## LAPORAN MEMBUAT WEB SERVER DI UBUNTU SERVER DENGAN VIRTUAL BOX



## **DISUSUN OLEH:**

NAMA: NUR ALDILLAH CHUMAIROH

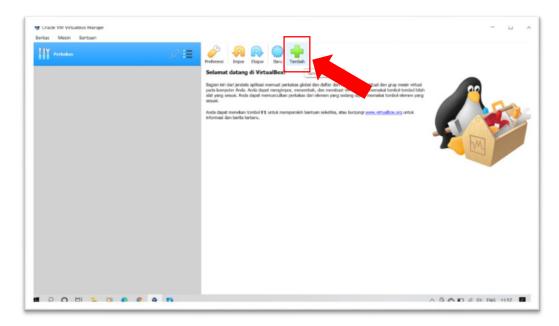
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KELAS: SK1B INDRALAYA

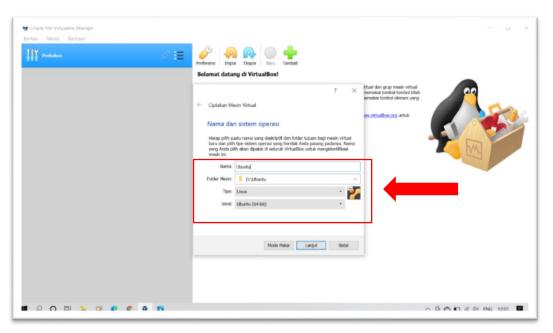
JURUSAN SISTEM KOMPUTER
FAKULTAS ILMU KOMPUTER
UNIVERSITAS SRIWIJAYA

## Cara membuat web server di Ubuntu 20.04 dengan VirtualBox

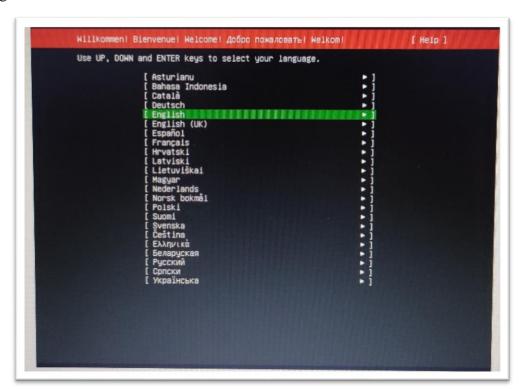
- 1. Buat new folder dengan nama Ubuntu.
- 2. Pada panel sebelah kiri terdapat daftar Virtual Machine. Virtual Machine adalah mesin virtual yang telah diinstal OS, jika anda membuka virtualbox pertama kali, panel tersebut akan kosong. Klik tombol **New** (baru) untuk menambahkan Virtual Machine baru.



3. Isilah nama, folder name, type dan versi OS yang akan diinstall. Jika sudah tekan next (lanjut).



- 4. Kita dapat menentukan seberapa besar memory yang akan dipakai, lokasi dan ukuran berkas.
- 5. Pada hard disk pilih *create a virtual hard disk now* dan ketika di hard disk file type, pilih *VDI* (*virtualBox Disk Image*).
- 6. Di Storage on physical hard disk pilih *Dynamcaly allocated*. Lalu, klik Create.
- 7. Kemudian pada menu network (Jaringan) di setting. Pilih adapter 1 "*Bridge adapter*" dan pada adapter 2 "*NAT*".
- 8. Klik **Start** untuk memulai Ubuntu servernya.
- 9. Lakukan instalasi seperti software pada umumnya. Kemudian, pilih bahasa yang akan digunakan.



- 10. Untuk dibagian proxy kosongkan saja lalu klik done.
- 11. Isilah dibagian your name, your server name, pick a username, choose a password, confirm your password. Kemudian, tekan Done jika sudah selesai.



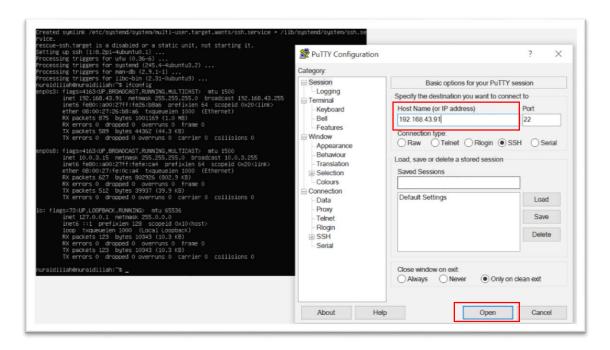
12. Proses instalasi sedang berjalan, silahkan tunggu hingga proses selesai. Lalu, klik Reboot.



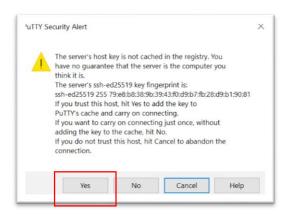
13. Setelah selesai, login menggunakan username dan password yang telah kita buat tadi.

- 14. Ketik "sudo apt install net-tools" lalu enter. Kemudian, ketik "sudo apt-get install ssh."
- 15. Jalankan perintah "ifconfig". Catat IP address yang digunakan. Disini IP address yang didapatkan adalah **192.168.43.91**.

16. Buka Putty. Kemudian, masukkan **192.168.43.91** di host name (IP address). Lalu klik Open.

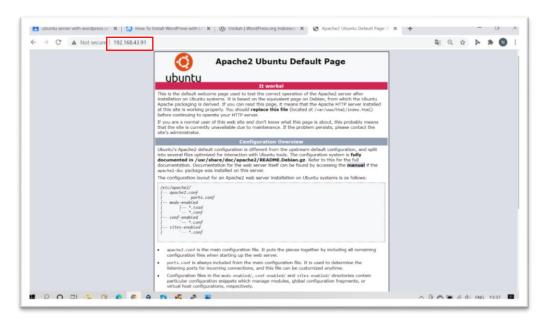


17. Jika muncul seperti gambar di bawah ini, tekan Yes.



18. Login menggunakan nama user Ubuntu server dan password. Kemudian tekan Enter. Ketik "**ping 192.168.43.91**."

19. Selanjutnya, ketik "**sudo apt install apache2**" lalu cek di web browser (Chrome, Mozilla, Opera dll) menggunakan IP Address Server **192.168.43.91.** Kemudian akan muncul page default apache2 seperti ini.



- 20. Install mysql pada Ubuntu server untuk database server yang berguna untuk menyimpan dan mengolah data yang nantinya digunakan pada sebuah website.
  - Ketik "sudo apt install mysql-server" lalu ketik "Y" untuk melanjutkan proses penginstalan.



• Cek servis mysql dengan mengetik "sudo systemctl status mysql."

- 21. Install php pada Ubuntu Server yang digunakan untuk membangun aplikasi berbasis web.
  - 1) Ketik "apt-get install php".
  - 2) Ketik "cd /var/www/html".
  - 3) Ketik "nano phpinfo.php".

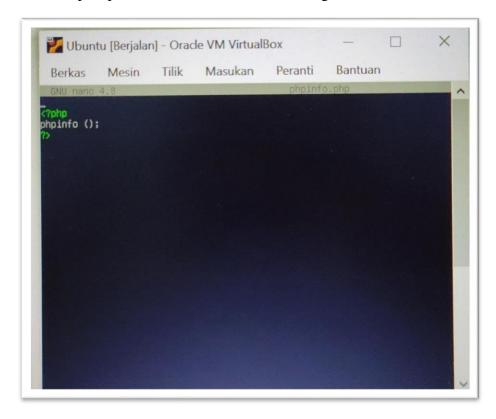
```
cotenuraldillah:/home/nuraldillah# ifconfig
rmp0s3: flags=4163(UP,BROADCAST,RUNNING,MULTICAST) mtu 1500
inet 192.168.43.91 netmask 255.255.0 broadcast 192.168.43.255
inet6 fe80::a00:27:65:b886 prefixlen 64 scopeid 0x20inet 620:27:26:b881 abt txqueulen 1000 (Ethernet)
RX packets 4963 bytes 5438033 (5.4 MB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 2551 bytes 257664 (257.6 KB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

enp0s8: flags=4163(UP,BROADCAST,RUNNING,MULTICAST) mtu 1500
inet 10.0.3.15 netmask 255.255.255.0 broadcast 10.0.3.255
inet6 fe80::a00:27:ff:fee:ca4 prefixlen 64 scopeid 0x20inet 1680::a00:27:ff:fee:ca4 prefixlen 64 scopeid 0x20RX packets 25780 bytes 34753499 (34,7 MB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 12634 bytes 774908 (774.9 KB)
TX errors 0 dropped 0 overruns 0 frame 0
TX packets 169 bytes 14693 (14.6 KB)
RX errors 0 dropped 0 overruns 0 earrier 0 collisions 0

10: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
inet 127.0.0.1 netmask 255.0.0.0
inet6 ::1 prefixlen 128 scopeid 0x10
RX packets 169 bytes 14693 (14.6 KB)
TX errors 0 dropped 0 overruns 0 carrier 0
TX packets 169 bytes 14693 (14.6 KB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

root@nuraldillah:/home/nuraldillah/apt-get install php
Reading package lists... Done
Building dependency tree
Reading state information... Done
php is already the newest version (2:7.4+75).
O ungraded. O newly installed. O to remove and 78 not upgraded.
root@nuraldillah:/home/nuraldillah/d d/var/www/html
root@nuraldillah:/home/nuraldillah/d d/var/www/html
root@nuraldillah:/home/nuraldillah/d d/var/www/html
root@nuraldillah:/home/nuraldillah/d d/var/www/html
root@nuraldillah:/home/nuraldillah/d d/var/www/html
root@nuraldillah:/home/nuraldillah/d d/var/www/html
```

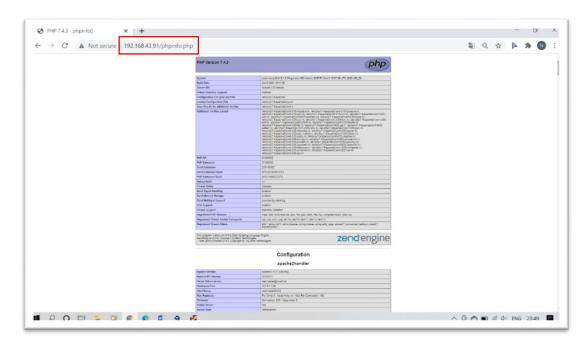
22. Kemudian isi script seperti di bawah ini. Lalu, save dengan menekan ctrl + x.



23. Restart apache dengan mengetik "systemctl restart apache2.service"

```
cot@nuraldillah:/var/wwww/html# systemctl restart apache2.service
cot@nuraldillah:/var/wwww/html# apt-get install phpmyadmin
reading package lists... Done
weading between the following additional packages will be installed:
dbconfig-common dbconfig-mysql fontconfig-config fonts-dejavu-core icc-profiles-free
javascript-common libfontconfig1 libgd3 libjbig0 libjpeg-turbo8 libjpeg8 libjs-japery
libjs-spinixdoc libjs-underscore libonig5 libtiff5 libwebp6 libxpm4 libzip5
php-bz2 php-curl php-gd php-google-recaptcha php-mbstring php-phpmyadmin-motranslator
php-phpmyadmin-sapefile php-phpmyadmin-sql-parser php-phpsclib dhp-psr-cache php-psr-container
php-symfony-service-contracts php-symfony-cache-contracts php-symfony-expression-language
php-symfony-service-contracts php-symfony-var-exporter php-tcpdf php-tulg-extensions
php-min php-zlp php7.4-bz2 php7.4-curl php7.4-gd php7.4-mbstring php7.4-xml php7.4-zip
Suggested packages:
libgd-tools php-dbase php-libsodium php-mcrypt php-gmp php-symfony-service-implementation
php-imagick php-tulg-doc php-symfony-translation www-browser php-recode php-gd2
php-ncrypt
The following NEW packages will be installed:
dbconfig-common dbconfig-mysql fontconfig-config fonts-dejavu-core icc-profiles-free
javascript-common libfontconfig1 libgd3 libjbig0 libjpeg-turbo8 libjpeg8 libjs-jquery
libjs-openlayers libjs-sphinxdoc libjs-underscore libonig5 libiff5 libwebp6 libxm4 libzip5
php-bz2 php-curl php-gd php-google-recaptcha php-mbstring php-phpmyadmin-motranslator
php-phpmyadmin-shpefile php-phpmyadmin-sql-parser php-phpsecilib php-psr-cache php-psr-container
php-psr-log php-symfony-cache php-symfony-cache-contracts php-symfony-expression-language
php-symfony-service-contracts php-symfony-cache-contracts php-symfony-cache php-phpmyadmin-motranslator
ouppraded, 49 newly installed, 0 to remove and 78 not upgraded.
Need to get 17.7 MB of archives.
After this operation, 77.1 MB of additional disk space will be used.
```

24. Test php di google dengan [alamat IP/phpinfo.php].



25. Kemudian, Install phpmyadmin dengan mengetik "**apt-get install phpmyadmin**". Lalu enter.

```
lo: flags=73<UP,LODPBACK,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 175 bytes 15359 (15.3 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 175 bytes 15359 (15.3 KB)
    TX errors 0 dropped 0 overruns 0 frame 0
    TX packets 175 bytes 15359 (15.3 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

root@nuraldillah:/var/wwww/html# apt-get install phpmyadmin
Reading package lists... Done
Building dependency tree
Reading state information... Done
Phpmyadmin is already the newest version (4:4.9.5+dfsg1-2).
0 upgraded, 0 newly installed, 0 to remove and 78 not upgraded.
root@nuraldillah:/var/www/html# sudo ln -s /etc/phpmyadmin/apache.conf /etc/apache2/conf-available/phpmyadmin.conf
In: failed to create symbolic link '/etc/apache2/conf-available/phpmyadmin.conf
In: failed to
```

Jika sudah install tapi eror untuk versi Ubuntu 20.04, maka harus di aktifkan terlebih dahulu dengan cara mengetik:

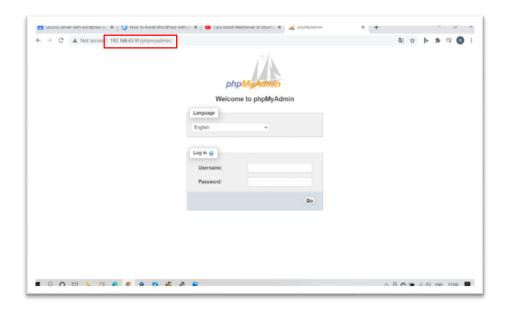
- sudo ln –s /etc/phpmyadmin/apache.conf /etc/apache2/confavailable/phpmyadmin.conf
- sudo a2enconf phpmyadmin
- sudo service apache2 reload

```
o: flags=73<UP,LOOPBACK,RUNNING) mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10chost)
    loop txqueuelen 1000 (Local Loopback)
    RX packets 175 bytes 15359 (15.3 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 175 bytes 15359 (15.3 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

root@nuraldillah:/var/wwww/html# apt-get install phpmyadmin
Reading package lists... Done
Building dependency tree
Reading state information... Done
ohpmyadmin is already the newest version (4:4.9.5+dfsg1-2).
0 upgraded, 0 newly installed, 0 to remove and 78 not upgraded.
root@nuraldillah:/var/wwww/html# sudo In -s /etc/phpmyadmin/apache.conf /etc/apache2/conf-available/phpmyadmin.conf
In: failed to create symbolic link '/etc/apache2/conf-available/phpmyadmin.conf
In: failed to create symbolic link '/etc/apache2/conf-available/phpmyadmin.conf
In: failed to create symbolic link '/etc/apache2/conf-available/phpmyadmin.conf': File exists
root@nuraldillah:/var/wwww/html# sudo su
root@nuraldillah:/var/wwww/html# sudo su
root@nuraldillah:/var/wwww/html# apt-get install phpmyadmin
Reading package lists... Done
Building dependency tree
Reading state information... Done
bhpmyadmin is already the newest version (4:4.9.5+dfsg1-2).
0 upgraded, 0 newly installed, 0 to remove and 78 not upgraded.
root@nuraldillah:/var/www/html# sudo In -s /etc/phpmyadmin/apache.conf /etc/apache2/conf-available/phpmyadmin is already the newest version (4:4.9.5+dfsg1-2).
0 upgraded, 0 newly installed, 0 to remove and 78 not upgraded.
root@nuraldillah:/var/www/html# sudo In -s /etc/phpmyadmin/apache.conf /etc/apache2/conf-available/phpmyadmin.conf
root@nuraldillah:/var/www/html# sudo In -s /etc/phpmyadmin
Frabling conf phpmyadmin, conf
root@nuraldillah:/var/www/html# sudo In -s /etc/phpmyadmin
Frabling conf phpmyadmin, conf
root@nuraldillah:/var/www/html# sudo In -s /etc/apache2 reload
root@nuraldillah:/var/www/html# sudo In -s /etc/apache2 reload
root@nuraldillah:/var/www/html# sudo In -s /etc
```

26. Kemudian kita bisa tes masuk ke mysql dengan mengetik "**mysql –u root –p**" kemudian exit jika sudah selesai.

27. Test di browser host dengan mengetik [alamat IP/phpmyadmin] dan akan muncul seperti gambar di bawah.



- 28. Selanjutnya, kita akan membuat web sederhana.
  - 1) Buka direktori dengan mengetik "cd /var/www/html/" lalu tekan enter.
  - 2) Ketik:
    - # mkdir (nama web)
    - # cd (nama web)
    - # touch index.html
- 29. Kemudian, ketik "**nano index.html**". Kita akan di arahkan untuk membuat file HTML. Jika sudah selesai, save menggunakan ctrl + x.

```
html>
head>
title>Pengantar Telekomunikasi</title>
//head>
body>
center> thi style="color:orange">PENGANTAR TELEKOMUNIKASI</hi>
//head>
body>
center> thi style="color:orange">UNIVERSITAS SRIKIJAYA</hi>
//hi>
//center>
center> thi style="color:orange">UNIVERSITAS SRIKIJAYA</hi>
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cyle="color:orange">UNIVERSITAS SRIKIJAYA</hr>
//color:orange">UNIVERSITAS SRIKIJAYA</h>
//color:orange">UNIVERSITAS SRIKI
```

30. Kita perlu merestart apache2 dengan mengetik "# service restart apache2" dan "# service apache2 restart".



31. Selanjutnya, kita bisa cek di browser dengan mengetik [IP/(nama web yang sudah dibuat tadi)] dan hasilnya akan seperti di bawah ini.

