

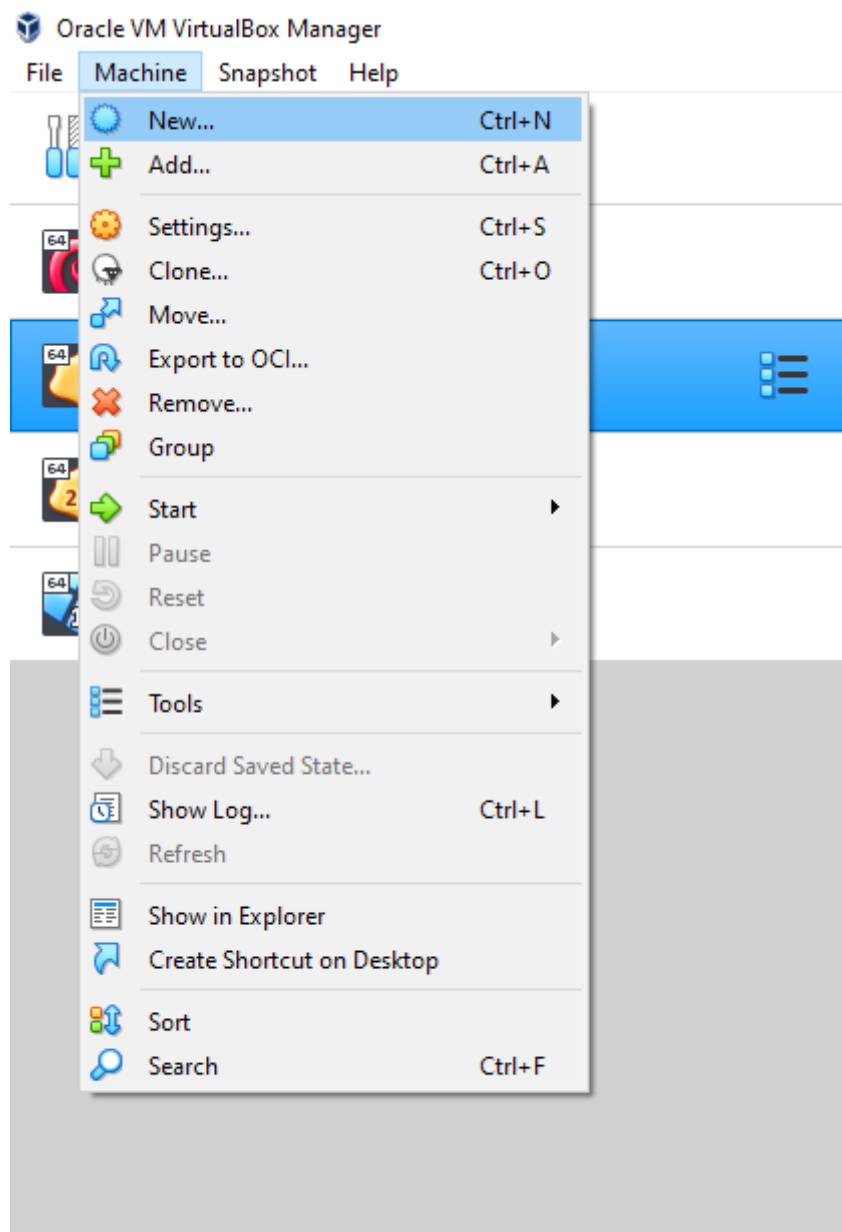
# How to create a lab for ethical hacking

I will show how you can use Metasploitable to make your own lab for learning and testing. Please always use your knowledge for good things, the world will be better this way.

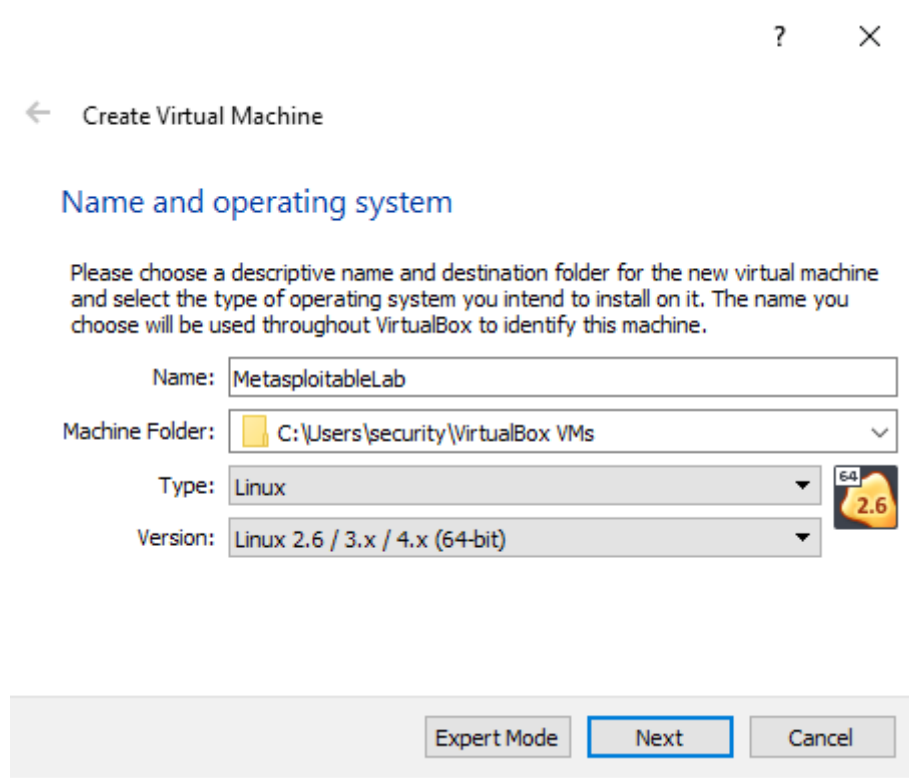
Where you can download Metasploitable – <https://sourceforge.net/projects/metasploitable>

**Note: I used Kali Linux in my Oracle VM VirtualBox.**

- Open your VirtualBox, go to “Machine” and click “New”.

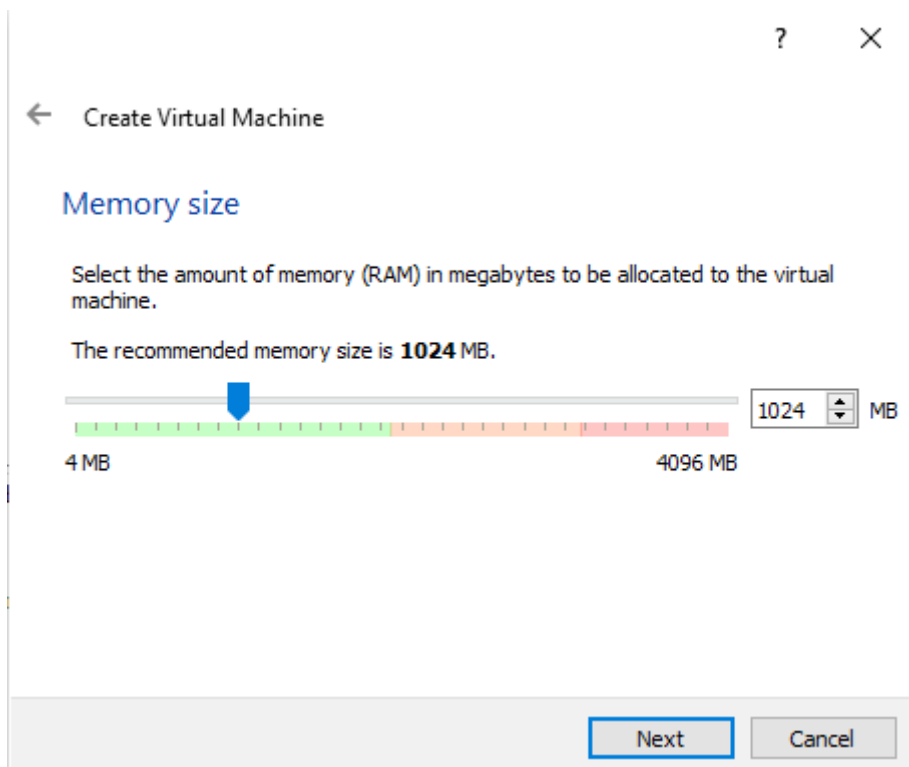


- Choose the “Name”, “Type” and “Version”. Click “Next”.



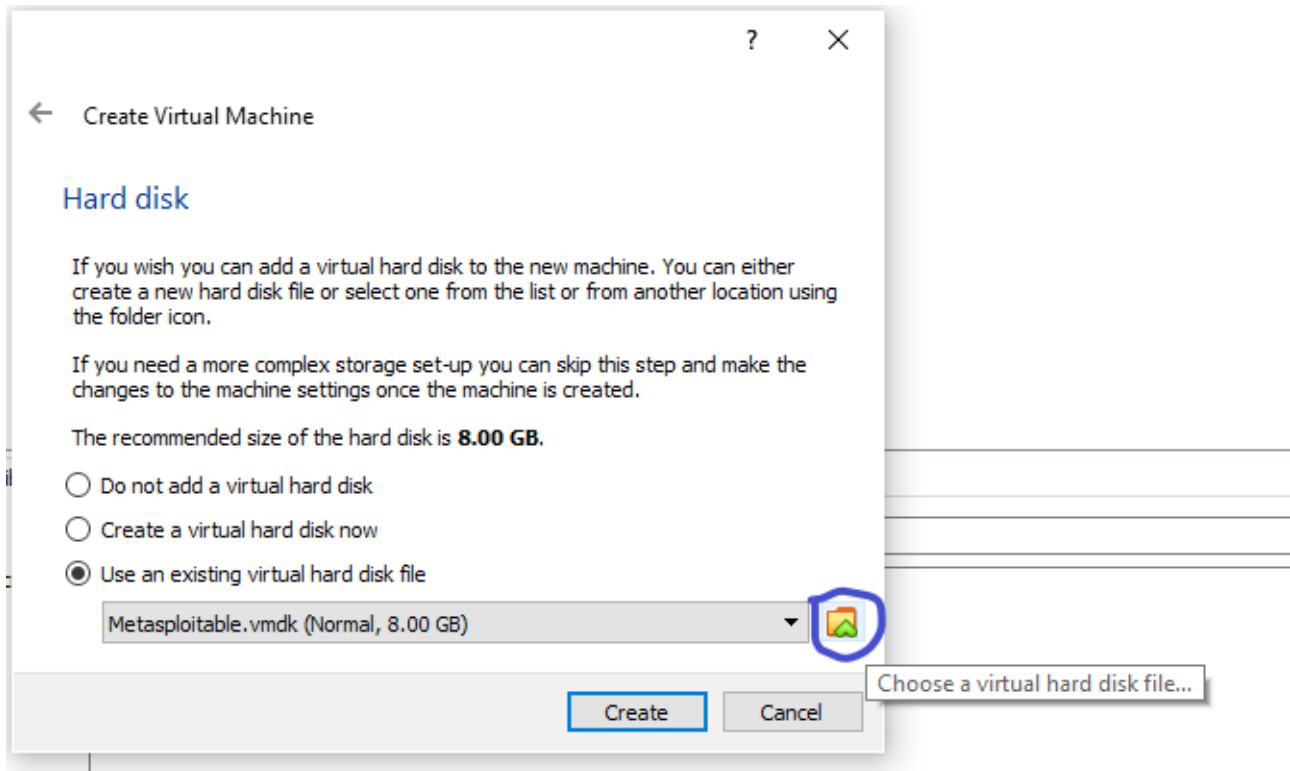
The screenshot shows the 'Create Virtual Machine' dialog box in Oracle VM VirtualBox. The title bar includes a question mark and a close button. The main heading is 'Name and operating system'. Below it, a paragraph of instructions reads: 'Please choose a descriptive name and destination folder for the new virtual machine and select the type of operating system you intend to install on it. The name you choose will be used throughout VirtualBox to identify this machine.' The form contains four fields: 'Name' with the text 'MetasploitableLab', 'Machine Folder' with a folder icon and the path 'C:\Users\security\VirtualBox VMs', 'Type' with a dropdown menu set to 'Linux', and 'Version' with a dropdown menu set to 'Linux 2.6 / 3.x / 4.x (64-bit)'. To the right of the version dropdown is a small icon of a yellow box with '64' and '2.6'. At the bottom right, there are three buttons: 'Expert Mode', 'Next' (highlighted with a blue border), and 'Cancel'.

- Select the memory size.

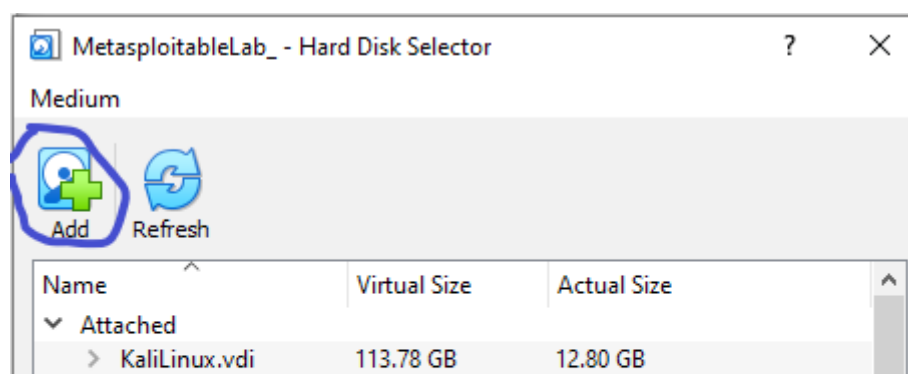


The screenshot shows the 'Create Virtual Machine' dialog box in Oracle VM VirtualBox, specifically the 'Memory size' step. The title bar includes a question mark and a close button. The main heading is 'Memory size'. Below it, a paragraph of instructions reads: 'Select the amount of memory (RAM) in megabytes to be allocated to the virtual machine.' Below this, it states: 'The recommended memory size is **1024 MB**.' A horizontal slider is shown with a blue handle. The slider has a green section on the left and a red section on the right. The left end is labeled '4 MB' and the right end is labeled '4096 MB'. To the right of the slider is a numeric input field containing '1024' and a unit dropdown set to 'MB'. At the bottom right, there are two buttons: 'Next' (highlighted with a blue border) and 'Cancel'.

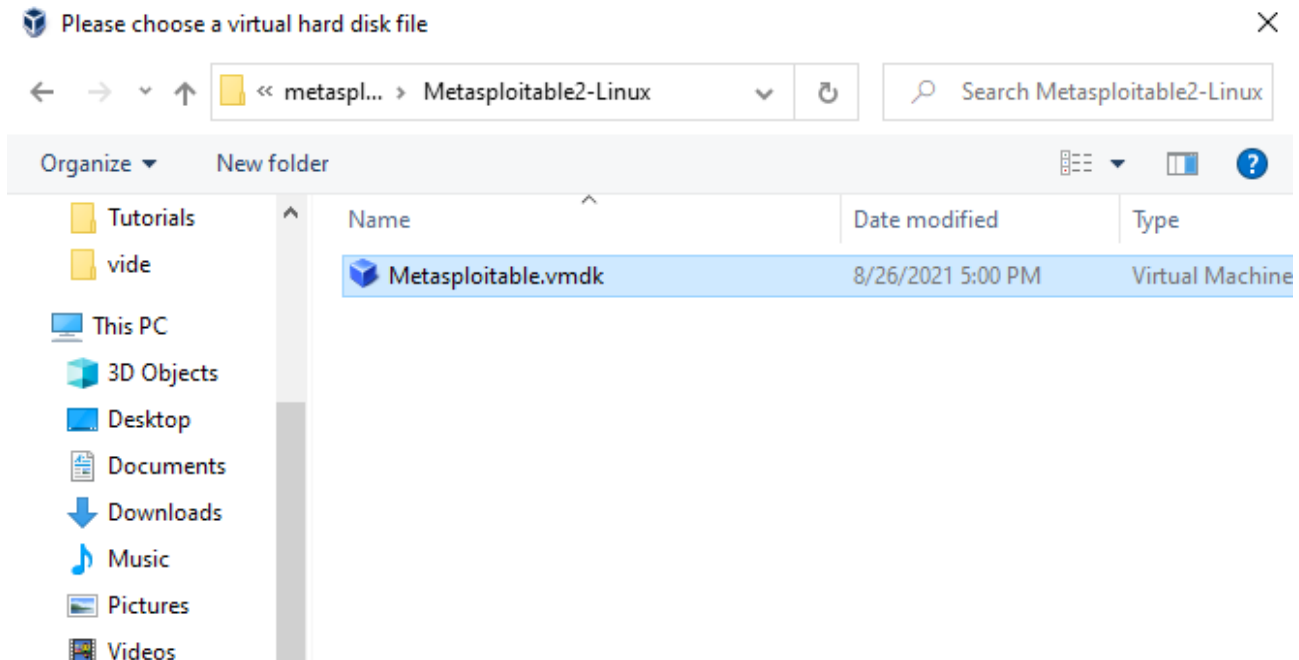
- Select the last option (“Use an existing virtual hard disk file”) and choose a virtual hard disk file.



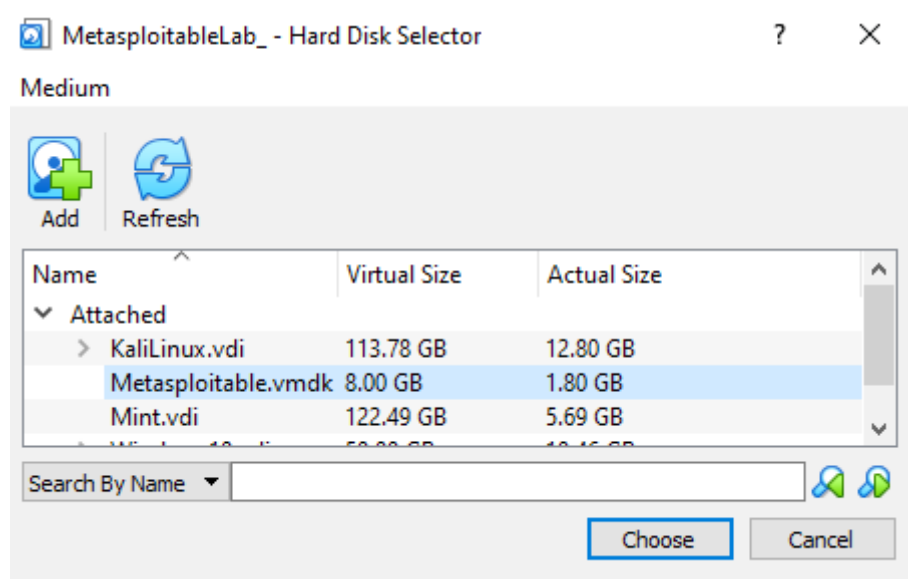
- Please choose “Add”



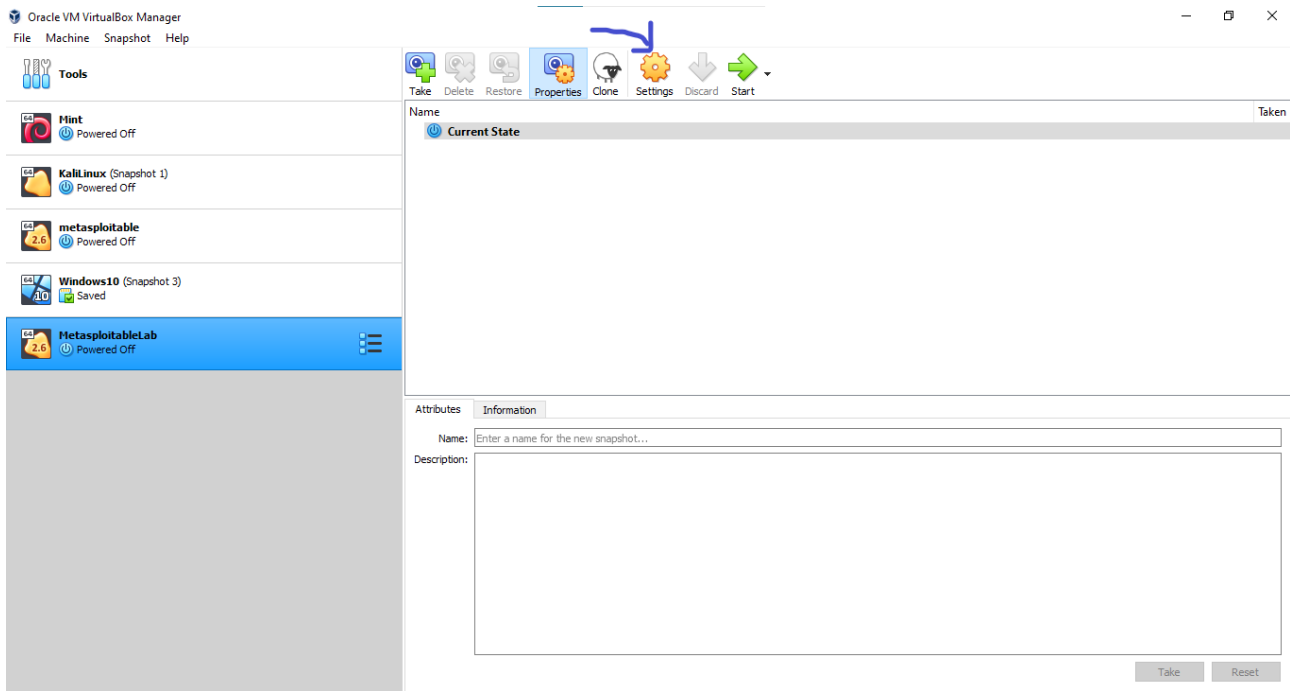
- Now go where you put your Metasploitable.vmdk (it must be extracted).



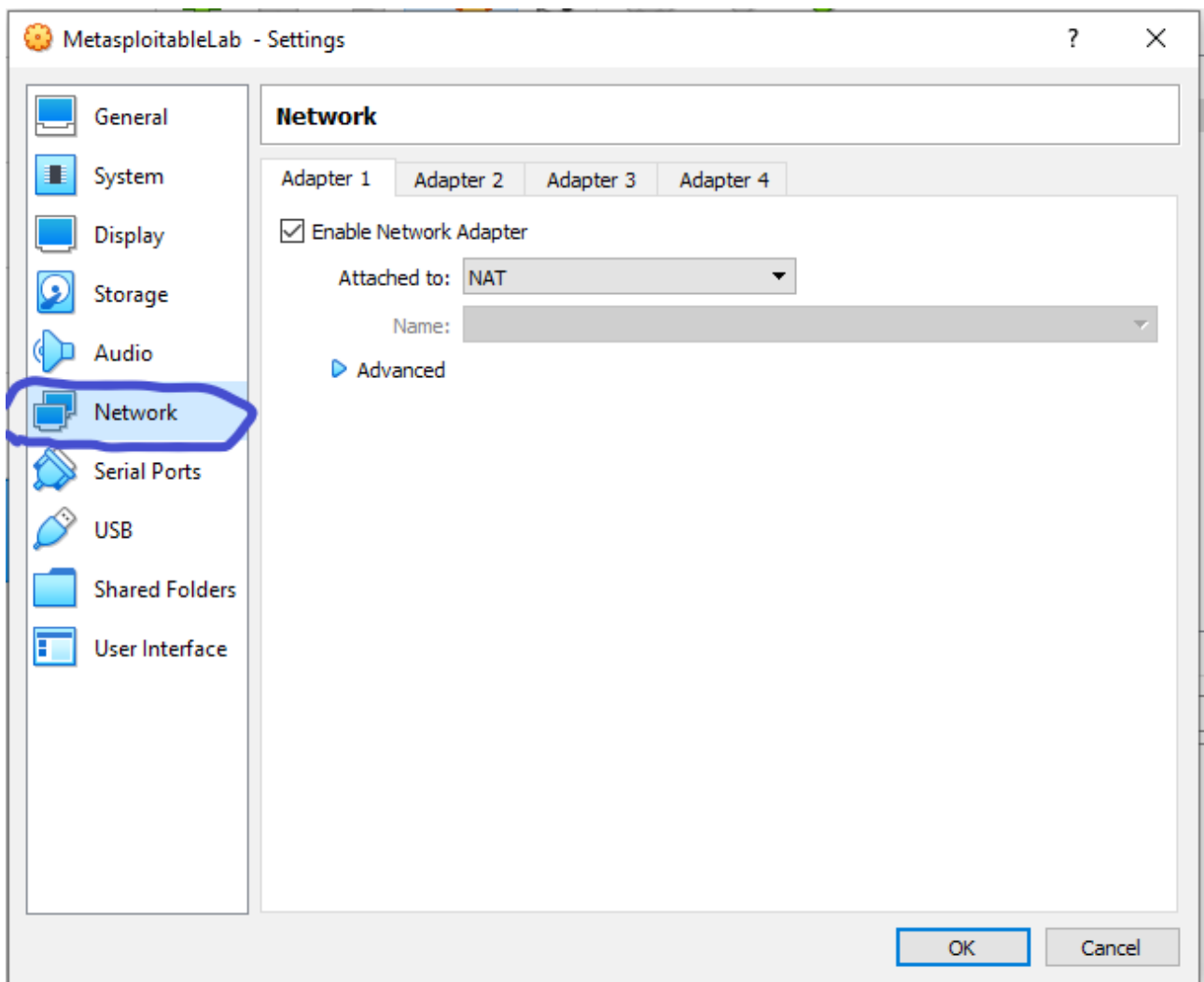
- Your Metasploitable.vmdk will be attached like showed below. Click “Choose”.



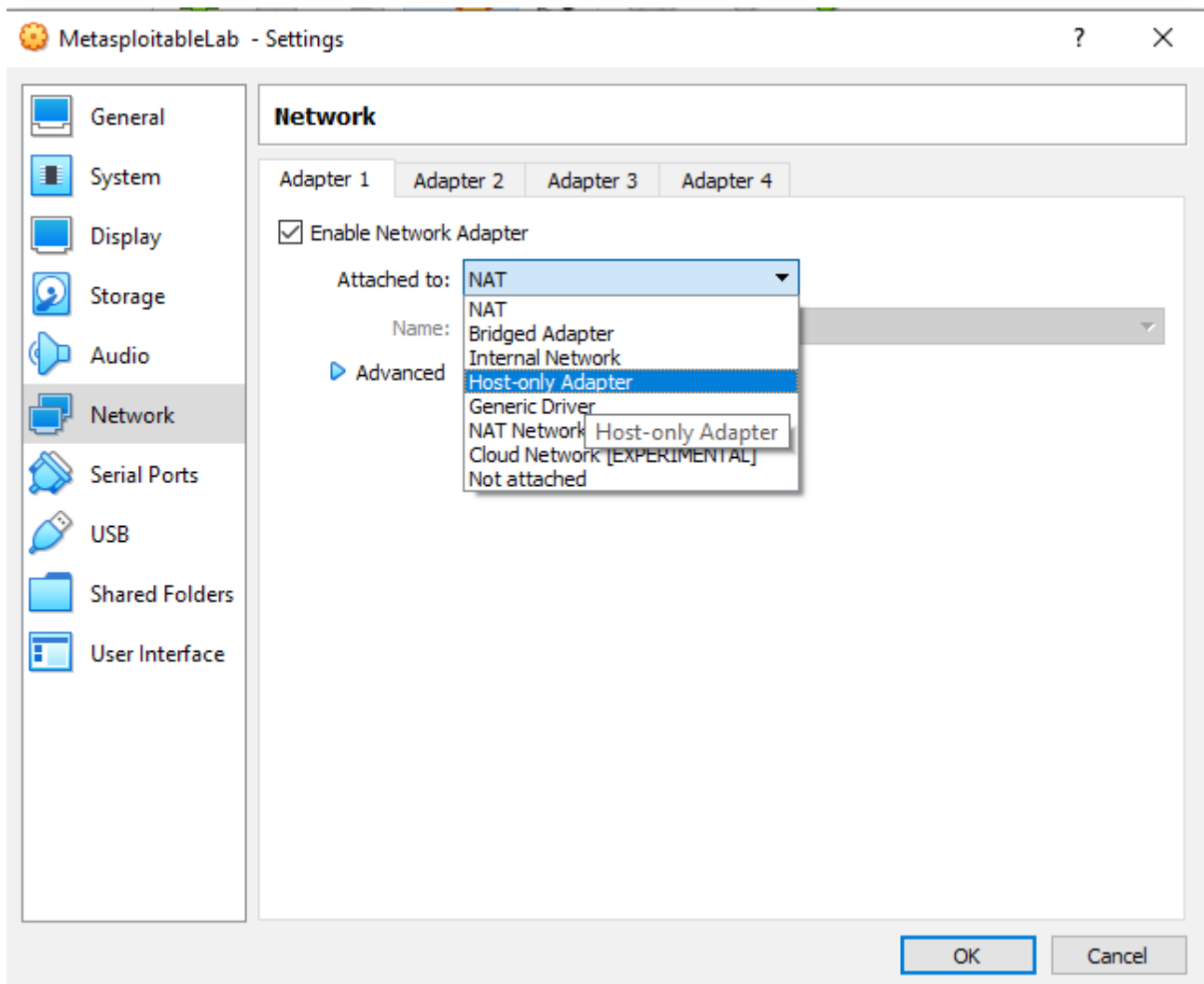
- After go to “Settings”.



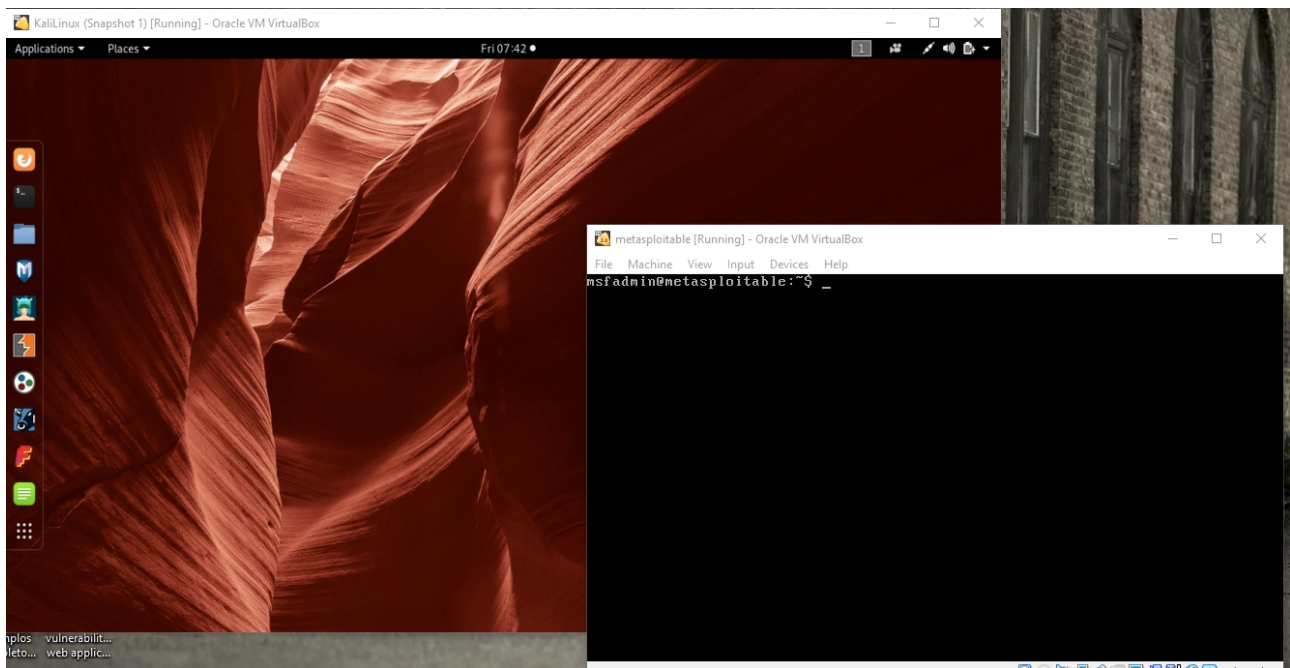
- Select “Network”.



- In “Attach to” put “Host only adapter” and click “OK”. Make the same configuration in your Kali Linux as well. Kali Linux must be in “Host only adapter”!



- Let's test! Open your Kali Linux and your Metasploitable.



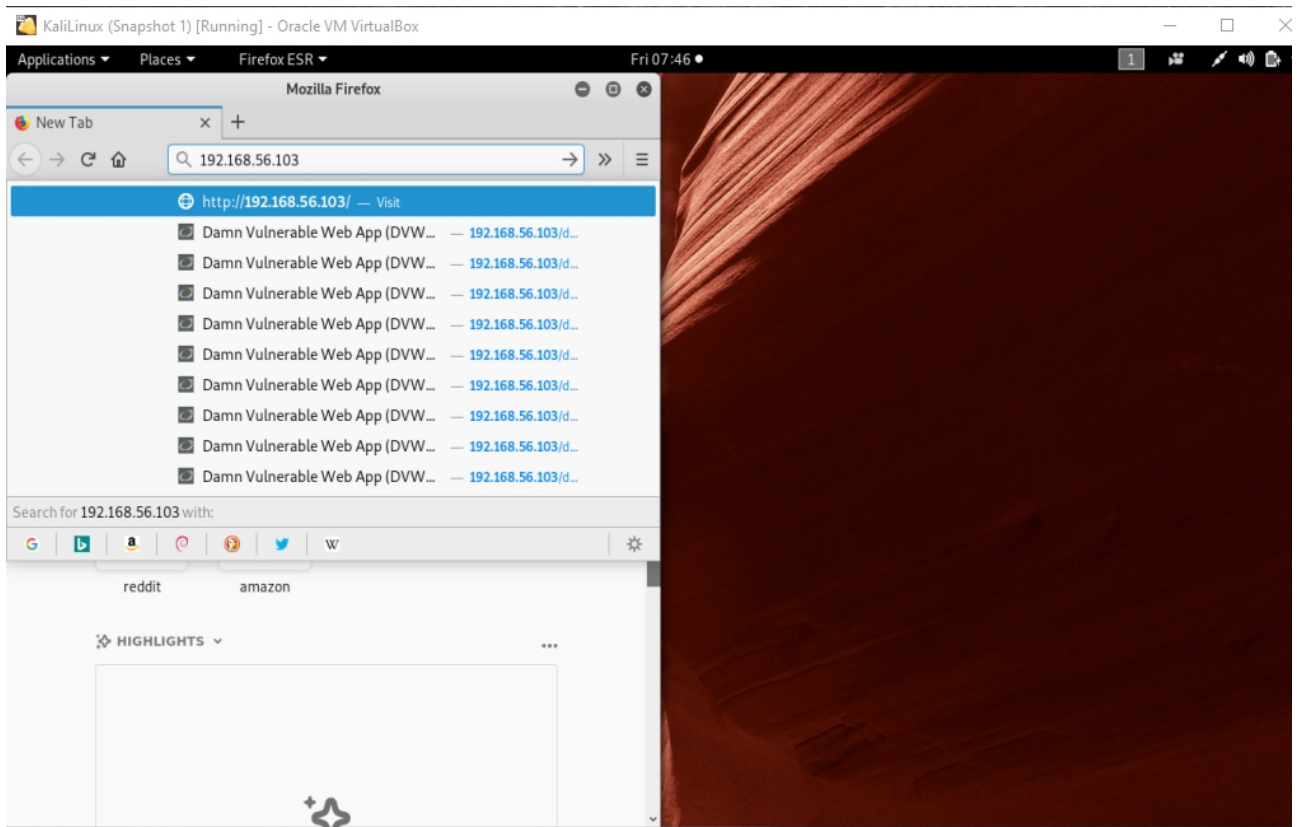
- Get the IP of your Metasploitable, in my case is 192.168.56.103

```
metasploitable [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
msfadmin@metasploitable:~$ ifconfig
eth0      Link encap:Ethernet  HWaddr 08:00:27:20:ca:5a
          inet addr:192.168.56.103  Bcast:192.168.56.255  Mask:255.255.255.0
          inet6 addr: fe80::a00:27ff:fe20:ca5a/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:7 errors:0 dropped:0 overruns:0 frame:0
          TX packets:30 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:1787 (1.7 KB)  TX bytes:3924 (3.8 KB)
          Base address:0xd020 Memory:f0200000-f0220000

lo        Link encap:Local Loopback
          inet addr:127.0.0.1  Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING  MTU:16436  Metric:1
          RX packets:106 errors:0 dropped:0 overruns:0 frame:0
          TX packets:106 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:24033 (23.4 KB)  TX bytes:24033 (23.4 KB)

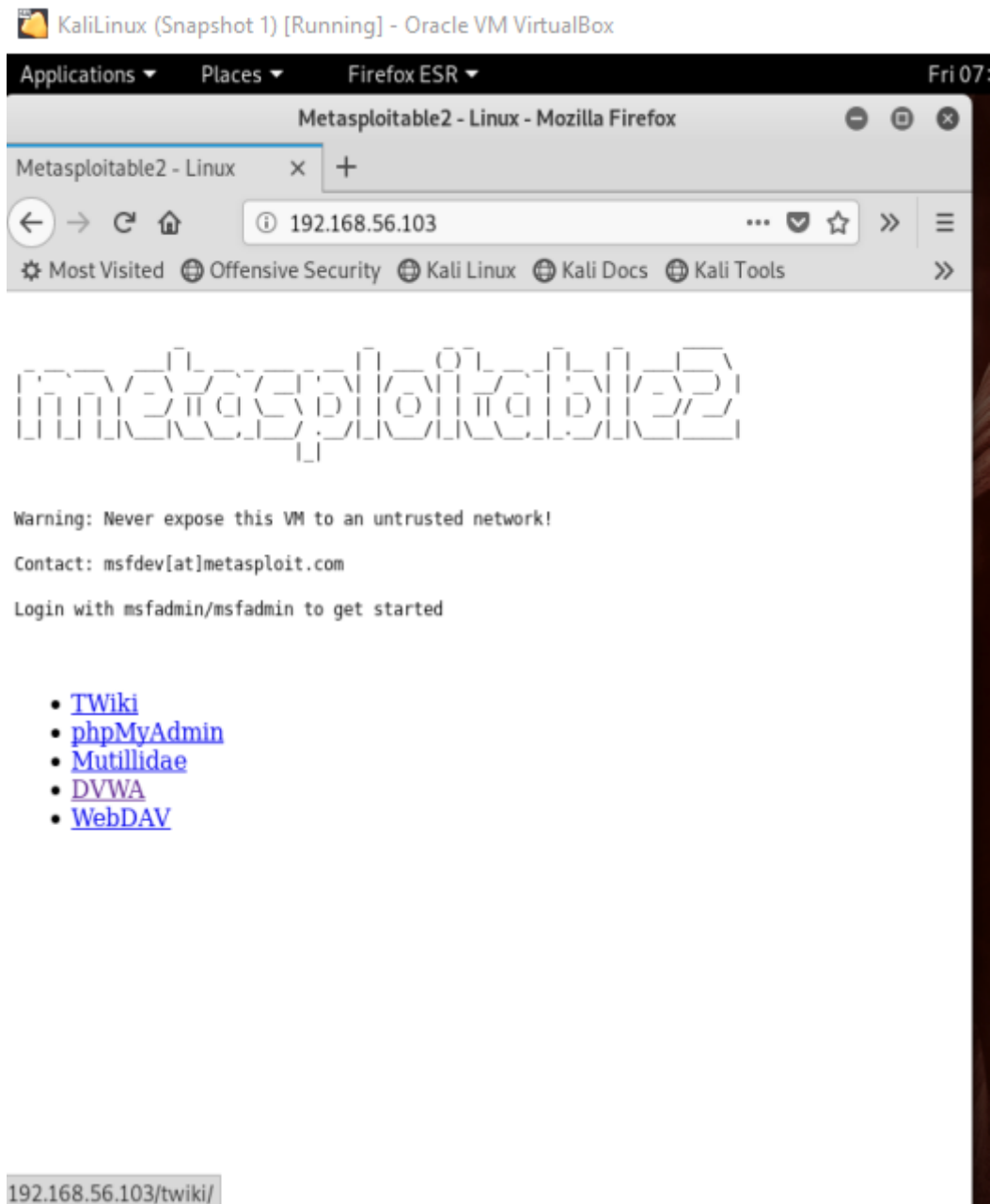
msfadmin@metasploitable:~$ _
```

- Open your browser in KaliLinux and put the IP, press enter.

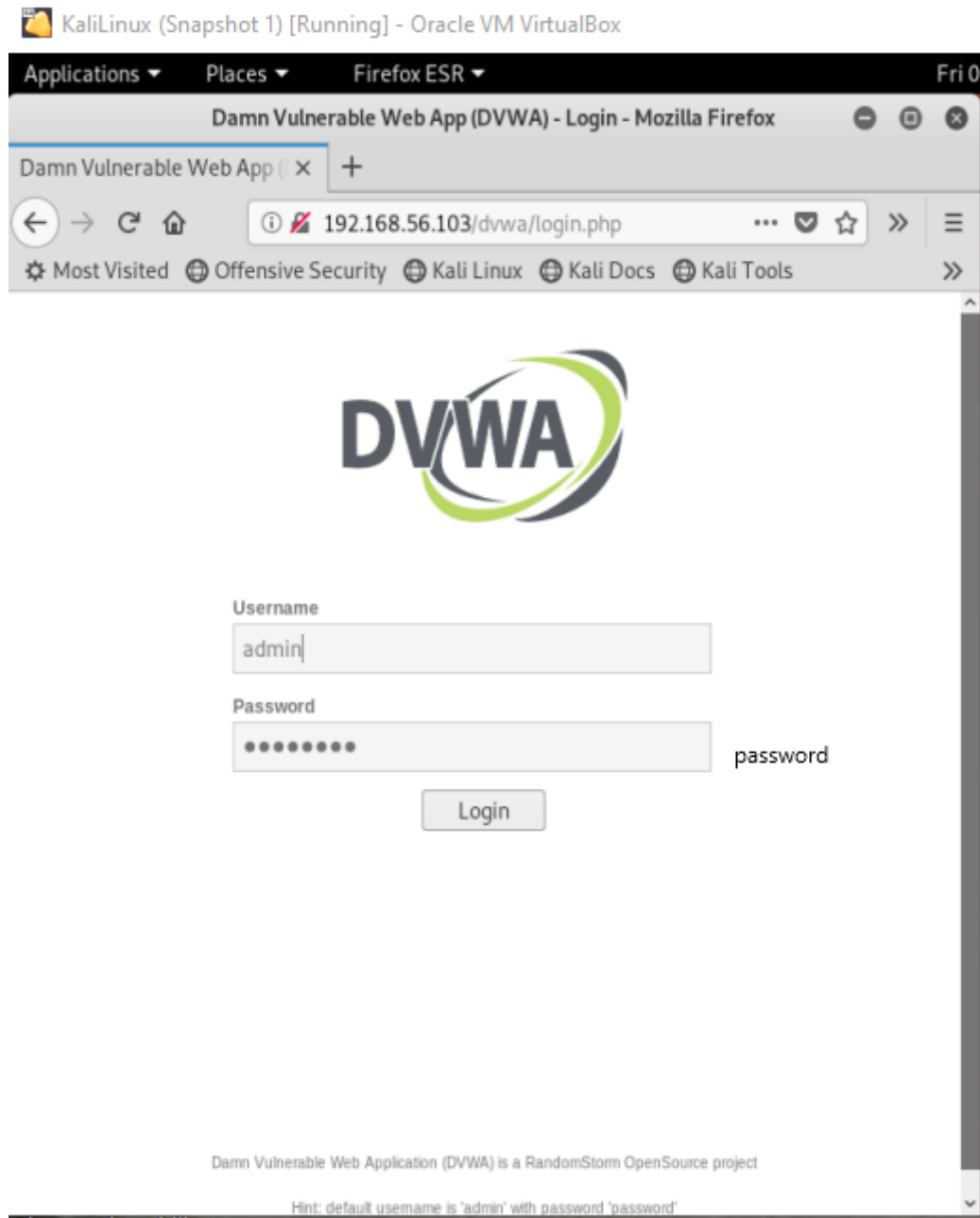




- When the page has loaded successfully, choose DVWA.



- Make the login.



- Enjoy!!! “Divirta-se” if you prefer in Portuguese

