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Mata Kuliah : Keamanan Jaringan Komputer

Ujian Tengah Semester Laporan TryHackMe: Nessus

Task 2: Installation

1. Lakukan Registrasi akun untuk mendapatkan *activation code*.

per scanner) with the same high-speed, in-depth assessments and agentless scanning convenience that Nessus subscribers enjoy.

Please note that Nessus Essentials does not allow you to perform compliance checks or content audits, Live Results or use the Nessus virtual appliance. If you require these additional features, please purchase a [Nessus Professional](#) subscription.

Using Nessus Essentials for education? Register for Nessus Essentials through the [Tenable for Education](#) program to get started.

Interested in learning how to use Nessus? Our [on-demand course](#) enables the student, through a series of targeted videos, to develop the building blocks for effective use of the Nessus vulnerability assessment solution. From asset discovery to vulnerability assessment to compliance, participants will learn to effectively utilize Nessus in a variety of business use cases. [Learn more.](#)

Register for an Activation Code

First Name: Ferza, Last Name: Reyaldi

Business Email: ferzareyaldi.bana@gmail.com

☒ Check to receive updates from Tenable

Tenable will only process your personal data in accordance with its [Privacy Policy](#).

Get Started

Welcome To Nessus Essentials

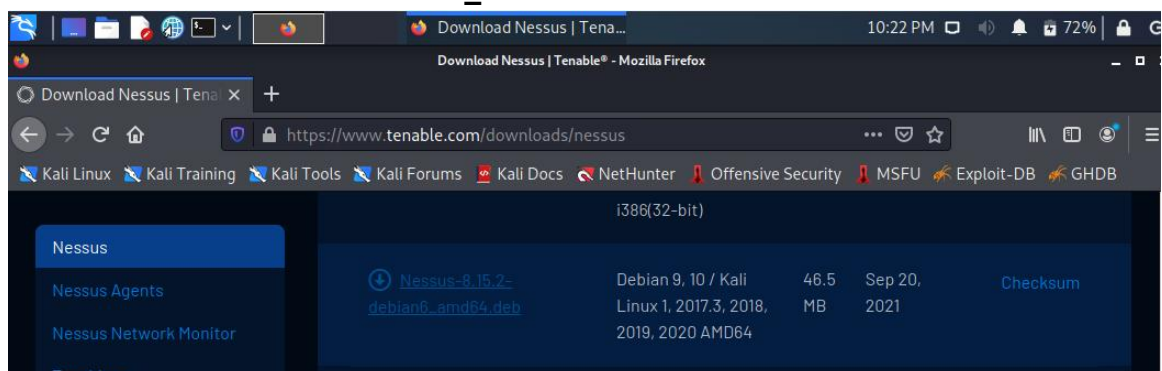
Welcome to Nessus Essentials and congratulations on taking action to secure your network! We offer the latest plugins for vulnerability scanning today, helping you identify more vulnerabilities and keep your network protected.

If you're looking for more advanced capabilities, such as live results and configuration checks – as well as the ability to scan unlimited IPs, check out Nessus Professional. To learn more view the [Nessus Professional datasheet](#).

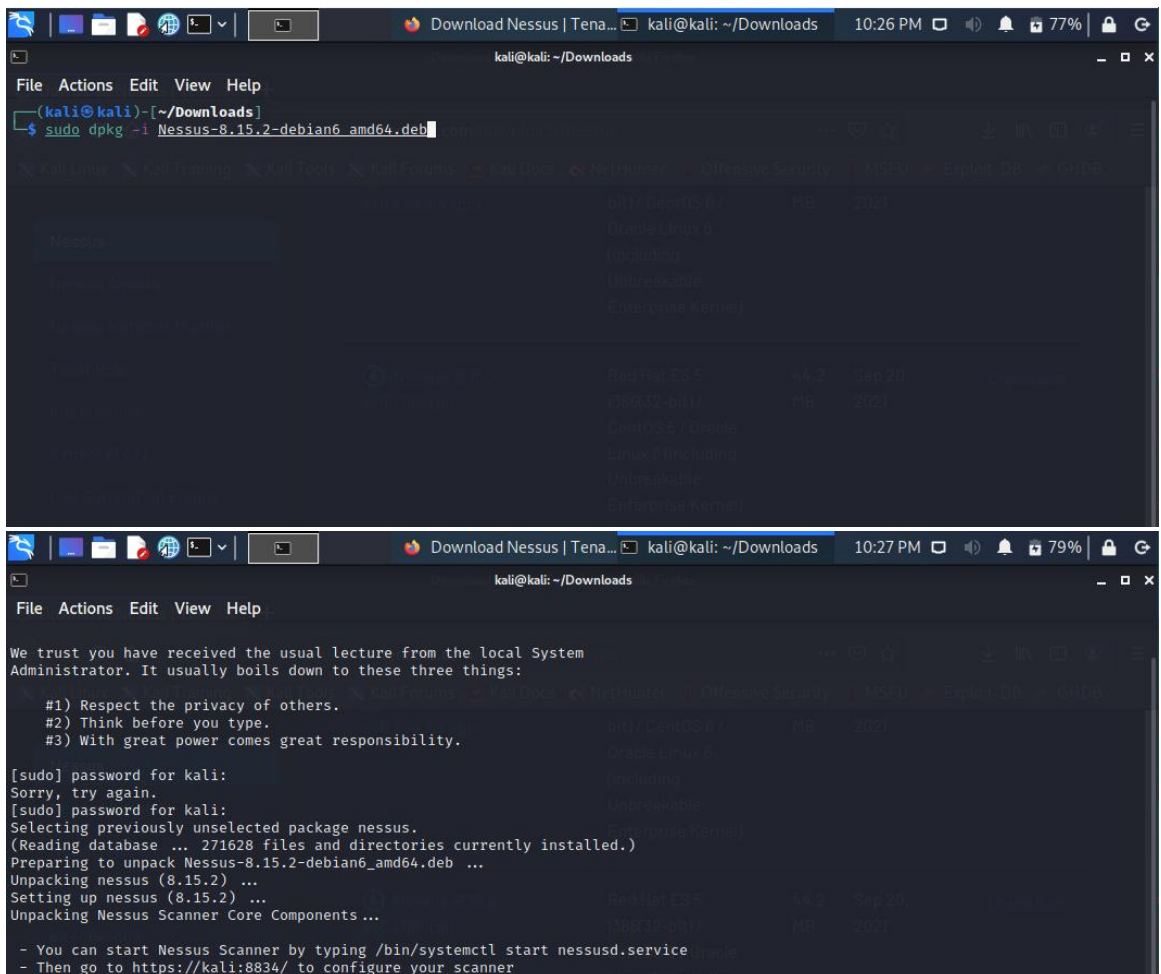
Activating Your Nessus Essentials License

Your activation code for Nessus Essentials is:
GKBV-D96Y-DYPK-PRN3-93KK

2. Unduh file **Nessus-#.#.#-debian6_amd64.deb**.



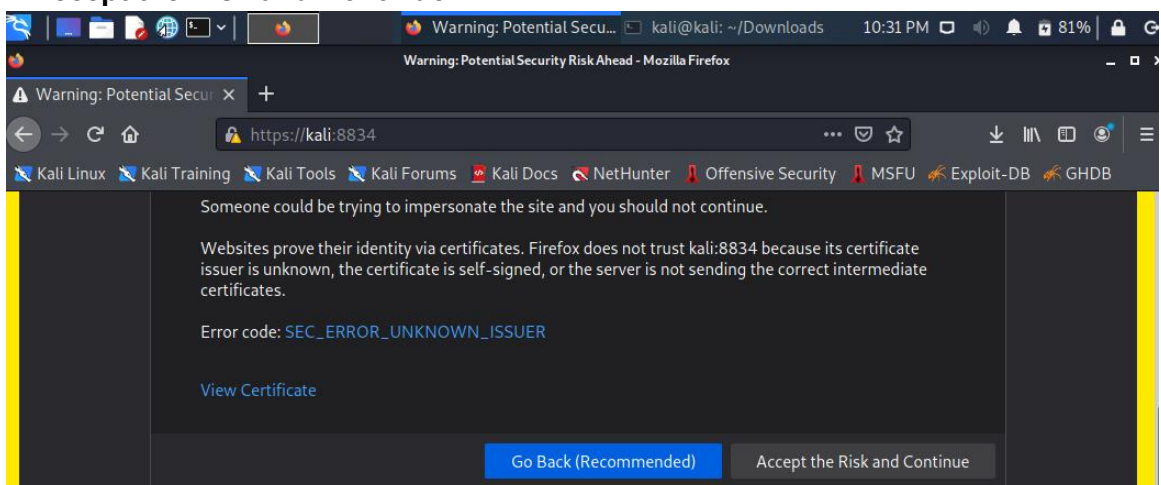
3. Buka terminal, jalankan perintah **sudo dpkg -i [Nama File Package].deb** untuk menginstal Nessus.



4. Mulai Nessus Service dengan perintah **sudo /bin/systemctl start nessusd.service**

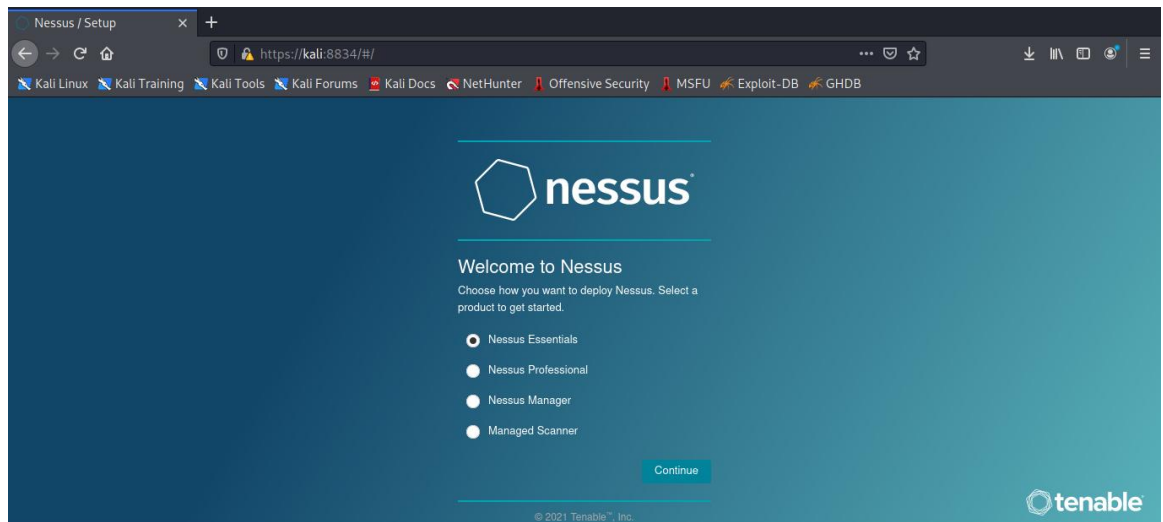


5. Buka <https://kali:8834/>. Jika ada *prompted* dengan *security risk alert*, klik **Advanced - > Accept the Risk and Continue.**

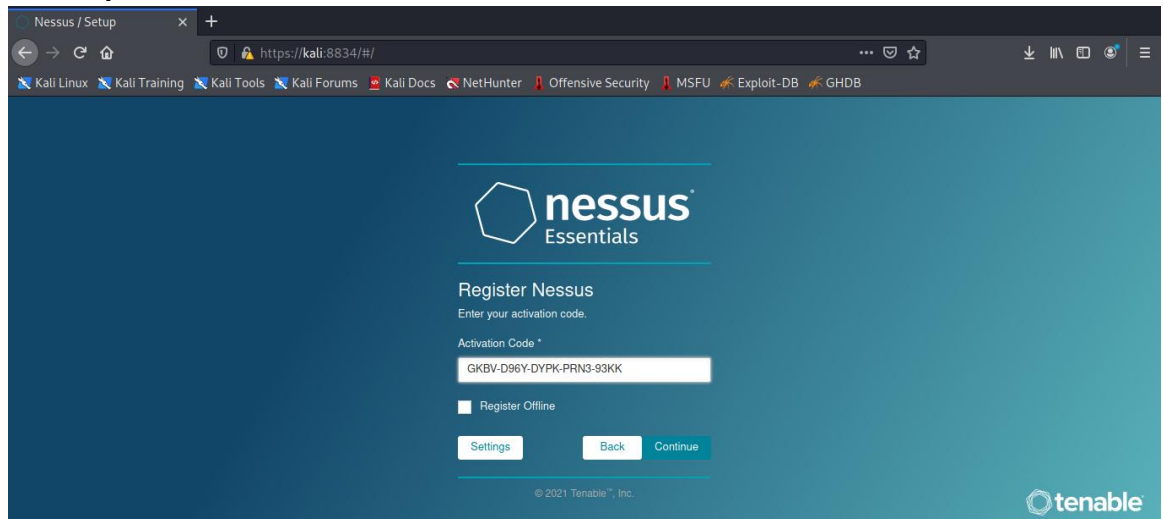


Melakukan *set up* Scanner

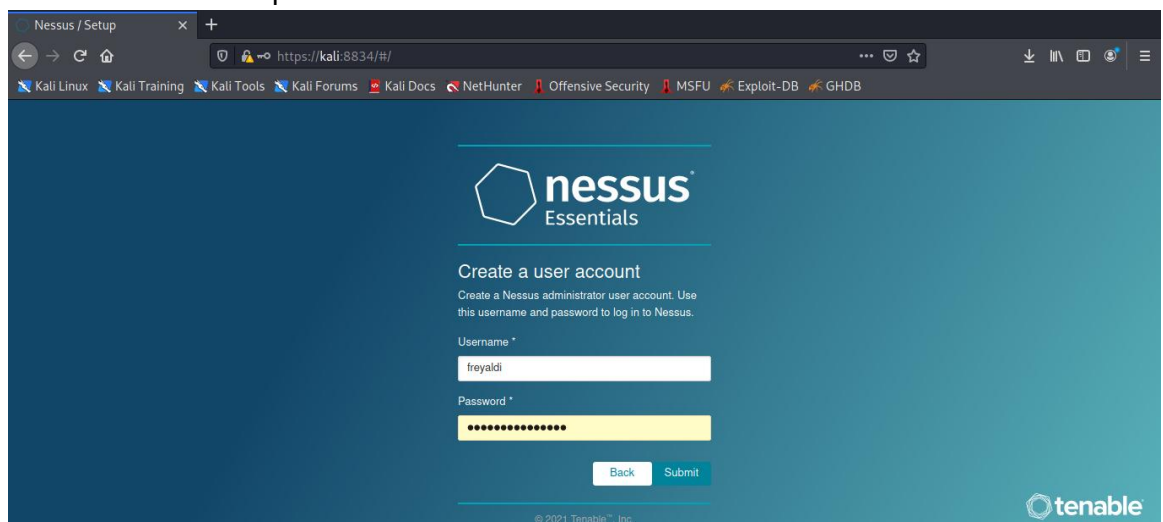
6. Pilih **Nessus Essentials**, klik **Continue.**



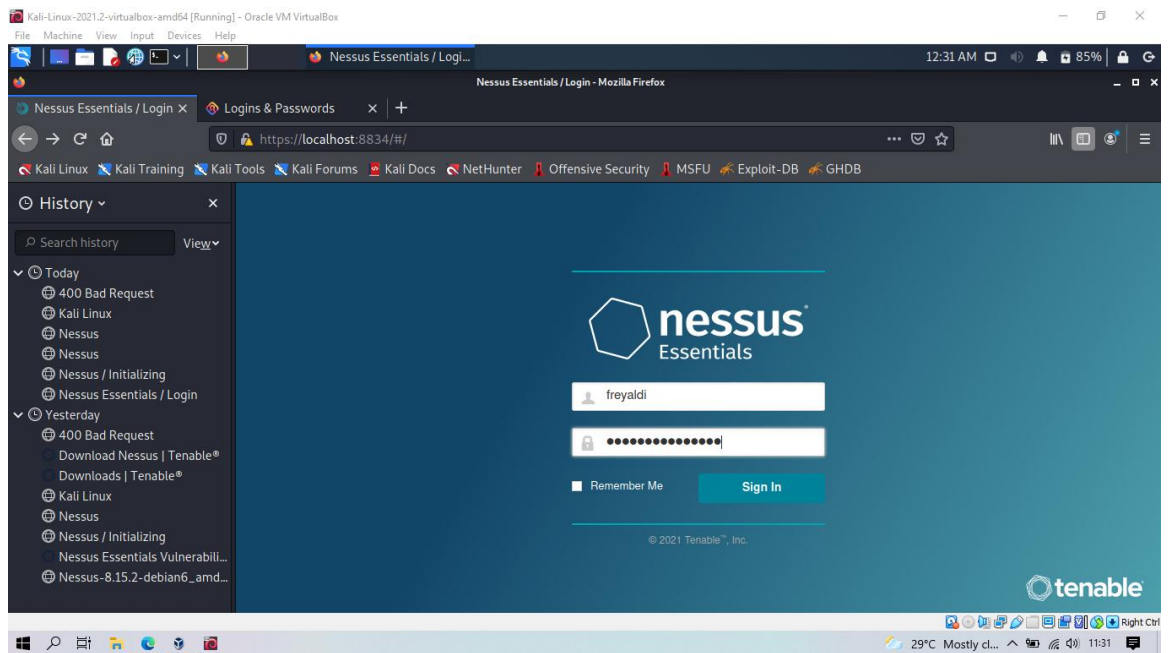
7. Klik **skip**, kemudian masukan *activation code*.



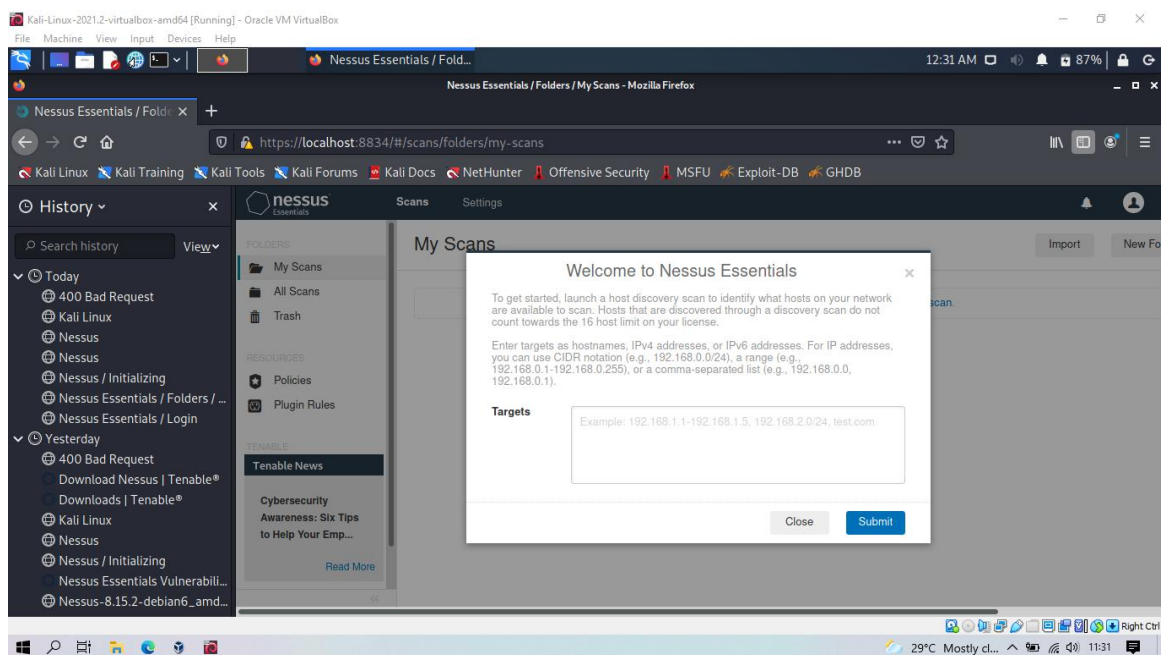
8. Buat username dan password.



9. Log in dengan kredensial akun yang telah dibuat



10. Nessus berhasil diinstal.



Task 3: Navigation & Scans

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

Jawab: new scan

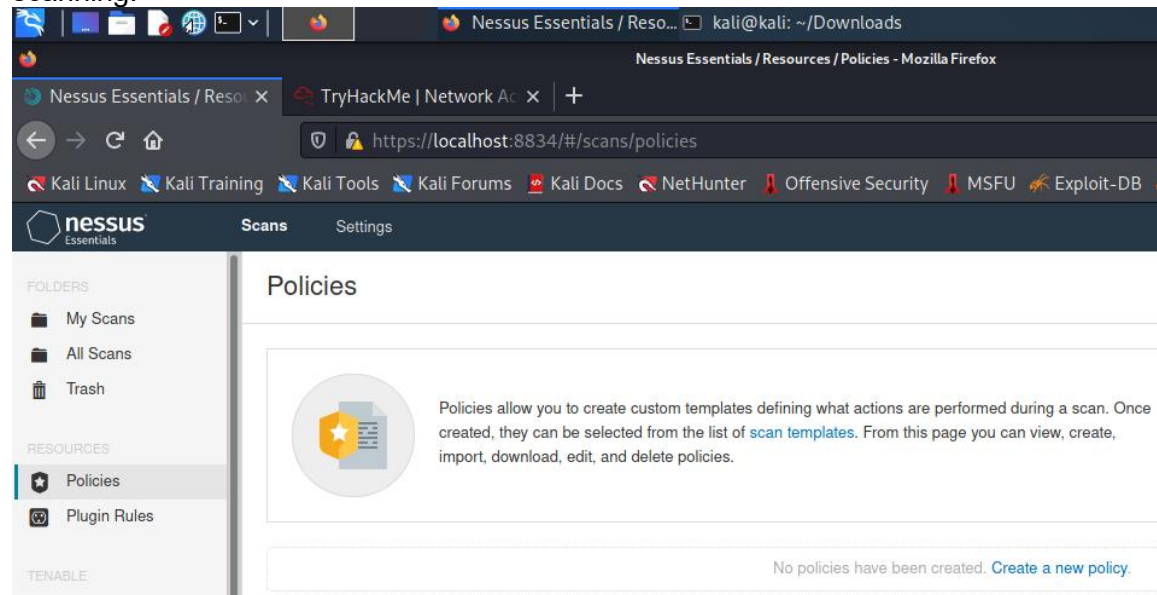
digunakan untuk menjalankan/membuat suatu scanning apapun pada Nessus.



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

Jawab: policies

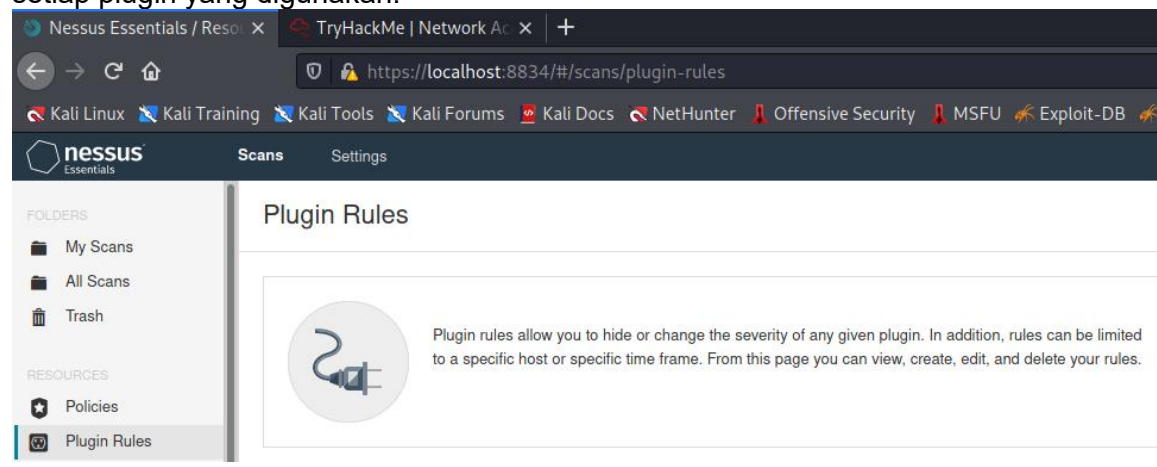
terletak pada bagian **resources**, memungkinkan untuk membuat *custom template* dalam scanning.



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

Jawab: plugin rules

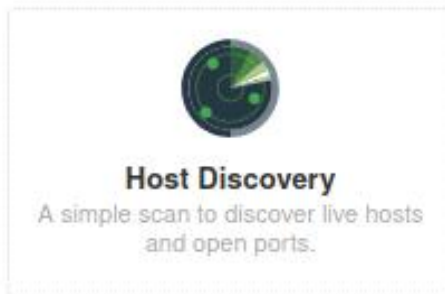
terletak pada bagian **resources**, memungkinkan untuk menyembunyikan *severity* dari setiap plugin yang digunakan.



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

Jawab: host discovery

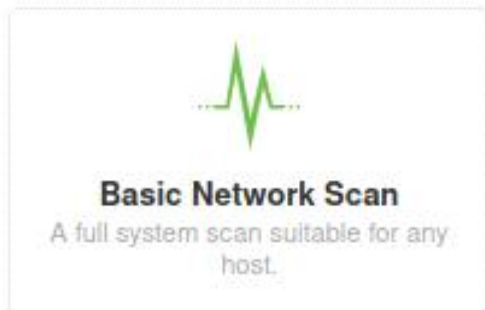
memungkinkan melakukan scanning untuk melihat/menemukan host yang hidup dan port-port yang terbuka.



One of the most useful scan types, which is considered to be '**suitable for any host**'?

Jawab: basic network scan

tipe scan yang paling fleksibel dan sangat berguna karena cocok untuk semua jenis host.



What scan allows you to '**Authenticate to hosts and enumerate missing updates**'?

Jawab: credentialed patch audit

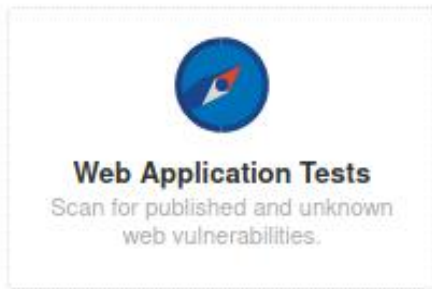
Tipe scan yang memungkinkan untuk melakukan autentikasi pada host dan melakukan enumerasi terhadap perubahan yang hilang.



What scan is specifically used for scanning **Web Applications**?

Jawab: web applications tests

Tipe scan khusus dilakukan pada web applications vulnerabilities, baik yang bersifat publik ataupun tidak diketahui.



Task 4: Scanning

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.

Jawab: schedule

Salah satu menu yang berada pada bagian BASIC, sesuai namanya berguna untuk mengatur waktu untuk menjalankan scan.

The screenshot shows the Nessus configuration interface. On the left, there is a sidebar with a 'Settings' tab selected. Under 'Settings', the 'BASIC' section is expanded, showing sub-menus: 'General', 'Schedule', and 'Notifications'. The 'Schedule' sub-menu is highlighted. The main content area shows the configuration for a scan named 'ferza_watest'. The 'Name' field is filled with 'ferza_watest'. The 'Description' field is empty. The 'Folder' dropdown is set to 'My Scans'. The 'Targets' field contains the IP address '10.10.4.43'.

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

Jawab: port scan (all ports)

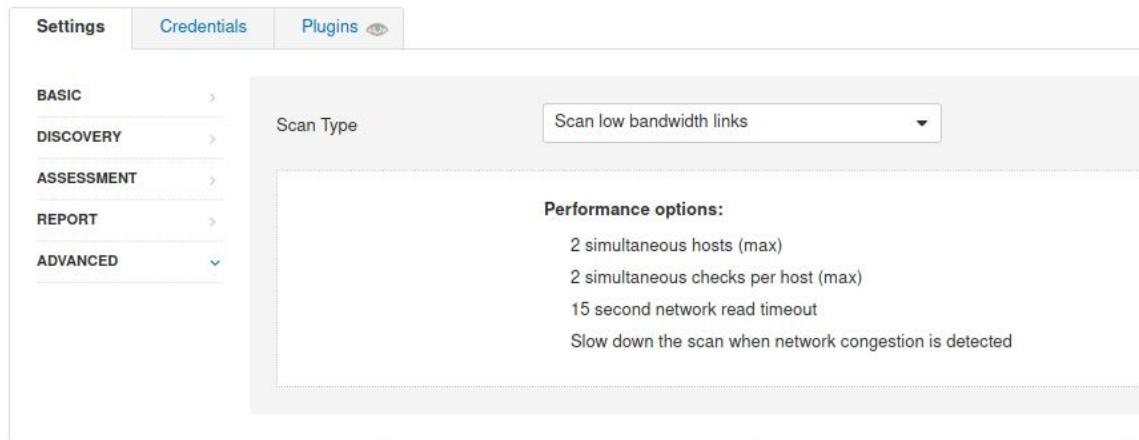
Pada bagian DISCOVERY, tepatnya menu Scan Type, pilih **port scan (all ports)** dengan tujuan agar semua port diperiksa.

The screenshot shows the Nessus configuration interface for a 'Discovery' scan. On the left, the 'DISCOVERY' section is expanded. The main content area shows the 'Scan Type' dropdown set to 'Port scan (all ports)'. Below this, there are several settings sections: 'General Settings' with options 'Always test the local Nessus host' and 'Use fast network discovery'; 'Port Scanner Settings' with options 'Scan all ports (1-65535)', 'Use netstat if credentials are provided', and 'Use SYN scanner if necessary'; and 'Ping hosts using:' with options 'TCP', 'ARP', and 'ICMP (2 retries)'.

What '**Scan Type**' can we change to under '**ADVANCED**' for lower bandwidth connection?

Jawab: scan low bandwidth links

Pada bagian ADVANCED, pilih **Scan low bandwidth links** dengan tujuan agar dapat dilakukan scanning dengan koneksi bandwidth yang lebih kecil/rendah.



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?

Jawab: nessus SYN scanner

Satu-satunya **vulnerability** yang termasuk **port scanners** dari hasil scan adalah **nessus SYN scanner**.



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

Jawab: 2.4.99

Pada plugin #48204, berisi tentang **Apache HTTP Server Version**, berdasarkan keluaran yang ditampilkan, versi dari Apache HTTP Server adalah 2.4.99.

ferza_bnskan / Plugin #48204

Configure Audit Trail

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INFO Apache HTTP Server Version

Description

The remote host is running the Apache HTTP Server, an open source web server. It was possible to read the version number from the banner.

See Also

<https://httpd.apache.org/>

Output

```
URL      : http://10.10.4.43/
Version  : 2.4.99
backported : 1
os       : ConvertedDebian
```

Task 5: Scanning a Web Application

What is the plugin id of the plugin that determines the HTTP server type and version?

Jawab: 10107

Plugin#10107 berisi mengenai tipe dan versi HTTP server, seperti pada deskripsi dan keluaran pada gambar berikut.

ferza_watest / Plugin #10107

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Configure

Audit Trail

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INFO

HTTP Server Type and Version

Description

This plugin attempts to determine the type and the version of the remote web server.

Output

```
The remote web server type is :  
Apache/2.4.25 (Debian)
```

Port ▲	Hosts
80 / tcp / www	10.10.4.43

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

Jawab: login.php

Login.php adalah halaman autentikasi yang melakukan transmisi kredensial dalam bentuk *cleartext*.

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LOW

Web Server Transmits Cleartext Credentials

Description

The remote web server contains several HTML form fields containing an input of type 'password' which transmit their information to a remote web server in cleartext.

An attacker eavesdropping the traffic between web browser and server may obtain logins and passwords of valid users.

Solution

Make sure that every sensitive form transmits content over HTTPS.

Output

```
Page : /login.php  
Destination Page: /login.php
```

What is the file extension of the config backup?

Jawab: .bak

MEDIUM
Backup Files Disclosure

Description
By appending various suffixes (ie: .old, .bak, ~, etc...) to the names of various files on the remote host, it seems possible to retrieve their contents, which may result in disclosure of sensitive information.

Solution
Ensure the files do not contain any sensitive information, such as credentials to connect to a database, and delete or protect those files that should not be accessible.

See Also
<http://projects.webappsec.org/w/page/13246953/Predictable%20Resource%20Location>

Output

```

It is possible to read the following backup file :
- File : /config/config.inc.php.bak
  URL  : http://10.10.4.43/config/config.inc.php.bak

```

Which directory contains example documents? (This will be in a php directory)

Jawab: /external/phpids/0.6/docs/examples/

Pada plugin #40984 berisi tentang direktori web yang bisa ditelusuri, salah satunya adalah direktori yang berisi dokumen contoh seperti pada teks yang dipilih di gambar berikut.

ferza_watest / Plugin #40984

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MEDIUM

Browsable Web Directories

Description

Multiple Nessus plugins identified directories on the web server that are browsable.

Output

```

The following directories are browsable :
http://10.10.4.43/config/
http://10.10.4.43/docs/
http://10.10.4.43/dvwa/
http://10.10.4.43/dvwa/css/
http://10.10.4.43/dvwa/images/
http://10.10.4.43/dvwa/includes/
http://10.10.4.43/dvwa/includes/DBMS/
http://10.10.4.43/dvwa/js/
http://10.10.4.43/external/
http://10.10.4.43/external/phpids/
http://10.10.4.43/external/phpids/0.6/
http://10.10.4.43/external/phpids/0.6/docs/
http://10.10.4.43/external/phpids/0.6/docs/examples/
http://10.10.4.43/external/phpids/0.6/lib/

```

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

Jawab: clickjacking

X-Frame-Options rentan terkena serangan *clickjacking* sehingga Microsoft memberikan Header sebagai langkah untuk mitigasi dari serangan tersebut.

INFO

Missing or Permissive X-Frame-Options HTTP Response Header

**Description**

The remote web server in some responses sets a permissive X-Frame-Options response header or does not set one at all.

The X-Frame-Options header has been proposed by Microsoft as a way to mitigate [clickjacking](#) attacks and is currently supported by all major browser vendors