1. VM Setup

1. You should try this out much before the lecture to ensure everything goes smoothly when the lecture starts.

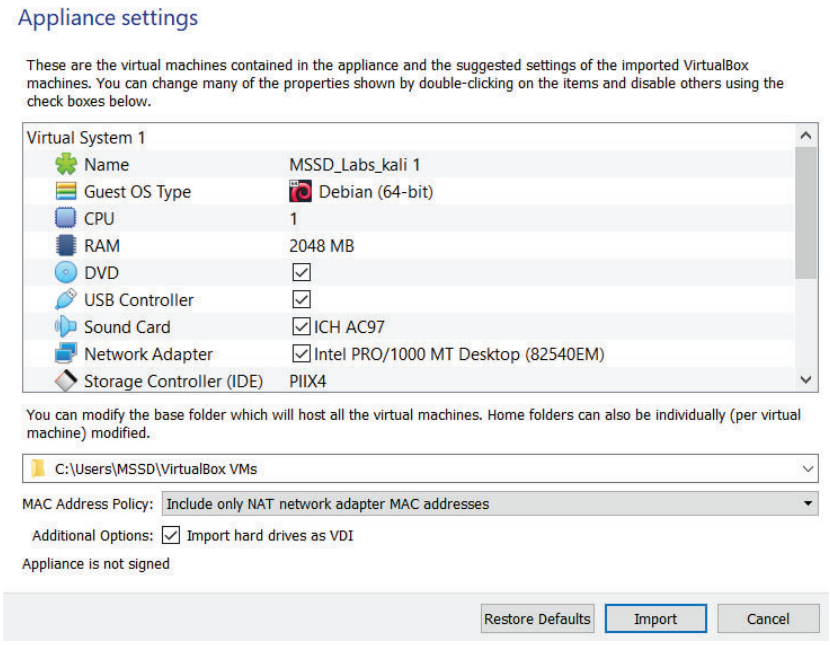
2. Download and install the latest Virtual Box from their website

   https://www.virtualbox.org/wiki/Downloads

3. All Virtual Machines (VM) to be used for Security Tools Lab 1 are available at the below link:
   https://www.dropbox.com/sh/zlcj6xcoz3yakwl/AAB9qrEQnawfWSlm8cS07p4Ta?dl=0

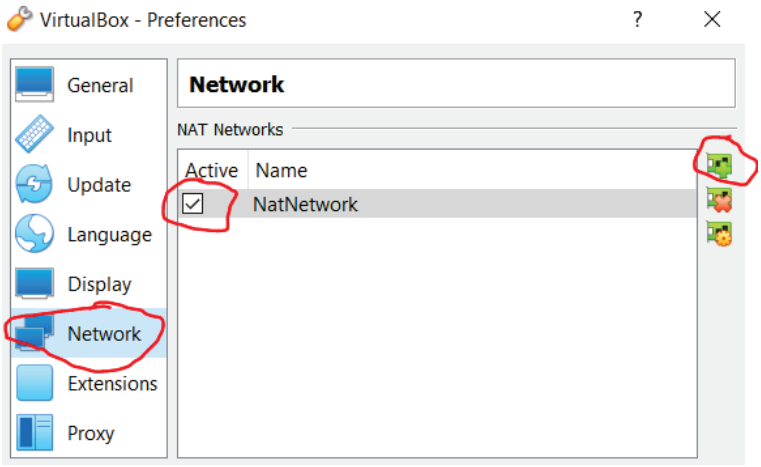
   For Week 1, please download Kali VM (highlighted below).

4. Please ensure you have at least 20GB free in your hard disk and 8GB of RAM to be able to run the VM successfully. Once both VirtualBox and the VM are downloaded, proceed to install the VM by double clicking on the *Kali.ova* file and you will see a similar screen as below.

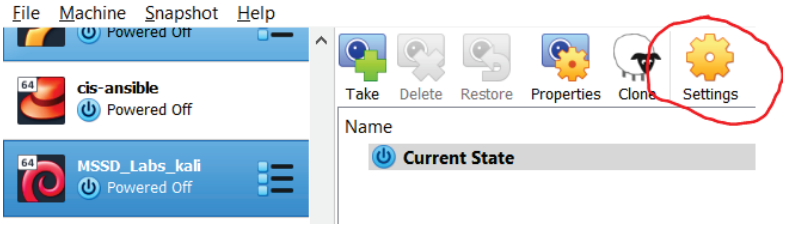


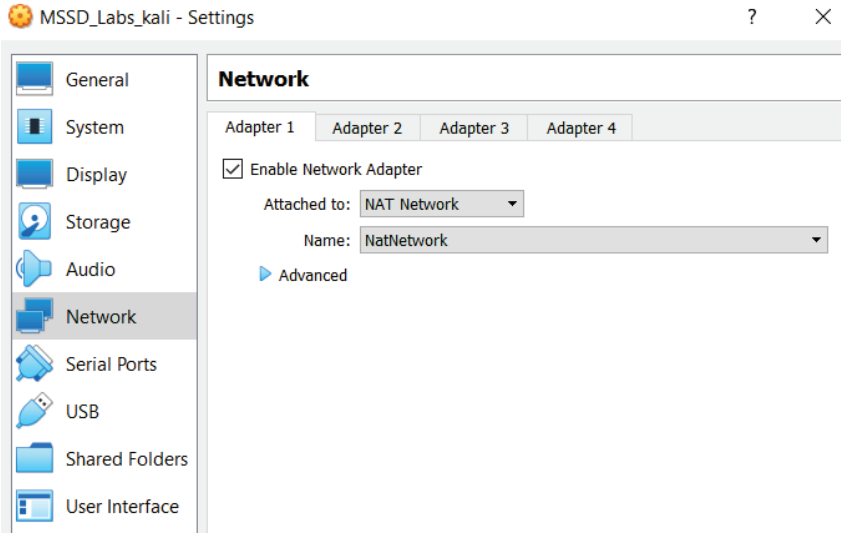
5. Do not change any of these and proceed by clicking on 'Import'.
6. After successful import, you will see it in the VM list on VirtualBox.

7. Click on ‘File’ -> ‘Preferences’. In ‘Preferences’ click on ‘Network’. For those who does not have any ‘NatNetwork’, click on the ‘+’ button to add one. Ensure that the box next to NatNetwork is ticked, then click ‘Ok’.

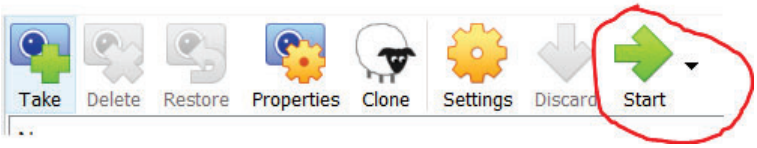


8. Click on Settings. In the Settings menu, click on ‘Network’. Note that this is the Virtual Machine settings, and not VirtualBox preferences as in the previous case. Ensure you chose NAT Network and click ‘Ok’.



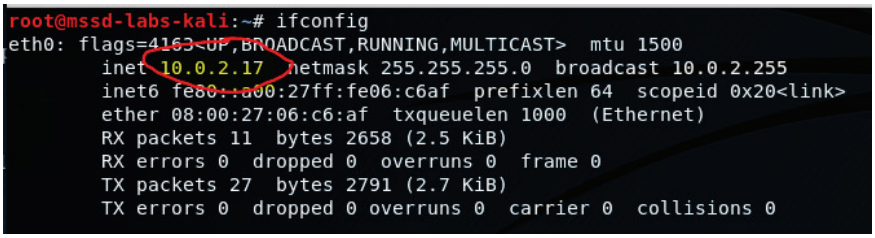


9. You can now proceed to start the VM by clicking on ‘Start’.



10. Once the machine is started, proceed to login using ‘root’ as username and ‘toor’ as password. The password is the reverse of ‘root’ and everything is in small letters.

11. In the VM, right click on the desktop and select ‘Open Terminal’. Type ‘ifconfig’ and ensure your IP is in the form of 10.0.2.x. This shows that your VM is ready for the lab. Please ensure you have your VM in this state at the beginning of class.



2. Python Setup

We will be using Python 3 in this lab. Please ensure it is setup before class. You can follow the instructions here (https://www.python.org/downloads/).