Chapter 5

Vulnerability Assessment

Lab manual



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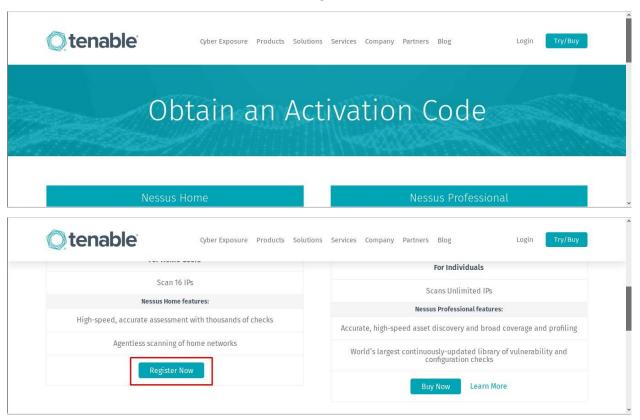
Practical 1: Performing vulnerability assessment using the the Nessus Vulnerability Scanner.

Step 1: Download and Install Nessus Vulnerability Scanner

Perform a simple google search to download Nessus Vulnerability Scanner or click on the following link

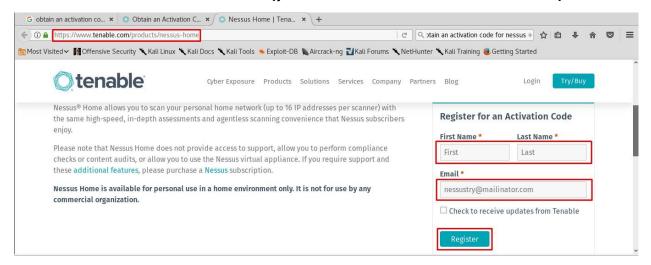
https://www.tenable.com/products/nessus/activation-code

Choose *Nessus Home* edition and click on register now.

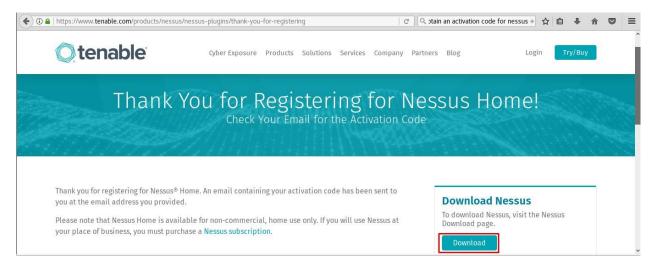


We will be redirected to the registration page, complete user registration and click *Register*.

Note: Provide a valid email address (you will receive Nessus Activation Code).



After registration, click on download.



Select Linux version *.deb package* (32-bit or 64-bit based on your machine compatibility). Click *Agree* to start the download.



In the terminal, locate the **Downloads** directory and execute the following command.

dpkg -i Nessus-7.1.2-debian6 amd64.deb

```
root@kali: ~/Downloads
    Edit View Search Terminal Help
       li:~# cd Downloads
                                             this command is used for installation of nessus
     ali:~/Downloads# ls
      ali:~/Downloads# dpkg -i Nessus-7.1.0-debian6 amd64.deb
Selecting previously unselected package nessus.
(Reading database ... 332952 files and directories currently installed.)
Preparing to unpack Nessus-7.1.0-debian6 amd64.deb ...
Unpacking nessus (7.1.0) ...
Setting up nessus (7.1.0) ...
Unpacking Nessus Core Components...
  You can start Nessus by typing /etc/init.d/nessusd start
  Then go to https://kali:8834/ to configure your scanner
Processing triggers for systemd (236-2) ...
  t@kali:~/Downloads#
```

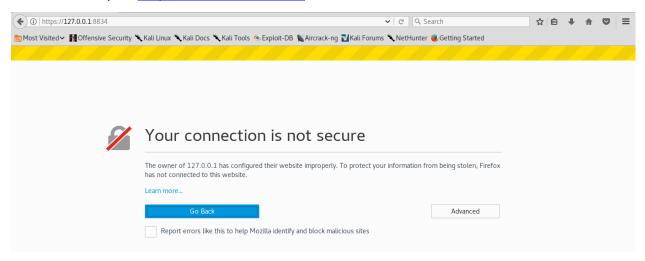
Step 2: Nessus Configuration

Execute the following command to start Nessus

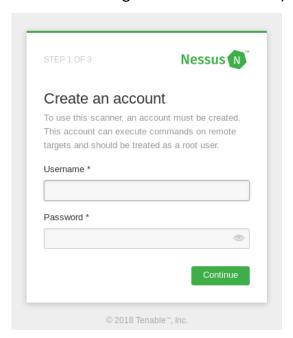
/etc/init.d/nessusd start



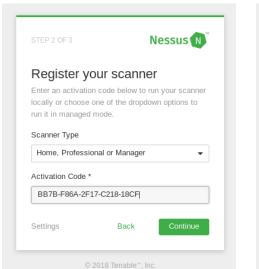
On browser open https://127.0.0.1:8834/

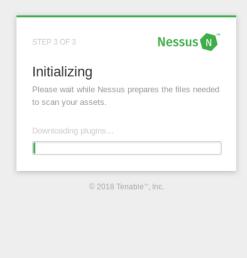


Click on *Advanced* and *Add Exceptions* to display Nessus login screen. Provide Username and Password (remember these credentials to Login to Nessus in future).



Enter *Activation Code* when prompted. Initialization process starts and takes some time to complete.

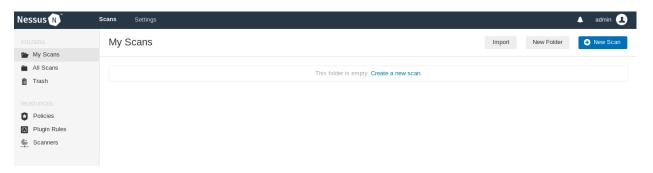




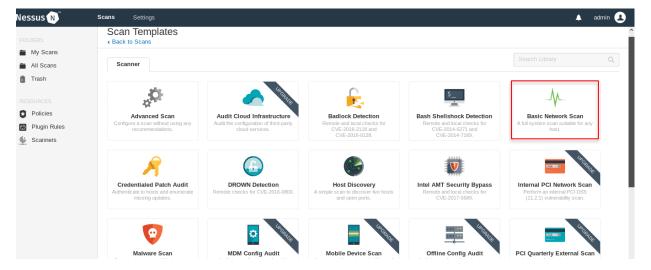
Once registration is done. We can Login to Nessus (using your credentials as created before).



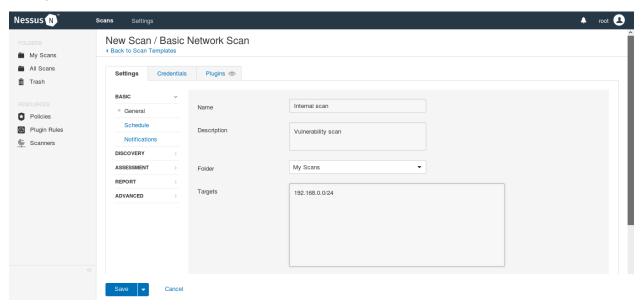
To perform a vulnerability scan, click on **New Scan** on the top-right corner of the Nessus interface.



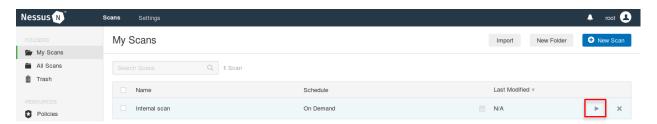
Select the type of scan that we are intended to perform on the target machine. In this case, let us choose *Basic Network Scan*.



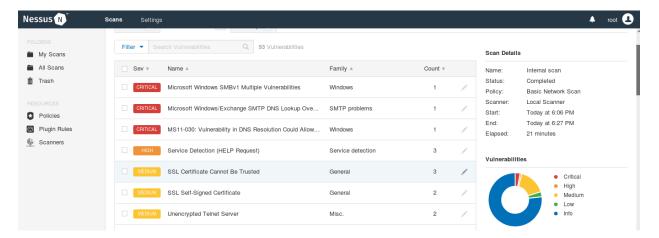
Provide the necessary details (Name of your scan, IP address of the target are mandatory) and save the profile.



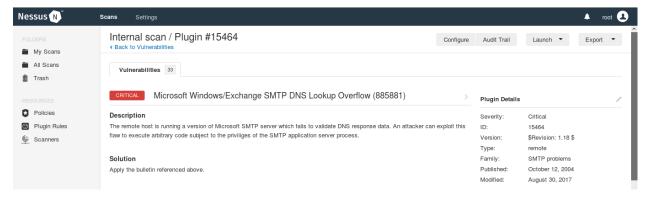
We can see that the scan name is listed under *My Scans* tab. Click on the play button to start the scan.



Click on the scan to view identified vulnerabilities



Click on those vulnerabilities for detailed information regarding the risk.



To document the results, click on the *export* button located on the top right corner.