LINUX SERVER(s) DOCUMENTATION

For this assignment, we were required to set up two separate Linux server Operating Systems. These will be the basis for the rest of our assignments this semester. One of them is up to us, we’re freely able to choose whatever Linux server OS we wish, but one of them must be CentOS based. To begin, we’ll first need the ISO files for the servers we wish to build.

First, go to the link below

<https://www.centos.org/download/>

A screenshot of a cell phone

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Select the DVD Iso link

Choose any of the mirror links on the next page and allow the file to download.

With the file downloaded, you’ll need to launch your virtual system application. In this document I’ll be using VirtualBox.

Open virtual box and select the NEW icon

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Description automatically generatedFill in the name of the OS, and match it up with what we’re using. CentOS is the free version of Redhat, so choose redhat for version, and Linux for OS.

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Description automatically generatedContinue with the default Hard Disk settings.

A screenshot of a social media post

Description automatically generatedAt this point the machine still needs a few more things configured. Click the settings button.

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Description automatically generatedIn the System settings, give the new machine an extra gig of memory.

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Description automatically generatedClick the processor tab under system settings, and give the device another CPU.

A screenshot of a social media post

Description automatically generated Next, you’ll need to go into the storage options. Click the disc under Controller IDE, and then click the disc icon next to the Optical Drive attributes. Select the ISO file you downloaded earlier, this is essentially the same thing as putting a DVD version of an OS into a disc drive, only *virtualized* (wow)!

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After configuring the storage settings, click ok, and start the device. It may take a moment, but you’ll be greeted with this screen.

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The wizard is straight-forward enough, select the settings as needed for your desired setup. In my case, I added the GUI server option.

After filling out the first screen of options, you’ll be given the chance to make your own account, and to set the root password. Set the root password as you wish and create yourself an administrator account (hopefully with its own unique password).

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When all configured, click the start installation button (not seen above, I forgot to get a screen shot)

It may take some time, but when the installation is complete you’ll need to click the reboot button to reset the device.

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Once successfully rebooted, you’ll see this screen.

A close up of electronics

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Your CentOS machine is good to go!

The next OS you choose will be up to you, for me, I’ll be going with Ubuntu server, installed on a Raspberry Pi 3B+.

To get the OS onto the Pi, you’ll first need a copy of the ISO file, a microSD card, and disk image software. For this lab, I’m using Win32 Disk Imager. (link below)

<https://sourceforge.net/projects/win32diskimager/>

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Install the software, choose the image file you downloaded, the correct drive, and click Write. This takes a few minutes, when finished, windows may ask you to reformat the drive, click cancel and remove the drive.

From there its as easy as inserting the SD into your pi and turning it on. If there is already another OS on the device, you may need to take a few extra steps, but after following through with the basic configuration, you should be all set!