

Experiment 14

AIM: Use the NESSUS/ISO Kali Linux tool to scan the network for vulnerabilities

Roll No.	70
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Class	D15-B
Subject	Internet Security Lab
LO Mapped	LO6: Demonstrate the network security system using open source tools.

AIM: Use the NESSUS/ISO Kali Linux tool to scan the network for vulnerabilities.

THEORY:

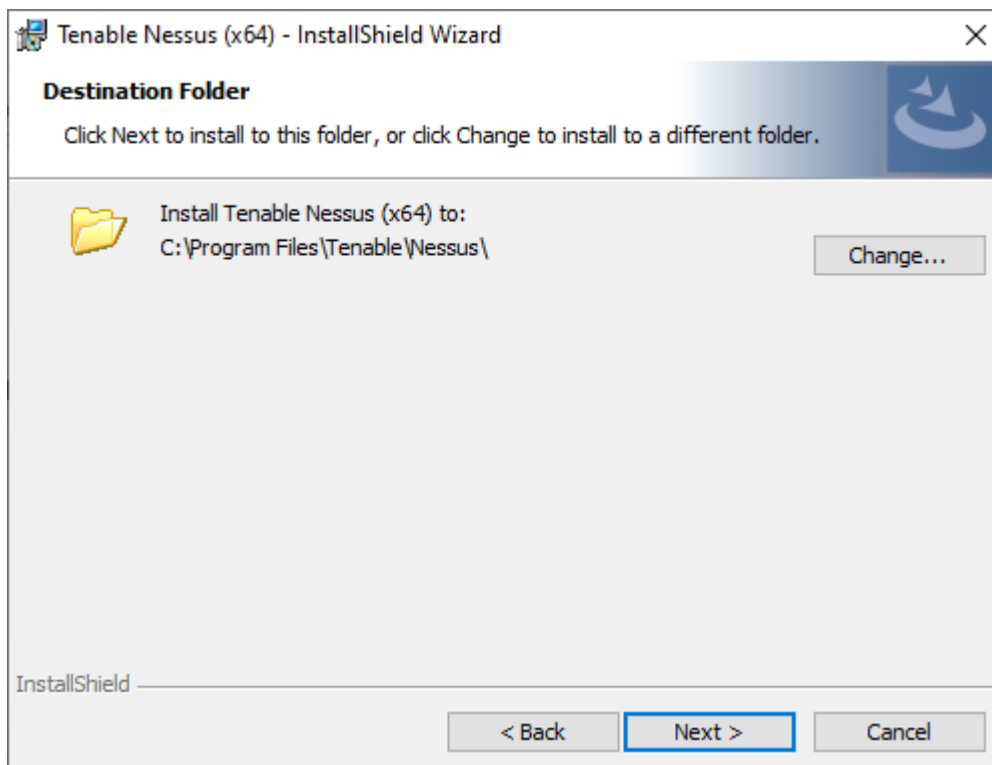
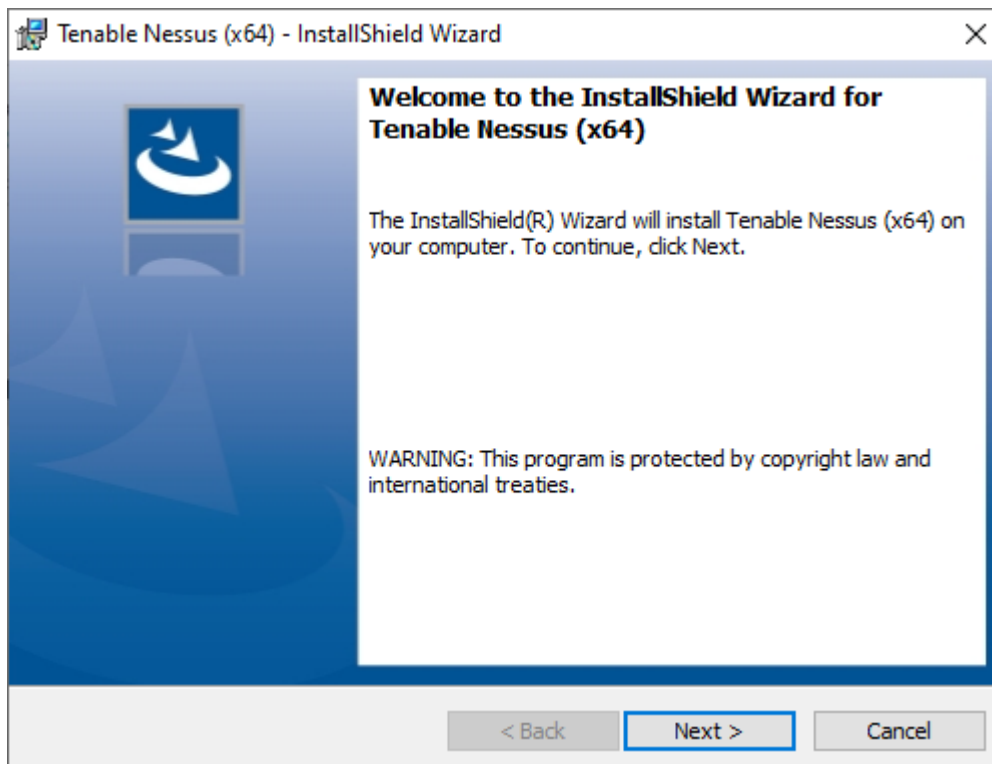
Nessus is one of the many vulnerability scanners used during vulnerability assessments and penetration testing engagements, including malicious attacks. This article will focus on this vulnerability scanner, discussing the fundamentals that one needs to have before getting started with the tool, the different scanning capabilities that it provides, what it takes to run the tool and how results appear once scans are complete.

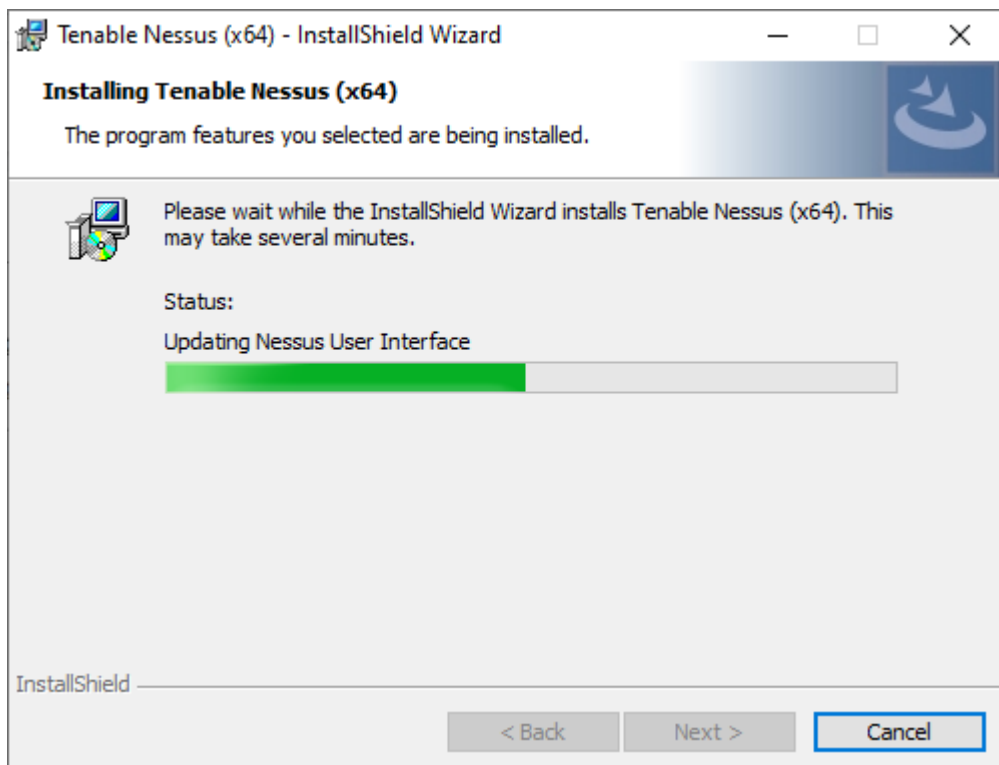
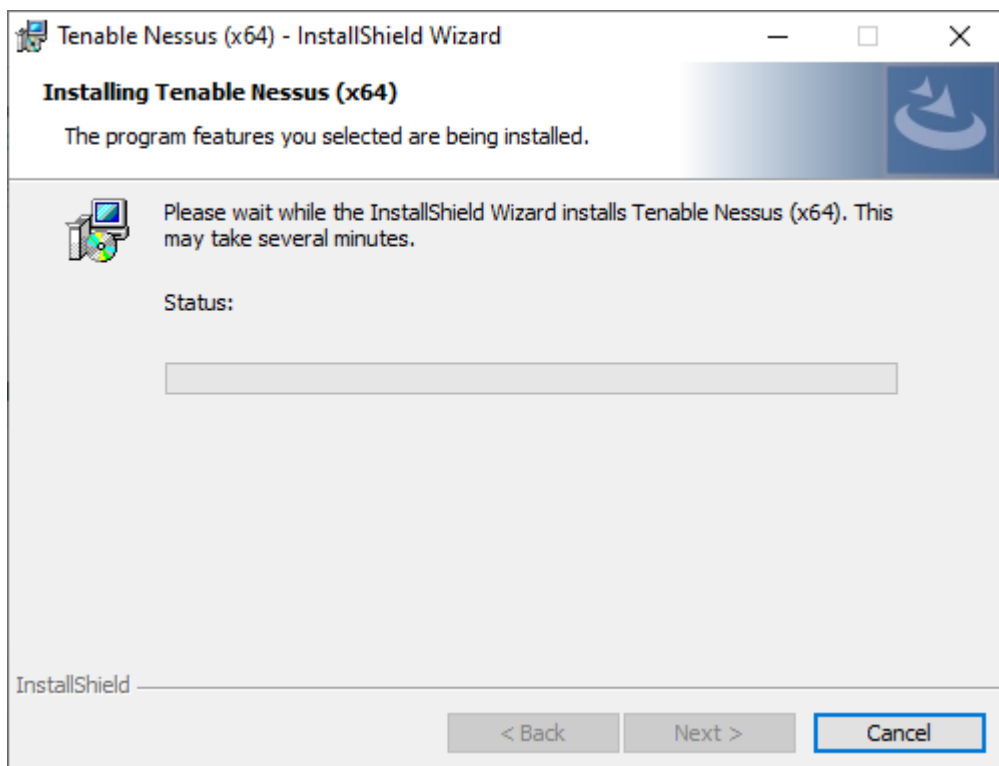
Nessus is the most trusted, accurate, and reliable vulnerability scanner on the market, making it a perfect complement to your penetration tests and security assessments. Nessus Manager (and Nessus Cloud) allows you to further extend your vulnerability scanning program by engaging others in IT and auditing through sharing of scanning resources (including assigning roles, scanners, reports, policies, and more). Tenable other products, such as the Passive Vulnerability Scanner and SecurityCenter Continuous View, enable IT organizations to implement a continuous monitoring solution to collect vulnerability and operational data via scanning, sniffing and logging. All of these technologies combined allow for deep insights into your network, and any threats that may be lurking.

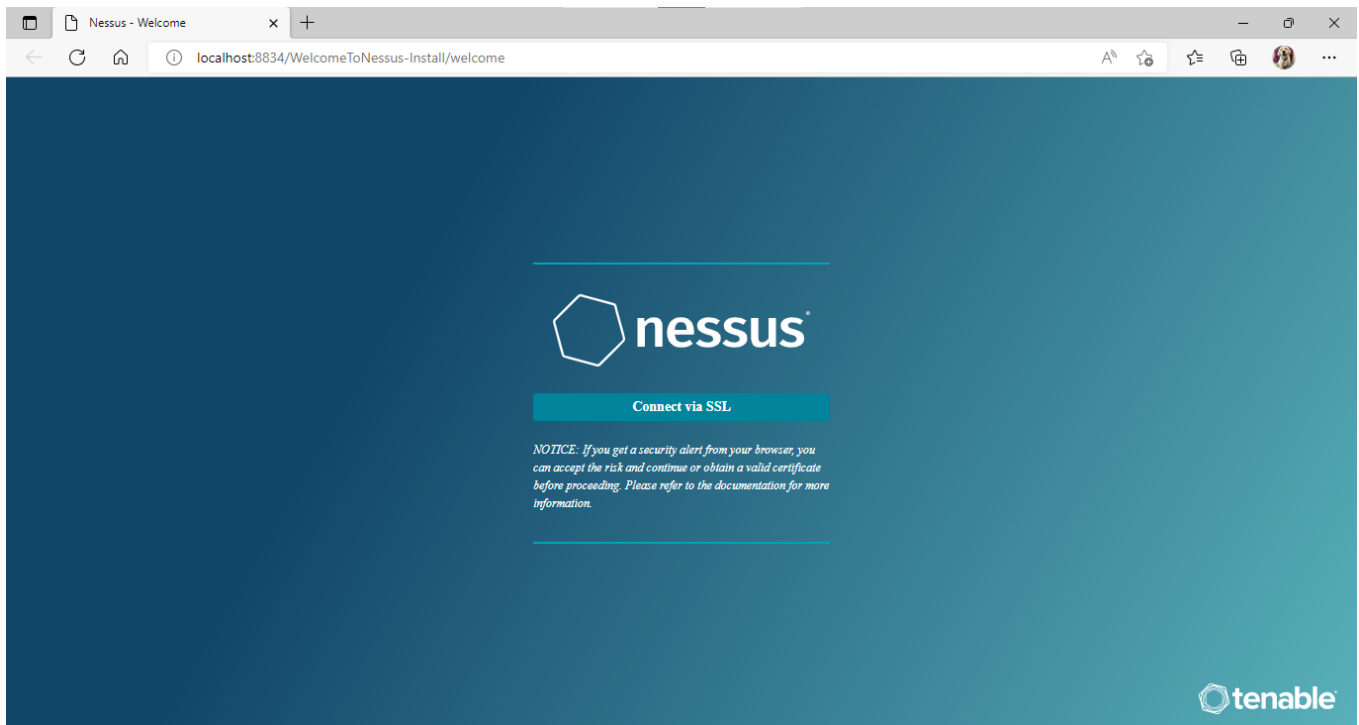
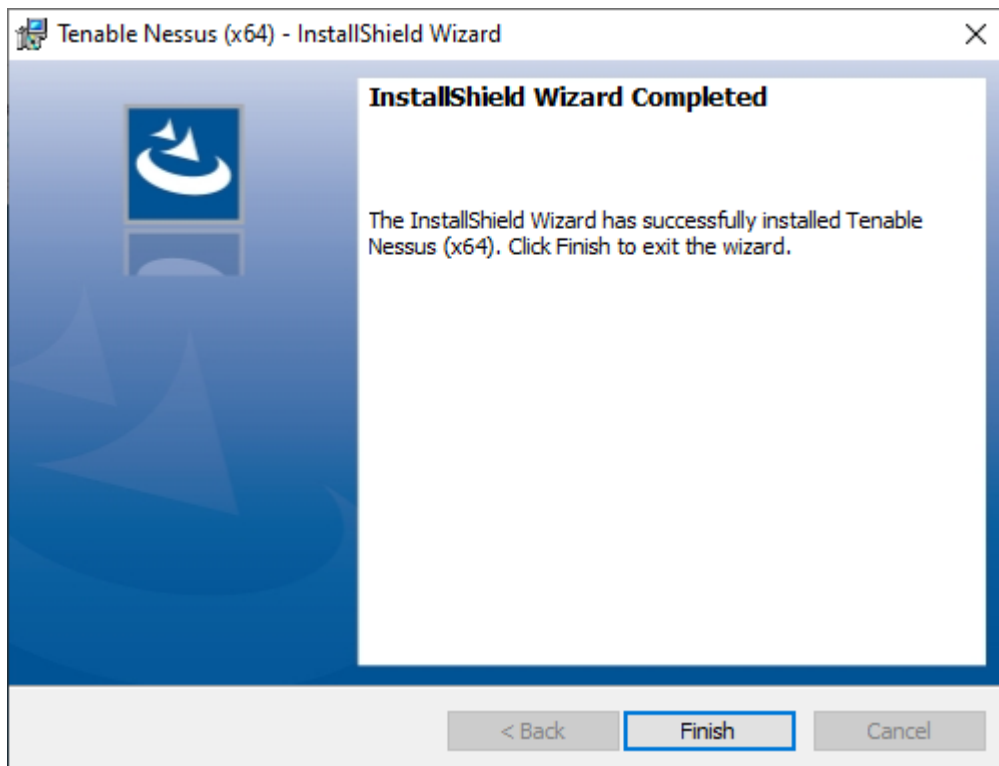
IMPLEMENTATION:

Installation:

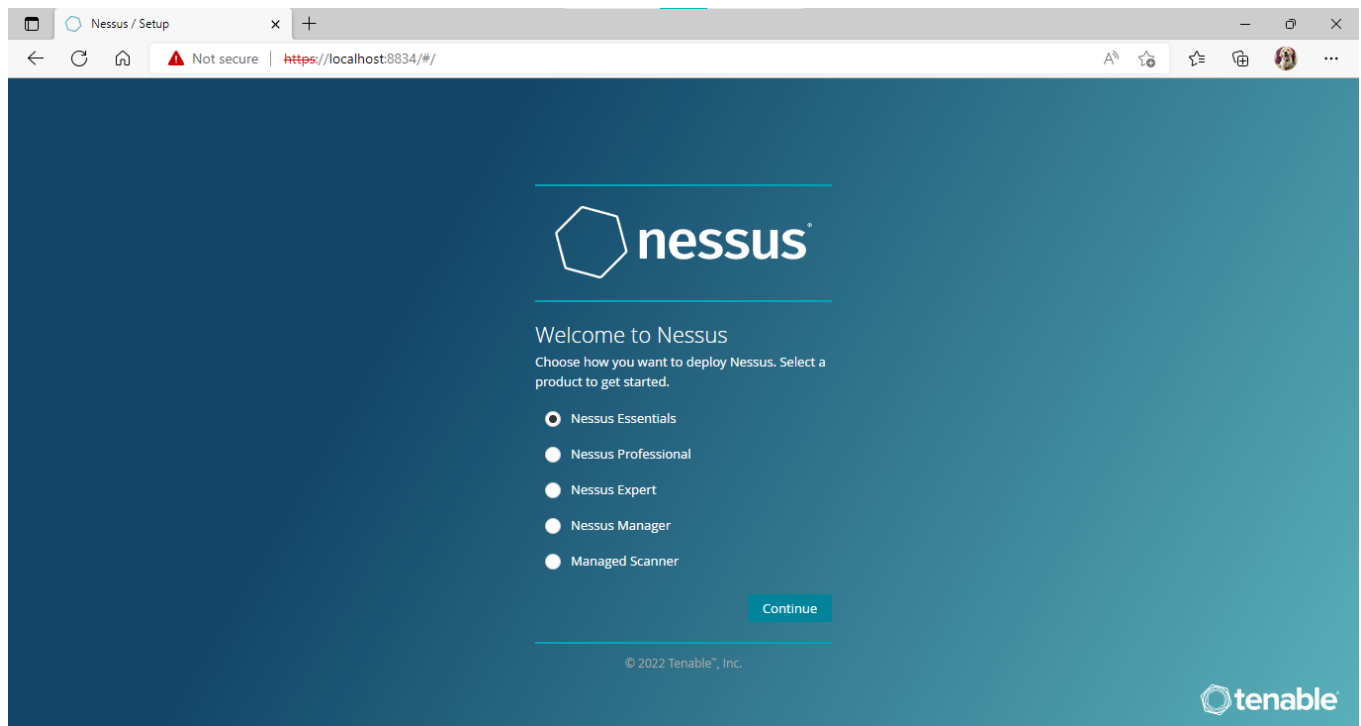
- Download Link:- <https://www.tenable.com/downloads/nessus?loginAttempted=true>



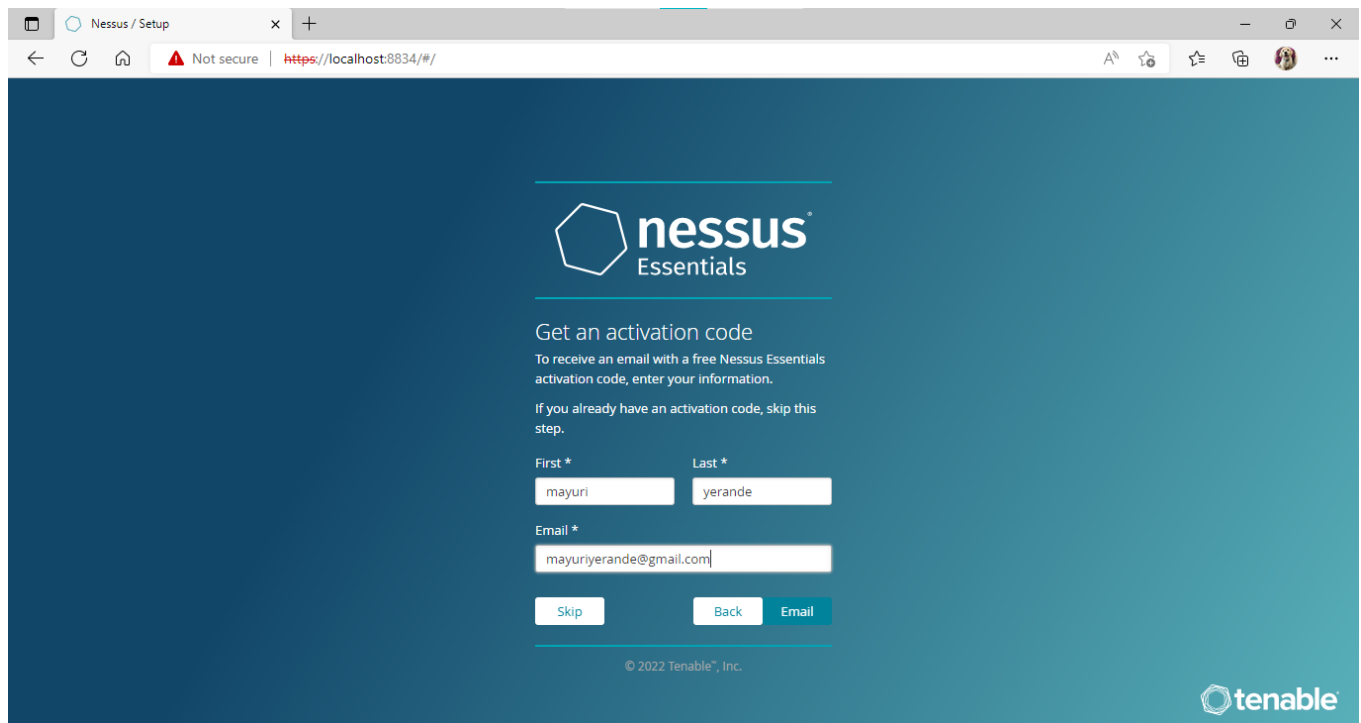




- Nessus is successfully installed
- "Go to connect Via SSL"




- Choose “nessus essential”
- enter your details



- Enter the activation code that you received on your email

Nessus / Setup x +

Not secure | https://localhost:8834/#/



nessus[®] Essentials

Register Nessus


Enter your activation code.

Activation Code *

☐ Register Offline

[Settings](#) [Back](#) [Continue](#)


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- Create username

Nessus / Setup x +

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nessus[®] Essentials

Create a user account


Create a Nessus administrator user account. Use this username and password to log in to Nessus.

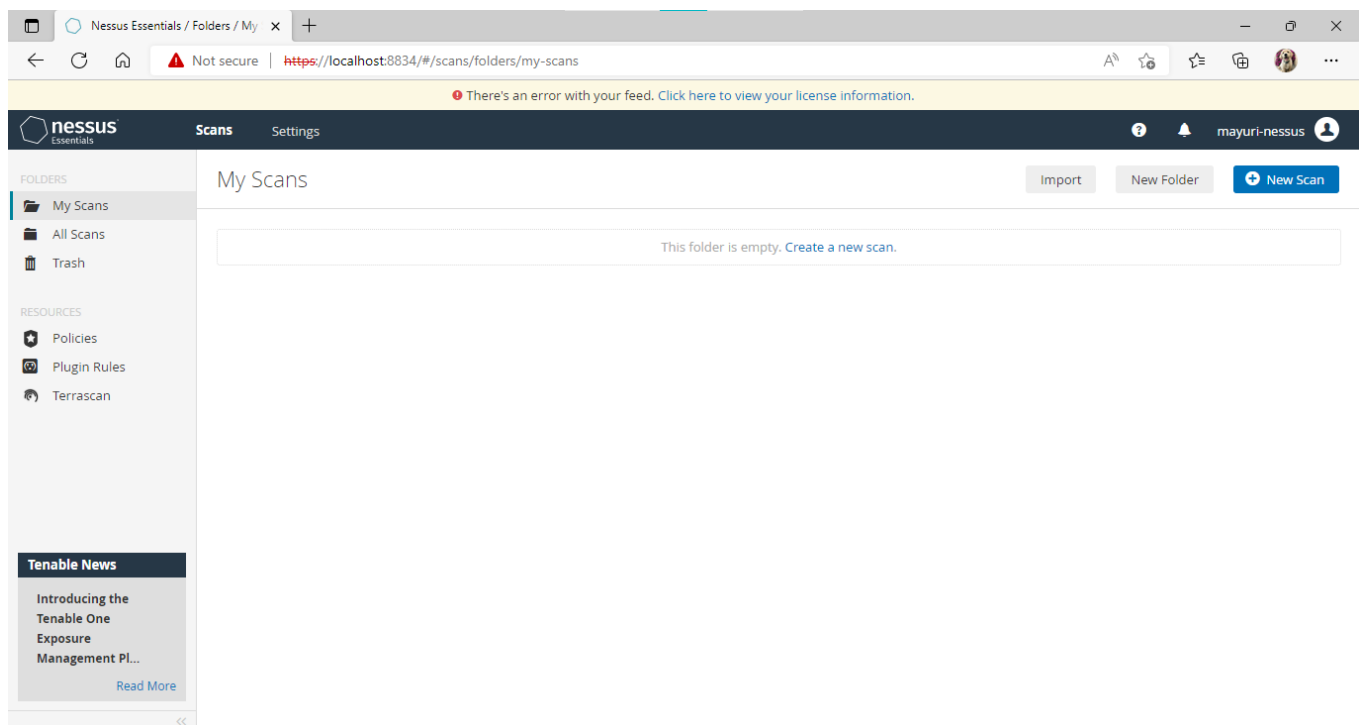
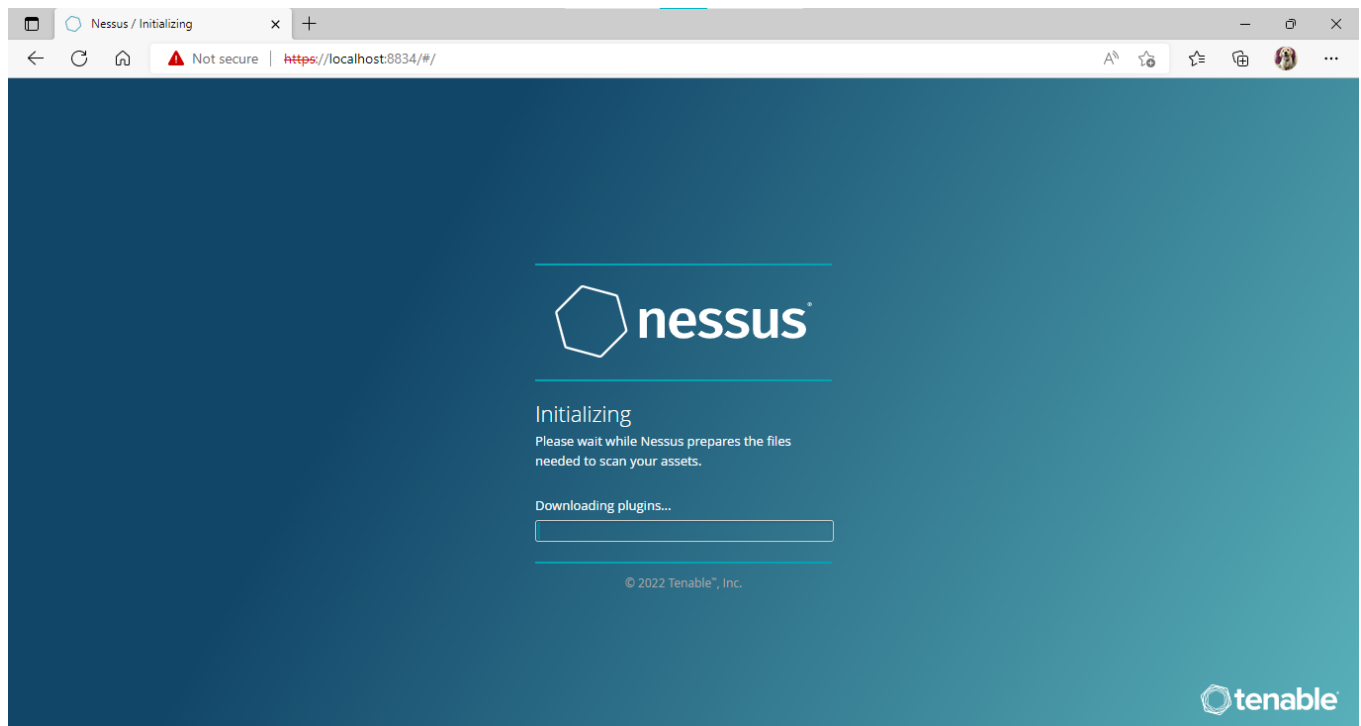
Username *

Password *

[Back](#) [Submit](#)

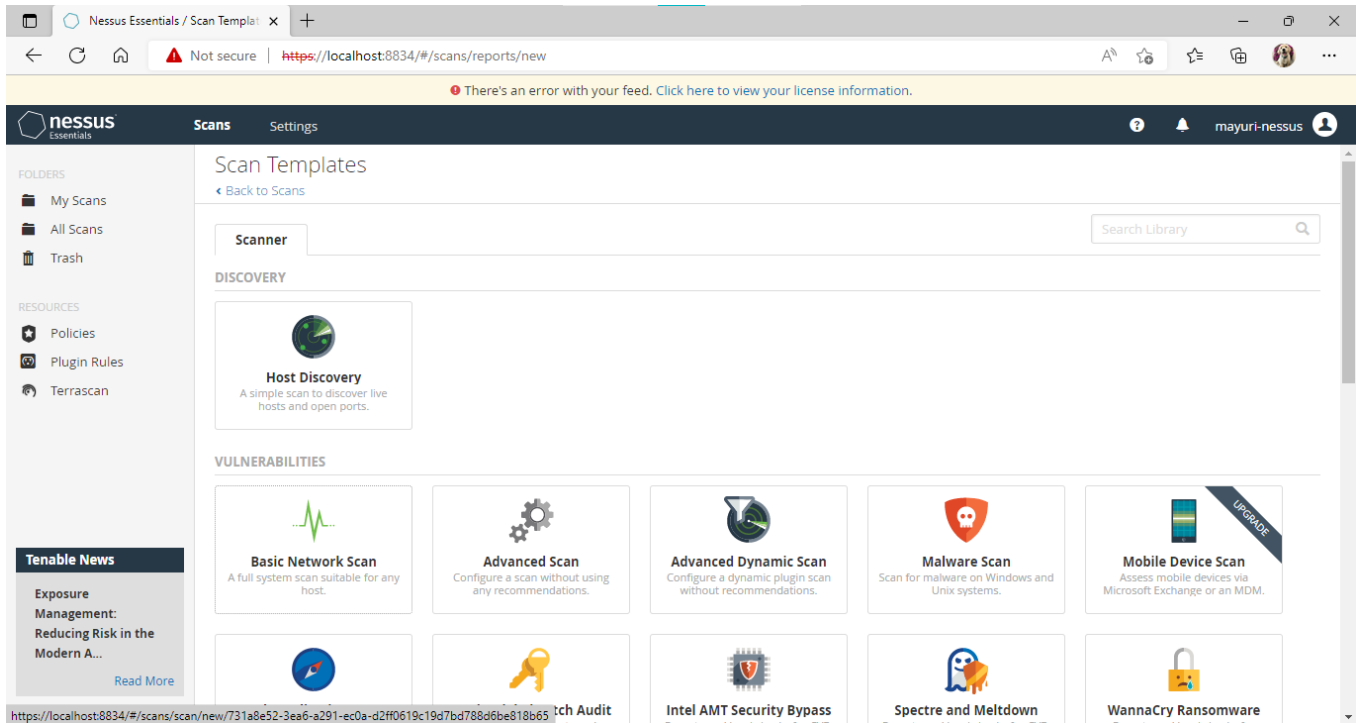
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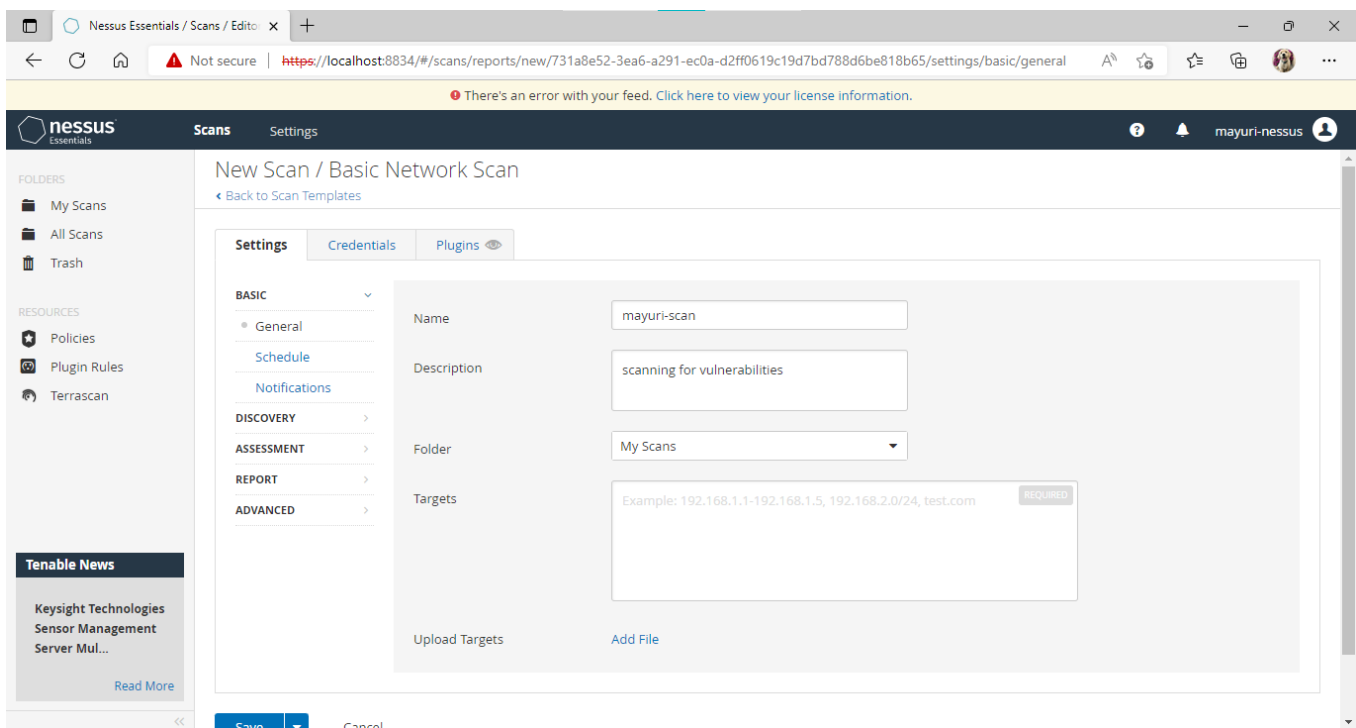


- You can now use nessus.

- Go to “new scan”
- open up “basic network scan”



- Enter the details:



- Now to get the IP address to input that in “targets” section. Go to command prompt
- and put the command “ipconfig”

```
cmd Select Administrator: Command Prompt
Connection-specific DNS Suffix . : 
Link-local IPv6 Address . . . . . : fe80::85c0:2d15:948f:6660%15
IPv4 Address. . . . . : 192.168.56.1
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 

Wireless LAN adapter Local Area Connection* 1:

Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . : 

Wireless LAN adapter Local Area Connection* 2:

Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . : 

Wireless LAN adapter Wi-Fi:

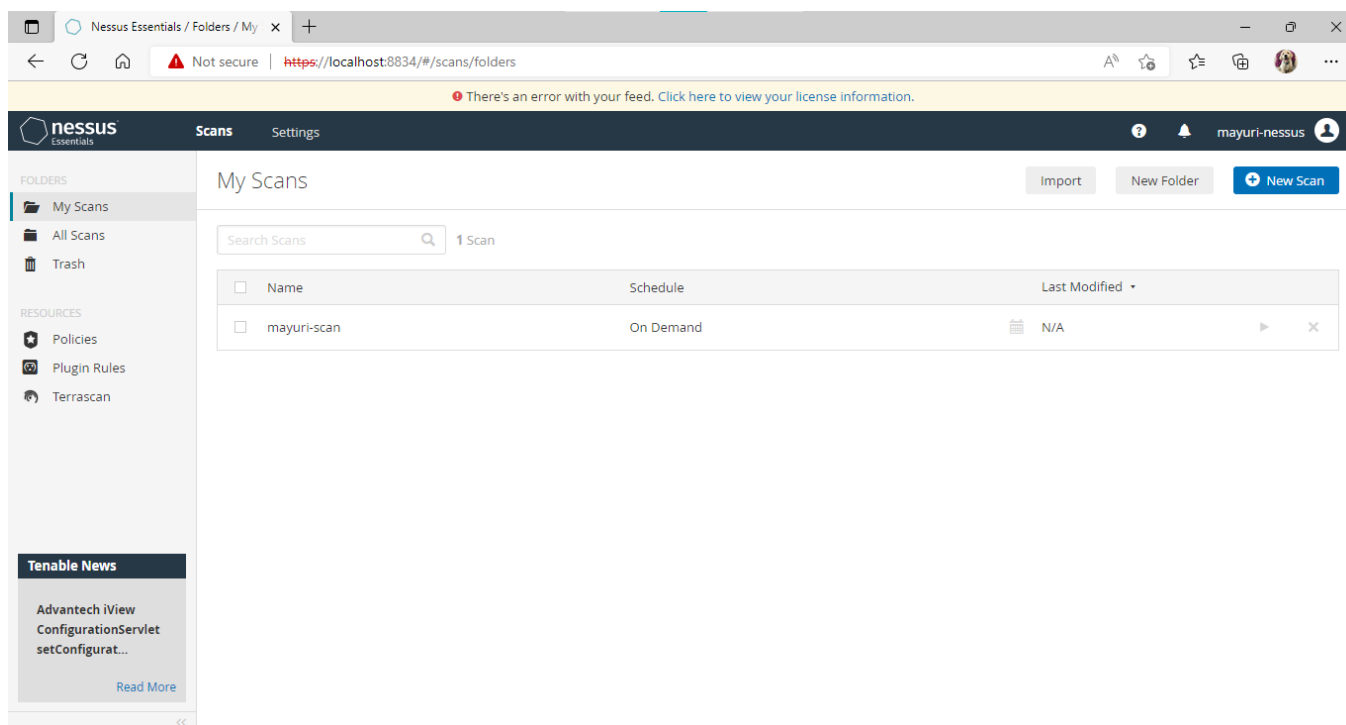
Connection-specific DNS Suffix . : 
Link-local IPv6 Address . . . . . : fe80::964:2474:9c26:4ba4%11
IPv4 Address. . . . . : 192.168.0.104
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.0.1

Ethernet adapter Bluetooth Network Connection:

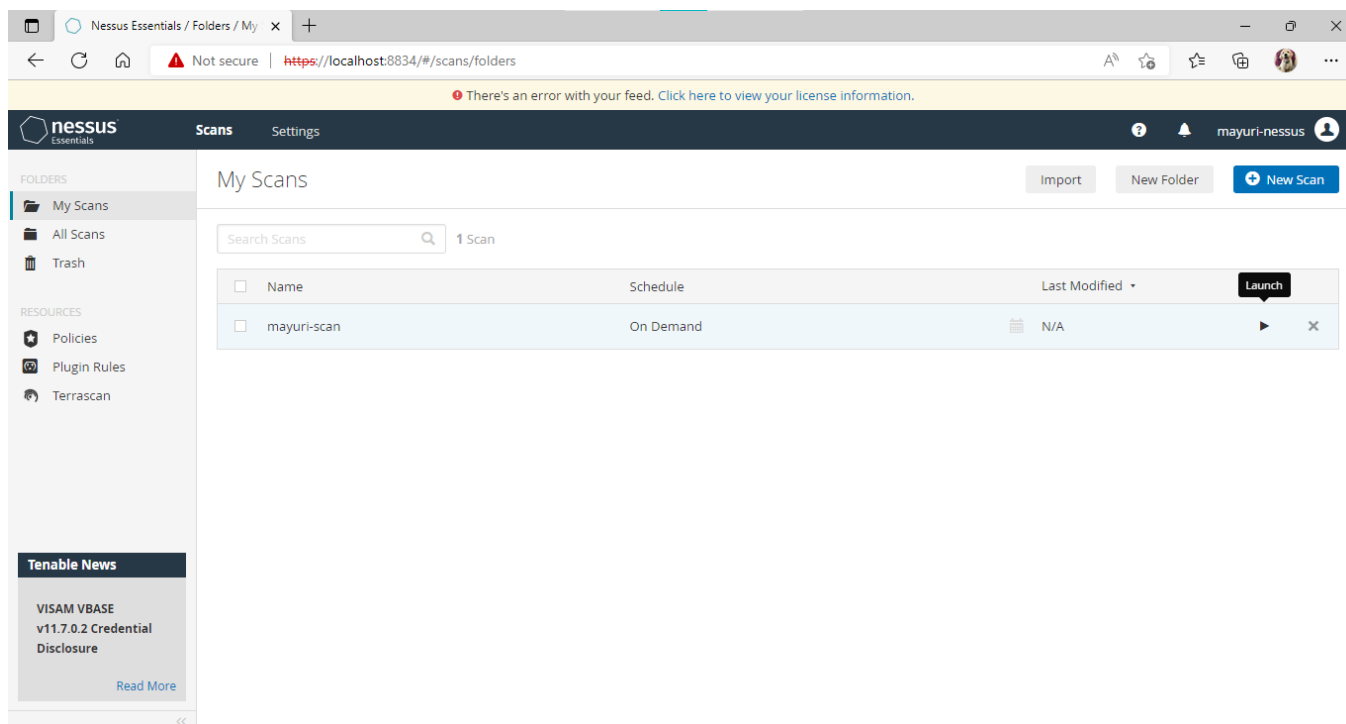
Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . : 

C:\WINDOWS\system32>
```

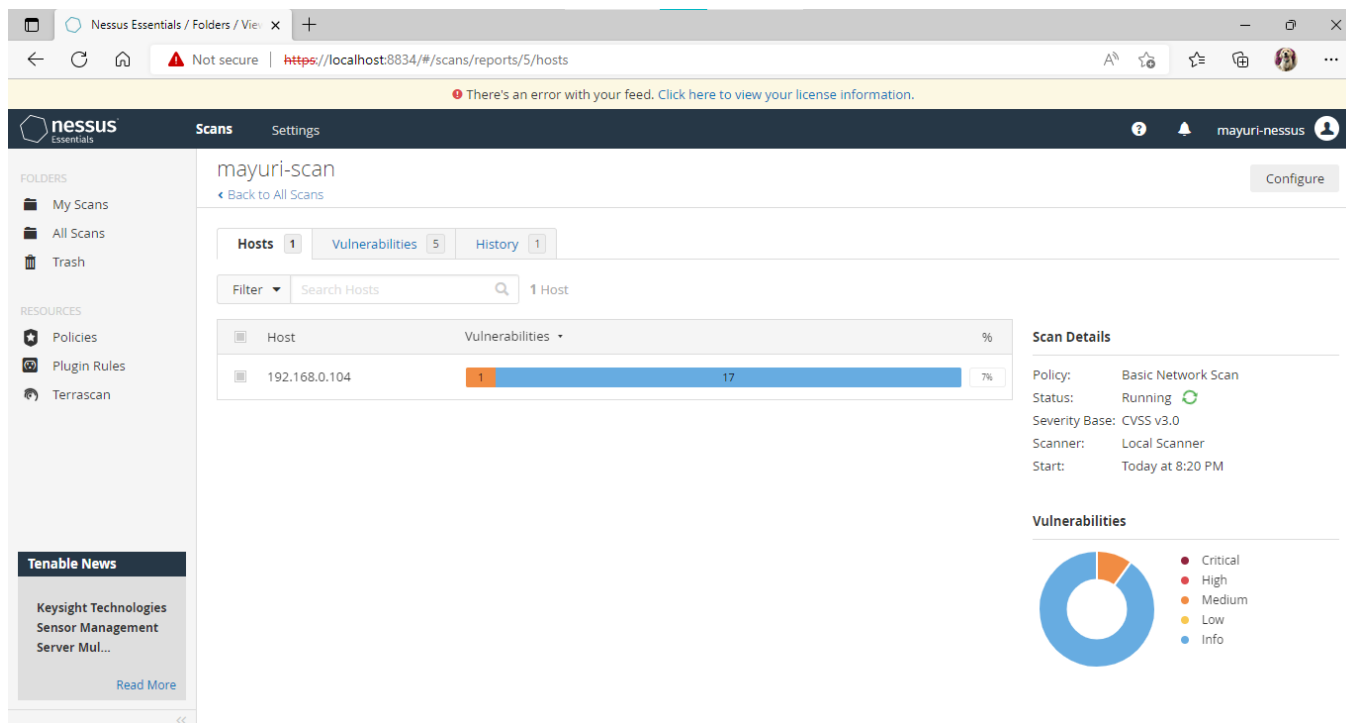
- copy the ip address and paste it in “targets”
- Now save the scan



- Click on the launch button



- Your system is getting scanned



- Scanning is completed

Nessus Essentials / Folders / View x +

Not secure | <https://localhost:8834/#/scans/reports/5/history>

There's an error with your feed. [Click here to view your license information.](#)

nessus Essentials Scans Settings mayuri-nessus

FOLDERS

- My Scans
- All Scans
- Trash

RESOURCES

- Policies
- Plugin Rules
- Terrascan

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mayuri-scan

Configure Audit Trail Launch Report Export

Hosts 1 Vulnerabilities 14 VPR Top Threats History 1

Search History 1 History

<input type="checkbox"/>	Start Time	Last Modified	Status
<input type="checkbox"/>	Current	Today at 8:20 PM	Today at 8:30 PM
<input type="checkbox"/>	Completed		

Scan Details

Policy: Basic Network Scan
 Status: Completed
 Severity Base: CVSS v3.0
 Scanner: Local Scanner
 Start: Today at 8:20 PM
 End: Today at 8:30 PM
 Elapsed: 10 minutes

Vulnerabilities

- Here are the scanned vulnerabilities

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Configure Audit Trail Launch Report Export

Hosts 1 Vulnerabilities 14 VPR Top Threats History 1

Filter Search Vulnerabilities 14 Vulnerabilities

<input type="checkbox"/>	Sev	Score	Name	Family	Count
<input type="checkbox"/>	MEDIUM	5.3	SMB Signing not required	Misc.	1
<input type="checkbox"/>	INFO	...	SMB (Multiple Issues)	Windows	6
<input type="checkbox"/>	INFO	...	Microsoft Windows ...	Windows	2
<input type="checkbox"/>	INFO	...	DCE Services Enumeration	Windows	8
<input type="checkbox"/>	INFO	...	Common Platform Enum...	General	1
<input type="checkbox"/>	INFO	...	Device Type	General	1
<input type="checkbox"/>	INFO	...	Host Fully Qualified Dom...	General	1
<input type="checkbox"/>	INFO	...	Nessus Scan Information	Settings	1

Scan Details

Policy: Basic Network Scan
 Status: Completed
 Severity Base: CVSS v3.0
 Scanner: Local Scanner
 Start: Today at 8:20 PM
 End: Today at 8:30 PM
 Elapsed: 10 minutes

Vulnerabilities

- Click on any vulnerability to check its information

Nessus Essentials / Folders / View

Not secure | <https://localhost:8834/#/scans/reports/5/vulnerabilities/54615>

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Scans Settings

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- All Scans
- Trash

RESOURCES

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mayuri-scan / Plugin #54615

Configure Audit Trail Launch Report Export

Hosts 1 Vulnerabilities 14 VPR Top Threats History 1

INFO Device Type

Description

Based on the remote operating system, it is possible to determine what the remote system type is (eg: a printer, router, general-purpose computer, etc).

Output

```
Remote device type : general-purpose
Confidence level : 50
```

Port	Hosts
N/A	192.168.0.104

Plugin Details

Severity: Info

ID: 54615

Version: 1.2

Type: combined

Family: General

Published: May 23, 2011

Modified: September 9, 2022

Risk Information

Risk Factor: None

Nessus Essentials / Folders / View

Not secure | <https://localhost:8834/#/scans/reports/5/vulnerabilities/19506>

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nessus Essentials

Scans Settings

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FOLDERS

- My Scans
- All Scans
- Trash

RESOURCES

- Policies
- Plugin Rules
- Terrascan

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mayuri-scan / Plugin #19506

Configure Audit Trail Launch Report Export

Hosts 1 Vulnerabilities 14 VPR Top Threats History 1

INFO Device Type

Description

The version of the plugin set.

The type of scanner (Nessus or Nessus Home).

The version of the Nessus Engine.

The port scanner(s) used.

The port range scanned.

The ping round trip time

Whether credentialed or third-party patch management checks are possible.

Whether the display of superseded patches is enabled

The date of the scan.

The duration of the scan.

The number of hosts scanned in parallel.

The number of checks done in parallel.

Output

```
Information about this scan :

Nessus version : 10.3.0
Nessus build : 20080
Plugin feed version : 202210070946
Scanner edition used : Nessus Home
Scanner OS : WINDOWS
Scanner distribution : win-x86-64
Scan time : 2022-10-07 09:46:00
MORE...
```

Port	Hosts
N/A	192.168.0.104

Plugin Details

Severity: Info

ID: 19506

Version: 1.116

Type: summary

Family: Settings

Published: August 26, 2005

Modified: June 9, 2022

Risk Information

Risk Factor: None

- Thus by using the “basic network scan” tool , we scanned the network for vulnerabilities.

CONCLUSION: We have successfully used NESSUS/ISO Kali Linux tool to scan the network for vulnerabilities.