## Installations

### Debian VM via an .iso

1. Download the .iso image from lab302-web/Debian
	1. By default it will go to your home Download directory (~/Downloads)
2. Start Oracle VM VirtualBox from Applications->System Tools->Oracle VM VirtualBox
3. Create a VirtualBox install image file in your */scratch* directory
	1. Click on "New”
		1. Type in a name (unique for yourself with Debian in the name, e.g. ajkDebian )
		2. Ensure Type and Version are set to “Linux” and “Debian (64 bit)” respectively
	2. Click on ‘Next’ to advance through the following steps:
	3. Leave the defaults for:
		1. Memory size (512 MB)
		2. Create a virtual hard drive now
			1. Click “Create”
		3. VDI
		4. Dynamically allocated
	4. File location and size
		1. **Important:** follow these steps carefully!
		2. Click on the little green arrow on the right side of the screen
		3. Select “File system” then “Scratch”
		4. Click on “Save”
		5. Click on “Save” again
		6. Click “Create”
	5. Click on the “Settings” gear icon
		1. Select “System”
		2. Under **Boot Order** check “Network”
		3. Click on **Network** in the left hand column
		4. On **Attached to** select “Bridged Adaptor”
		5. Click “OK”
	6. Reselect Settings if necessary:
		1. Under Storage:
			1. At Controller IDE click the “Circle +’ icon (add cd/dvd device)
			2. Click “choose disk”
			3. Select file system from the left column, then “home” then “downloads” in the directory area
			4. Select the only Debian item and “open”
			5. Under “Controller IDE” select the Debian item
			6. Click on CD icon under Attributes and select the Debian item there
			7. Click OK
	7. Click on green Start Arrow
	8. Select “Install” and hit <Enter> to start installation
		1. Use defaults until the “Configure the Network” screen shows
			1. In place of “debian” change the name to an identifier for yourself, e.g. ajkDebian
		2. Set Domain name to “hades.lab”
			1. Use tab to highlight the <continue> selection and hit enter
	9. Set root password to “rootpw”
	10. Create your user id
		1. Typing in your full name will generate a user id
			1. You may override the system generated ID if you wish
		2. You may use any password for your personal user account
	11. At “Configure the clock” ensure Eastern time zone is selected
4. When asked about partitioning the disk
	1. Choose: “Guided – Use entire disk”
		1. Remember you are setting up the virtual disk here for the virtual machine
	2. Choose the defaults (just hit enter) for the rest of the partition questions
	3. Eventually you will be asked to write the changes to disks. Change from the default answer of <no> to <yes> and continue
5. At “Configure the package manager”
	1. Scroll up and select “enter information manually”
	2. For hostname change “mirror” to lab302-repo.hades.lab
	3. Ensure /debian/ is on the next selection
	4. Leave HTTP proxy line blank
	5. Wait, wait, wait…
6. Choose <no> to participate in the survey
7. Under “Software Selection”:
	1. 2110 only
		1. Make sure entries “Desktop environment” and “Standard System” are checked. You should uncheck “Print Server” (saves some space.)
	2. 3110 only
		1. Make sure only “Standard System” is checked.
	3. Use the space bar to toggle selections
	4. Wait some more…
8. Any other questions can be left with their default value.
9. When the installation is finished, the VM will reboot
10. Log into the new Debian VM you just created with the ID you created in step above
	1. Take a screenshot of your VM running to include in your report. \*\* Don’t forget to give it an appropriate caption.
11. Shut down the VM when you’re done
	1. Run /sbin/poweroff as root (su first, if necessary)