Setting up the *Damn-Vulnerable-Device* Hands-on session

December 14, 2022

1 Prerequisites

This tutorial will be organized using Virtual Machines. For this hands-on session we recommend using `VirtualBox` as a client. If this is not already installed, please go ahead and install it on your system.

Once installed, open the Network Manager of Virtualbox and select NAT Networks. Create a new NAT network to ensure that both the Virtual Machines are able to see each other and are able to interact with one another.

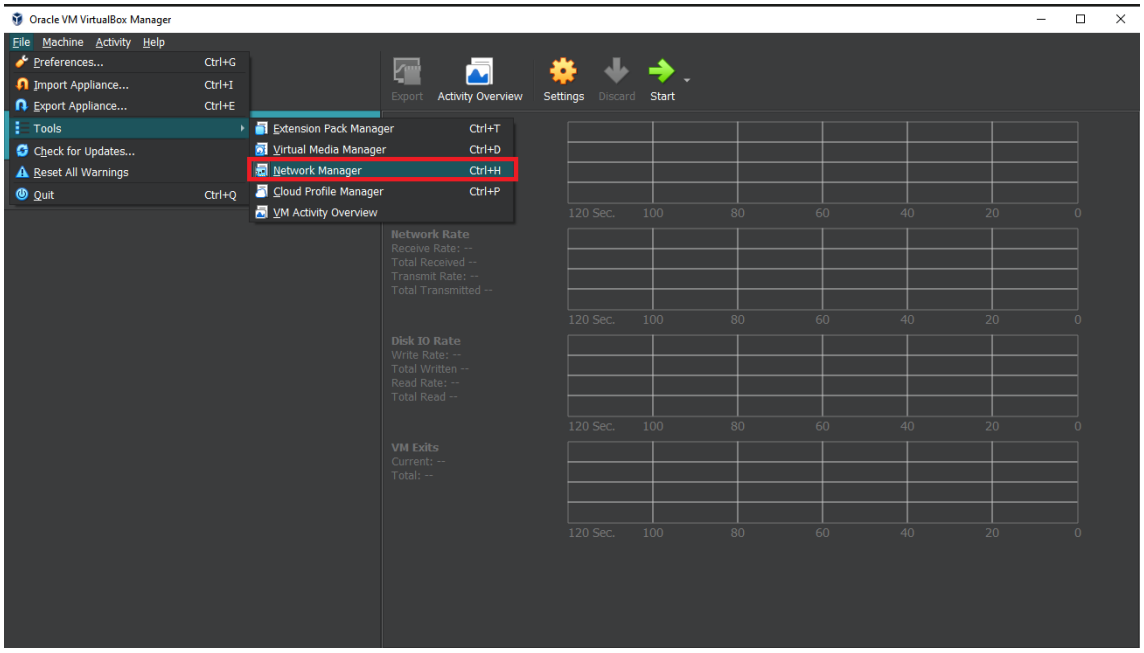

Figure 1: Network Manager

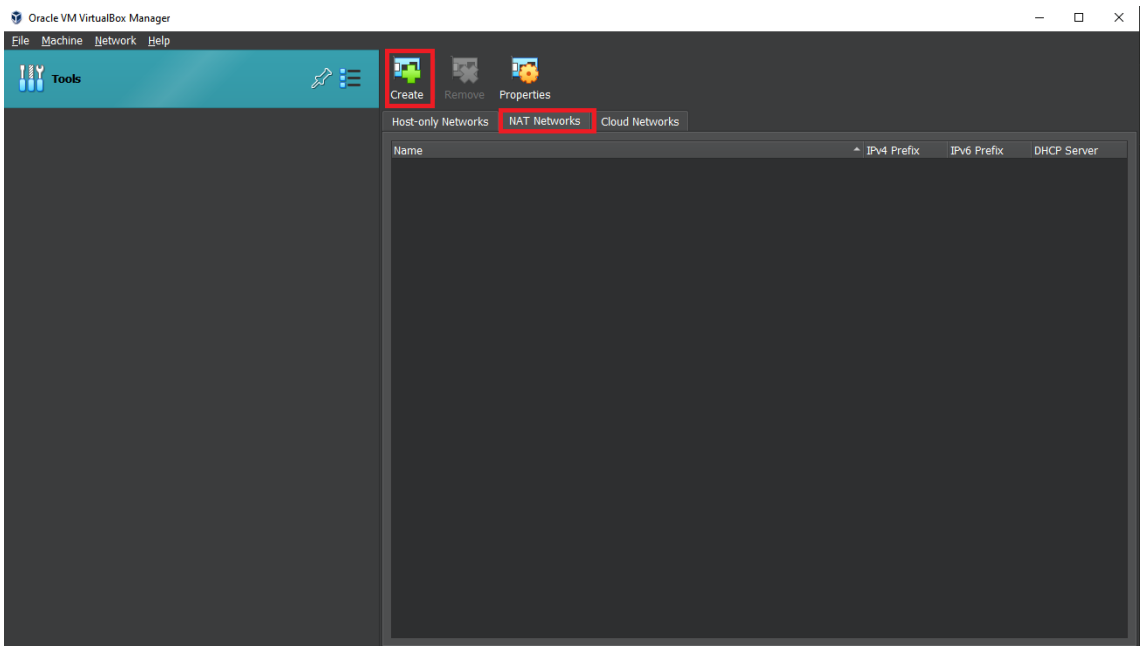

Figure 2: Create a new NAT Network

2 Importing the images

2.1 DVD Attacking Kali VM

The attacking VM can be found in the folder provided to you for this session named: *DVD-VMs*. Go ahead and start the VirtualBox software, when ready, click the *Import* button.

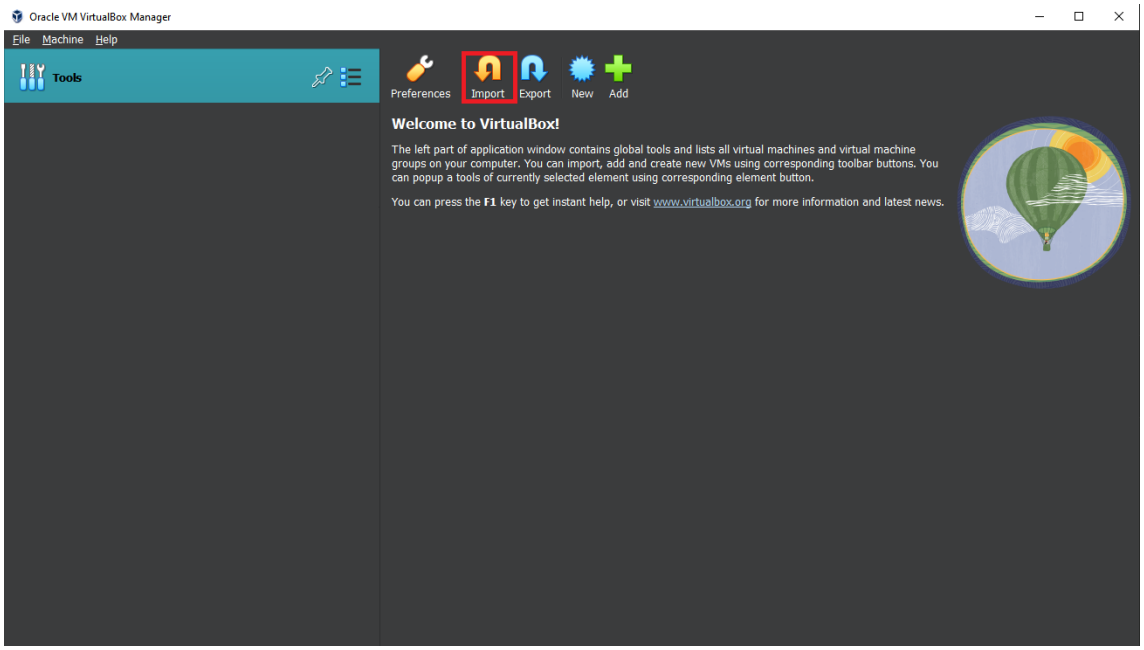

Figure 3: Import an VM image

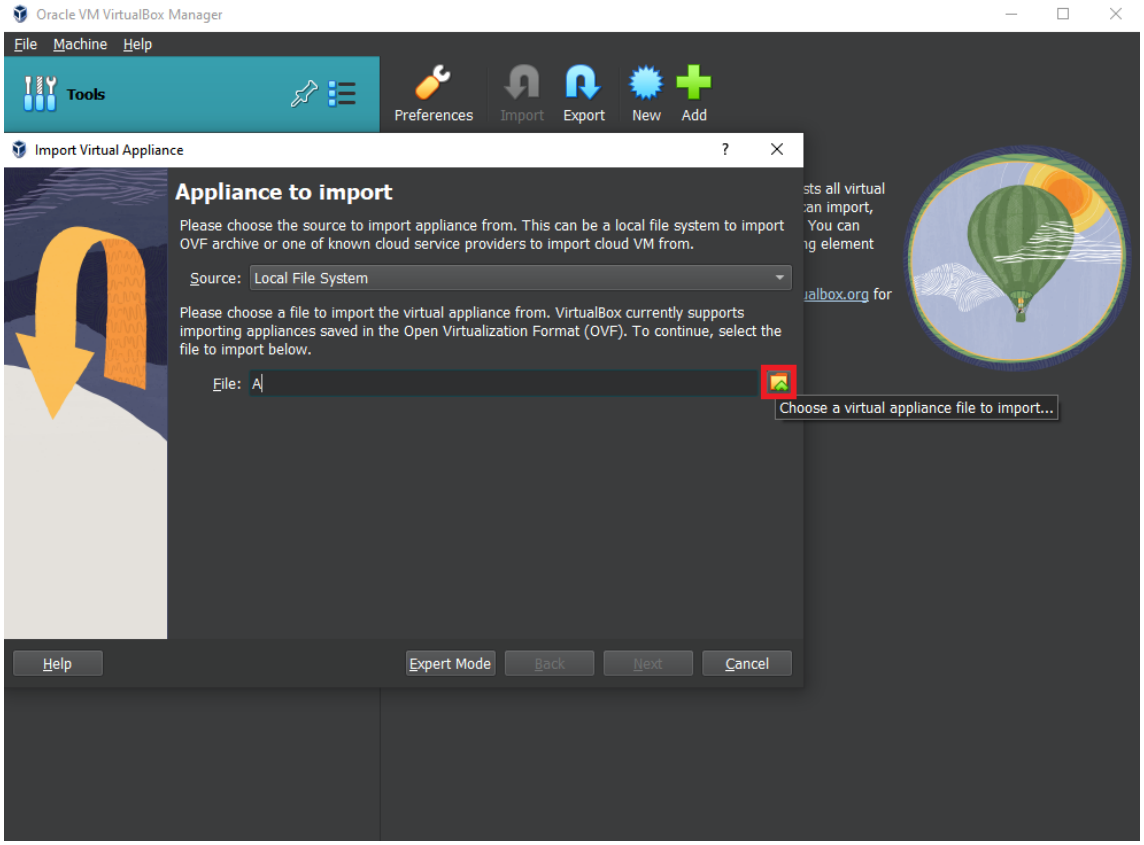

Figure 4: Import the provided OVA image

Now go ahead and select the attacking image from your host device, it will be named: *DVD Attacking-Kali.ova*. Once selected, click finish to start importing the image into VirtualBox.
This might take some time.

Once the import is finished, boot it up by double clicking the newly added image in the workstation. The credentials to login are **kali** for both the login as the password.

Check if the Guest VM has both a valid IP-address as well as a working internet connection. To do this, run the following commands:

```
$ ip a
```

```
$ ping google.com
```

If one of these returns an unexpected output (i.e. it has no IP or the ping does not reach/return), please send a mail to the following mail address dairo.deruck@kuleuven.be and we will help you try and fix this problem.

2.2 Setting up the Victim DVD VM

To prepare the Victim DVD image, you will need to follow the same first steps as before, but this time select the *Alpine DVD.ova* image. The completion of the setup will be different compared with the previous image.

So once again, once the VirtualBox Workstation is finished importing and setting up your guest VM, boot it up by double clicking the image.

To ensure the image has a working internet connection, go to the network settings of the guest VM. Once opened, select the *Bridged* option and click ok. Afterward, once again open the network settings, and reselect the *NAT Network* option.

This will reset the network interface and force the guest VM to restart its network connection using our preset settings.

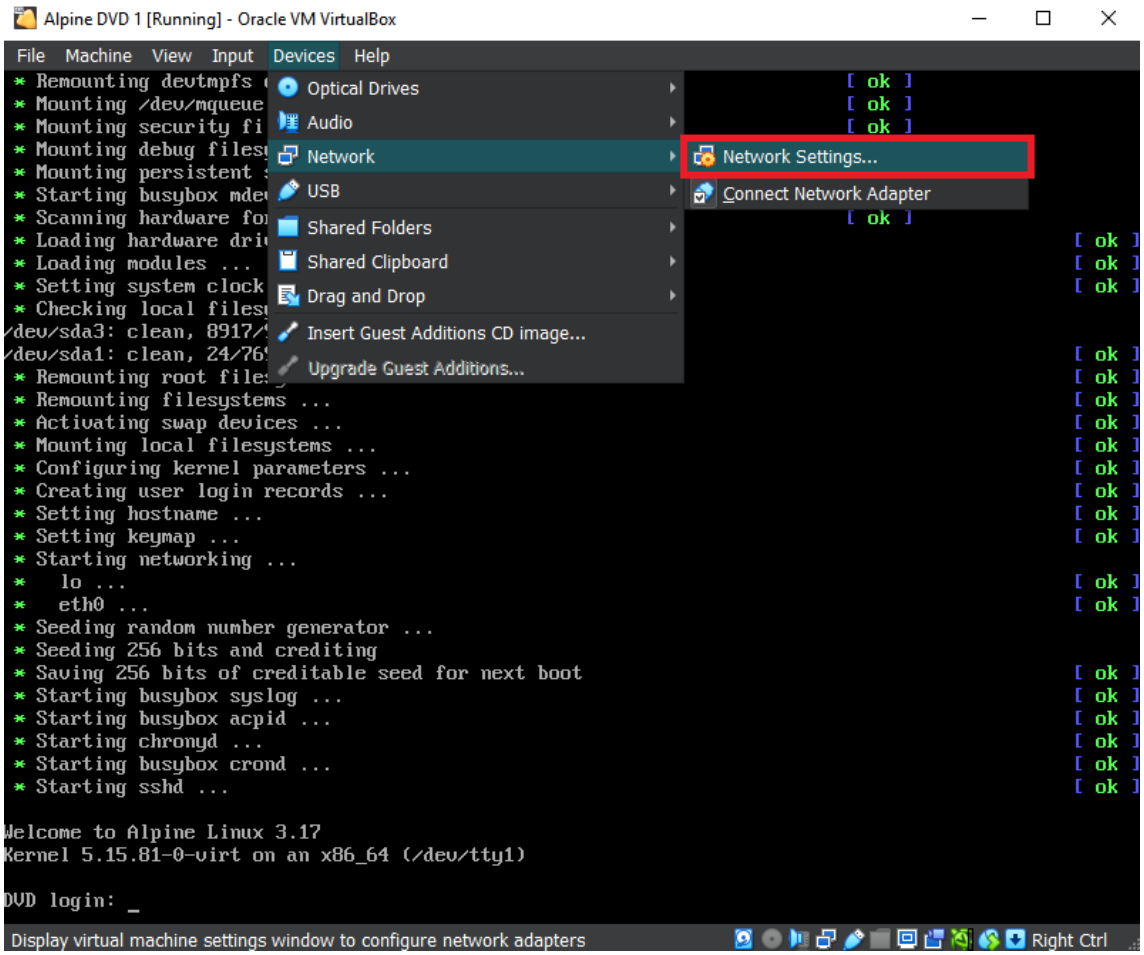

Figure 5: Guest VM network Manager

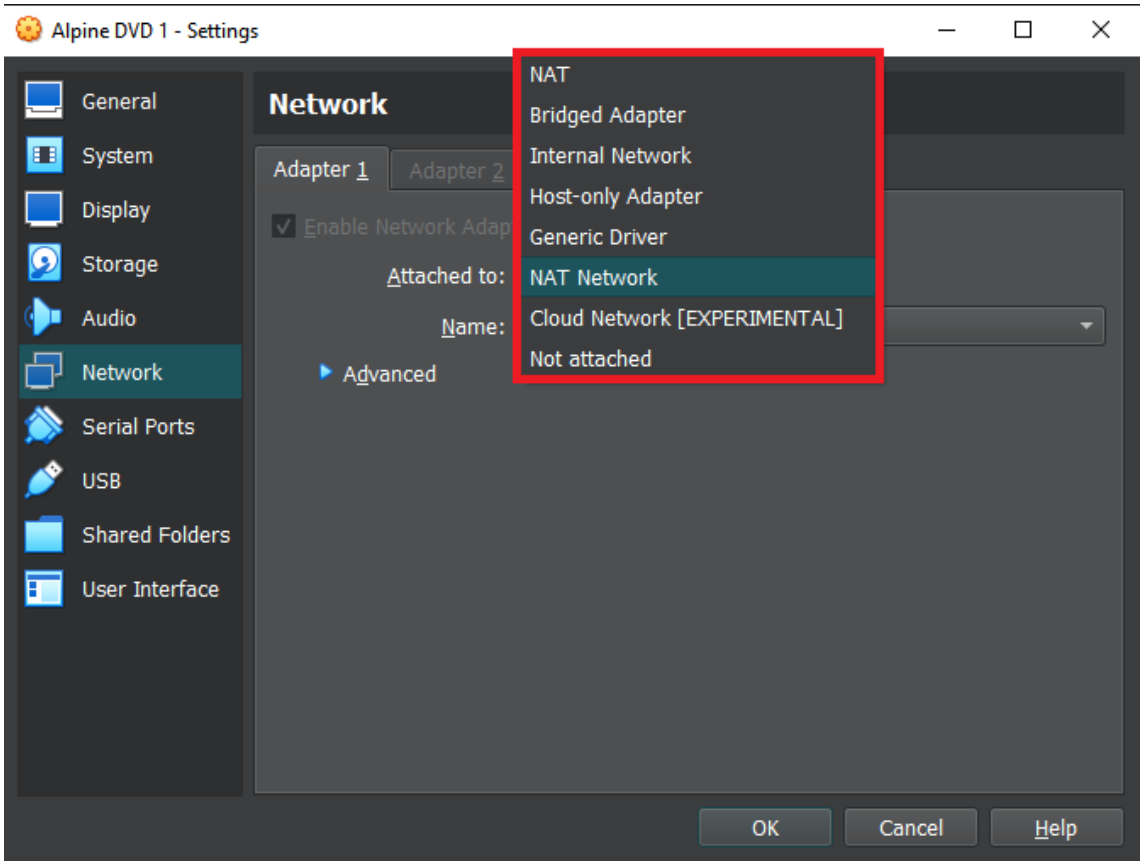

Figure 6: Different available network configuration

Now everything should be ready for the hands on session! If there are any problems or uncertainties, do not hesitate to contact us using the following mail address: dairo.deruck@kuleuven.be.

See you there!