Building a VM Based Environment

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1 Downloads

- https://www.kali.org/
- http://downloads.metasploit.com/data/metasploitable/metasploitable-linux-2.0.0.zip
- https://information.rapid7.com/download-metasploitable-2017-thanks.html
- https://cdimage.ubuntu.com/lubuntu/releases/20.10/release/lubuntu-20.10-desktop-amd64.iso
- http://mountrouidoux.people.cofc.edu/CSIS641/docs/WindowsXP.ova
- https://ubuntu.com/download/server

2 Build VMs

> Note: while VirtualBox provides the ability to clone VMs, there appear to be issues in how the networking is handled. I found it's safer, and only slightly longer, to do multiple installs.

2.1 Kali VM

- 1024MB memory
- Bridged Network
- Hostname: csis-kali
- Post Install configuration
  - `sudo apt-get install ssh`
  - `sudo systemctl enable ssh`

2.2 Ubuntu Server VM #1

- 1024MB memory
- Bridged Network
- Hostname: csis-linux-1

2.3 Ubuntu Server VM #2

- 1024MB memory
- Bridged Network
- Hostname: csis-linux-2

2.4 Ubuntu Server VM #3

- 1024MB memory
- Bridged Network
- Hostname: csis-linux-3

2.5 Post install Provisioning

All commands are run in the VM unless otherwise specified

1. `sudo apt update; sudo apt upgrade`
2. `sudo apt -y install python3-pip`
3. `pip3 install flask`
4. On Host `scp WebApp.py drc@csis-linux-1:~`
5. `FLASK_APP=WebApp.py python3 -m flask run --host="0.0.0.0"`