**VM Ware Virtual Machine - Linux Installation**

1. Download and install VMWare Workstation Player (Windows 64-bit):

<https://my.vmware.com/en/web/vmware/free#desktop_end_user_computing/vmware_workstation_player/15_0>

1. Download Ubuntu Desktop ISO file (choose Ubuntu 18.04.1 LTS) and store it on your file system:

<https://www.ubuntu.com/download/desktop>

1. Run VM Ware. On VM Ware, click Player🡪File🡪New Virtual Machine.

Install Ubuntu from the Installer disk image file (iso) by Browsing to your Ubuntu iso file.

Follow the instructions. Note that your password will be required to log into your linux box.

Split virtual disk into multiple files.

Be sure AMD-V (AMD SVM Technology) is enabled in your bios settings to allow VM software to utilize the additional hardware capabilities provided by Virtual Technology.

* navigate to settings,
* select update & security,
* select recovery from the left menu,
* click restart now under advanced startup,
* click troubleshoot,
* click advanced options,
* select UEFI Firmware Settings,
* click restart…

If you have to interrupt your Ubuntu install to change the bios settings, delete your Ubuntu virtual machine and start again.

Be sure to install VM Ware tools for Linux.

1. Wait a while for the Virtual Machine to start up.
2. Click on your user name and provide the password to log in.
3. Run the software updater (it should run automatically). You may have to wait a while.
4. Open the terminal (right-click Open Terminal). Run in full screen mode.
5. You may have to perform another update: $ sudo apt update
6. Install gcc: $ sudo apt install gcc
7. Install g++: $ sudo apt install g++
8. Install the vim editor: sudo apt install vim
9. Install the make facility: sudo apt install make
10. Install ifconfig for network configuration: sudo apt install net-tools
11. Install the ssh server: sudo apt install openssh-server
12. You can transfer files between your Windows Desktop and your Virtual Machine via the WinSCP utility once your openssh-server has been installed.

* Get the IP address of your machine: ifconfig
* Run WinSCP and connect to this address as if it were a real machine.
* Transfer files back and forth between Windows and Linux

1. Etc…