

# **Nessus Room**



# Team members

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#### Task 1: Introduction

Nessus vulnerability scanner is precisely what its name suggests: a vulnerability scanner. It employs techniques akin to those used by Nmap to detect and report vulnerabilities, which are then displayed in an easy-to-navigate GUI. What sets Nessus apart from other scanners is its lack of assumptions during scans; for example, it doesn't automatically presume that a web application is operating on port 80.

Nessus provides both free and paid services, with certain features excluded from the free version to encourage users to opt for the paid service. Its pricing structure is comparable to that of Burp Suite, so unless you have some extra funds, we will primarily be utilizing the free version.

For more information on their pricing options, you can visit: https://www.tenable.com/products/nessus.

### Task 2:

You need to install Nessus tool

Warning: Do not install Nessus on the THM AttackBox. It will not work, as there's no sufficient space!

## Step 1:

Register for an Activation code

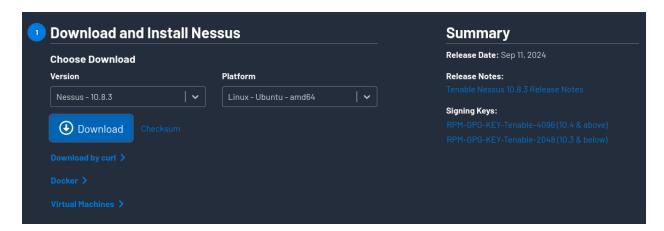
Go to https://www.tenable.com/products/nessus/nessus-essentials and register an account.





## Step 2:

#### Download file



## Step 3:

In the terminal we will navigate to that folder and run the following command:

# sudo dpkg -i package\_file.deb

```
File Actions Edit View Help

[kali@kali]-[~/Downloads]

$ sudo dpkg -i Nessus-10.8.3-ubuntu1604_amd64.deb

[sudo] password for kali:

Selecting previously unselected package nessus.
(Reading database ... 439906 files and directories currently installed.)
Preparing to unpack Nessus-10.8.3-ubuntu1604_amd64.deb ...

Unpacking nessus (10.8.3) ...
Setting up nessus (10.8.3) ...

HMAC : (Module_Integrity) : Pass
SHA1 : (KAT_Digest) : Pass
SHA2 : (KAT_Digest) : Pass
SHA3 : (KAT_Digest) : Pass
SHA3 : (KAT_Digest) : Pass
SHA3 : (KAT_Cipher) : Pass
AES_ECB_Decrypt : (KAT_Cipher) : Pass
AES_ECB_Decrypt : (KAT_Cipher) : Pass
AES_ECB_SA : (PCT_Signature) : PASS
BCOSA : (PCT_Signature) : Pass
ECDSA : (PCT_Signature) : Pass
TLS13_KDF_EXTRACT : (KAT_KDF) : Pass
TLS13_KDF_EXTRACT : (KAT_KDF) : Pass
TLS13_KDF_EXTRACT : (KAT_KDF) : Pass
SHKDF : (KAT_KDF) : Pass
KBKDF : (KAT_KDF) : Pass
```

## step 4:

We will now start the Nessus Service with the command:



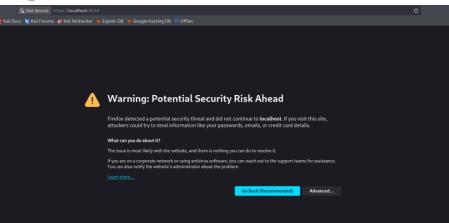
# sudo /bin/systemctl start nessusd.service

```
---(kali® kali)-[~/Downloads]
--$ <u>sudo</u> /bin/systemctl start nessusd.service
```

## step 5:

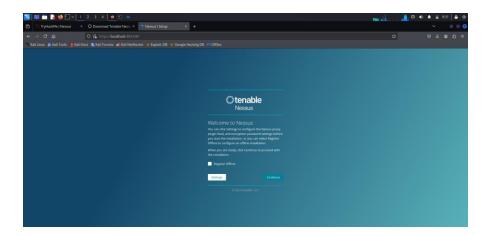
Open up Firefox and goto the following URL:

https://localhost:8834/



You may be prompted with a security risk alert.

Click Advanced... -> Accept the Risk and Continue





#### Next:

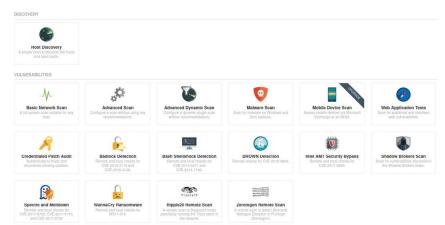
Then Fill out the Username and Password fields. Make sure to use a strong password! And log in.

# Finally:

You have now successfully installed Nessus!

# Task 3: Navigation and Scans

#### Scan types!



## Questions:

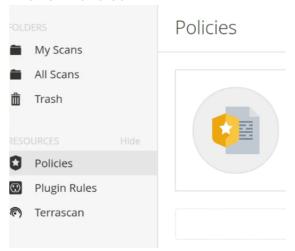
What is the name of the button which is used to launch a scan? Answer: **New scan** 





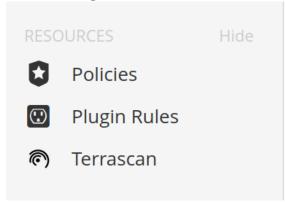
#### What side menu option allows us to create custom templates?

#### Answer: **Policies**



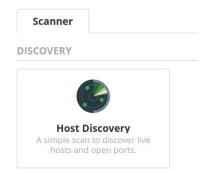
What menu allows us to change **plugin** properties such as hiding them or changing their severity

#### Answer: **Plugin Rules**



In the 'Scan Templates' section after clicking on 'New Scan', what scan allows us to see simply what hosts are alive?

#### Answer: Host Discovery





One of the most useful scan types, which is considered to be 'suitable for any host'? Answer: Basic Network Scan

# 

What scan allows you to 'Authenticate to hosts and enumerate missing updates'? Answer: Credentialed Patch Audit



#### **Credentialed Patch Audit**

Authenticate to hosts and enumerate missing updates.

What scan is specifically used for scanning **Web Applications**? Answer: **Web Application Tests** 



#### **Web Application Tests**

Scan for published and unknown web vulnerabilities using Nessus Scanner.

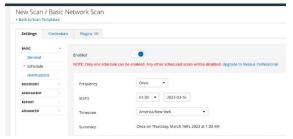


# Task 4: Scanning

Run a Network Scan!

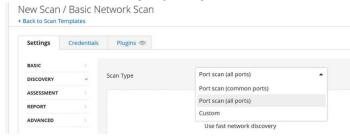
Create a new 'Basic Network Scan' targeting the deployed VM. What option can we set under 'BASIC' (on the left) to set a time for this scan to run? This can be very useful when network congestion is an issue.

#### Answer: Schedule



Under '**DISCOVERY**' (on the left) set the '**Scan Type**' to cover ports 1–65535. What is this type called?

#### Answer: Port scan (all ports)



What 'Scan Type' can we change to under 'ADVANCED' for lower bandwidth connection? Answer: Scan low bandwidth links





After the scan completes, which 'Vulnerability' in the 'Port scanners' family can we view the details of to see the open ports on this host?

#### Answer: Nessus SYN scanner



#### What **Apache HTTP Server Version** is reported by Nessus?

Answer: 2.4.99

URL : http://10.10.140.178/ Version : 2.4.99

Source : Server: Apache/2.4.25 (Debian)

backported: 1

os : ConvertedDebian



# Task 5: Scanning a Web Application!

Run a Web Application scan



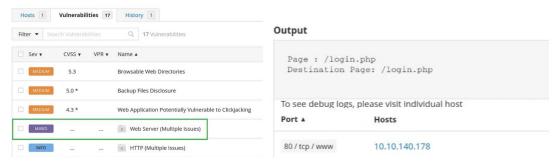
#### **Questions:**

What is the plugin id of the plugin that determines the HTTP server type and version? Answer: **10107** 

# Plugin Details Severity: Info ID: 10107 Version: 1.141 Type: remote Family: Web Servers Published: January 4, 2000 Modified: October 30, 2020

What authentication page is discovered by the scanner that transmits credentials in cleartext?

Answer: login.php

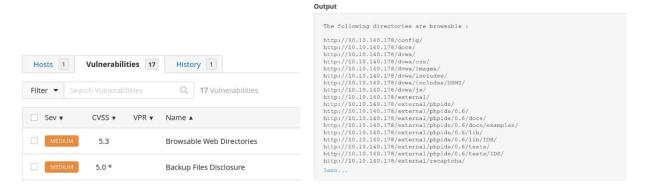




# What is the file extension of the config backup? Answer: **.bak**



Which directory contains example documents? (This will be in a php directory) Answer: <a href="mailto://external/phpids/0.6/docs/examples/">/external/phpids/0.6/docs/examples/</a>



What vulnerability is this application susceptible to that is associated with X-Frame-Options?

#### Answer: Clickjacking

