

INCS-615: Advanced Network and Internet Security Lab – Nessus Vulnerability Scanning Platform

Overview:

This lab is focused on letting you gain hands-on experience of a vulnerability scanning platform that is used in the real-world by many of the enterprises. Also, you will need to research about 5 vulnerabilities that are related to Network Scanning and provide information about them.

Download Nessus here:

https://www.tenable.com/downloads/nessus?loginAttempted=true

Tool Tutorial: https://youtu.be/IT6Px9zJM3s

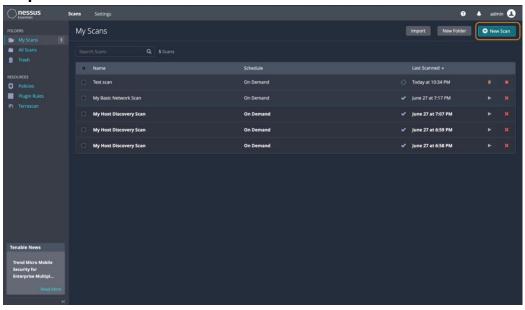
- 1. Start from 2:50 for the downloading and installation of Nessus. VMWare is not required.
- 2. Start from 12:00 for knowing about the scanning by the tool.

Default Nessus port is 8834: https://localhost:8834/

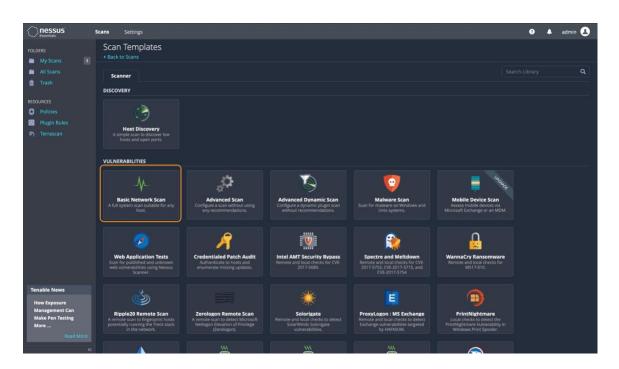
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Steps after downloading and running the Nessus:

Step 1: Select New Scan

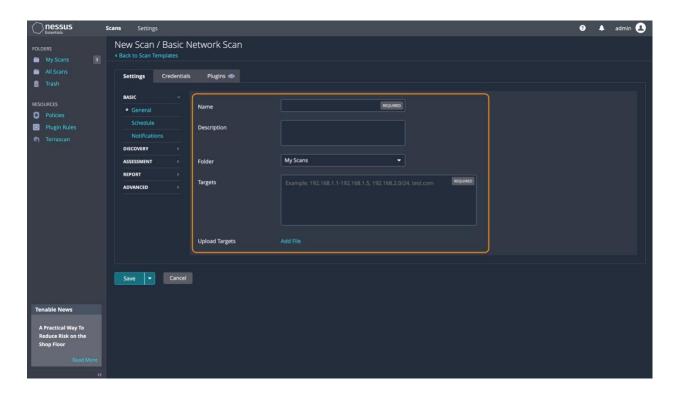


Step 2: Select Basic Network Scan

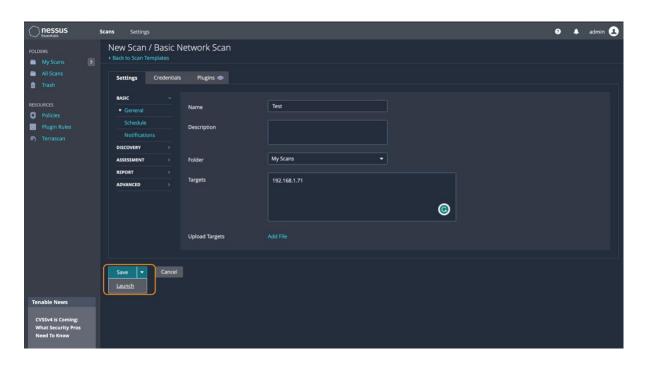


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Step 3: Fill the details. Ensure you enter your IP Address



Step 4: Launch Scan from the dropdown





Task 1: Network Scanning and finding vulnerabilities.

Find out vulnerabilities in the report on your IP address. Provide information about any of the 2 vulnerabilities from the report and ways to mitigate them. Screenshots of the results required.

Task 2: Generic Network Scanning Vulnerability Research.

- 1. Research about Network Scanning Vulnerabilities and provide description.
- 2. Find out 5 network scanning vulnerabilities in general and provide description about those and the mitigation techniques.

Note: If the Network Scanning did not generate at least 2 vulnerabilities other than 'Info' category, research about 2 vulnerabilities and provide description and mitigation techniques. A report screenshot is required showing the results do not contain at least 2 vulnerabilities other than Info category.