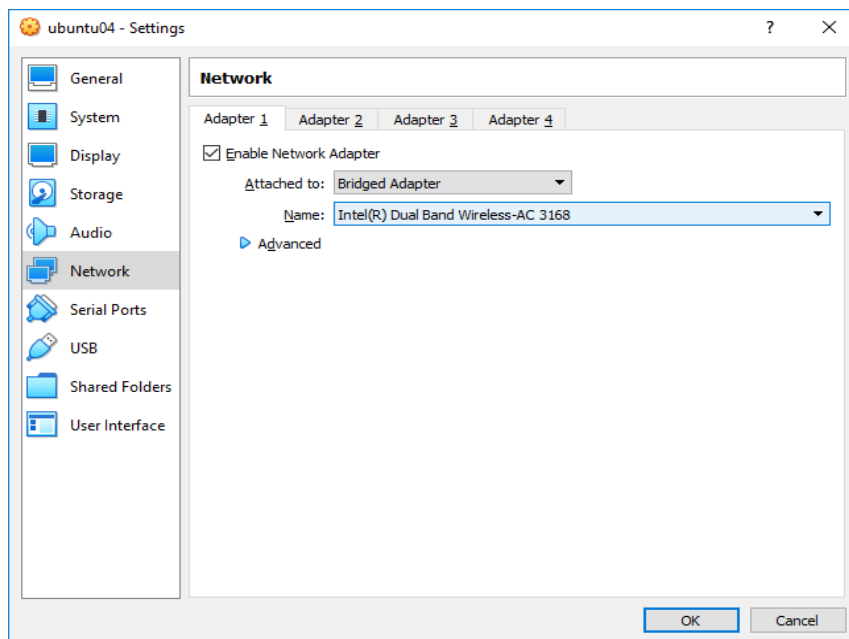
Type: 

Version:

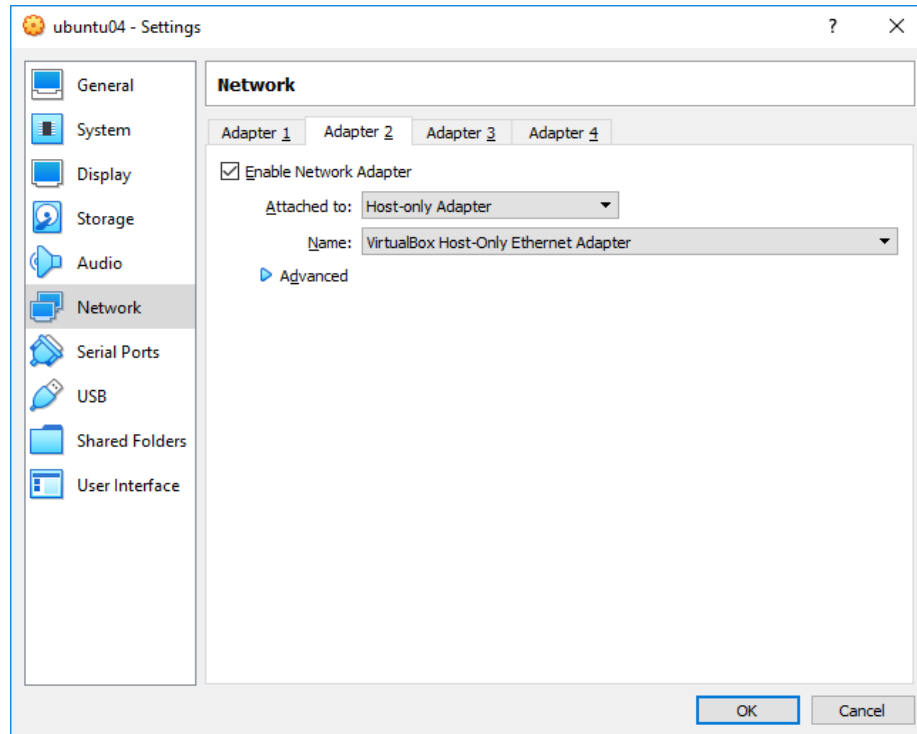
- Pilih icon setting
Masuk ke setting dan tekan “storage” dan pilih empty untuk mencari disk file (file iso).



- Kemudian, pada menu Network dalam setting, di tab adaptor 1 pilih Bridget Adapter



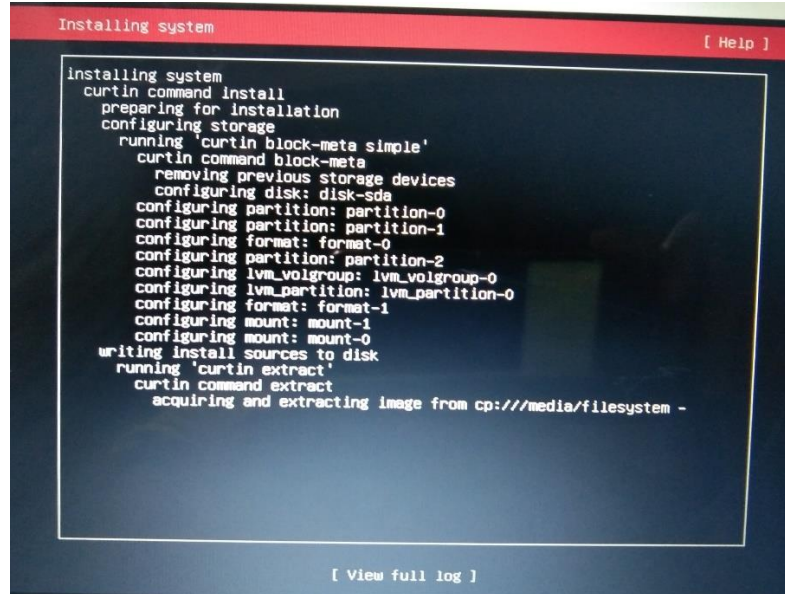
- Pada tab adapter 2 pilih “host-only adapter”.



- Lalu klik tombol start



- Selanjutnya install, terdapat konfigurasi Bahasa yang akan digunakan, kemudian instalation stronge, dan pembuatan account (username, password).
- Selanjutnya menunggu proses instalasi Ubuntu Server. Tunggu sampai proses penginstalan selesai dan timbulnya tulisan “reboot”, kemudian tekan tulisan reboot tersebut.



The screenshot shows a terminal window titled "Installing system" with a red header bar containing "[Help]". The terminal output lists the following steps:

```
installing system
curtin command install
preparing for installation
configuring storage
  running 'curtin block-meta simple'
  curtin command block-meta
    removing previous storage devices
    configuring disk: disk-sda
    configuring partition: partition-0
    configuring partition: partition-1
    configuring format: format-0
    configuring partition: partition-2
    configuring lvm_volgroup: lvm_volgroup-0
    configuring lvm_partition: lvm_partition-0
    configuring format: format-1
    configuring mount: mount-1
    configuring mount: mount-0
writing install sources to disk
running 'curtin extract'
curtin command extract
  acquiring and extracting image from cp:///media/filesystem -
```

[View full log]

- Setelah pengintalasian selesai maka akan mengisi validasi dengan akun yang telah dibuat sebelumnya (login user dan password).



The screenshot shows a terminal window with the following text:

```
Ubuntu 20.04.1 LTS server tty1
server login: sriwahyuni
Password: _
```

- Setelah mengisi validasi maka akan muncul seperti dibawah ini. Lalu, masukkan Ketik “\$ sudo apt-get update” kemudian enter.

```
Ubuntu 20.04.1 LTS server tty1
server login: sriwahyuni
Password:
Welcome to Ubuntu 20.04.1 LTS (GNU/Linux 5.4.0-42-generic x86_64)

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

System information disabled due to load higher than 1.0

 * Introducing self-healing high availability clusters in MicroK8s.
   Simple, hardened, Kubernetes for production, from RaspberryPi to DC.
   https://microk8s.io/high-availability

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

Last login: Sun Nov 29 18:58:50 UTC 2020 from 192.168.43.165 on pts/0
sriwahyuni@server:~$ _
```

- Selanjutnya ketik “sudo apt install net-tools -y, lalu enter. Maka akan muncul gambar seperti dibawah ini.

```
142 updates can be installed immediately.
65 of these updates are security updates.
To see these additional updates run: apt list --upgradable

Last login: Sun Nov 29 18:58:50 UTC 2020 from 192.168.43.165 on pts/0
sriwahyuni@server:~$ sudo apt-get update
[sudo] password for sriwahyuni:
Sorry, try again.
[sudo] password for sriwahyuni:
Hit:1 http://archive.ubuntu.com/ubuntu focal InRelease
Hit:2 http://archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:3 http://archive.ubuntu.com/ubuntu focal-backports InRelease
Hit:4 http://archive.ubuntu.com/ubuntu focal-security InRelease
Reading package lists... Done
sriwahyuni@server:~$ sudo apt install net-tools -y
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
  net-tools
0 upgraded, 1 newly installed, 0 to remove and 134 not upgraded.
Need to get 196 kB of archives.
After this operation, 864 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu focal/main amd64 net-tools amd64 1.60+git20180626.aebd88e-1ub
untu1 [196 kB]
Fetched 196 kB in 5s (36.0 kB/s)
Selecting previously unselected package net-tools.
(Reading database ... 70799 files and directories currently installed.)
Preparing to unpack .../net-tools_1.60+git20180626.aebd88e-1ubuntu1_amd64.deb ...
Unpacking net-tools (1.60+git20180626.aebd88e-1ubuntu1) ...
Setting up net-tools (1.60+git20180626.aebd88e-1ubuntu1) ...
Processing triggers for man-db (2.9.1-1) ...

sriwahyuni@server:~$
sriwahyuni@server:~$
```

- Kemudian, ketik “ifconfig”, lalu tekan tombol enter. Kemudian ketik “sudo apt install opens-server -y” Gambarnya seperti dibawah ini.


```
ether 08:00:27:c0:5b:d0 txqueuelen 1000 (Ethernet)
RX packets 541 bytes 99065 (99.0 KB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 278 bytes 31938 (31.9 KB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

enp0s9: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
inet 192.168.56.107 netmask 255.255.255.0 broadcast 192.168.56.255
inet6 fe80::a00:27ff:feea:78a1 prefixlen 64 scopeid 0x20<link>
ether 08:00:27:ea:78:a1 txqueuelen 1000 (Ethernet)
RX packets 261 bytes 25940 (25.9 KB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 19 bytes 2466 (2.4 KB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

enp0s10: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
inet 10.0.5.15 netmask 255.255.255.0 broadcast 10.0.5.255
inet6 fe80::a00:27ff:fe05:f551 prefixlen 64 scopeid 0x20<link>
ether 08:00:27:05:f5:51 txqueuelen 1000 (Ethernet)
RX packets 56089 bytes 80687644 (80.6 MB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 15562 bytes 952749 (952.7 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 154 bytes 13022 (13.0 KB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 154 bytes 13022 (13.0 KB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

sriwahyuni@server:~$ ssh sriwahyuni@192.168.56.107
The authenticity of host '192.168.56.107 (192.168.56.107)' can't be established.
ECDSA key fingerprint is SHA256:3kSR5r//qIub6FXdm8XbeziAHpndHWRUbuH1je1NJNU.
Are you sure you want to continue connecting (yes/no/[fingerprint])? -
```

- Kemudian ketik “ssh user@ip” misalnya seperti punya saya yaitu “ssh sriwahyuni@192.168.56.107” seperti gambar terlampir.

```
loop txqueuelen 1000 (Local Loopback)
RX packets 154 bytes 13022 (13.0 KB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 154 bytes 13022 (13.0 KB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

sriwahyuni@server:~$ ssh sriwahyuni@192.168.56.107
The authenticity of host '192.168.56.107 (192.168.56.107)' can't be established.
ECDSA key fingerprint is SHA256:3kSR5r//qIub6FXdm8XbeziAHpndHWRUbuH1je1NJNU.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.168.56.107' (ECDSA) to the list of known hosts.
Welcome to Ubuntu 20.04.1 LTS (GNU/Linux 5.4.0-42-generic x86_64)

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

System information as of Mon 30 Nov 2020 10:05:21 AM UTC

System load:  0.15           Users logged in:  1
Usage of /:   20.1% of 19.56GB IPv4 address for enp0s10: 10.0.5.15
Memory usage: 23%           IPv4 address for enp0s3: 192.168.43.165
Swap usage:   0%            IPv4 address for enp0s9: 192.168.56.107
Processes:    98

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To see these additional updates run: apt list --upgradable

Last login: Mon Nov 30 09:45:29 2020
sriwahyuni@server:~$
```

- Selanjutnya, ketik “ssh-keygen -t rsa” lalu enter. Kemudian ketik juga “ssh-copy-id user@serverip”, lalu enter juga. Kemudian ketik juga “sudo apt install apache2”. Bisa dilihat juga pada gambar terlampir.

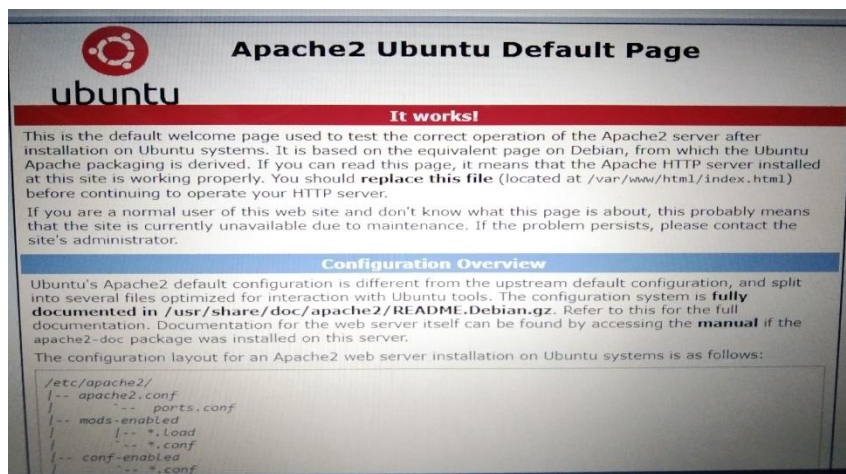
```
* Introducing self-healing high availability clusters in MicroK8s.
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142 updates can be installed immediately.
65 of these updates are security updates.
To see these additional updates run: apt list --upgradable

Last login: Mon Nov 30 09:45:29 2020
sriwahyuni@server:~$ ssh-keygen -t rsa
Generating public/private rsa key pair.
Enter file in which to save the key (/home/sriwahyuni/.ssh/id_rsa):
```

- Lalu ketik ip di browser, sebagai contoh ip saya yaitu “192.168.56.107” misalnya pada gambar berikut.



- Selanjutnya, kembali ke terminal Ubuntu tadi dengan mengetik “cd /var/www/html”, lalu ketik juga “sudo nano sriwahyuni.html” (punya saya).
- Kemudian ketik

```
<html>
<center><h1>TUGAS PENGANTAR TELEKOMUNIKASI</h1></center>
<center><h1>namauser</h1></center>
<center><h2>SK1A INDRALAYA</h2></center>
<center><h2>ADI HERMANSYAH, M.KOM.</h2></center>
</html>
```

```
<html>
<center><h1>TUGAS PENGANTAR TELEKOMUNIKASI</h1></center>
<center><h1>sriwahyuni</h1></center>
<center><h2>SK1A INDRALAYA</h2></center>
<center><h2>ADI HERMANSYAH, M.KOM.</h2></center>
</html>
```



- Kemudian, klik “ctrl + x” jika sudah timbul tulisan yes maka ketik “Y” lalu enter. Kemudian ketik juga “ls”.

A terminal window showing a command prompt. The prompt is 'sriwahyuni@server:/var/www/html\$'. The user has entered 'ls' and the output is 'index.html sriwahyuni.html'. The prompt is now 'sriwahyuni@server:/var/www/html\$ _'.

- Buka browser (chrome) ketik [http:// ipAdress//user.html](http://192.168.43.107/sriwahyuni.html), sebagai contoh punya saya yaitu “[http:// 192.168.43.107/sriwahyuni.html](http://192.168.43.107/sriwahyuni.html)”.

