

Task- Perform a Basic Vulnerability Scan on Your PC

3:

NESSUS VULNERABILITY SCANNING TOOL:

- Nessus is an open source Vulnerability Scanning Tool that helps pen testers to identify the Vulnerabilities and security risks in a system.
- Nessus is available in both a free open-source version and a commercial version with additional features.
- To use Nessus, first install Nessus Essentials (free version) in Kali Linux or in any operating system.

INSTALLATION IN KALI LINUX:

Step 1: Download Nessus Essentials (.deb) file from website.

Step 2: Navigate to Downloads folder from PWD using CD command.

Step 3: Select the downloaded file to install it by using following command:

```
sudo dpkg -i Nessus-10.4.1-ubuntu1404_amd64.deb
```

Step 4: Configure Nessus by activation code and register as an user with credentials.

STARTING NESSUS:

- Start Nessus Service by using following command:

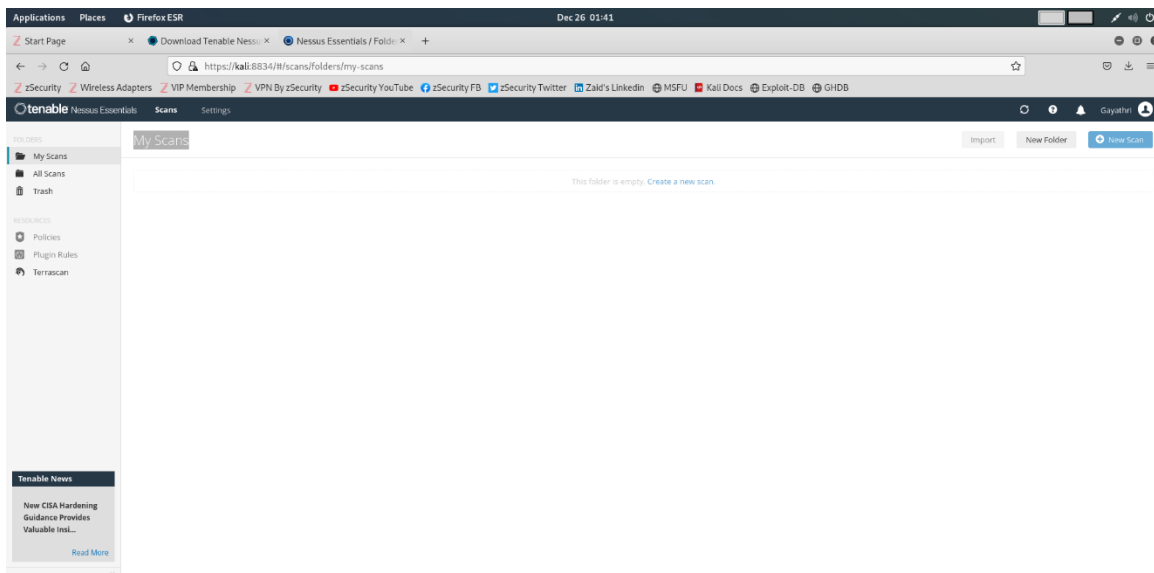
```
/bin/systemctl start nessusd.service
```

Then use the following link to open Nessus: **<https://kali:8834/>**

SCANNING A TARGET

Step 1: Start & open Nessus by using above command & link.

Step 2: If you are using Nessus for the first time, study about the various components in the Nessus window.



a) **Scan:** Used to scan the target for Vulnerabilities.

b) **Policies:** We can create our own policy by using new policy tab or we can use the default policies. It determines the type of scan, which plug-ins to use what type of scan should be excluded etc.

c) **Plug-ins:** Plug-ins defines the type of Vulnerabilities it shall look for. These Plug-ins are coded in “Nessus attack scripting language”.

Step 3: Scan a target by clicking on “create a new scan” and select any scan type from the available profiles. Alternatively, we can create our own policies for scanning and these policies will be saved in user defined tab.

Step 4: After entering the target details and address into the scan profile, we can save the profile for future scans or begin the scan by clicking the "Launch" button.

Step 5: After the scan is completed, it will provide detailed information about the vulnerabilities and risks presented in the target.

Step 6: Analyze the results and export the report in HTML, CSV, PDF, or .nessus format.

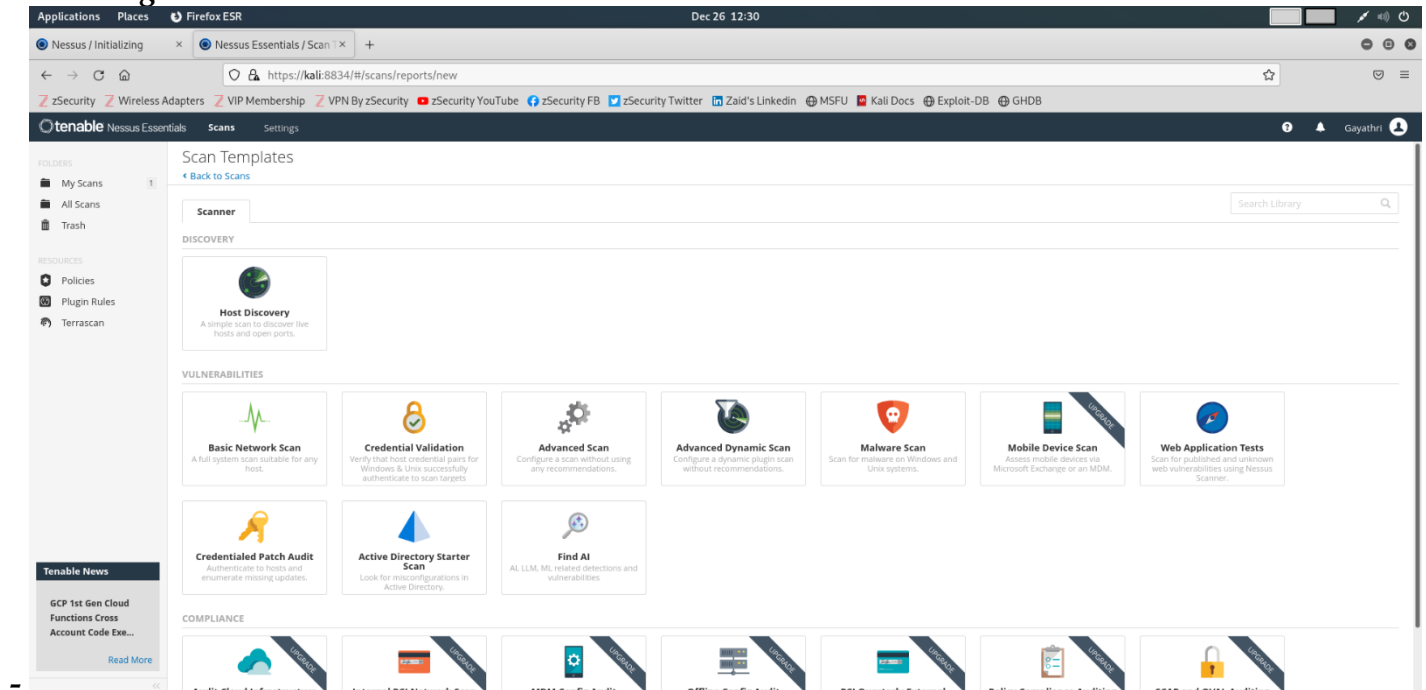
EXAMPLE:

- In this example my target is a Metasploitable machine.

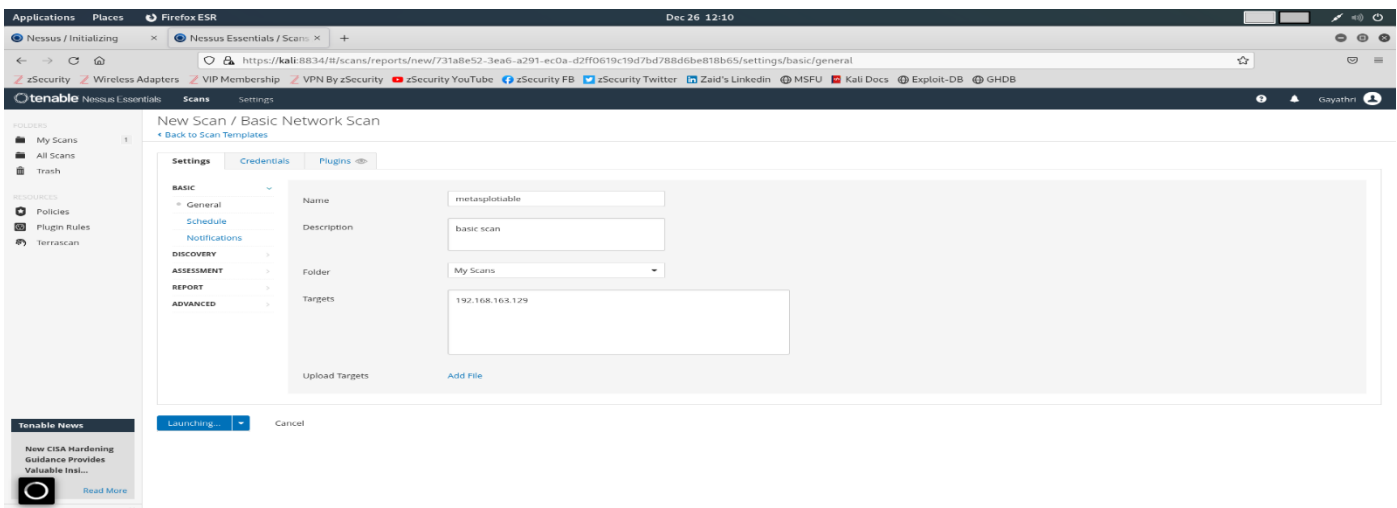
Target has an IP is **"192.168.226.129"**

- So, we will scan this Metasploitable machine to identify the Vulnerabilities by using Nessus.
- After completion of scan it will provide the risks and vulnerabilities presented in the Metasploitable machine.

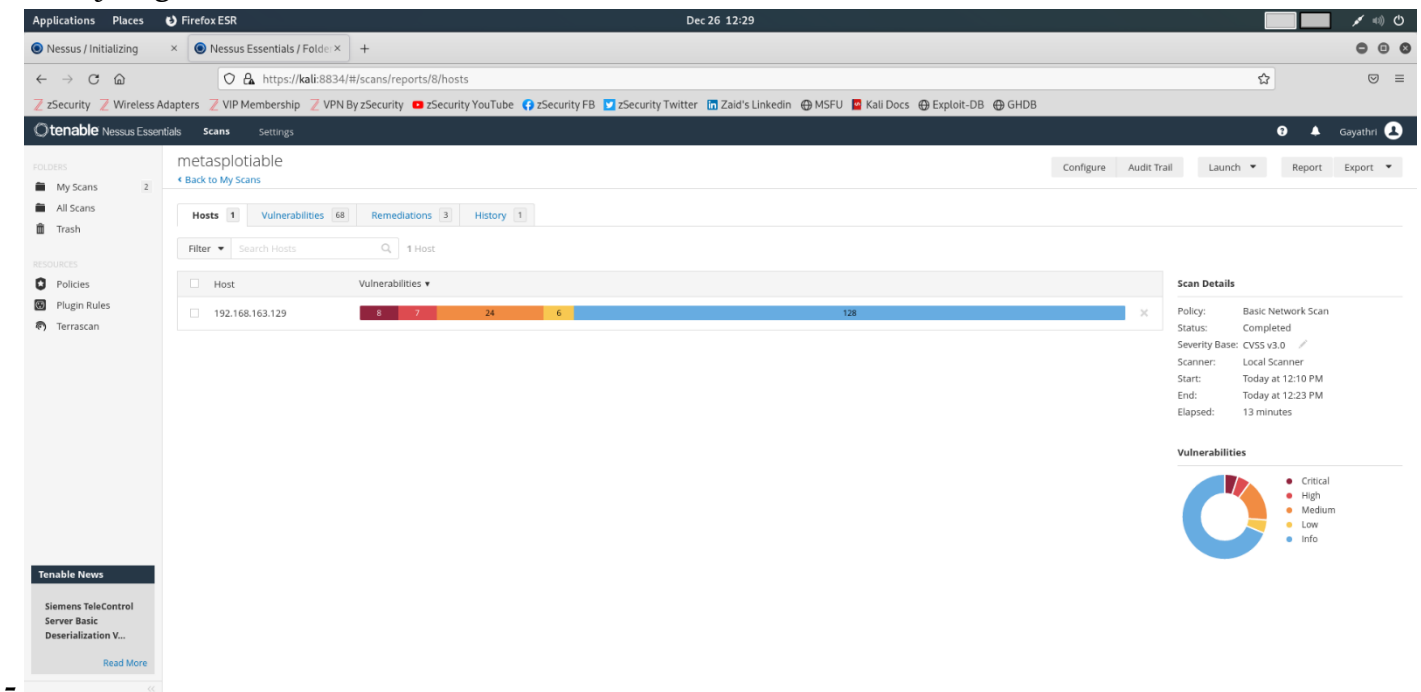
- Selecting the Basic Scan in Nessus



- Launching the Scan after giving target details



- Analyzing the Result



CONCLUSION:

So, Nessus is an excellent vulnerability assessment tool that includes a variety of scans and user-defined policies. So, by exploiting the discovered vulnerabilities, we can progress to the next stage of exploitation.

