Oracle Virtual Box.

Objective: To properly install, run and connect a virtual machine running Linux to the Internet.

Installation:

* The Oracle’s Virtual Box version 6.1 was downloaded from <https://www.virtualbox.org/>
* In this project the Linux version I am working with is CentOS. <https://www.centos.org/> However, given the limitation and complexity of version 8. I was forced to work with Version 7. Specifically, from: <http://isoredirect.centos.org/centos/7/isos/x86_64/>

A screenshot of a cell phone

Description automatically generatedVersion: CentOS-7-x86\_64-Minimal-1908.ISO

* Once, Virtual Box was installed, CentOS was then configure. The image above reflects the setting for this Vitual Machine.
* One key setting was the bridge adaption of the Network. This configuration allows for the Virtual Machine to connect to the same network the Virtual Machine is running from.
  + Keep in mind, the minimal version does not have a neat UI for an user. To explain it better, think of it as a terminal only type of Linux.

**Running Cent OS 7:**

* After installing and going through the Linux setting, the image below shows CentOS 7 running completely fine.
* Additionally, the commands or lines “ip a” were prompted to test out and see what Network Linux was running from.
* Based on the two images below both MAC and IP are a match. Thus the bridge Network was a success.

A screenshot of a cell phone

Description automatically generated



A screenshot of a cell phone

Description automatically generated



* Finally, to verify the Virtual Machine was connected to the internet, google.com was ping.
* The image below shows [www.google.com](http://www.google.com) being ping.
  + Ping referring to the action of asking the machine to reach the site google and report back the time it takes to make such request.
  + The term is popular amongst the gaming community given that it typically reflects the connection a user has to the game server.

A black and silver text

Description automatically generated

Adjusting VM Machine.

* The two images below shows a clone version of the orginal CentOS 7 machine. It also shows the updated memory capacity and both machine running at the same time.

A screenshot of a cell phone

Description automatically generated

A screenshot of a cell phone

Description automatically generated