Vulnerability Scanning with Nessus

Nessus is a vulnerability scanner from Tenable. Nessus can be deployed on most system, including Raspberry Pi for portability. Can be downloaded form here, but does require you to make an account to receive a license. On the free account you can scan up to 16 IPs.

So typically when using it for your own environment you want to use the same machines OR set different machines to same IPs you had previously scanned.

Download it from here

OR on Linux:

```
nessus_amd64_file=$(curl https://www.tenable.com/downloads/nessus\?
loginAttempted\=true | grep -o -m1 -E "Nessus-[0-9]{1,2}.[0-9]{1}.[0-9]{1}-
debian10_amd64.deb" | grep -m1 -i ".deb")

nessus_amd64="https://www.tenable.com/downloads/api/v2/pages/nessus/files/$n
essus_amd64_file"

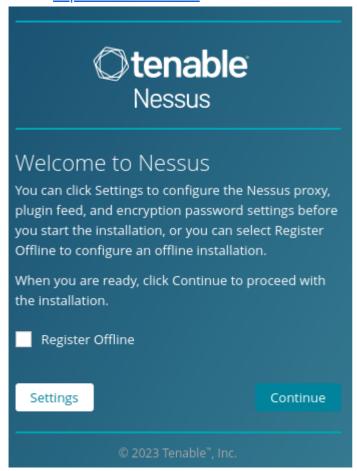
sudo wget -q $nessus_amd64 -0 /tmp/nessus_amd64.deb
sudo dpkg -i /tmp/nessus_amd64.deb
sudo rm -f /tmp/nessus_amd64.deb
```

Upon first run, it will initialize and install plugins so it may take a while.

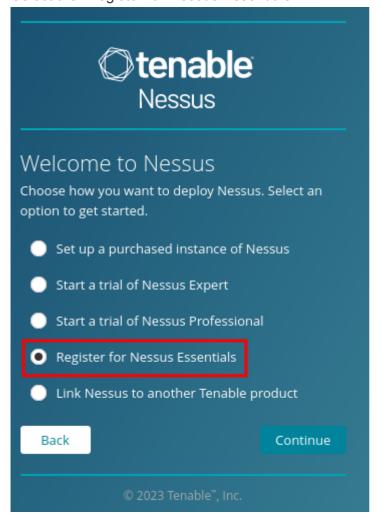
Starting / Stopping Nessus

- Start: sudo /bin/systemctl start nessusd.service
- Stop: sudo /bin/systemctl stop nessusd.service

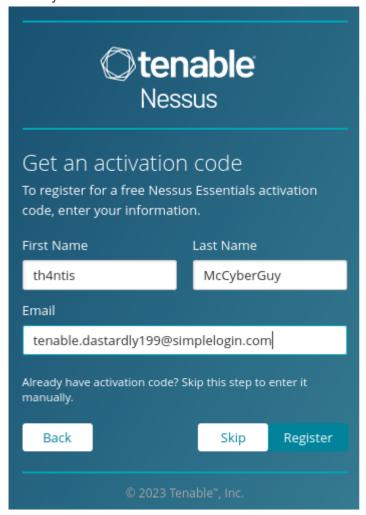
• Go to: https://localhost:8834/



Select the "Register for Nessus Essentials"



Put in your name and email for them to send the license to, OR it will show up on the next screen.



Input a username and password and let it do it's thing.

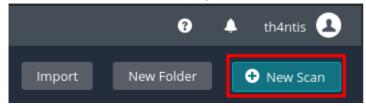




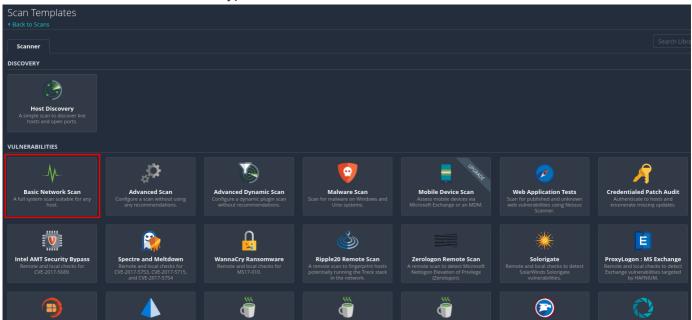
Scanning

Since this is the free edition, we can only scan 16 private IP addresses. We will scan our Kioptrix machine.

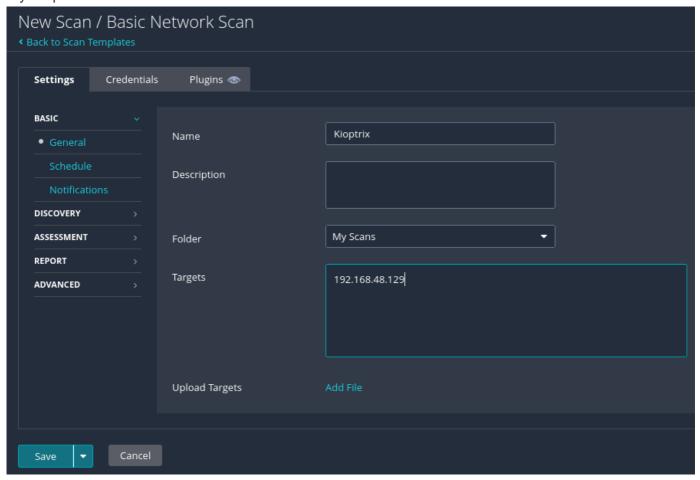
Click "New Scan" in the top right



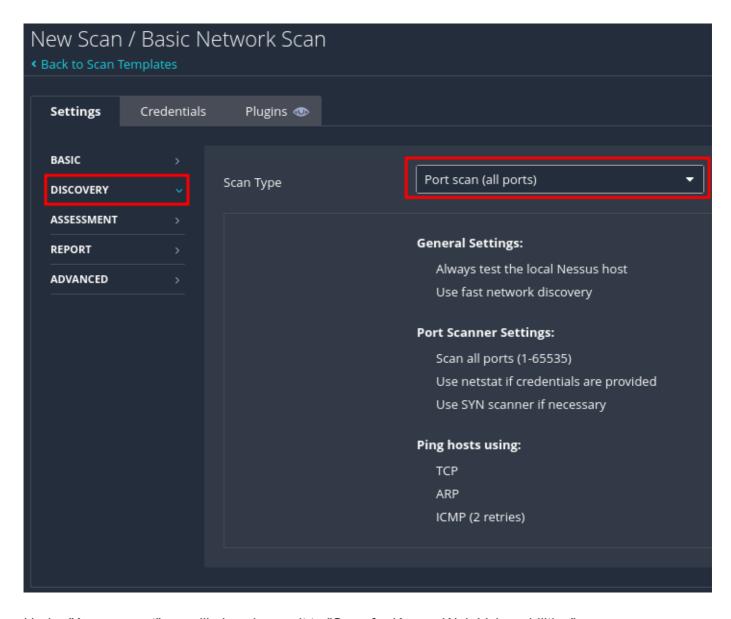
We will see a list of various scan types we can do. We will do a Basic Network Scan



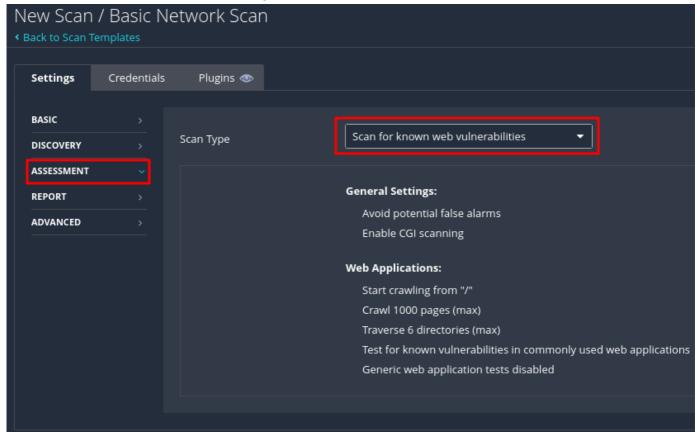
My Kioptrix machine was 192.168.48.129



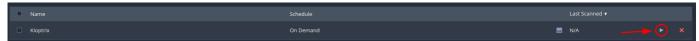
We have the ability to schedule the scan if we want for a time, occurrence, etc.. Important to note, under "Discovery", it's default to common ports, This, for this instance, will be all ports.



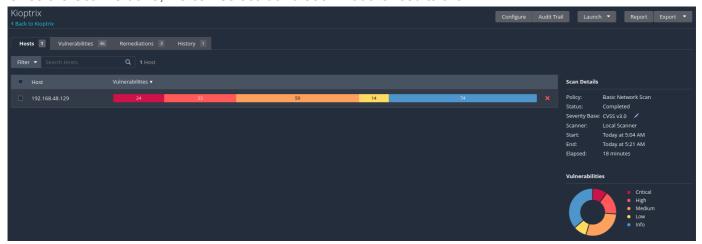
Under "Assessment" we will also change it to "Scan for Known Web Vulnerabilities"



Save this, launch it with the "Play" button,



Once the Scan is done, we can select it and see what the results are.



We an select "Vulnerabilities" and see the list of what was found.



Selecting one of the Vulnerabilities shows more details

