Assignment 1

Setting up Systems part 1

by Nicholas Mueller

Please note that I referenced the following Youtube vidoes by **Linux Video Tutorials**

Debian install

“How to Install Debian GNU/Linux 10.5 Server (No GUI) + VMware Tools on VMware Workstation”.

Link is below

<https://www.youtube.com/watch?v=KvFlUa52U8c&t=293s>

CentOS install

“How to Install CentOS 8.2 Server with GUI + Quick Look on VMware Workstation”

Link is below

<https://www.youtube.com/watch?v=YhWWQ_hrc2A>

First I’ll install the Debian Server.

Step 1.

First, I’ve renewed my VMware access which is where the guest operating systems servers will be installed.

Step 2.

Find a Debian ISO.

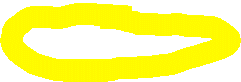
Google Debian > go to the official website <https://www.debian.org/>

Click on the More link on the page> then download.

Go to Try Debian live before installing.

Graphical user interface, text, application, email

Description automatically generated



Next Choose amd64 it is encircled below.

Graphical user interface, text, application, email

Description automatically generated



Now select the Debian-live-11.0.0-amd64-standard.iso.

Graphical user interface, text, application, website

Description automatically generated

Wait for the download to finish then. Select the I will install later option, hit next.

Graphical user interface, text, application

Description automatically generated

Continuing the install do the following. Pick Linux as the guest operating system and for this Debian server I choose Debian 10 x 64-bit (it says Debian 11.0 but I couldn’t find that option so I went with Debian 10 x.

Graphical user interface, text, application

Description automatically generated

Continue the installation process store as a single file is what I choose.Graphical user interface, text, application, Word, email

Description automatically generated

Hit Next but before hitting finish go to customize hardware > then select the ISO

Graphical user interface, application, Word

Description automatically generated

When prompted pick the Graphical Debian installer. Next pick your language I picked English.

Graphical user interface, text

Description automatically generated

Now continue I left the hostname as Debian, when prompted for domain name or proxy I left the settings blank or as default.

Graphical user interface, text

Description automatically generated

Configure the time zone or clock to what is appropriate for you.

Graphical user interface, text

Description automatically generated

Now when prompted hit Yes when install the GRUB boot loader as shown. Graphical user interface, text, application

Description automatically generated

Almost done use the /dev/sda option here. Then continue.Graphical user interface, text

Description automatically generated

Wait for things to install. Then you will be prompted to create a root password, it will prompt for a username and then a corresponding password.

Finally boot the VM and login with your password.

See Next Page

Text

Description automatically generated

Shown above I test the internet by pinging 0% packet loss is a good result. I also show the ls -a command used to display all files. Try using touch command to make a file.

File Sharing with Debian

To enable the file sharing SSH server as root enter the commands shown below

Text

Description automatically generated

Note if using Windows go to features>new feature> make sure Open SSH is installed, this is needed because sftp is an extension of SSH.

Then check if the server is up with this command shown below

Text

Description automatically generated

Now I can file share via sftp directly from Windows to Debian. Shown below

Text

Description automatically generated

CentOS installation and configuration.

First thing to do is do a search for CentOS then go the the website <https://www.centos.org/>

Select Downloads then choose the ISO as shown below.

Graphical user interface, application, website

Description automatically generated



Choose the x86\_64 option.

Next select the download for CentOS which is around 9.2GB

Graphical user interface, application

Description automatically generated

The download could take a while when it’s done open up VMware. And select create new virtual machine as we did with the Debian install.



Graphical user interface, application

Description automatically generated

Choose Linux and CentOS 8 64-bit, then hit next.

Graphical user interface, text, application

Description automatically generated

In the wizard I chose store as a single file, hit next.

Graphical user interface, application

Description automatically generated

As with the Debian install as soon as it lets you customize hardware do so.

Then go to use ISO image file and pick the CentOS-8.4.2105-x86\_64-dvd.iso.

I changed my memory to 2GB instead of 1GB

Close the customize hardware screen.

Hit Next then when prompted select your language as shown below, hit continue.

Graphical user interface, application

Description automatically generated

The installation process is different than for Debian past this point.

Graphical user interface, application, Teams

Description automatically generated

In the upper right of the installer select a disk, then hit done.

Set up the network connection, make a root password, and a username with password.

Graphical user interface, text, application

Description automatically generated

I also turned off KDUMP, as I was following the tutorial linked at the top of this document.

Now hit Begin Installation and wait for the install to finish mine took about 15 mins.

Graphical user interface, application

Description automatically generated

Next hit reboot system when done

Graphical user interface, text, application, email

Description automatically generated

Accept the licensing agreement hit Done.

Graphical user interface, text, application, email

Description automatically generated

Login with the username and password created previously. Shown below I test ping command.

A screenshot of a computer

Description automatically generated with medium confidence

Centos is installed now.

CentOS File Share

Finally test sftp with the Windows command prompt login remotely as shown below.

Text

Description automatically generated