

# Part 1 : Executing openvas scans

## 1. Start OpenVAS on Kali Linux

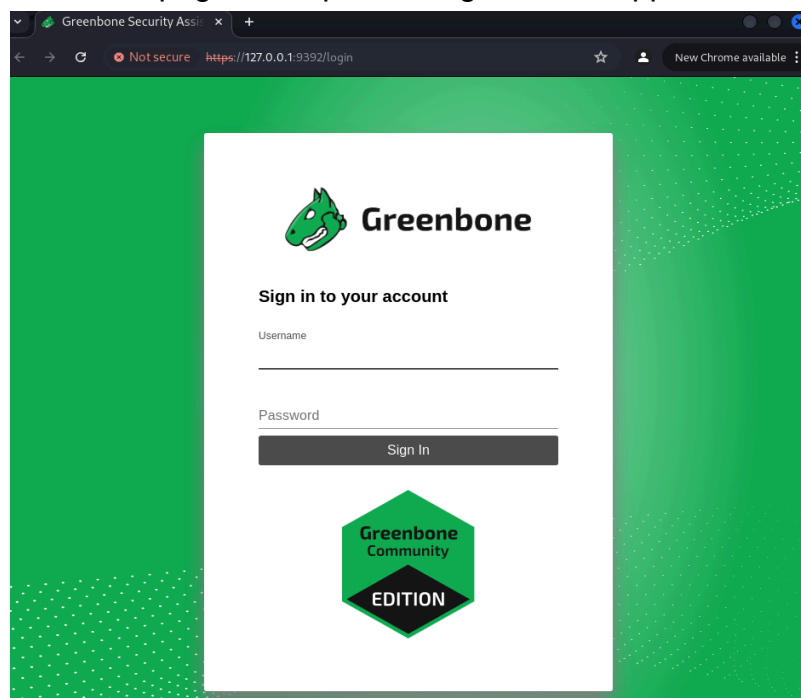
Open kali linux

Open terminal

Type in the terminal the command: `sudo gvm-start`

```
(student@kali)-[~]
$ sudo gvm-start
[sudo] password for student:
[>] Please wait for the GVM services to start.
[>]
[>] You might need to refresh your browser once it opens.
[>]
[>] Web UI (Greenbone Security Assistant): https://127.0.0.1:9392
```

A browser page with openvas login should appear



## 2. Update openvas feeds

Login to the openvas site.  
Go to the Administration tab and check Feed Status  
If the status of the content is not current, update feeds using the following commands:

In the terminal type : `sudo greenbone-nvt-sync`  
This will update the NVT's feed

```
(student@kali)-[~]
└─$ sudo greenbone-nvt-sync
Running as root. Switching to user '_gvm' and group '_gvm'.
Trying to acquire lock on /var/lib/openvas/feed-update.lock
Acquired lock on /var/lib/openvas/feed-update.lock
- Downloading Notus files from rsync://feed.community.greenbone.net/community/vulnerability-feed/22.04/vt-data/notus/ to /var/lib/notus
- Downloading NASL files from rsync://feed.community.greenbone.net/community/vulnerability-feed/22.04/vt-data/nasl/ to /var/lib/openvas/plugins
Releasing lock on /var/lib/openvas/feed-update.lock
```

In the terminal type : `sudo greenbone-scapdata-sync`  
This will update the scapdata feed










```
(student@kali)-[~]
└─$ sudo greenbone-scapdata-sync
[sudo] password for student:
Running as root. Switching to user '_gvm' and group '_gvm'.
Trying to acquire lock on /var/lib/gvm/feed-update.lock
Acquired lock on /var/lib/gvm/feed-update.lock
- Downloading SCAP data from rsync://feed.community.greenbone.net/community/vulnerability-feed/22.04/scap-data/ to /var/lib/gvm/scap-data
Releasing lock on /var/lib/gvm/feed-update.lock
```

In the terminal type : `sudo greenbone-certdata-sync`  
This will update the certdata feed

```
(student@kali)-[~]
└─$ sudo greenbone-certdata-sync
Running as root. Switching to user '_gvm' and group '_gvm'.
Trying to acquire lock on /var/lib/gvm/feed-update.lock
Acquired lock on /var/lib/gvm/feed-update.lock
- Downloading CERT-Bund data from rsync://feed.community.greenbone.net/community/vulnerability-feed/22.04/cert-data/ to /var/lib/gvm/cert-data
Releasing lock on /var/lib/gvm/feed-update.lock
```

Then, if the feed status is updated, you should see this in the administrations page:

● \ Feed Status

| Type     | Content                                                                                                                                                                                                                                                                                                                                                                                                    | Origin                      | Version       | Status                                                                           |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------|----------------------------------------------------------------------------------|
| NVT      |  NVTs                                                                                                                                                                                                                                                                                                                   | Greenbone Community Feed    | 20240806T0608 | Current                                                                          |
| SCAP     |  CVEs  CPEs                                                                                                                                                                                                                          | Greenbone SCAP Data Feed    | 20240806T0945 | Current                                                                          |
| CERT     |  CERT-Bund Advisories  DFN-CERT Advisories                                                                                                                                                                                           | Greenbone CERT Data Feed    | 20240806T0408 | Current                                                                          |
| GVM_DATA |  Compliance Policies  Port Lists  Report Formats  Scan Configs | Greenbone Data Objects Feed | 20240327T0505 | Too old (132 days)<br>Please check the automatic synchronization of your system. |

### 3. Add Credential

Navigate to the Configuration tab

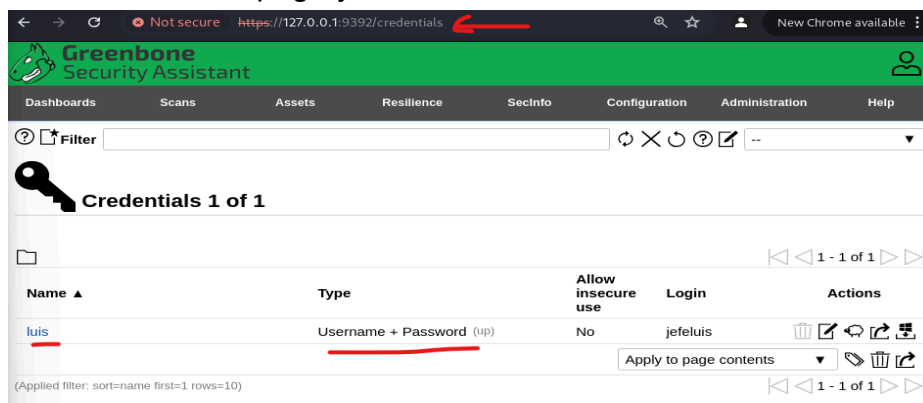
Select Credentials

Click the Add New Credential icon.

Insert the following info:

- Name: luis
- Username: jefeluis
- Password: jefeluis
- press save

In the credentials page you should see :



### 4. Add Hosts

Go to the Assets tab

Select Hosts

Add linux computer as host

Click the Add New Host icon

Insert the following info:

- Name: linux
- IP Address: 10.0.2.15
- Press save

**New Host**

IP Address

10.0.2.15

Comment

linux

Cancel

Save

## Add windows computer as host

Click the Add New Host icon.

Insert the following info:

- Name: windows
- IP Address: 10.0.2.55
- Press save

**New Host** ✕

**IP Address**

**Comment**

**Cancel** **Save**

In the hosts page you should see both hosts listed :

Greenbone Security Assistant

[Dashboards](#) [Scans](#) [Assets](#) [Resilience](#) [SecInfo](#) [Configuration](#) [Administration](#) [Help](#)

### Hosts 2 of 2

**Hosts by Severity Class (Total: 2)**

2 N/A

**Hosts Topology**

**Hosts by Modification Time (Total: 2)**

# of Modified Hosts: 2.0  
Total Hosts: 2.0  
Time: Thu 08

| Name                        | Hostname | IP Address       | OS | Severity ▼ | Modified                     | Actions                                                                 |
|-----------------------------|----------|------------------|----|------------|------------------------------|-------------------------------------------------------------------------|
| <u>10.0.2.15</u><br>linux   |          | <u>10.0.2.15</u> | ?  | N/A        | Thu, Aug 8, 2024 5:13 PM UTC | <a href="#">✕</a> <a href="#">🔍</a> <a href="#">📌</a> <a href="#">🔄</a> |
| <u>10.0.2.55</u><br>windows |          | <u>10.0.2.55</u> | ?  | N/A        | Thu, Aug 8, 2024 5:15 PM UTC | <a href="#">✕</a> <a href="#">🔍</a> <a href="#">📌</a> <a href="#">🔄</a> |

## 5. Add Targets

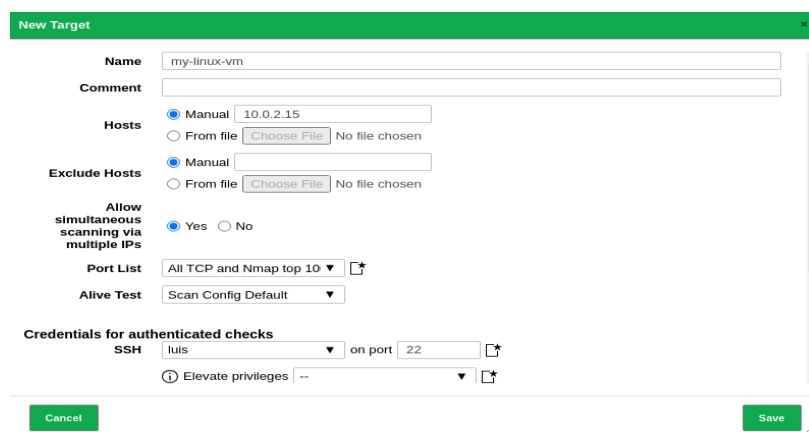
Navigate to the Configuration tab, Select Targets

Add linux computer as target

Click the Add New Target icon

Insert the following info:

- Name: my-linux-vm
- IP Address: 10.0.2.15
- Credentials for Authenticated Checks: SSH [luis]
- Port Lists: Nmap scan.
- Press save



The 'New Target' dialog box is shown with the following configuration:

- Name:** my-linux-vm
- Comment:** (empty)
- Hosts:** Manual 10.0.2.15
- Exclude Hosts:** Manual (empty)
- Allow simultaneous scanning via multiple IPs:** Yes
- Port List:** All TCP and Nmap top 10
- Alive Test:** Scan Config Default
- Credentials for authenticated checks:** SSH luis on port 22
- Elevate privileges:** --

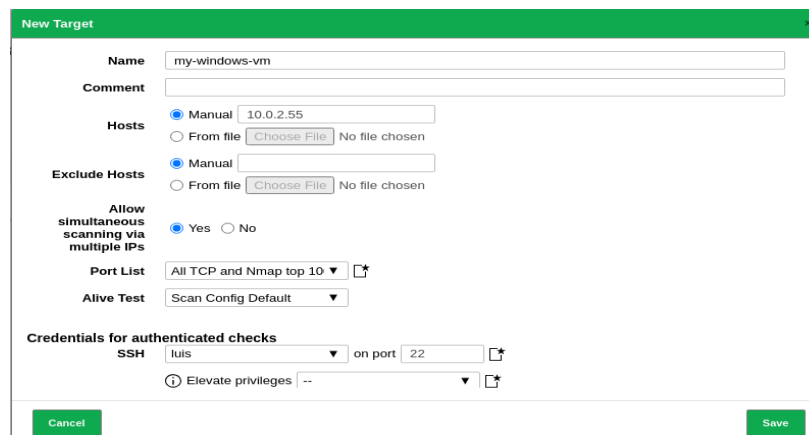
Buttons: Cancel, Save

Add windows computer as target.

Click the Add New Target icon.

Insert the following info:

- Name: my-windows-vm
- IP Address: 10.0.2.55
- Credentials for Authenticated Checks: Select SSH [luis]
- Port Lists: Nmap scan
- Press save

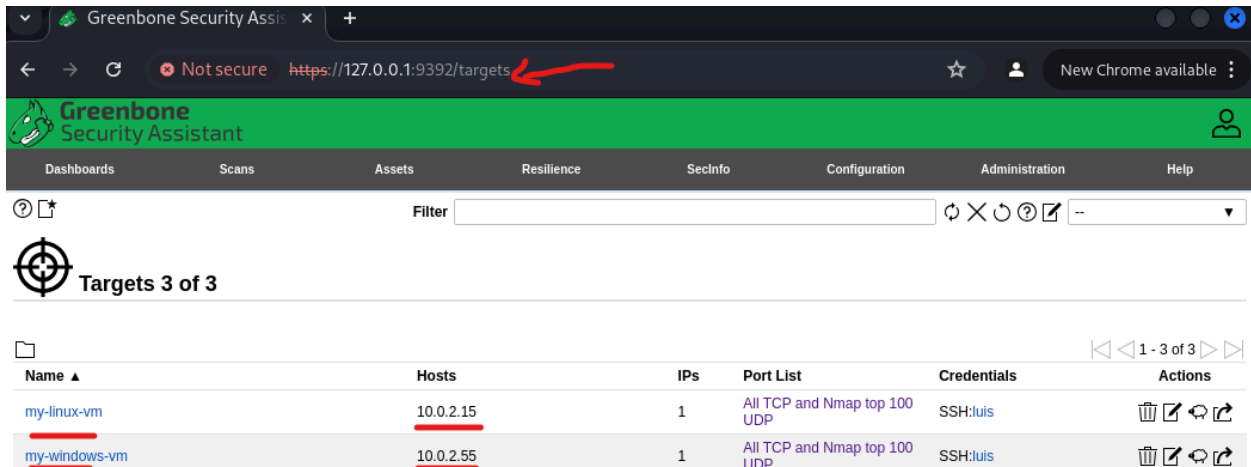


The 'New Target' dialog box is shown with the following configuration:

- Name:** my-windows-vm
- Comment:** (empty)
- Hosts:** Manual 10.0.2.55
- Exclude Hosts:** Manual (empty)
- Allow simultaneous scanning via multiple IPs:** Yes
- Port List:** All TCP and Nmap top 10
- Alive Test:** Scan Config Default
- Credentials for authenticated checks:** SSH luis on port 22
- Elevate privileges:** --

Buttons: Cancel, Save

In the targets page you should see both targets listed:



| Name          | Hosts     | IPs | Port List                    | Credentials | Actions |
|---------------|-----------|-----|------------------------------|-------------|---------|
| my-linux-vm   | 10.0.2.15 | 1   | All TCP and Nmap top 100 UDP | SSH:luis    | [Icons] |
| my-windows-vm | 10.0.2.55 | 1   | All TCP and Nmap top 100 UDP | SSH:luis    | [Icons] |

## 6. Create Scanning tasks

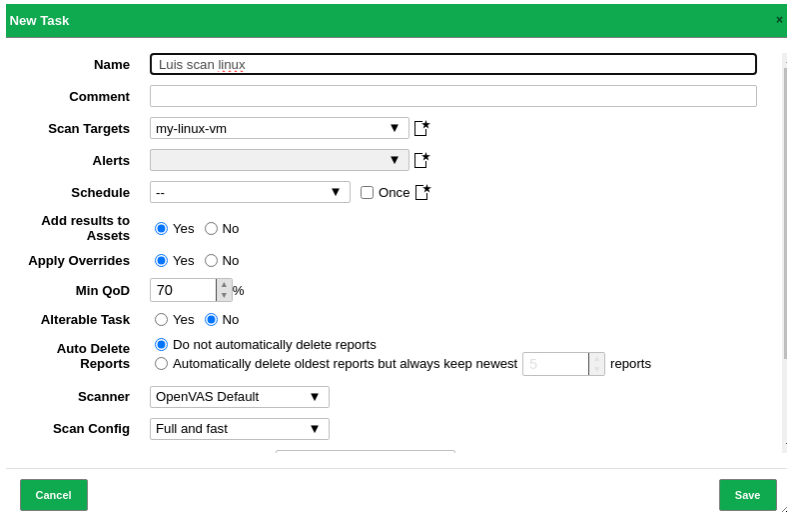
Go to the Scans tab

Create linux scan task

Select New Task

Insert the following info:

- Name: Luis scan linux
- Scan target: my-linux-vm
- Quality of Detection (QoD) : 70%
- Scan Config: Full and Fast



**New Task**

Name: Luis scan linux

Comment:

Scan Targets: my-linux-vm

Alerts:

Schedule: -- ☐ Once

Add results to Assets: ☒ Yes ☐ No

Apply Overrides: ☒ Yes ☐ No

Min QoD: 70 %

Alterable Task: ☐ Yes ☒ No

Auto Delete Reports: ☒ Do not automatically delete reports  
☐ Automatically delete oldest reports but always keep newest 5 reports

Scanner: OpenVAS Default

Scan Config: Full and fast

Buttons: Cancel, Save

Scan windows computer

Select New Task

Insert the following info:

- Name: Luis scan windows
- Scan target: target my-windows-vm
- Quality of Detection (QoD) : 70%
- Scan Config: Full and Fast

**New Task**

Name: Luis scan windows

Comment:

Scan Targets: my-windows-vm

Alerts:

Schedule: -- ☐ Once

Add results to Assets: ☒ Yes ☐ No

Apply Overrides: ☒ Yes ☐ No

Min QoD: 70 %

Alterable Task: ☐ Yes ☒ No

Auto Delete Reports: ☒ Do not automatically delete reports  
☐ Automatically delete oldest reports but always keep newest 5 reports

Scanner: OpenVAS Default

Scan Config: Full and fast

**Cancel** **Save**

In the tasks page you should see :

Greenbone Security Assistant

Dashboards Scans Assets Resilience SecInfo Configuration Administration Help

Filter

Tasks 3 of 3

Tasks by Severity Class (Total: 3)







Tasks with most High Results per Host

Tasks by Status (Total: 3)




| Name              | Status | Reports | Last Report | Severity | Trend | Actions |
|-------------------|--------|---------|-------------|----------|-------|---------|
| Luis scan linux   | New    |         |             |          |       |         |
| Luis scan windows | New    |         |             |          |       |         |

## 7. Execute scans

Turn on the linux machine  
Press scan icon in open vas

| Name ▲          | Status | Reports | Last Report | Severity | Trend |                                                                                     | Actions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------|--------|---------|-------------|----------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Luis scan linux | New    |         |             |          |       |  |       |

Scan will be requested

| Name ▲          | Status    | Reports | Last Report | Severity | Trend |  | Actions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------|-----------|---------|-------------|----------|-------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Luis scan linux | Requested | 1       |             |          |       |  |       |

Scan will start

| Name ▲          | Status                                | Reports | Last Report | Severity | Trend | Actions                                                                       |
|-----------------|---------------------------------------|---------|-------------|----------|-------|-------------------------------------------------------------------------------|
| Luis scan linux | <div><div></div><div>10 %</div></div> | 1       |             |          |       | <div><div></div><div></div><div></div><div></div><div></div><div></div></div> |

Scan complete

| Name ▲          | Status | Reports | Last Report                  | Severity  | Trend | Actions                                                                       |
|-----------------|--------|---------|------------------------------|-----------|-------|-------------------------------------------------------------------------------|
| Luis scan linux | Done   | 1       | Thu, Aug 8, 2024 7:32 PM UTC | 2.6 (Low) |       | <div><div></div><div></div><div></div><div></div><div></div><div></div></div> |