Environment Setup

Downloads

Download & install Virtual Box (https://www.virtualbox.org/wiki/Downloads)

Download Kali Linux .iso (https://www.kali.org/downloads/)

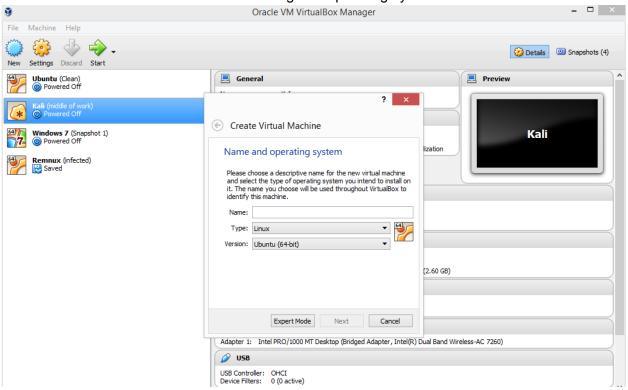
Download Remnux .ova (https://remnux.org/docs/distro/get/)

Download Ubuntu .iso (https://www.ubuntu.com/download)

Setup Ubuntu & Kali Virtual Machines

Open Virtual Box and click on the "New" button on the top of the screen select the type and version of the operating system you are trying to install.

If there is not a Version that matches the targeted operating system choose "Linux other".



Once your machine has been created, double click on the machine to power it on. You will be prompted to provide a media. Browse to your download folder and pick the previously downloaded .iso files.

When installing **Kali**, you will see the following:

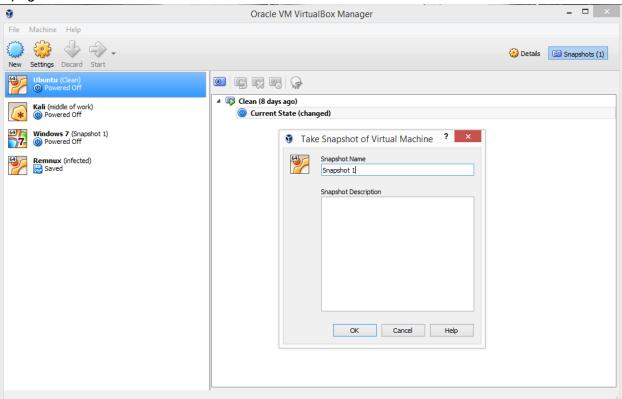
Choose any option you would like. Usually, you'd want to install the OS, but since we can take snapshots, it doesn't matter if you run the live version or not.

When installing **Ubuntu** you can choose to "Install" and go through the setup process.

Once you are up and running, go back to the Virtual Box VM Manager to create a snapshot of the clean machine.

Click on the machine you would like to snapshot.

Then, up in the right hand corner, click on the button with the camera icon. It should take you to a page that looks like this:

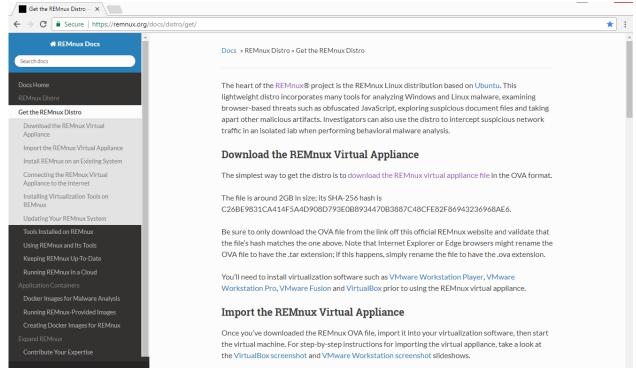


"Take snapshot" and give the snapshot a name that will let you know what state the machine is in.

At any point in your analysis, you can return to the state of the machine using this snapshot.

Setup Remnux Virtual Machine

Download the remnux .ova file.



If you are using google chrome, you may see the following error; download anyway.

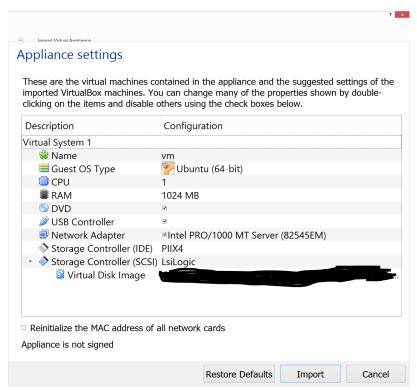


Google Drive can't scan this file for viruses.

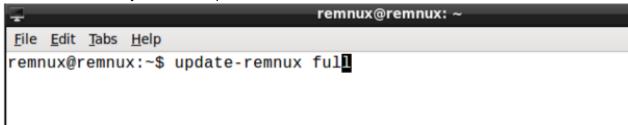
remnux-6.0-ova-public.ova (2.0G) is too large for Google to scan for viruses. Would you still like to download this file?

Download anyway

Once the file has been downloaded double click on the file. Virtual Box should open with a window to import an appliance:

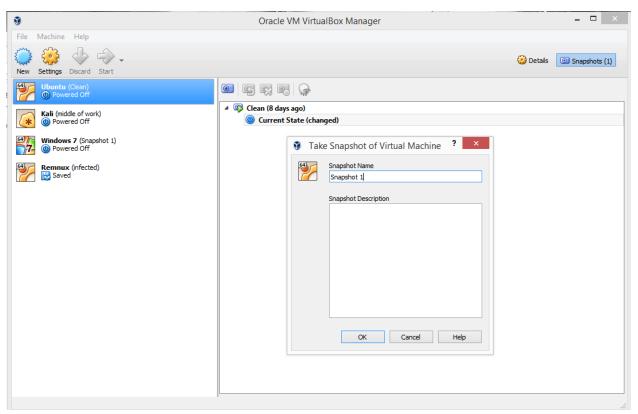


Click Import. That's all you should have to do. Once the virtual machine starts, it's recommended that you run the update command in the terminal.



Take a snapshot of the machine

Then, up in the right hand corner, click on the button with the camera icon. It should take you to a page that looks like this:



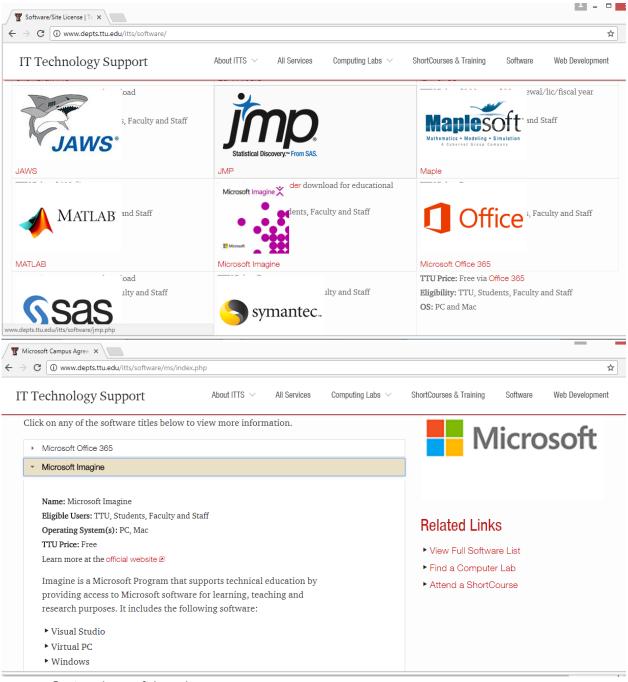
"Take snapshot" and give the snapshot a name that will let you know what state the machine is in.

At any point in your analysis, you can return to the state of the machine using this snapshot.

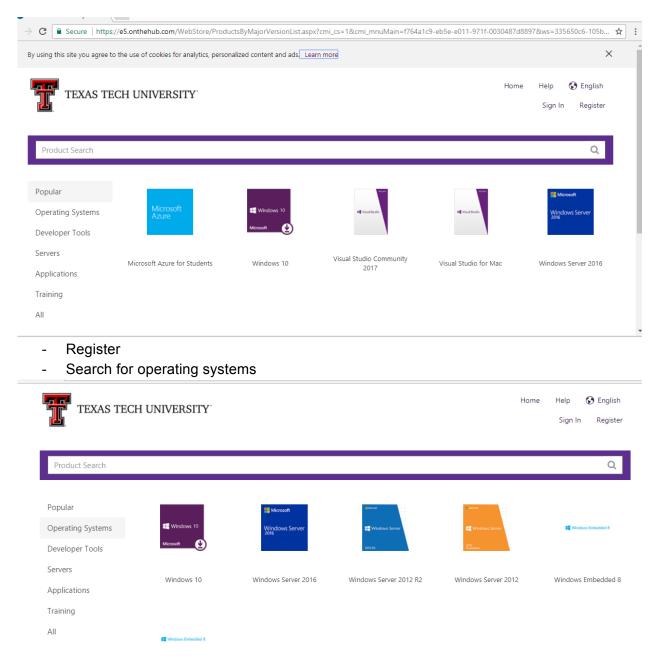
Setup Windows Virtual Machine (requires a windows key)

TTU offers operating systems to students. To retrieve your key and setup a Windows VM, follow the instructions below:

- Go to the ttu software page (http://www.depts.ttu.edu/itts/software/)



- Go to microsoft imagine



- Add to cart, and checkout. Follow the instructions about creating an image.

Windows 10 IoT Core, Version 1703 (Update March 2017)



Windows 10 IoT Core brings the power of Windows to your device and makes it easy to integrate richer experiences with your devices such as natural user interfaces, searching, online storage and cloud based services.

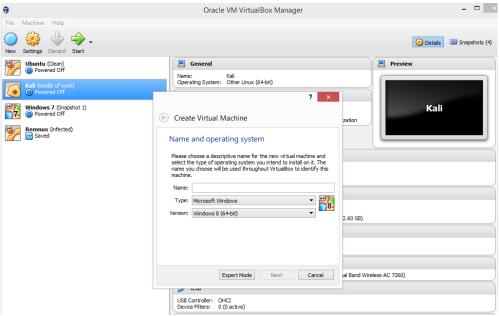
Windows 10 IoT Core, Version 1703 (Update March 2017) (ARM, x86, x64) (English) - Microsoft Imagine

Free

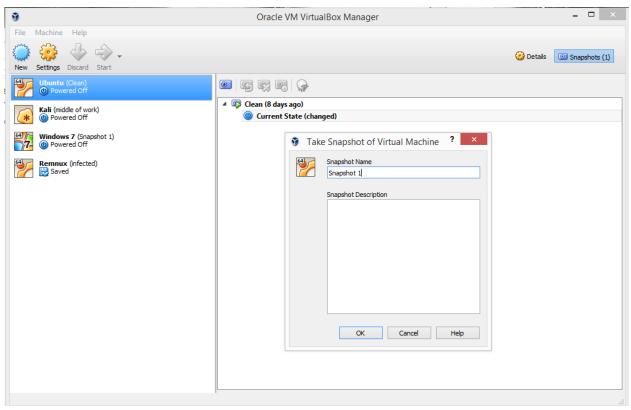
Add to Cart

Available to: Students/Faculty/Staff

- Create the .iso (ftp://ftp.kivuto.com/pub/docs/Working with Image Files.pdf)
- Open virtual box & create a new machine



Take a snapshot of the machine; in the right hand corner, click on the button with the camera icon. It should take you to a page that looks like this:



"Take snapshot" and give the snapshot a name that will let you know what state the machine is in.

At any point in your analysis, you can return to the state of the machine using this snapshot.

Troubleshooting

I only see 32-bit operating systems in the dropdown list. What now?

- If you are in VirtualBox trying to create a new machine and only see options for 32-bit machines you will likely need to change settings in the BIOS.
 - If you don't already know, look up the key on the keyboard that allows you to navigate the the BIOS. The key combination varies depending on the manufacturer.
 - Restart your computer and press the key combination to enter BIOS
 - When you get to the BIOS you will need to enable virtualization. Again, this looks different for each computer manufacturer, but you are looking for a setting that will allow you to enable virtualization.
- After the BIOS settings have been changed, you should see the 64-bit options in the virtual box dropdown. From there, you can create virtual machines with operating systems of your choice.

