

BAB IV

DISKRIPSI KERJA PRAKTIK

Bab ini membahas tentang proses instalasi VMWare *Workstation* dan *Zimbra Collaboration Suite* dengan menampilkan hasil pembuatan *mail server* yang telah dikerjakan.

4.1 Instalasi VMWare *Workstation* 10

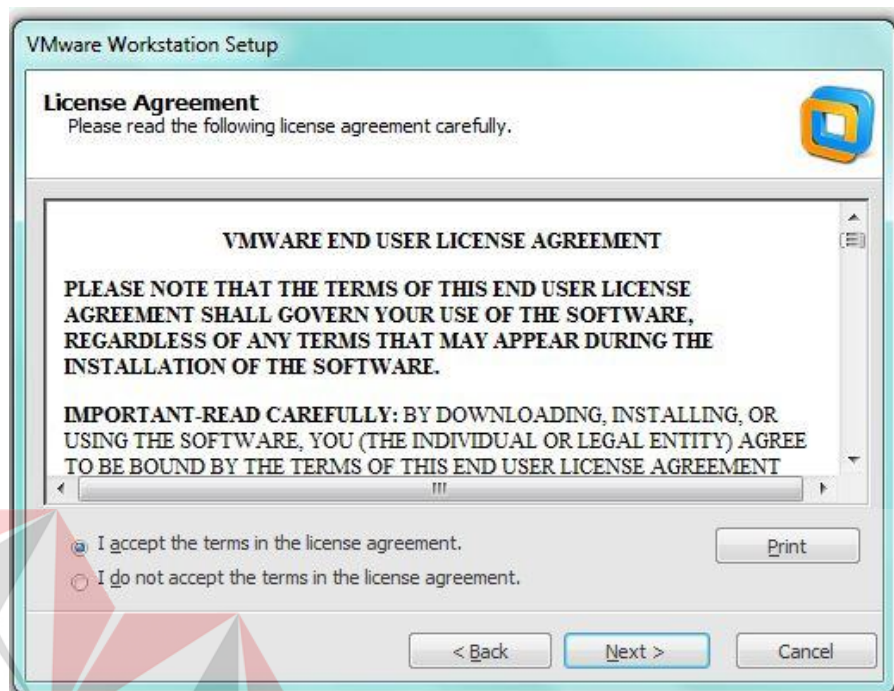
1. Membuka *Installer VMWare Workstation* 10 kemudian akan tampil

Gambar 4.1.



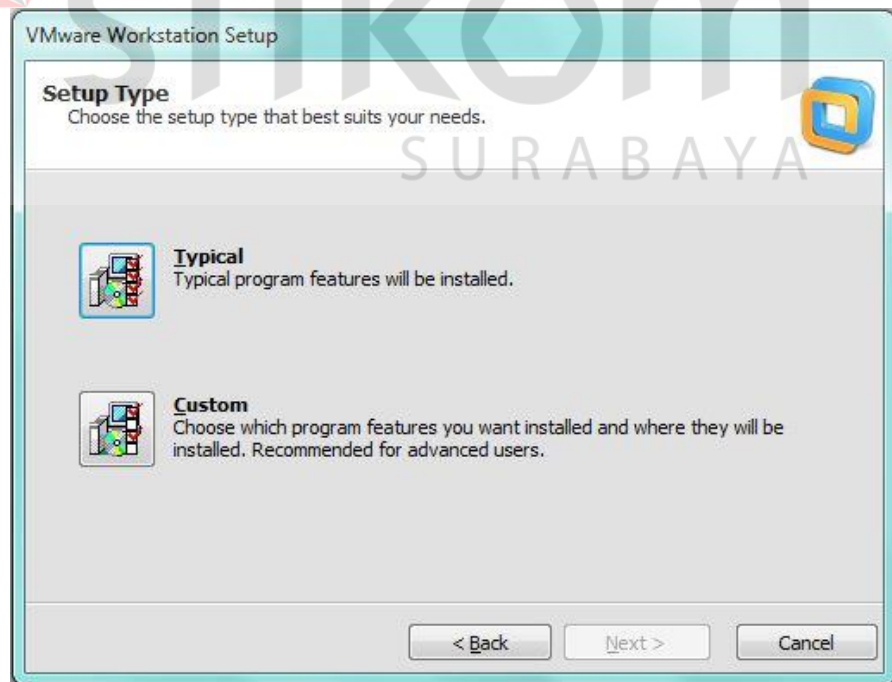
Gambar 4.1 Tampilan *Setup VMWare Workstation* 10

2. Setelah itu tekan tombol *Next*, kemudian akan tampil Gambar 4.2.



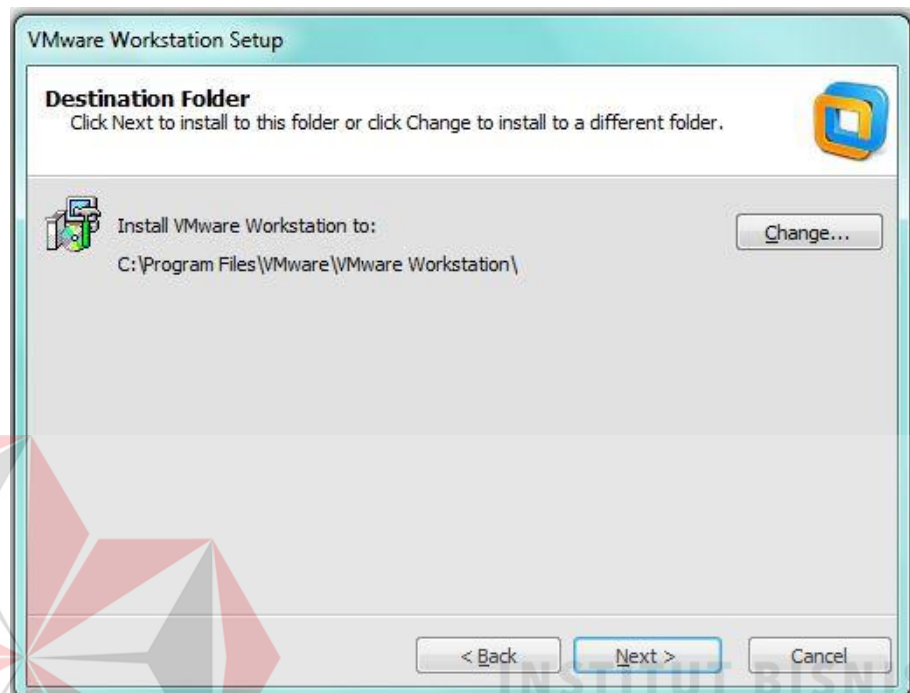
Gambar 4.2 Tampilan *License Agreement*

3. Untuk proses selanjutnya pilih "*I accept the terms in the license agreement*" setelah itu pilih tombol *Next*, kemudian akan tampil Gambar 4.3



Gambar 4.3 Tampilan pemilihan *setup type*

4. Pilih tipe *Typical*, setelah itu klik *Next*. Kemudian akan tampil untuk memilih lokasi program



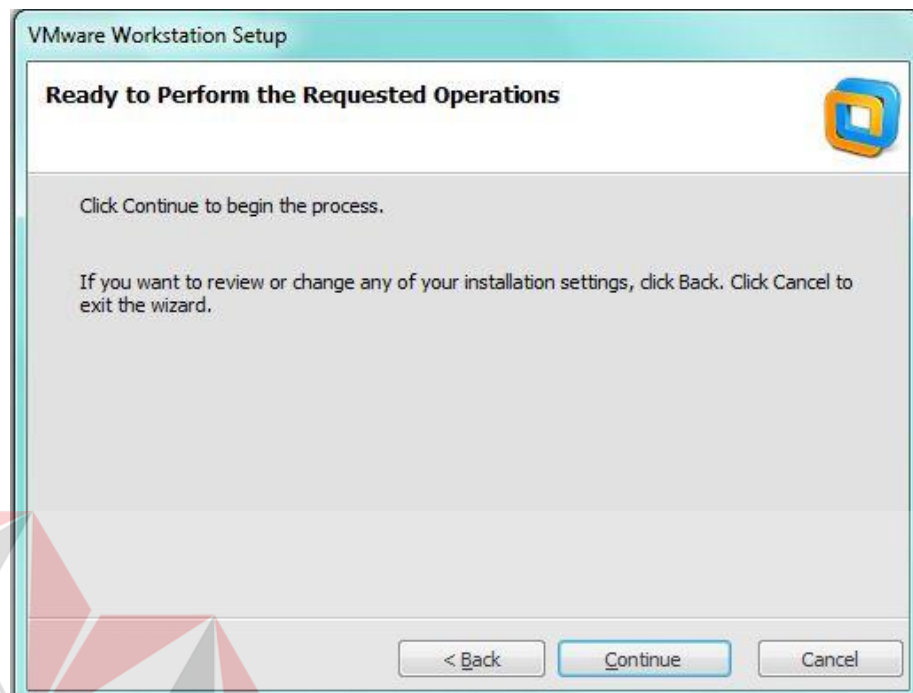
Gambar 4.4 Tampilan pemilihan lokasi program

5. Setelah itu pilih tombol *Next*, memberi tanda centang. Kemudian klik *Next*



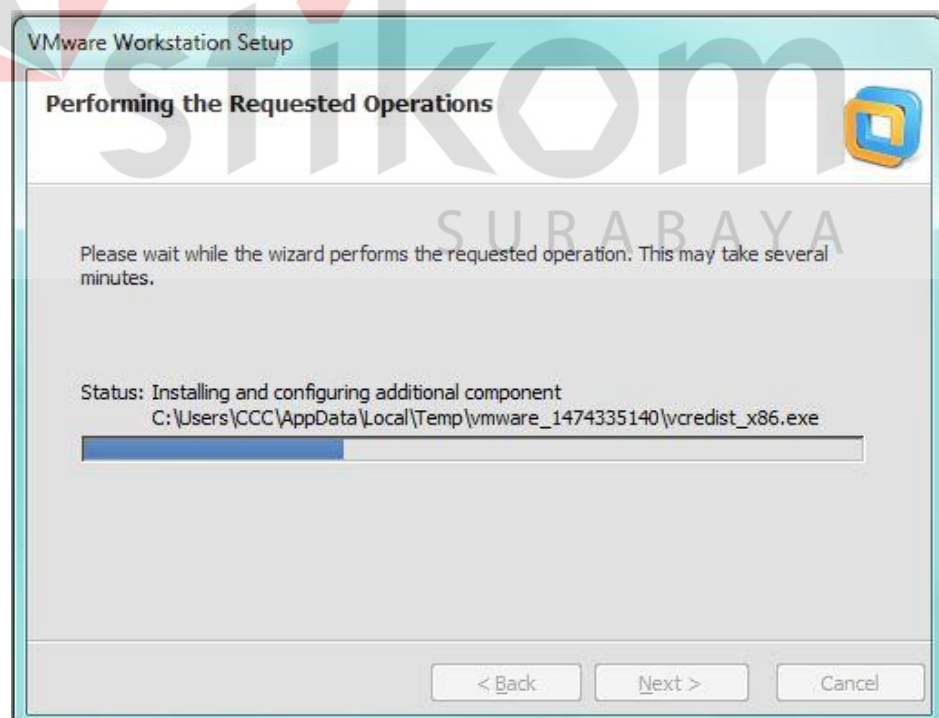
Gambar 4.5 Tampilan untuk pemberitahuan *software update*

6. Klik *Continue* untuk memulai proses instalasi



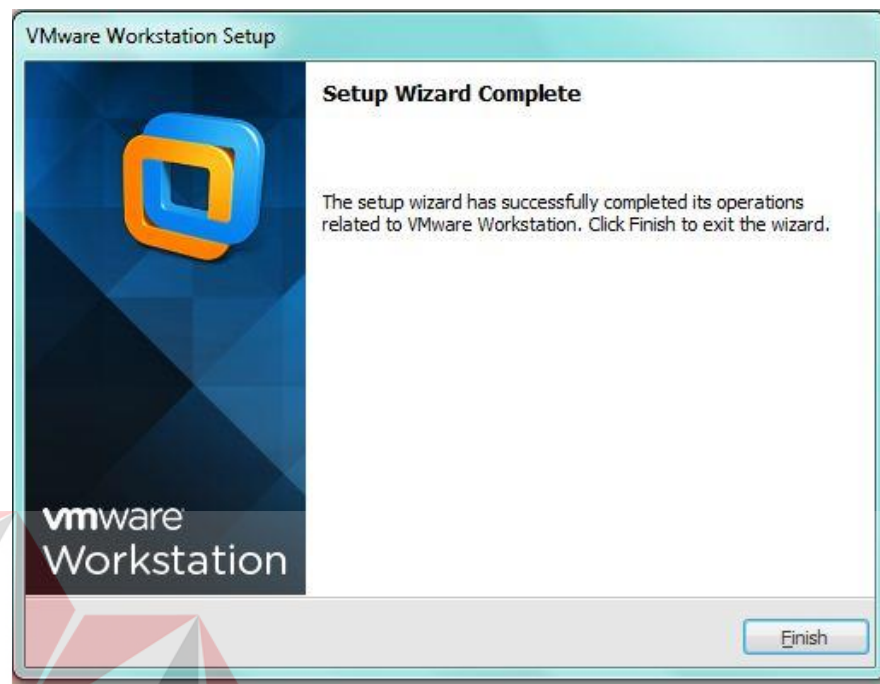
Gambar 4.6 Tampilan untuk memulai instalasi

7. Proses instalasi



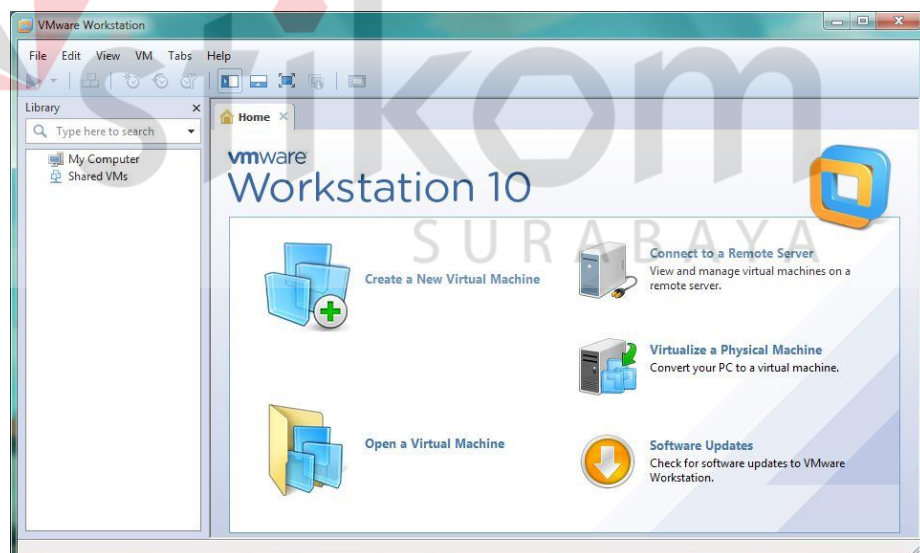
Gambar 4.7 Tampilan proses instalasi

8. Proses instalasi selesai



Gambar 4.8 Tampilan proses instalasi selesai

9. Tampilan halaman utama *software* VMWare Workstation 10



Gambar 4.9 Tampilan halaman utama

4.2 Instalasi Ubuntu Server 16.04

1. Membuka VMWare Workstation 10



Gambar 4.10 Tampilan *home* VMWare Workstation 10

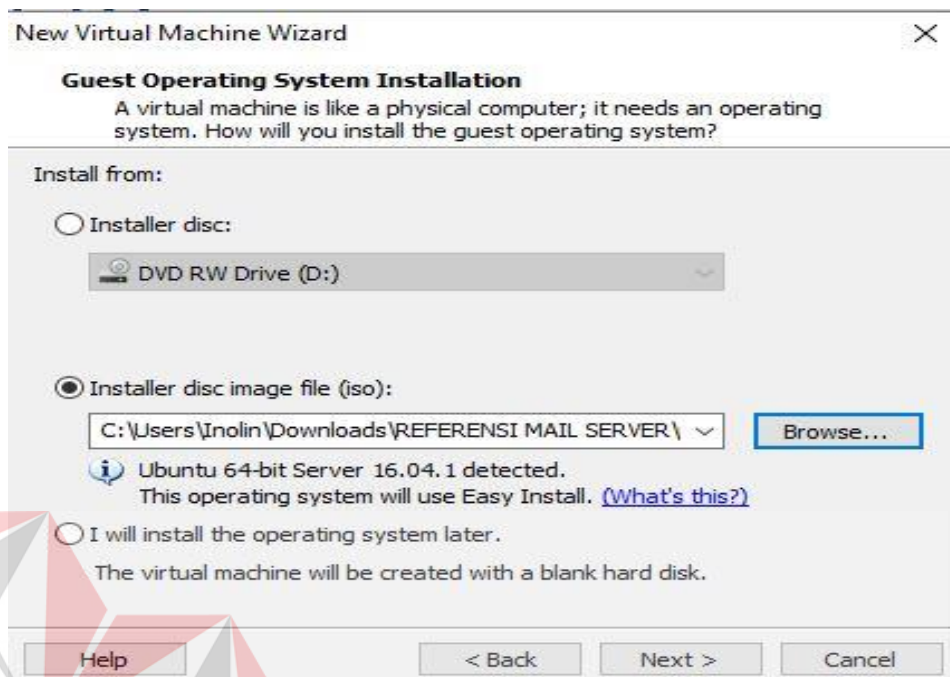
2. Kemudian pilih *Create a New Virtual Machine*, maka akan tampil Gambar

4.11



Gambar 4.11 Tampilan untuk memilih tipe konfigurasi

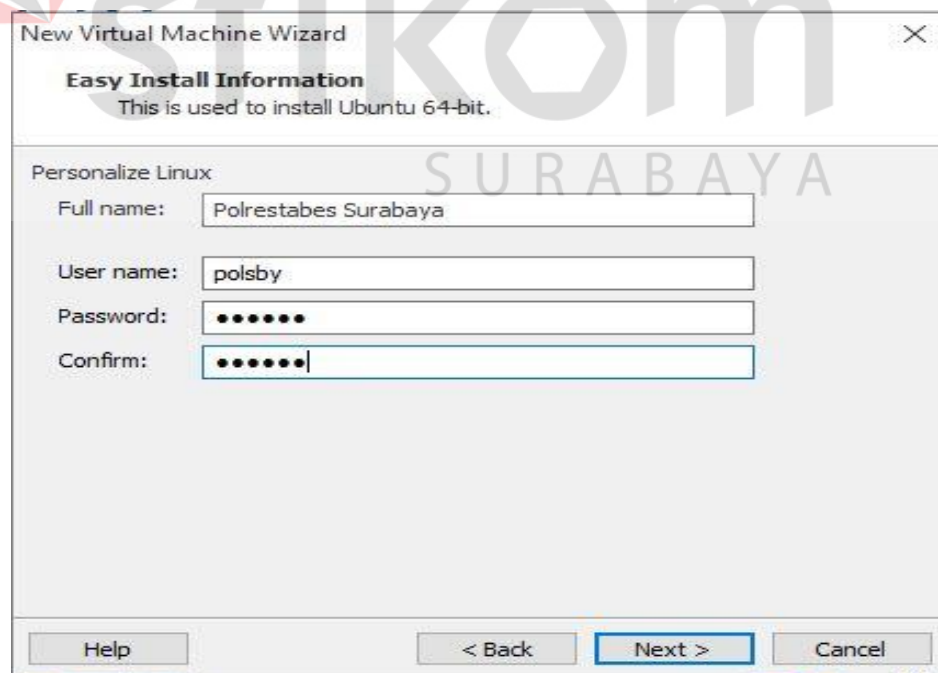
3. Pilih tipe *Typical*, lalu *Next*



Gambar 4.12 Tampilan *browse file iso*

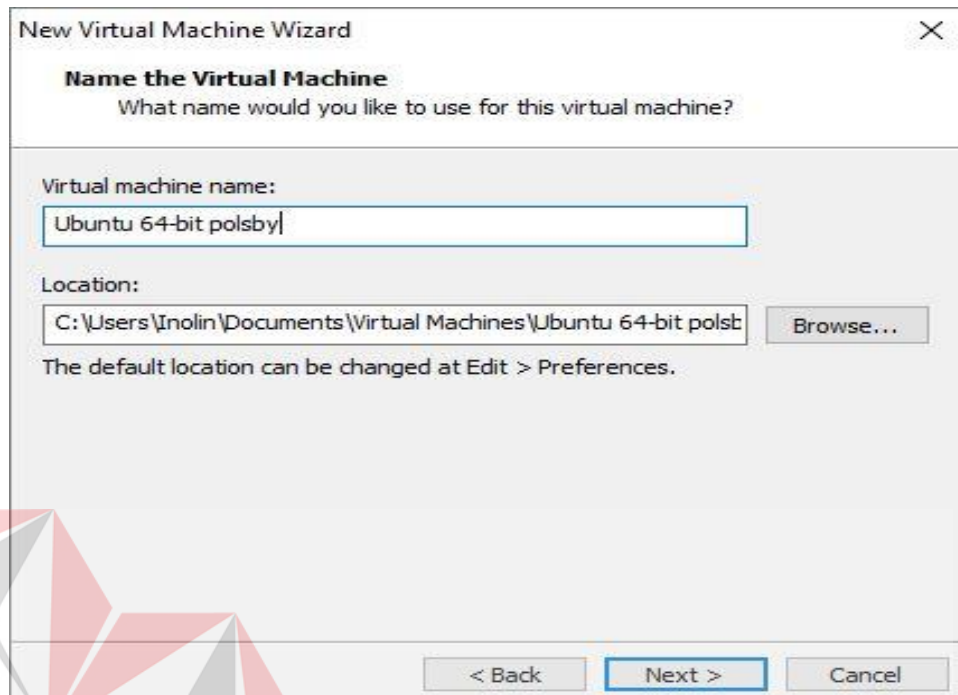
4. Pilih *Installer disc image file (iso)*, lalu *browse file* dengan format *iso*.

Kemudian klik *Next*



Gambar 4.13 Tampilan untuk memberi nama dan *password* untuk *login*

5. Isi *Full Name*, *User Name*, *Password*, dan *Confirm Password*, lalu *Next*



New Virtual Machine Wizard

Name the Virtual Machine
What name would you like to use for this virtual machine?

Virtual machine name:

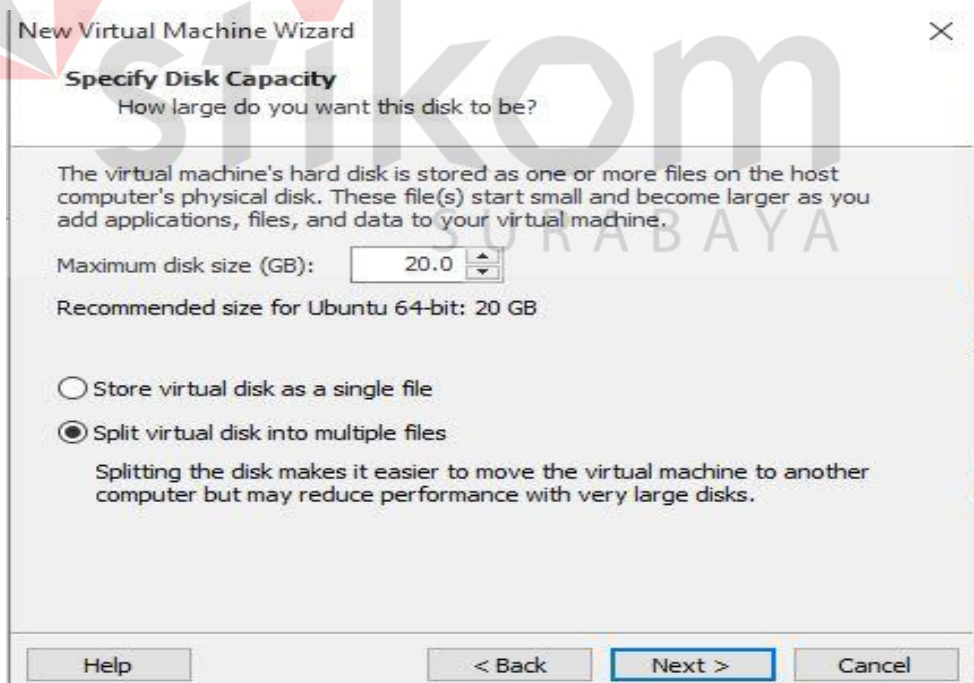
Location:

The default location can be changed at Edit > Preferences.

< Back **Next >** Cancel

Gambar 4.14 Tampilan memberi nama *virtual machine*

6. Memberi nama *Virtual Machine*, lalu klik *Next*



New Virtual Machine Wizard

Specify Disk Capacity
How large do you want this disk to be?

The virtual machine's hard disk is stored as one or more files on the host computer's physical disk. These file(s) start small and become larger as you add applications, files, and data to your virtual machine.

Maximum disk size (GB):

Recommended size for Ubuntu 64-bit: 20 GB

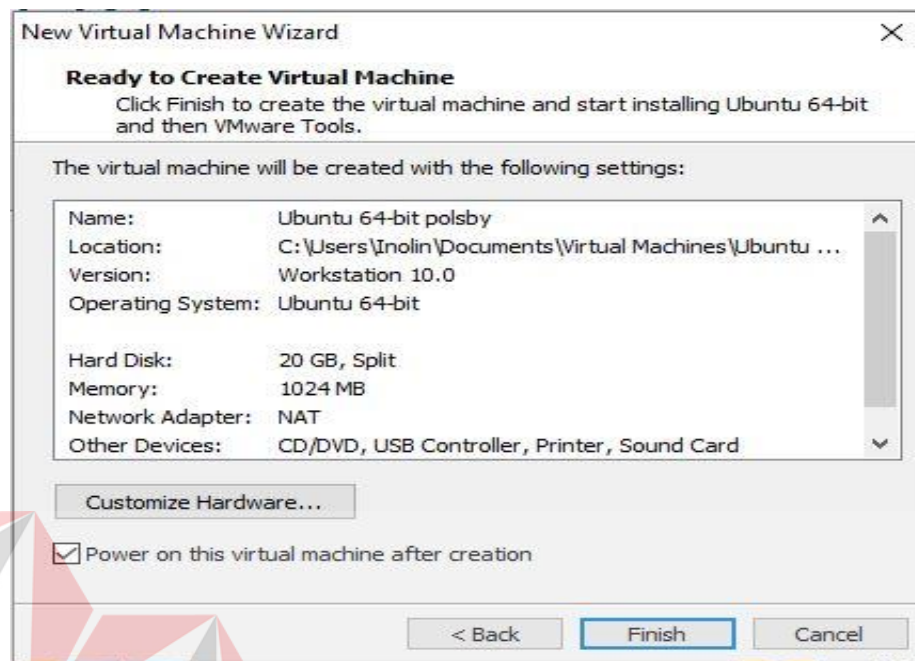
☐ Store virtual disk as a single file
☒ Split virtual disk into multiple files

Splitting the disk makes it easier to move the virtual machine to another computer but may reduce performance with very large disks.

Help < Back **Next >** Cancel

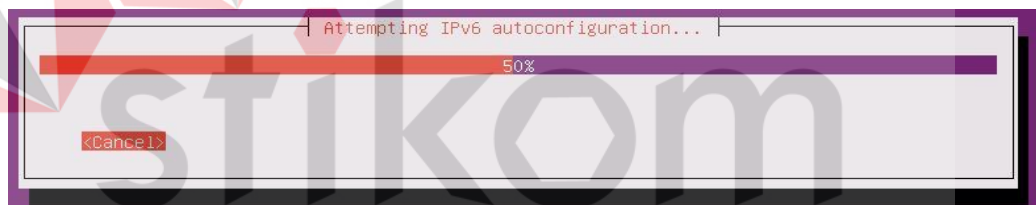
Gambar 4.15 Tampilan ukuran *disk*

7. Memilih ukuran *disk*, klik *Next*

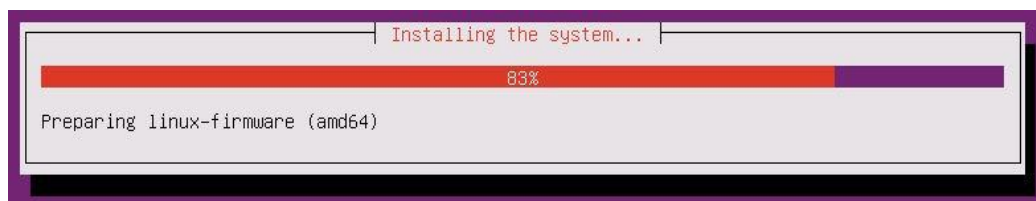


Gambar 4.16 Tampilan hasil konfigurasi

8. Selanjutnya klik *Finish*



Gambar 4.17 Tampilan *progress install*



Gambar 4.18 Tampilan *progress instalasi sistem*

Untuk memasuki “*Super User*” user diharuskan menuliskan perintah *sudo su*

```
polsby@ubuntu:~$ sudo su
[sudo] password for polsby:
root@ubuntu:~/home/polsby#
```

Gambar 4.22 Tampilan perintah *super user*

4. Selanjutnya lakukan perintah *update* untuk OS, yaitu melakukan pembaharuan pada *system* OS tersebut. Perintah untuk melakukan pembaharuan ketik *apt-get update*

```
root@ubuntu:~/home/polsby# apt-get update
Hit:1 http://us.archive.ubuntu.com/ubuntu xenial InRelease
Get:2 http://security.ubuntu.com/ubuntu xenial-security InRelease [94.5 kB]
Get:3 http://us.archive.ubuntu.com/ubuntu xenial-updates InRelease [95.7 kB]
0% [3 InRelease 95.7 kB/95.7 kB 100%]
```

Gambar 4.23 Tampilan perintah *update system* pada OS Ubuntu Server

5. Setelah proses *update* selesai, user juga bisa me-remote OS dari PC *client* melalui *software* Putty.



Gambar 4.24 Tampilan *software* Putty

6. Untuk bisa me-remote OS melalui PC *client* dengan menggunakan *software* Putty, maka *user* diharuskan melakukan perintah pada PC *server* (dalam hal ini Ubuntu Server) dengan mengetik *apt-get install ssh*

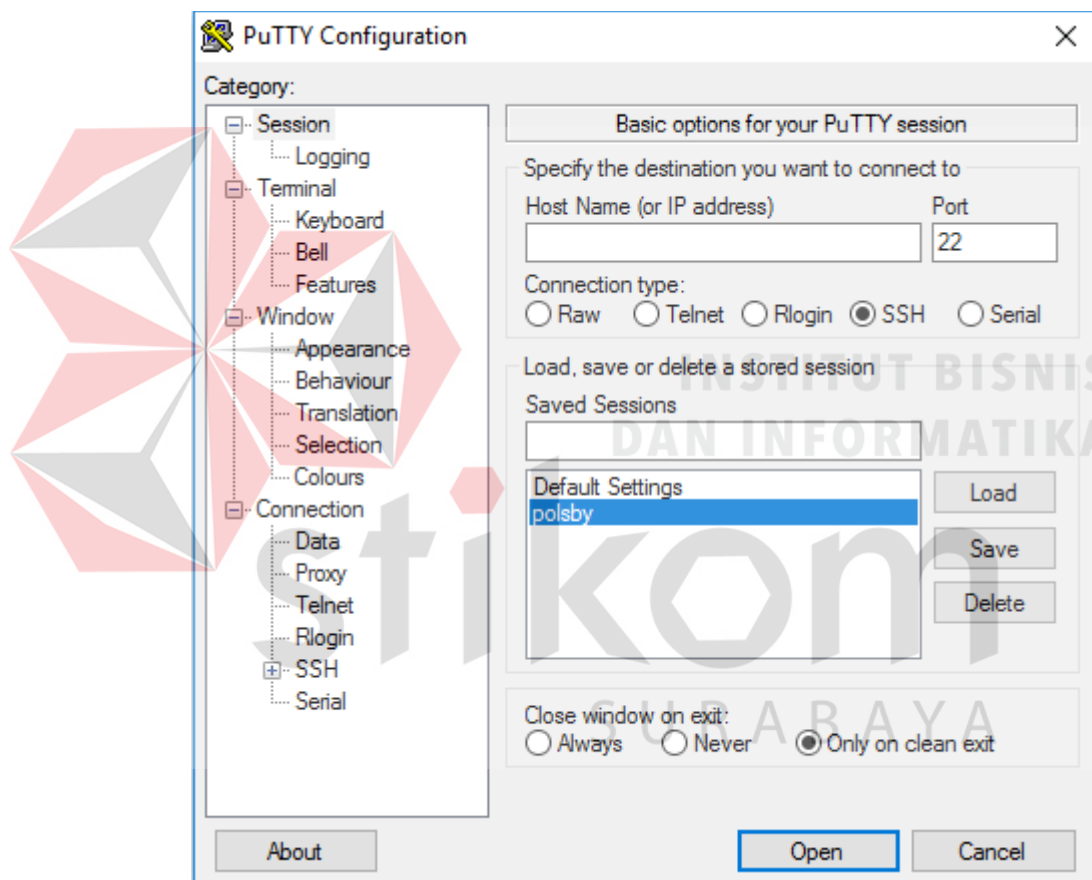
```

root@ubuntu:/home/polsby# apt-get install ssh
Reading package lists... Done
Building dependency tree
Reading state information... Done
ssh is already the newest version (1:7.2p2-4ubuntu2.1).
0 upgraded, 0 newly installed, 0 to remove and 56 not upgraded.

```

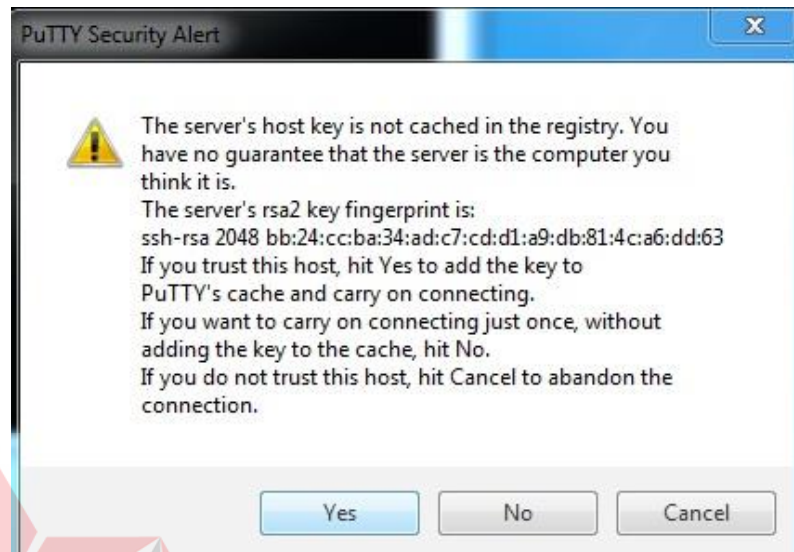
Gambar 4.25 Tampilan perintah SSH

7. Setelah proses instalasi selesai, maka *user* bisa menjalankan aplikasi *PuTTY* yang terdapat pada *PC client*, berikut adalah tampilan awal *software PuTTY*

Gambar 4.26 Tampilan awal *software PuTTY*

8. Langkah awal yaitu memasukkan IP *server* pada kolom *Host Name*, setelah melakukan IP *address* maka langkah selanjutnya adalah memberi nama pada IP tersebut nama yang terbuat adalah “polsby”. Setelah proses memasukkan IP dan nama OS maka proses selanjutnya adalah memilih pilihan “*Save*”,

setelah menekan tombol tersebut maka pilih “*Open*”. Apabila setelah menekan pilihan “*Open*” muncul tampilan seperti berikut maka pilih “*Yes*”.



Gambar 4.27 Tampilan lanjutan proses *Putty*

9. *User* akan masuk kedalam *interface* yang hampir sama tampilannya pada OS



Gambar 4.28 Tampilan awal *interface Putty*

10. *User* bisa menggunakan dari PC *server* maupun me-remote dari PC *client* asalkan PC *server* tersebut sudah dalam keadaan hidup.
11. Setelah *login*, maka ketikkan “*sudo su*” untuk masuk ke *super user* dan memasukkan *password*


```

root@ubuntu: /home/polsby
login as: polsby
polsby@192.168.65.8's password:
Welcome to Ubuntu 16.04.1 LTS (GNU/Linux 4.4.0-31-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage
Last login: Sat Oct  8 03:13:16 2016
polsby@ubuntu:~$ sudo su
[sudo] password for polsby:

```

Gambar 4.29 Masuk sebagai *super user*

12. Kemudian ketikkan perintah *apt-get update* untuk meng-update OS

```

root@ubuntu:/home/polsby# apt-get update
Hit:1 http://us.archive.ubuntu.com/ubuntu xenial InRelease
Get:2 http://security.ubuntu.com/ubuntu xenial-security InRelease [94.5 kB]
Hit:3 http://us.archive.ubuntu.com/ubuntu xenial-updates InRelease
Hit:4 http://us.archive.ubuntu.com/ubuntu xenial-backports InRelease
Get:5 http://security.ubuntu.com/ubuntu xenial-security/main amd64 Packages [152 kB]
Get:6 http://security.ubuntu.com/ubuntu xenial-security/main i386 Packages [148 kB]
Get:7 http://security.ubuntu.com/ubuntu xenial-security/main Translation-en [62.9 kB]
Get:8 http://security.ubuntu.com/ubuntu xenial-security/universe amd64 Packages [44.4 kB]
Get:9 http://security.ubuntu.com/ubuntu xenial-security/universe i386 Packages [44.4 kB]
Fetched 547 kB in 3s (149 kB/s)
Reading package lists... Done
root@ubuntu:/home/polsby#

```

Gambar 4.30 Proses update OS

13. Untuk men-download file zimbra ketikkan perintah *wget*

http://files2.zimbra.com/downloads/8.7.0_GA/zcs-8.7.0_GA_1659.UBUNTU14_86.20160628202701.tgz

```

root@ubuntu:/home/polsby# wget http://files2.zimbra.com/downloads/8.7.0_GA/zcs-8.7.0_GA_1659.UBUNTU14_86.20160628202701.tgz
--2016-10-08 03:25:37-- http://files2.zimbra.com/downloads/8.7.0_GA/zcs-8.7.0_GA_1659.UBUNTU14_86.20160628202701.tgz
Resolving files2.zimbra.com (files2.zimbra.com)... 54.192.156.34, 64:ff9b::36c0:9c22
Connecting to files2.zimbra.com (files2.zimbra.com)|54.192.156.34|:80... connected.
HTTP request sent, awaiting response... 301 Moved Permanently
Location: https://files2.zimbra.com/downloads/8.7.0_GA/zcs-8.7.0_GA_1659.UBUNTU14_86.20160628202701.tgz [following]
--2016-10-08 03:25:39-- https://files2.zimbra.com/downloads/8.7.0_GA/zcs-8.7.0_GA_1659.UBUNTU14_86.20160628202701.tgz
Connecting to files2.zimbra.com (files2.zimbra.com)|54.192.156.34|:443... connected.
HTTP request sent, awaiting response...

```

Gambar 4.31 Proses download file Zimbra

14. Meng-install package BIND9 dengan mengetikkan perintah *apt-get install*

bind9

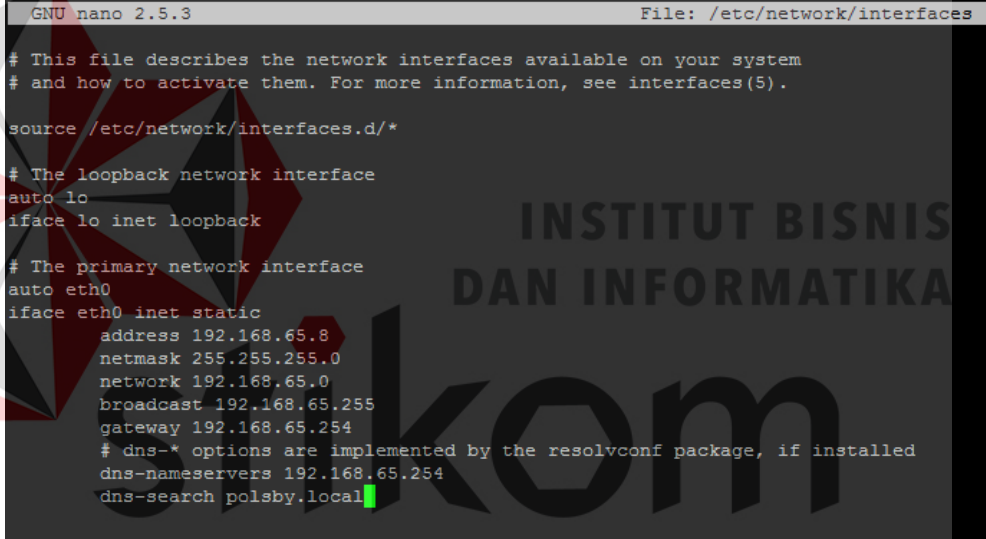
```

root@ubuntu:/home/polsby# apt-get install bind9
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  bind9-host bind9utils dnstools libbind9-140 libdns162 libirs141 libisc160 libisccc140 libiscfg140 liblwres141 libpython-stdlib libpython2.7-minimal
  libpython2.7-stdlib python python-minimal python2.7 python2.7-minimal
Suggested packages:
  bind9-doc rblcheck python-doc python-tk python2.7-doc binutils binfmt-support
The following NEW packages will be installed:
  bind9 bind9utils libirs141 libpython-stdlib libpython2.7-minimal libpython2.7-stdlib python python-minimal python2.7 python2.7-minimal
The following packages will be upgraded:
  bind9-host dnstools libbind9-140 libdns162 libisc160 libisccc140 libiscfg140 liblwres141
8 upgraded, 10 newly installed, 0 to remove and 51 not upgraded.
Need to get 5,830 kB of archives.
After this operation, 19.6 MB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://us.archive.ubuntu.com/ubuntu xenial-updates/main amd64 libpython2.7-minimal amd64 2.7.12-1-16.04 [339 kB]
1% [1 libpython2.7-minimal 90.7 kB/339 kB 27%]

```

Gambar 4.32 Proses instalasi BIND9

15. Meng-edit *file interfaces* dengan mengetikkan *nano* */etc/network/interfaces*



```

GNU nano 2.5.3 File: /etc/network/interfaces

# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).

source /etc/network/interfaces.d/*

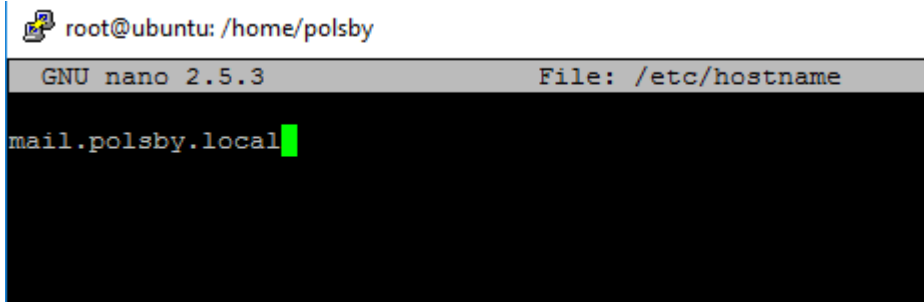
# The loopback network interface
auto lo
iface lo inet loopback

# The primary network interface
auto eth0
iface eth0 inet static
    address 192.168.65.8
    netmask 255.255.255.0
    network 192.168.65.0
    broadcast 192.168.65.255
    gateway 192.168.65.254
    # dns-* options are implemented by the resolvconf package, if installed
    dns-nameservers 192.168.65.254
    dns-search polsby.local

```

Gambar 4.33 Meng-edit *file interfaces*

16. Meng-edit *file hostname* dengan mengetikkan perintah *nano /etc/hostname*



```

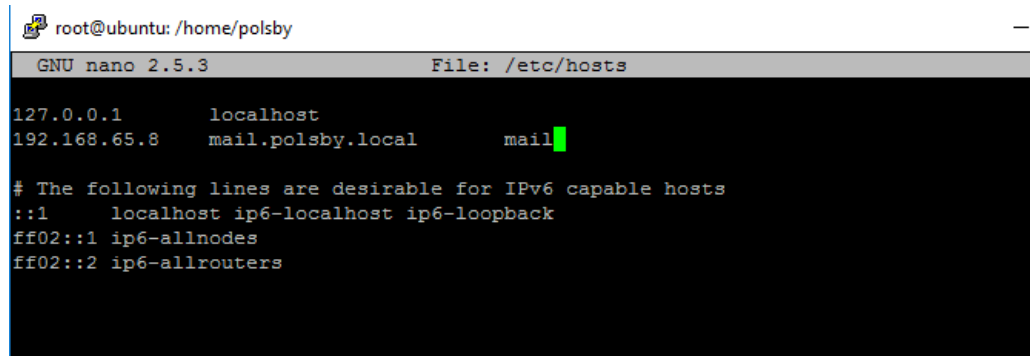
root@ubuntu: /home/polsby
GNU nano 2.5.3 File: /etc/hostname

mail.polsby.local

```

Gambar 4.34 Meng-edit *file hostname*

17. Meng-edit file *hosts* dengan mengetikkan perintah *nano /etc/hosts*



```

root@ubuntu: /home/polsby
GNU nano 2.5.3 File: /etc/hosts
127.0.0.1    localhost
192.168.65.8 mail.polsby.local    mail

# The following lines are desirable for IPv6 capable hosts
::1        localhost ip6-localhost ip6-loopback
ff02::1    ip6-allnodes
ff02::2    ip6-allrouters

```

Gambar 4.35 Meng-edit file *hosts*

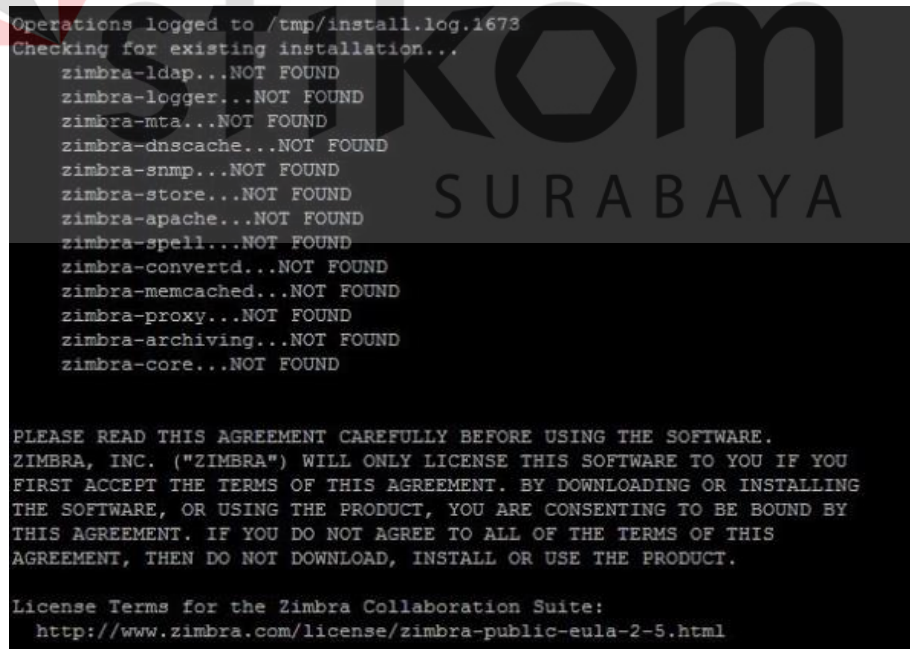
18. Meng-compress file kedalam format *tar* dengan mengetikkan perintah *tar -*

xvf zcs-8.7.0_GA_1659.UBUNTU14_86.20160628202701.tgz

19. Memindahkan direktori file *zimbra* dengan mengetikkan perintah *cd zcs-*

8.7.0_GA_1659.UBUNTU14_86.20160628202701.tgz

20. Setelah masuk ke file tersebut ketikkan *./install.sh* untuk install *Zimbra*, maka akan keluar proses sebagai berikut



```

Operations logged to /tmp/install.log.1673
Checking for existing installation...
zimbra-ldap...NOT FOUND
zimbra-logger...NOT FOUND
zimbra-mta...NOT FOUND
zimbra-dnscache...NOT FOUND
zimbra-snmp...NOT FOUND
zimbra-store...NOT FOUND
zimbra-apache...NOT FOUND
zimbra-spell...NOT FOUND
zimbra-convertd...NOT FOUND
zimbra-memcached...NOT FOUND
zimbra-proxy...NOT FOUND
zimbra-archiving...NOT FOUND
zimbra-core...NOT FOUND

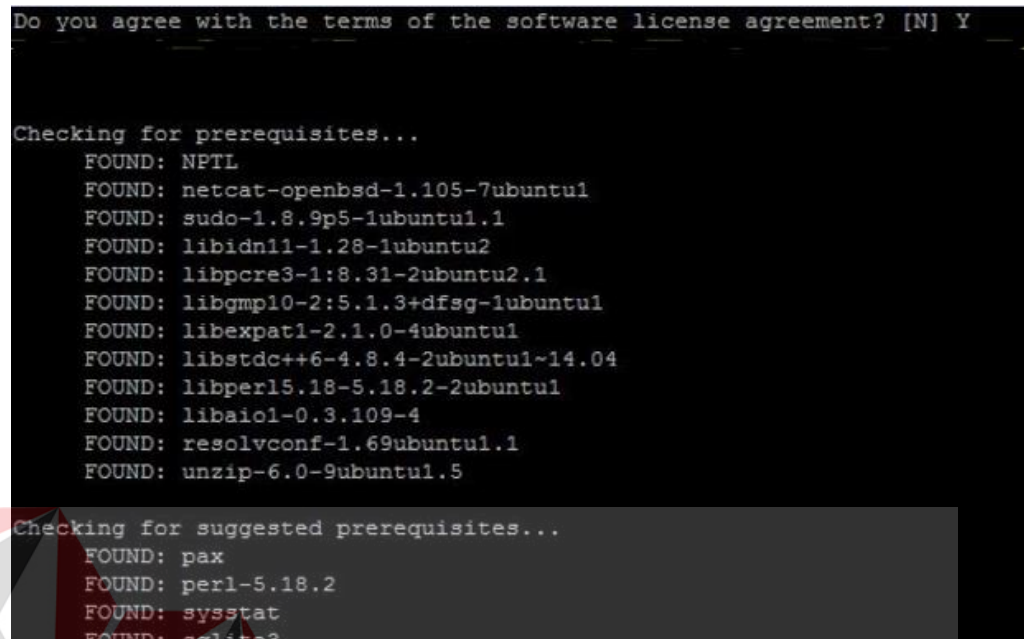
PLEASE READ THIS AGREEMENT CAREFULLY BEFORE USING THE SOFTWARE.
ZIMBRA, INC. ("ZIMBRA") WILL ONLY LICENSE THIS SOFTWARE TO YOU IF YOU
FIRST ACCEPT THE TERMS OF THIS AGREEMENT. BY DOWNLOADING OR INSTALLING
THE SOFTWARE, OR USING THE PRODUCT, YOU ARE CONSENTING TO BE BOUND BY
THIS AGREEMENT. IF YOU DO NOT AGREE TO ALL OF THE TERMS OF THIS
AGREEMENT, THEN DO NOT DOWNLOAD, INSTALL OR USE THE PRODUCT.

License Terms for the Zimbra Collaboration Suite:
http://www.zimbra.com/license/zimbra-public-eula-2-5.html

```

Gambar 4.36 Proses instalasi file *Zimbra*

21. Pada *License Agreement* ketik huruf “Y”



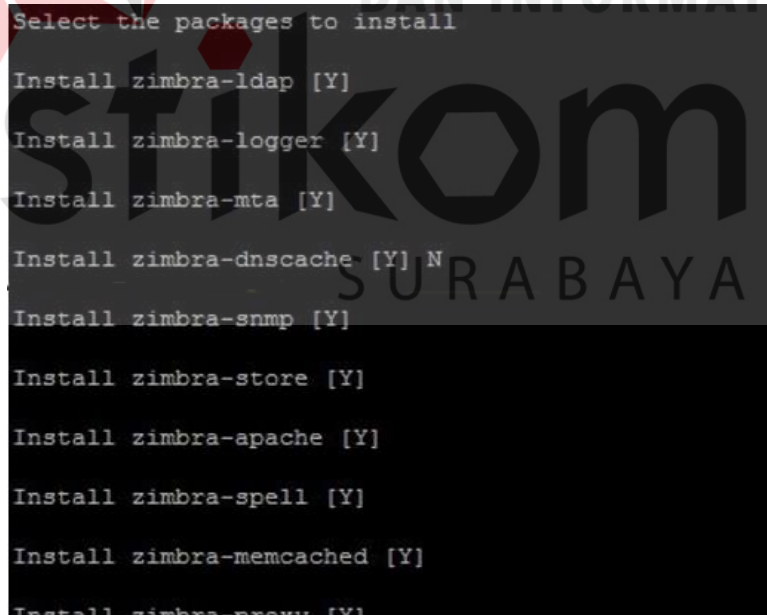
```
Do you agree with the terms of the software license agreement? [N] Y

Checking for prerequisites...
FOUND: NPTL
FOUND: netcat-openbsd-1.105-7ubuntu1
FOUND: sudo-1.8.9p5-1ubuntu1.1
FOUND: libidn11-1.28-1ubuntu2
FOUND: libpcre3-1:8.31-2ubuntu2.1
FOUND: libgmp10-2:5.1.3+dfsg-1ubuntu1
FOUND: libexpat1-2.1.0-4ubuntu1
FOUND: libstdc++6-4.8.4-2ubuntu1~14.04
FOUND: libperl5.18-5.18.2-2ubuntu1
FOUND: libaio1-0.3.109-4
FOUND: resolvconf-1.69ubuntu1.1
FOUND: unzip-6.0-9ubuntu1.5

Checking for suggested prerequisites...
FOUND: pax
FOUND: perl-5.18.2
FOUND: sysstat
FOUND: aclime3
```

Gambar 4.37 Permintaan *License Agreement*

22. Pada *Zimbra-dnscache* ketik N



```
Select the packages to install

Install zimbra-ldap [Y]
Install zimbra-logger [Y]
Install zimbra-mta [Y]
Install zimbra-dnscache [Y] N
Install zimbra-snmp [Y]
Install zimbra-store [Y]
Install zimbra-apache [Y]
Install zimbra-spell [Y]
Install zimbra-memcached [Y]
Install zimbra-proxy [Y]
```

Gambar 4.38 Memilih *package* yang akan di *install*

23. Pada sistem modifikasi ketik Y

```

The system will be modified. Continue? [N] Y

Removing /opt/zimbra
Removing zimbra crontab entry...done.
Cleaning up zimbra init scripts...done.
Cleaning up /etc/ld.so.conf...done.
Cleaning up /etc/security/limits.conf...done.

Finished removing Zimbra Collaboration Server.

Installing packages

zimbra-core.....zimbra-core_8.6.0.GA.1153.UBUNTU14.64_amd64.deb...done
zimbra-ldap.....zimbra-ldap_8.6.0.GA.1153.UBUNTU14.64_amd64.deb...done
zimbra-logger.....zimbra-logger_8.6.0.GA.1153.UBUNTU14.64_amd64.deb...done
zimbra-mta.....zimbra-mta_8.6.0.GA.1153.UBUNTU14.64_amd64.deb...done
zimbra-snmp.....zimbra-snmp_8.6.0.GA.1153.UBUNTU14.64_amd64.deb...done
zimbra-store.....zimbra-store_8.6.0.GA.1153.UBUNTU14.64_amd64.deb...done
zimbra-apache.....zimbra-apache_8.6.0.GA.1153.UBUNTU14.64_amd64.deb...done
zimbra-spell.....zimbra-spell_8.6.0.GA.1153.UBUNTU14.64_amd64.deb...done
zimbra-memcached.....zimbra-memcached_8.6.0.GA.1153.UBUNTU14.64_amd64.deb...done
zimbra-proxy.....zimbra-proxy_8.6.0.GA.1153.UBUNTU14.64_amd64.deb...done
Operations logged to /tmp/zmsetup01192016-105721.log
Installing LDAP configuration database...done.
Setting defaults...      MX: mail.icalredhat.local (192.168.20.200)

```

Gambar 4.39 Proses sistem modifikasi

24. Konfigurasi Zimbra-Store untuk *admin password*, ketik angka 6

```

Main menu
1) Common Configuration:
2) zimbra-ldap: Enabled
3) zimbra-logger: Enabled
4) zimbra-mta: Enabled
5) zimbra-snmp: Enabled
6) zimbra-store: Enabled
   +Create Admin User: yes
   +Admin user to create: admin@mail.polsby.local
   +Admin Password: UNSET
   +Anti-virus quarantine user: virus-quarantine.0exlrjhy@mail.polsby.local
   +Enable automated spam training: yes
   +Spam training user: spam.ovraqsxfeg@mail.polsby.local
   +Non-spam(Ham) training user: ham.ndqtpybmel@mail.polsby.local
   +SMTP host: mail.polsby.local
   +Web server HTTP port: 8080
   +Web server HTTPS port: 8443
   +Web server mode: https
   +IMAP server port: 7143
   +IMAP server SSL port: 7993
   +POP server port: 7110
   +POP server SSL port: 7995
   +Use spell check server: yes
7) zimbra-spell:
8) zimbra-proxy:
9) Default Class of Service Configuration:
   s) Save Config to file
   x) Expand menu
   q) Quit
Address unconfigured (**) items (? - help) 6

```

Gambar 4.40 Konfigurasi Zimbra-Store

25. Pada bagian *Store Configuration* ketik angka 4, kemudian masukkan *password admin* “polsby”

```
Store Configuration

1) Status: Enabled
2) Create Admin User: yes
3) Admin user to create: admin@mail.polsby.local
** 4) Admin Password: UNSET
5) Anti-Virus quarantine user: virus-quarantine.0exlrjhy@mail.polsby.local
6) Enable automated spam training: yes
7) Spam training user: spam.ovraqsxfeg@mail.polsby.local
8) Non-spam(Ham) training user: ham.ndqtpybmel@mail.polsby.local
9) SNMP host: mail.polsby.local
10) Web server HTTP port: 8080
11) Web server HTTPS port: 8443
12) Web server mode: https
13) IMAP server port: 7143
14) IMAP server SSL port: 7993
15) POP server port: 7110
16) POP server SSL port: 7995

Select, or 'r' for previous menu (r) 4

Password for admin@mail.polsby.local (min 6 characters): [77gRLjY_q7] polsby
```

Gambar 4.41 *Store Configuration*

26. Konfigurasi sudah selesai, kemudian tunggu sampai proses instalasi selesai

```
Msin menu

1) Common Configuration:
2) zimbra-ldap: Enabled
3) zimbra-logger: Enabled
4) zimbra-mta: Enabled
5) zimbra-snmp: Enabled
6) zimbra-store: Enabled
7) zimbra-spell: Enabled
8) zimbra-proxy: Enabled
9) Default Class of Configuration:
s) Save config to file
x) Expand menu
q) Quit

*** CONFIGURATION COMPLETE - press 'a' to apply
Select from menu, or press 'a' to apply config (? - help) a
Save configuration data to a file? [Yes] Yes
Save config in file: [/opt/zimbra/config.11174]
Saving config in /opt/zimbra/config.11174...done.
The system will be modified - continue? [No] Yes
Operations logged to /tmp/zmsetup01192016-105721.log
Setting local config values...
```

Gambar 4.42 Proses instalasi

27. Konfigurasi *Zimbra* selesai

```

You have the option of notifying Zimbra of your installation.
This helps us to track the uptake of the Zimbra Collaboration Suite.
The only information that will be transmitted is:
    The VERSION of zcs installed (8.7.0_GA_1659_UBUNTU16.04)
    The ADMIN EMAIL ADDRESS created (admin@mail.polsby.local)

Notify Zimbra of your installation? [Yes] N
Notification skipped
Setting up zimbra crontab...done

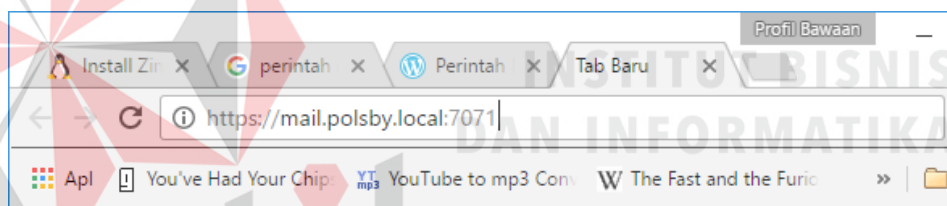
Moving /tmp/zmsetup01192016-105721.log to /opt/zimbra/log

Configuration complete - press return to exit

```

Gambar 4.43 Instalasi selesai

28. Membuka *browser*, kemudian ketikkan alamat <https://mail.polsby.local:7071> pada komputer *client*



Gambar 4.44 Masuk *browser*

29. Login dengan Username admin@mail.polsby.local dan Password (polsby).

Lalu klik *Sign In*



Gambar 4.45 Tampilan *Sign In*

30. Setelah itu, akan masuk di beranda Zimbra Mail seperti Gambar 4.44



Gambar 4.44 Tampilan beranda *Zimbra*

