



Department of
Bachelor of Computer Applications

Ethical Hacking Fundamentals
Lab File – CA 10

Subject Code: 19BCA4C02L
Class: IInd Year IInd Semester

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Aim :

Perform vulnerability scan on target system using Nessus in Kali Linux

Requirements :

- Virtualisation Software
- Kali Linux 2022.1
- Basics of Nessus
- Internet Connection

Objectives :

To Run Basic Network Scan, and Analyse the results obtained.

Procedure :

Basics

For installation, we are going to do the following:

- 1> Open <https://www.tenable.com/downloads/nessus?loginAttempted=true>, and download the Nessus-10.1.1-debian6_amd64.deb package.
- 2> Thereafter, we are going to use the command `apt install -f <installation package location>`

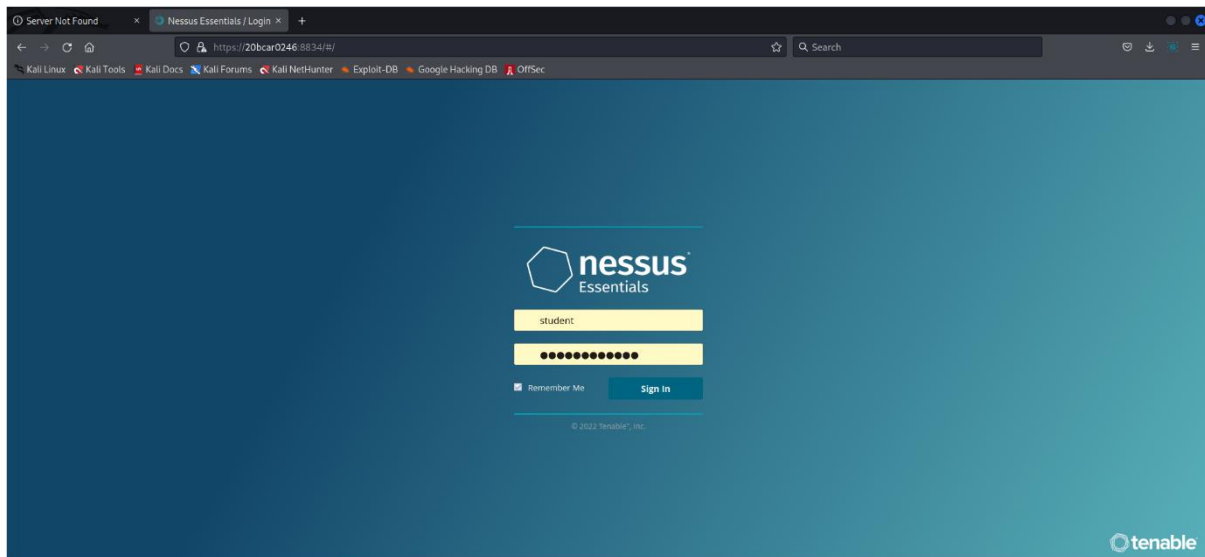
```
root@20BCAR0246-  
File Actions Edit View Help  
[root@centos8 ~]#  
# file /home/student/Downloads/Nessus-10.1.1-debian6_amd64.deb  
Nessus-10.1.1-debian6_amd64.deb: cannot open 'Nessus-10.1.1-debian6_amd64.deb' (No such file or directory)  
[root@centos8 ~]#  
# file /home/student/Downloads/Nessus-10.1.1-debian6_amd64.deb  
/home/student/Downloads/Nessus-10.1.1-debian6_amd64.deb: Debian binary package (format 2.0), with control.tar.gz, data compression gz  
[root@centos8 ~]#  
# dpkg --get-selections Nessus-10.1.1-debian6_amd64.deb  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
Note, selecting 'nessus' instead of '/home/student/Downloads/Nessus-10.1.1-debian6_amd64.deb'  
The following NEW packages will be installed:  
  nessus  
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.  
Need to get 0 B/51.7 MB of archives.  
After this operation, 0 B of additional disk space will be used.  
Get:/home/student/Downloads/Nessus-10.1.1-debian6_amd64.deb nessus amd64 10.1.1 [51.7 MB]  
Selecting previously unselected package nessus.  
(Reading database ... 399693 files and directories currently installed.)  
Preparing to unpack .../Nessus-10.1.1-debian6_amd64.deb ...  
Unpacking nessus (10.1.1) ...  
Setting up nessus (10.1.1) ...  
Unpacking Nessus Scanner Core Components ...  
  
- You can start Nessus Scanner by typing /bin/systemctl start nessus.service  
- Then go to https://20BCAR0246:8834/ to configure your scanner  
[root@centos8 ~]#
```

The window appears like this. There are further instructions provided at the ending to get Nessus running. Do as instructed.

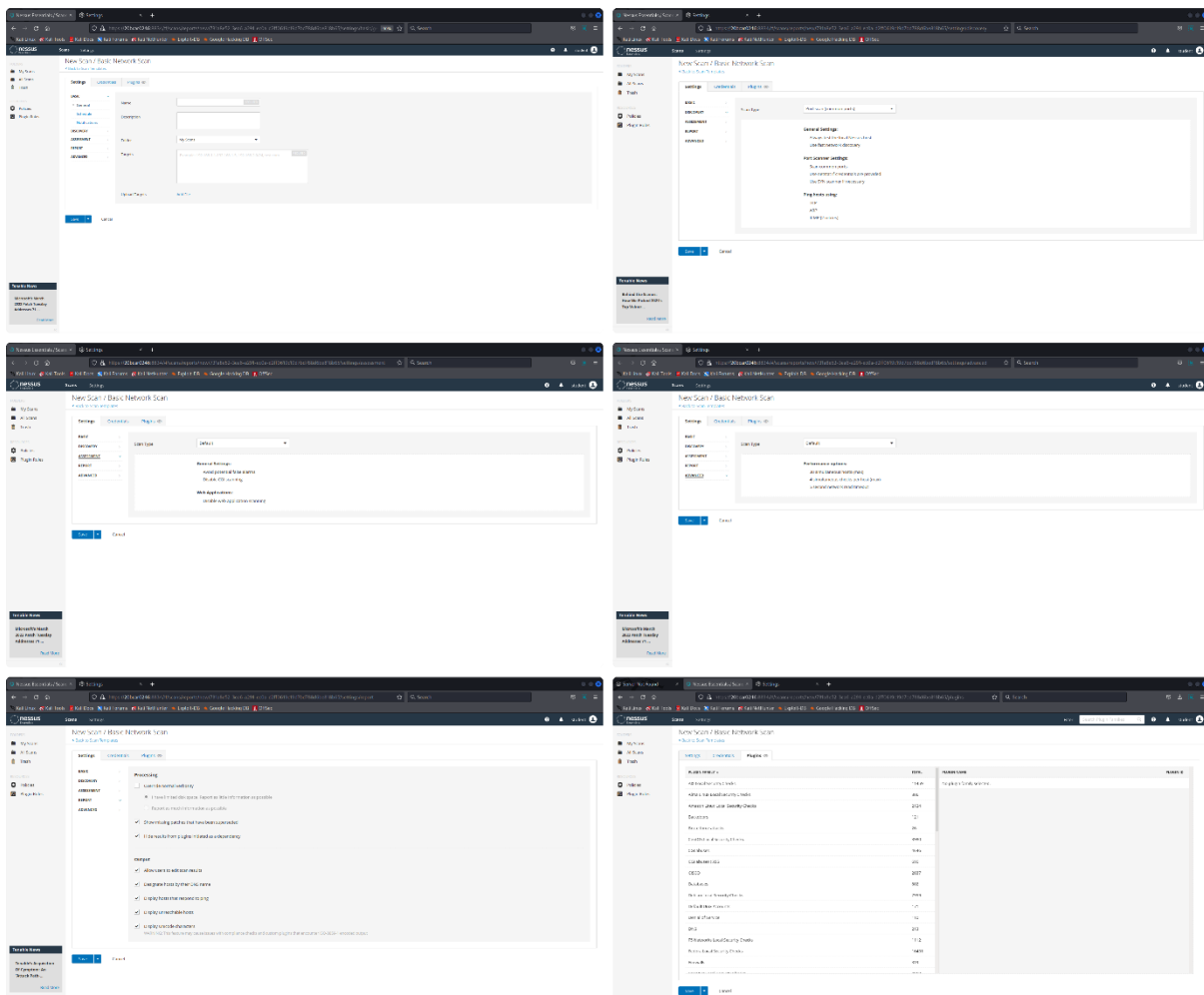
NOTE: To use Nessus, account is needed to be created and activation key is required.

Procedure

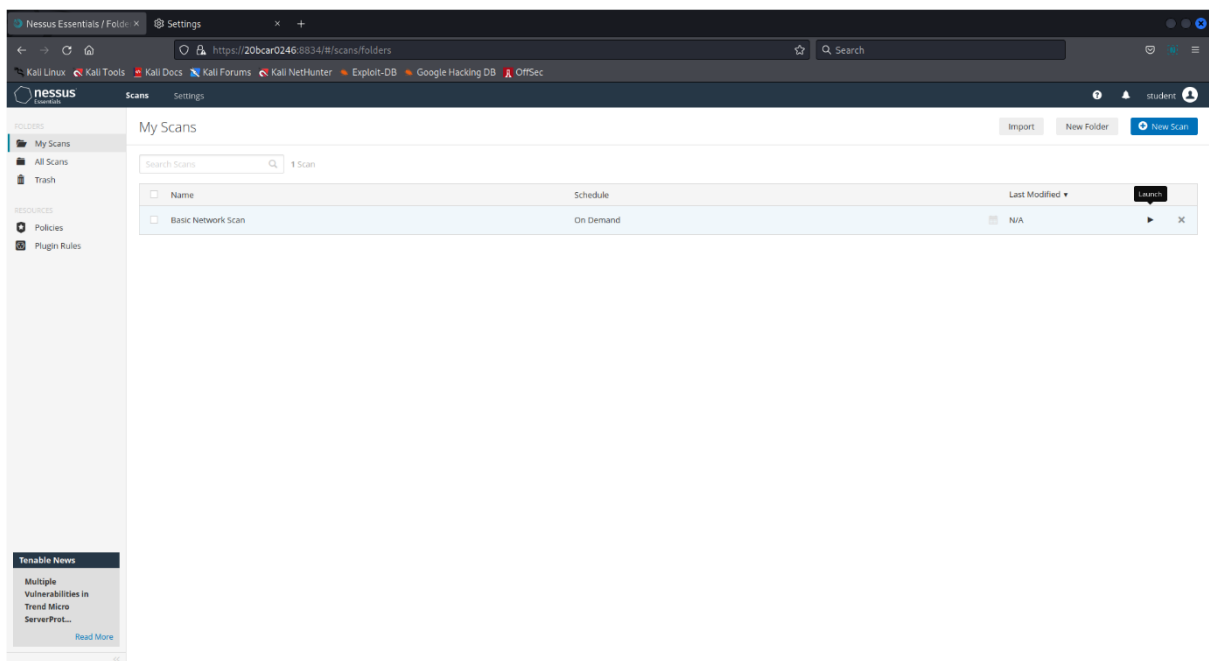
1> Login to Nessus, using the browser, to the My Scans Page.



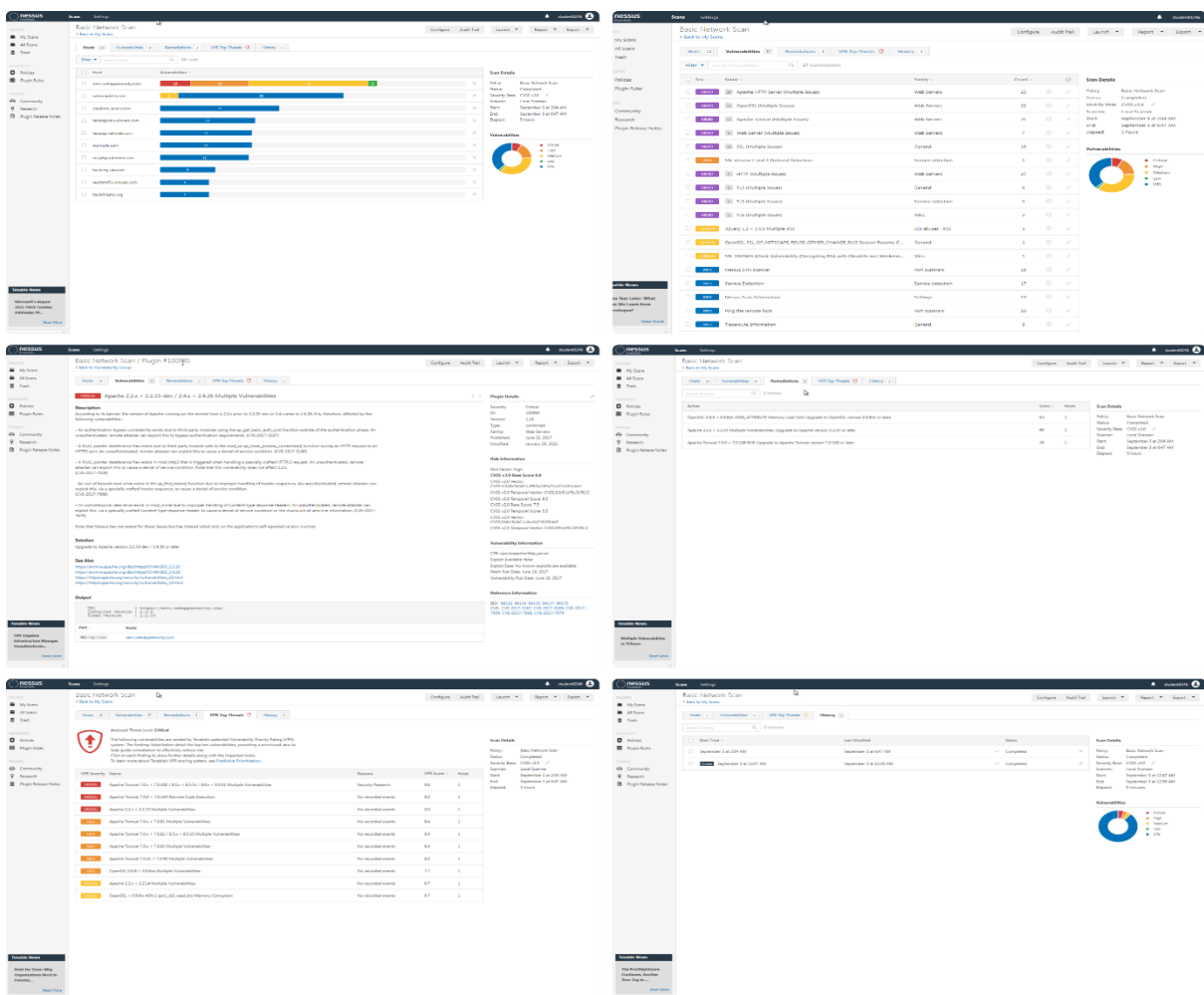
2> Create a New Scan by customizing it accordingly.



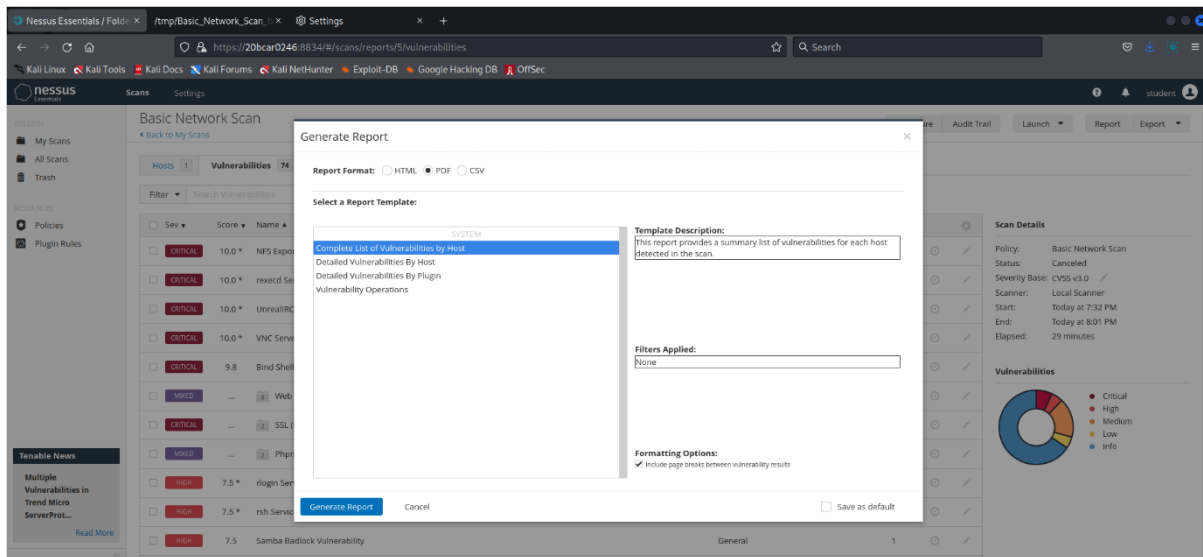
3> Launch the Scan from My Scans Page.



4> After the scan gets completed, results following, can be obtained:



5> The obtained results, thereafter, can be exported by generating reports in different formats:



NOTE: For more details regarding the information obtained, head over to: <https://drive.google.com/file/d/1KLaePWtaOooBYSdkxT76AWDGXnnoBTNX/view?usp=sharing>

Conclusion :

Nessus is a proprietary vulnerability scanner developed by Tenable, Inc. Tenable.io is a subscription-based service. Nessus is an open-source network vulnerability scanner that uses the Common Vulnerabilities and Exposures architecture for easy cross-linking between compliant security tools. In fact, Nessus is one of the many vulnerability scanners used during vulnerability assessments and penetration testing engagements, including malicious attacks. Nessus is a tool that checks computers to find vulnerabilities that hackers COULD exploit.

Nessus works by testing each port on a computer, determining what service it is running, and then testing this service to make sure there are no vulnerabilities in it that could be used by a hacker to carry out a malicious attack. Nessus performs its scans by utilizing plugins, which run against each host on the network in order to identify vulnerabilities.