

CHAPTER V

IMPLEMENTATION AND TESTING

5.1 Implementation

In a computer running a server, then it must first install the operating system Ubuntu Server 12.04 LTS. The operating system runs only through the terminal alone or do not have a desktop display.

After Ubuntu Server 12.04 LTS installed on the CPU, then install supporting software which consists of Apache Webserver, SSH Server, LAMP and MySQL Server, Samba Server, Print Server, Fix IP address.

The next step is to install Webmin and VirtualBox software, as well as setting phpVirtualBox at Ubuntu Server 12.04 LTS, so that the computer can be used with the current server.

5.1.1 Webmin

The manual steps to install Webmin is :

1. Type the command on the terminal screen for the download version and select the package webmin (.deb)
`wget http://www.webmin.com/download/deb/webmin-current.deb`
2. After that, to begin installing webmin using the command
`dpkg --install webmin-current.deb`

5.1.2 VirtualBox

The steps is to install VirtualBox :

1. Type the command on the terminal screen
`apt-get -f install virtualbox`

2. After the VirtualBox is installed, then download VirtualBox Extension Pack

(e.g. for USB-Support, <https://www.virtualbox.org/wiki/Downloads>)

```
wget
```

```
http://download.virtualbox.org/virtualbox/4.3.0/Oracle\_VM\_VirtualBox\_Extension\_Pack-4.3\_4.3.8-92456.vbox-extpack
```

3. Then install the VirtualBox Extension Pack with command

```
VBoxManage extpack install ~/Oracle_VM_VirtualBox_Extension_Pack-4.3_4.3.8-92456.vbox-extpack
```

5.1.3 phpVirtualBox

The steps is setting phpVirtualBox :

1. Download phpVirtualBox

```
wget http://sourceforge.net/projects/phpvirtualbox/files/phpvirtualbox-4.1-11.zip
```

2. Unzip the downloaded file
- ```
unzip phpvirtualbox-4.1-11.zip
```

3. Then open the file config.php-example with command
- ```
vi config.php-example
```

4. The change var \$location = 'http://192.168.41.241:18083/' and #var \$consoleHost = '192.168.41.241' ;

5. Then change the name of file to the config.php from config.php-example

```
mv config.php-example config.php
```

6. After the complete, and then restart Apache2
- ```
service apache2 restart
```

7. PhpVirtualBox Type the command to run after every reboot or boot
- ```
vboxwebsrv -b -F ~/phpvirtualbox.log
```

8. PhpVirtualBox was able to run through a browser on another computer on the same network, by typing the IP address <http://192.168.41.241/phpvirtualbox-4.1-11>

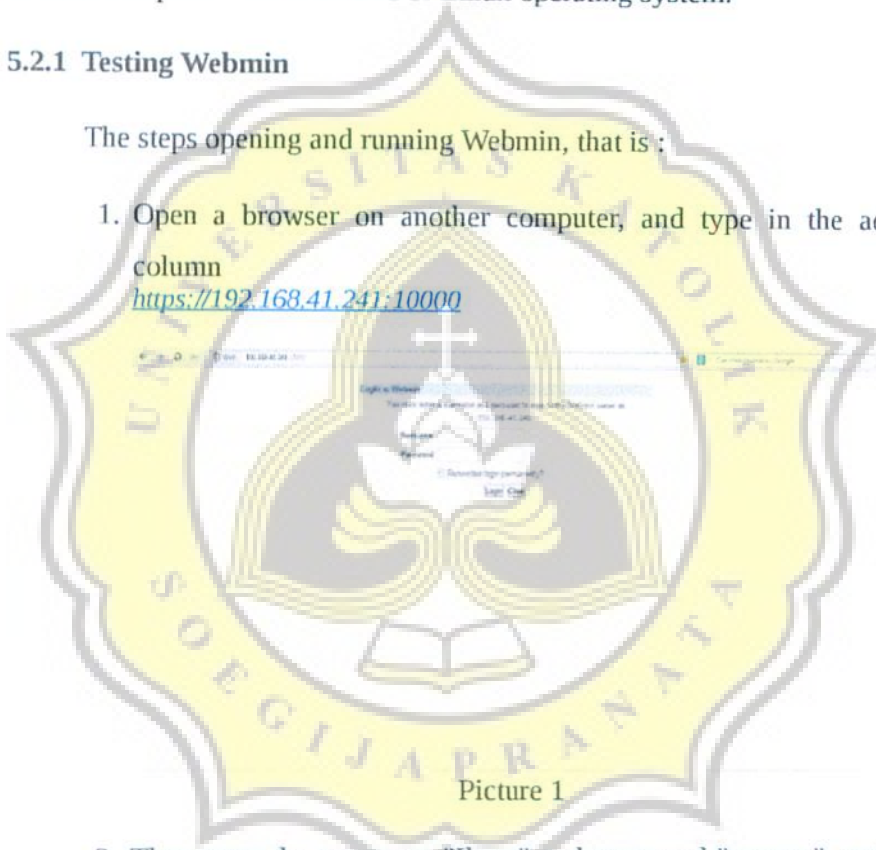
5.2 Testing

After finished install Webmin and phpVirtualBox, then it's time to try to start a remote server and client functions. How to run it using a browser on another computer with Windows or Linux operating system.

5.2.1 Testing Webmin

The steps opening and running Webmin, that is :

1. Open a browser on another computer, and type in the address column <https://192.168.41.241:10000>



Picture 1

2. Then enter the username "Ikom" and password "qwerty", and then click Login. Username and Password in accordance with the login "root" on the server.



Picture 1.1

3. After the the successful login, then go to the Webmin page.

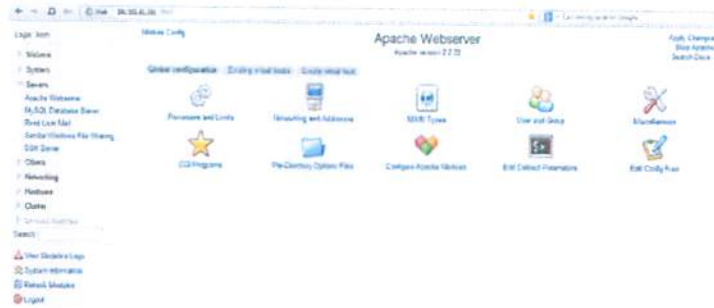


Picture 1.2

4. On the menu there Webmin Servers page that has several sub-menus will be described, as follows :

1. Apache Webserver

Function so that the server can be connected and accessed via a browser from another computer as a client that is in one network.



Picture 1.3

2. SSH Server

Function so that the server can be controlled entirely from another computer as a client, by using the login "root" servers.

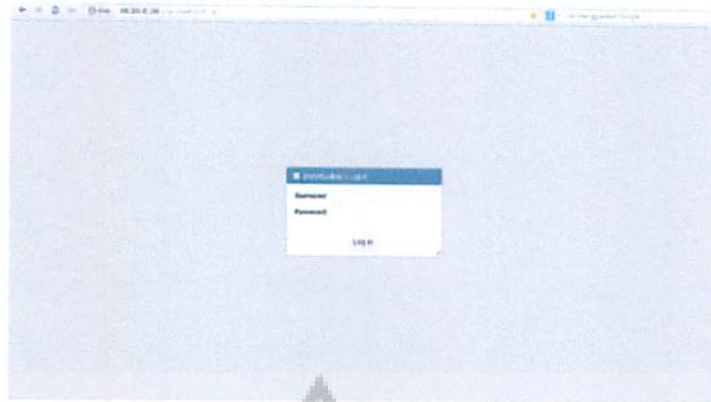


Picture 1.4

5.2.2 Testing phpVirtualBox

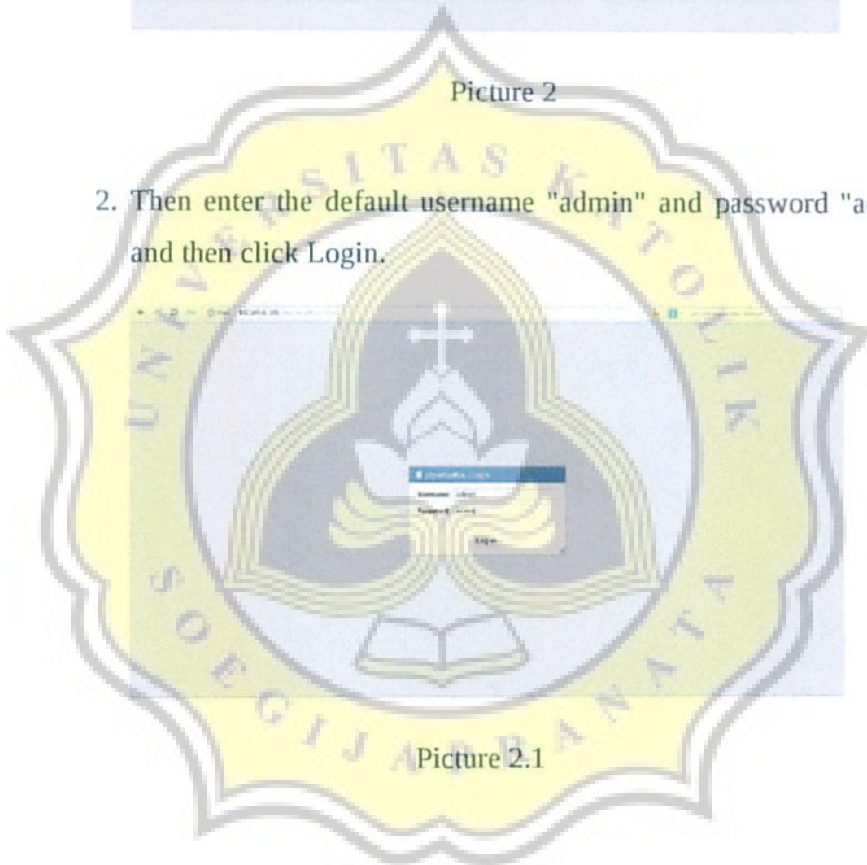
The steps open and run the installation of New Operating System on the phpVirtualBox, that is :

1. Open a browser on another computer, and type in the address column
<http://192.168.41.241/phpvirtualbox-4.1-11>



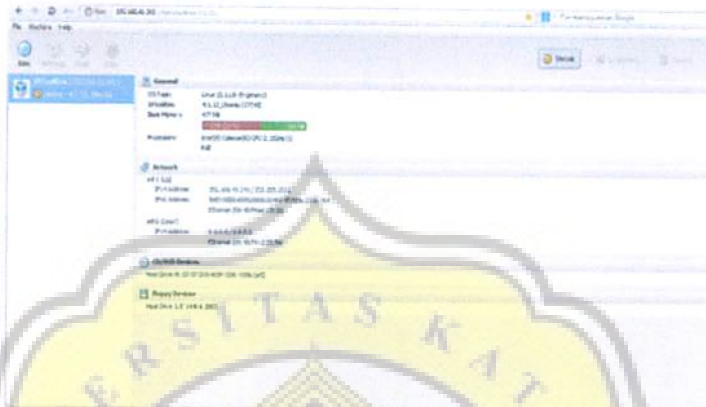
Picture 2

2. Then enter the default username "admin" and password "admin", and then click Login.



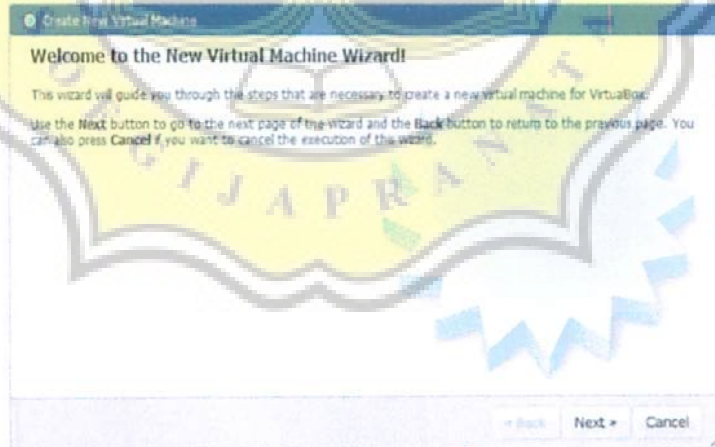
Picture 2.1

3. After the the successful login, then go to page phpVirtualBox. In phpVirtualBox, there VirtualBox menu (192.168.41.241). If clicked, the page will display information about the computer's CPU server.



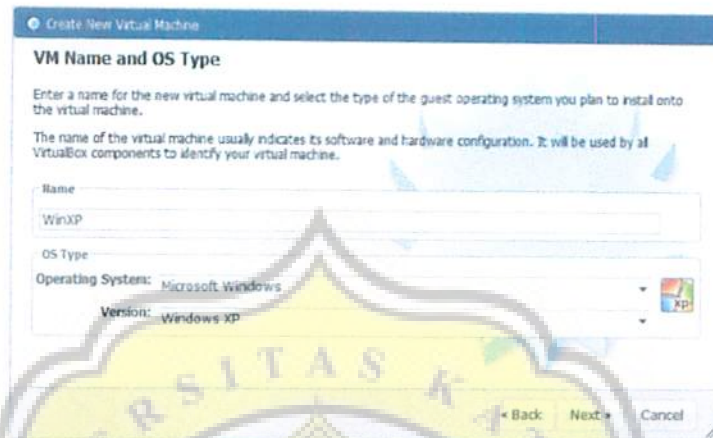
Picture 2.2

4. In the phpVirtualBox, will begin to install the New Operating System. Operating System that will be installed is Windows XP. The first step is to click the "New", then a window will appear "Welcome to the New Virtual Machine Wizard", click the Next button.



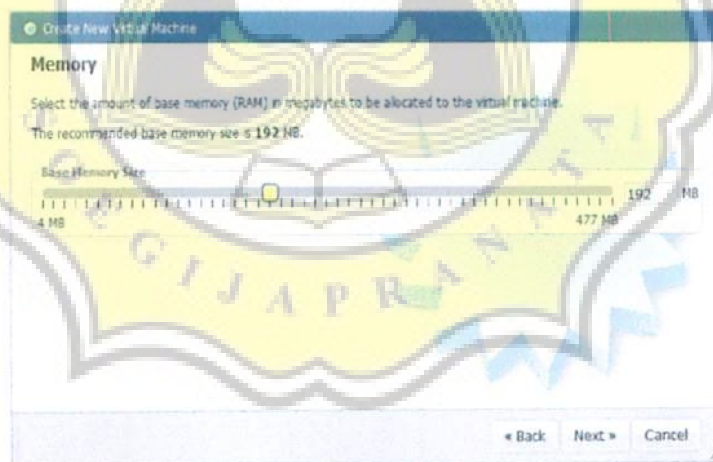
Picture 2.3

5. The second step is to window "VM Name and OS Type" can be filled according to the operating system and the version that has been determined, then click the Next button.



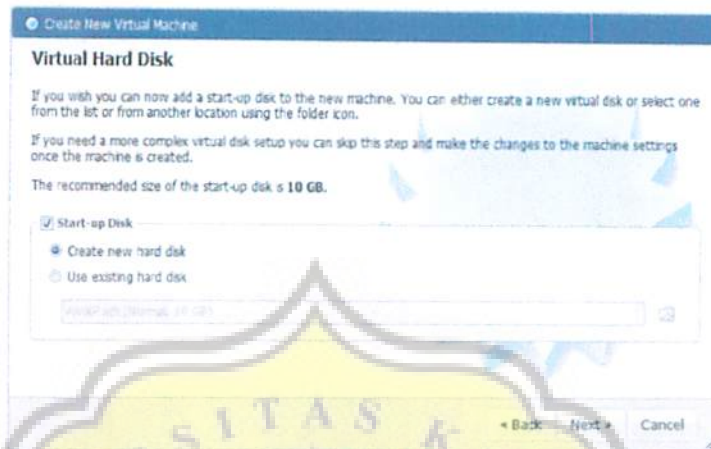
Picture 2.4

6. The third Step that is the window "Memory" to select the size of the memory RAM which will be used to install operating system. After that, click the Next button.



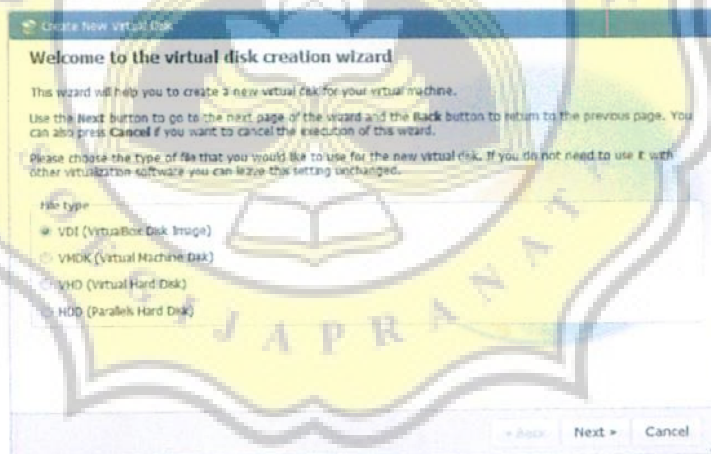
Picture 2.5

7. The fourth step there is a window "Virtual Hard Disk", select Create new hard disk. Then click the Next button.



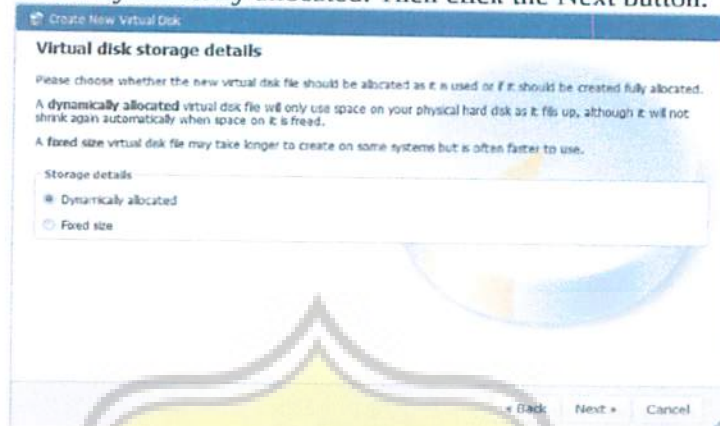
Picture 2.6

8. The fifth step is the window "Welcome to the virtual disk creation wizard", select the VDI (VirtualBox Disk Image). Then click the Next button.



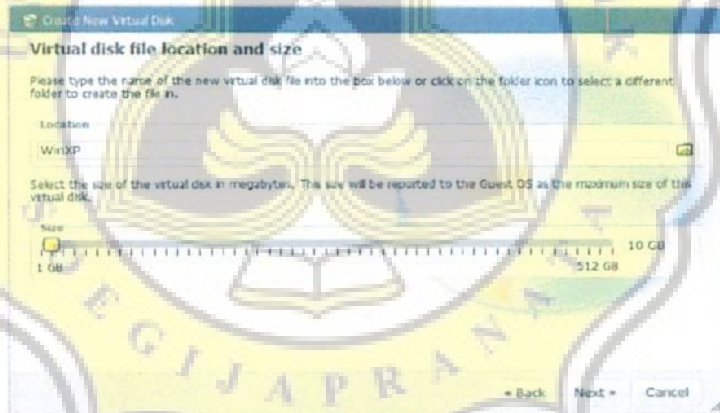
Picture 2.7

9. The sixth step there is a window "Virtual disk storage details", select Dynamically allocated. Then click the Next button.



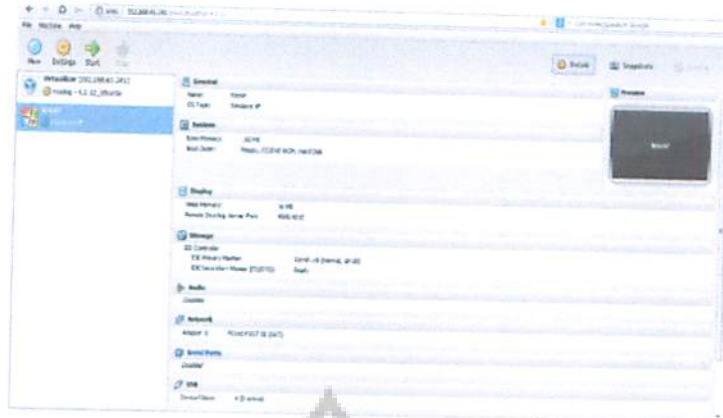
Picture 2.8

10. The seventh step that is there a window "Virtual disk file location and size" to choose the size of the hard disk to be used. Then click the Next button.



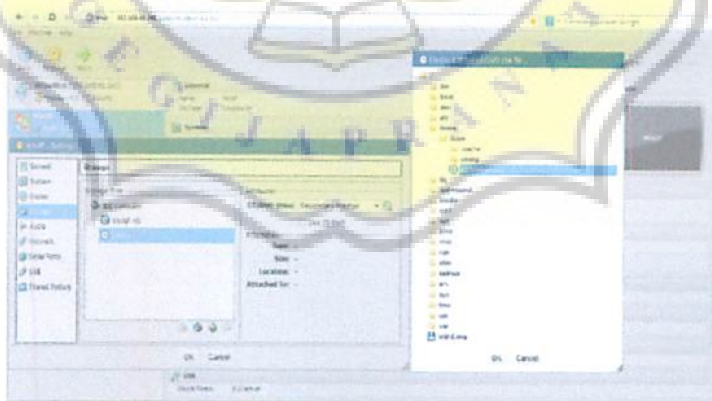
Picture 2.9

11. There are eight Step window "Summary" as the process create new operating system. Then click the Create button. After that, it will appear at the choice phpVirtualBox new operating system, that is WinXP.



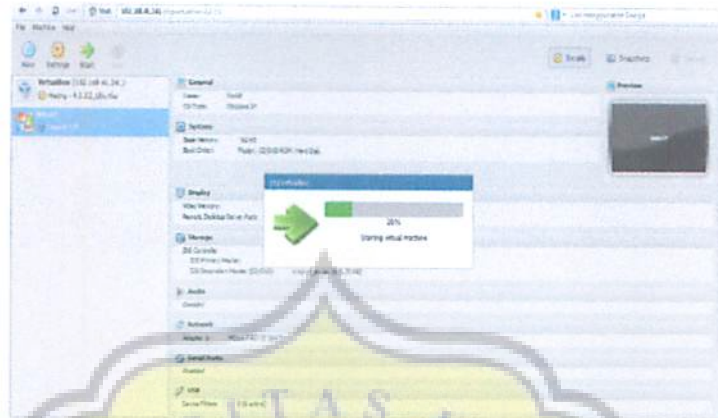
Picture 2.10

12. When finished create new operating system, it will do the install operating system has been chosen, that is Windows XP. Before you start installing Windows XP, first enter wpxvol_en.iso file (. Iso) into the server on a computer hard drive folder "home / Ikom". After that select the Settings menu, then select the Storage menu. Next on the Storage Tree column, click the Empty option. Section Attributes column, click logo Disk. After that will come the option Choose a virtual CD / DVD disk file, and then click. Find wpxvol_en.iso file location (. Iso). If you've found the file, and then click OK. Then click Ok again.



Picture 2.11

13. The next stage is to start installing Windows XP. Select the Start menu to run the installation process to complete.

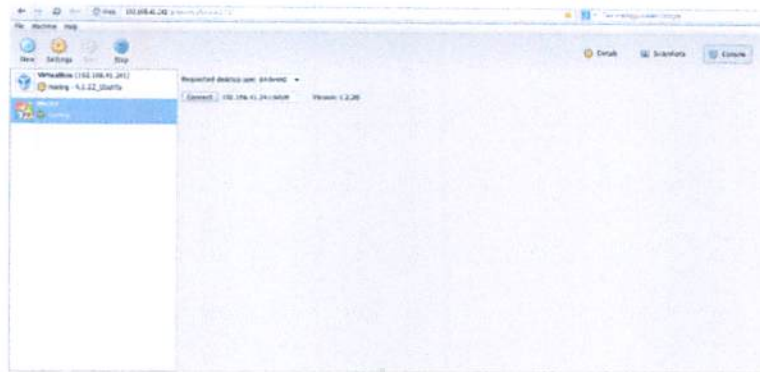


Picture 2.12

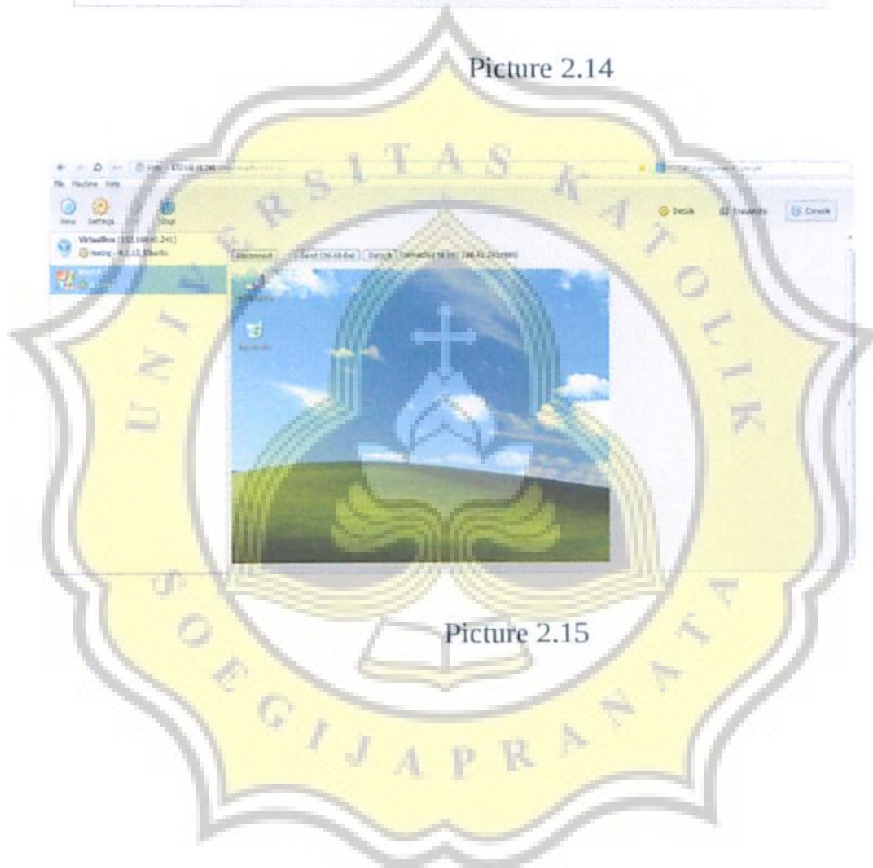
14. After the the installation of Windows XP complete. It's time to run the Windows XP operating system in the phpVirtualBox. Click the Start menu for running the operating system. Next, click the Console menu. Then select the size of the desktop screen, and click the Connect menu. Thus, the Windows XP Operating System is ready for use.



Picture 2.13



Picture 2.14



Picture 2.15