

EXPERIMENT -3



OpenVAS

Open Vulnerability Assessment Scanner

Introduction

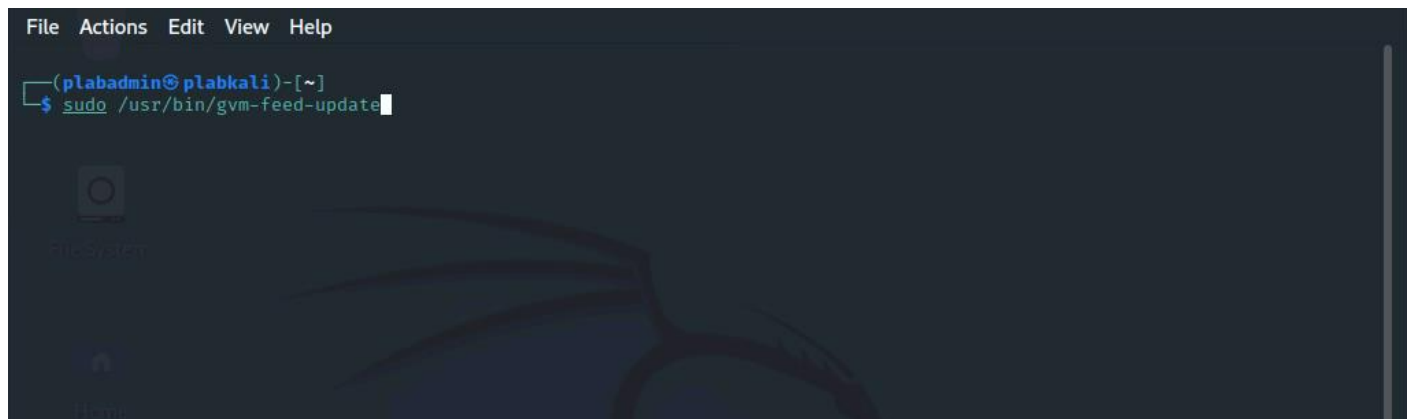
Open Vulnerability Assessment System (OpenVAS) is a tool in Kali Linux for vulnerability scanning of the system on a network. OpenVAS is a framework consisting of multiple services and tools and requires Python binaries

Perform Vulnerability Scanning using OpenVAS.

In the **Terminal** window, type the following and press Enter:

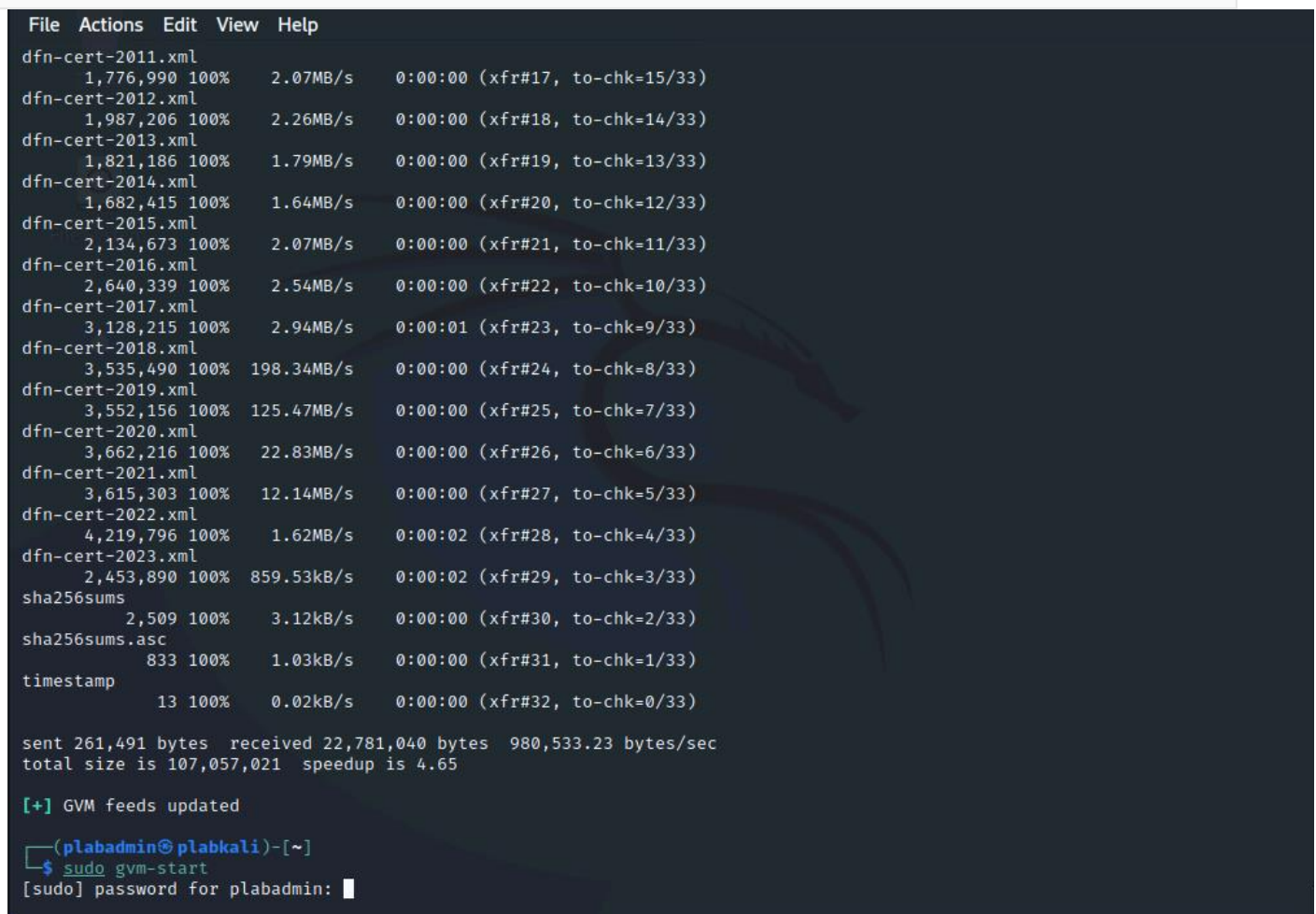
```
sudo /usr/bin/gvm-feed-update
```

Executing this command will update the Greenbone database.
This process will take up to 15 minutes to complete.



Type the following in the **Terminal** window and press Enter:

sudo gvm-**start**



```
File Actions Edit View Help
CPU: 7.350s
CGroup: /system.slice/gvmd.service
├─9827 "gvmd: Waiting for incoming connections"
├─9879 "gvmd: Syncing SCAP: Updating CPEs"
├─9883 "gvmd: Syncing CERT"
├─9891 sh -c "xml_split -s40Mb split.xml 66 head -n 2 split-00.xml > head.xml 66 echo '</cpe-list>' > tail.xml
86 for F in split-*.xml; do awk 'NR>3 {print last} {last=$0}' \>F > body.xml 66 cat head.xml body.xml tail.xml > \>F; done"
└─9892 /usr/bin/perl -w /usr/bin/xml_split -s40Mb split.xml

Aug 02 00:58:05 plabkali systemd[1]: Starting Greenbone Vulnerability Manager daemon (gvmd)...
Aug 02 00:58:05 plabkali systemd[1]: gvmd.service: Can't open PID file /run/gvmd/gvmd.pid (yet?) after start: Operation not permitted
Aug 02 00:58:11 plabkali systemd[1]: Started Greenbone Vulnerability Manager daemon (gvmd).

● ospd-openvas.service - OSPd Wrapper for the OpenVAS Scanner (ospd-openvas)
   Loaded: loaded (/lib/systemd/system/ospd-openvas.service; disabled; vendor preset: disabled)
   Active: active (running) since Wed 2023-08-02 00:58:03 EDT; 13s ago
     Docs: man:ospd-openvas(8)
           man:openvas(8)
   Process: 9783 ExecStart=/usr/bin/ospd-openvas --config /etc/gvm/ospd-openvas.conf --log-config /etc/gvm/ospd-logging.conf (code=exited, status=0/SUCCESS)
   Main PID: 9800 (ospd-openvas)
    Tasks: 6 (limit: 4629)
   Memory: 129.0M
      CPU: 2.799s
   CGroup: /system.slice/ospd-openvas.service
           └─9800 /usr/bin/python3 /usr/bin/ospd-openvas --config /etc/gvm/ospd-openvas.conf --log-config /etc/gvm/ospd-logging.conf
           └─9802 /usr/bin/python3 /usr/bin/ospd-openvas --config /etc/gvm/ospd-openvas.conf --log-config /etc/gvm/ospd-logging.conf
           └─9893 openvas --update-vt-info
           └─9894 "openvas: Reloaded 2050 of 114323 NVTs (1% / ETA: 02:44)"

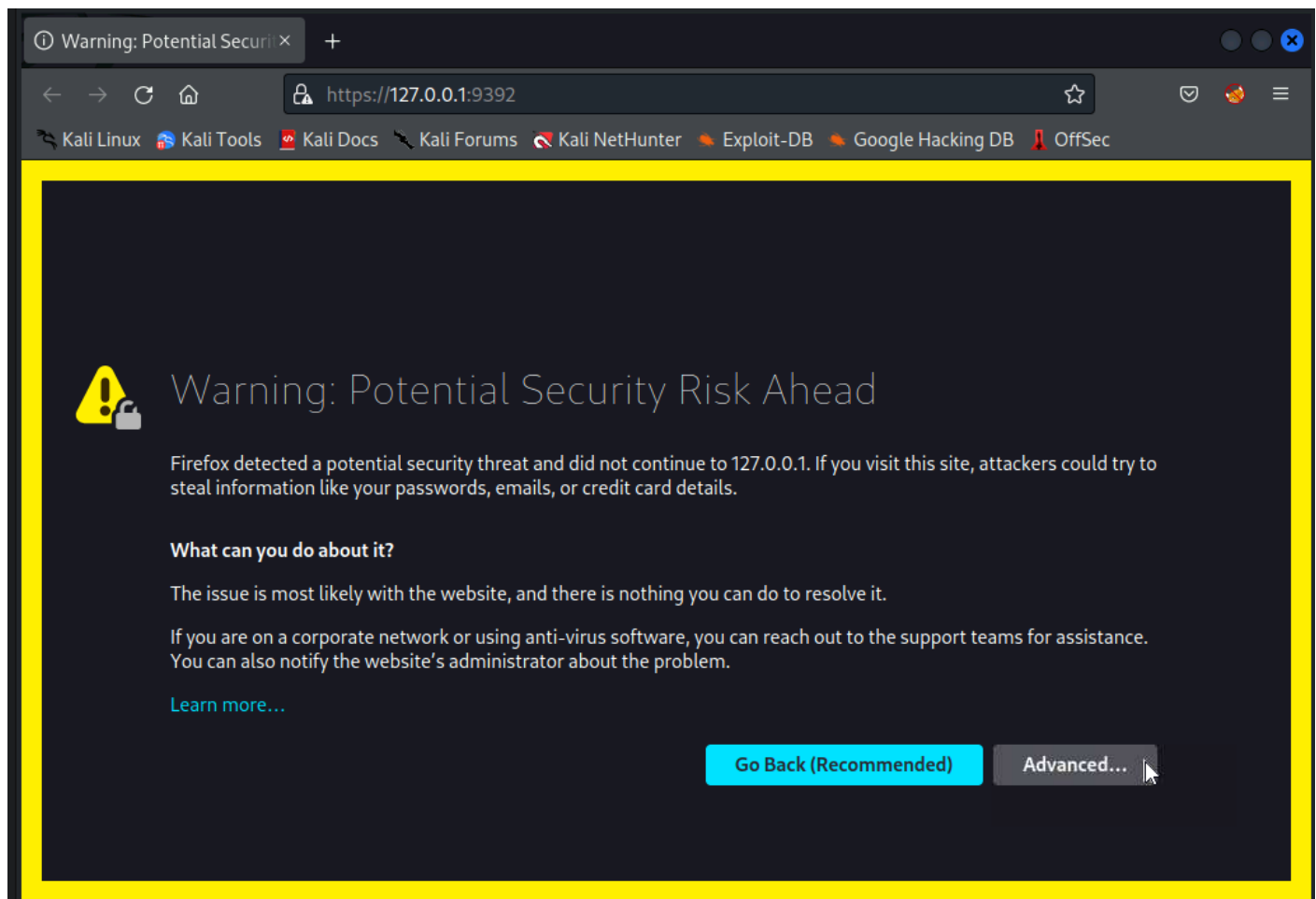
Aug 02 00:58:02 plabkali systemd[1]: Starting OSPd Wrapper for the OpenVAS Scanner (ospd-openvas)...
Aug 02 00:58:03 plabkali systemd[1]: Started OSPd Wrapper for the OpenVAS Scanner (ospd-openvas).

[>] Opening Web UI (https://127.0.0.1:9392) in: 5... 4... 3... 2... 1...

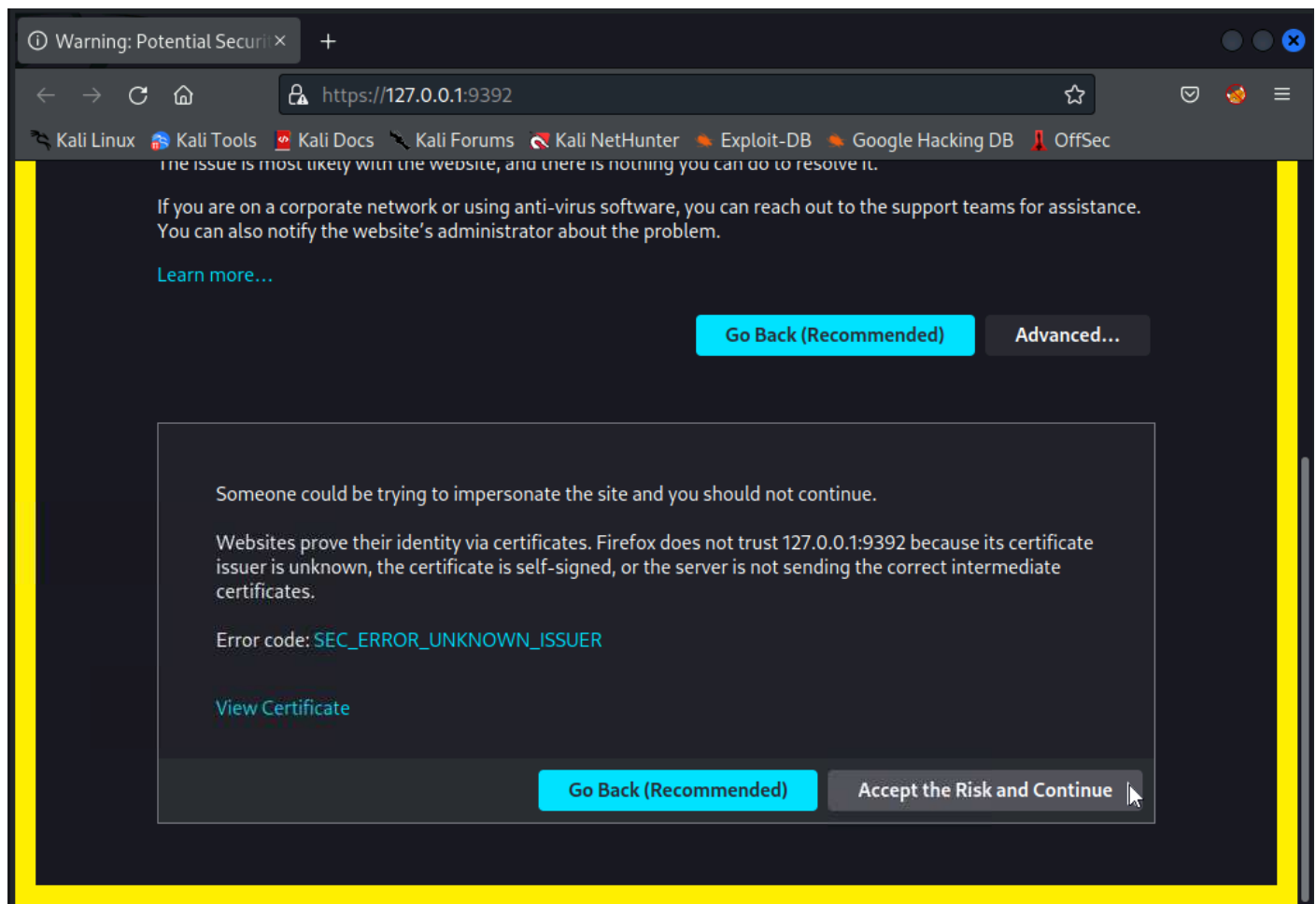
(plabadmin@plabkali)-[~]
$
```

The Firefox browser will open automatically.

Click Advanced.

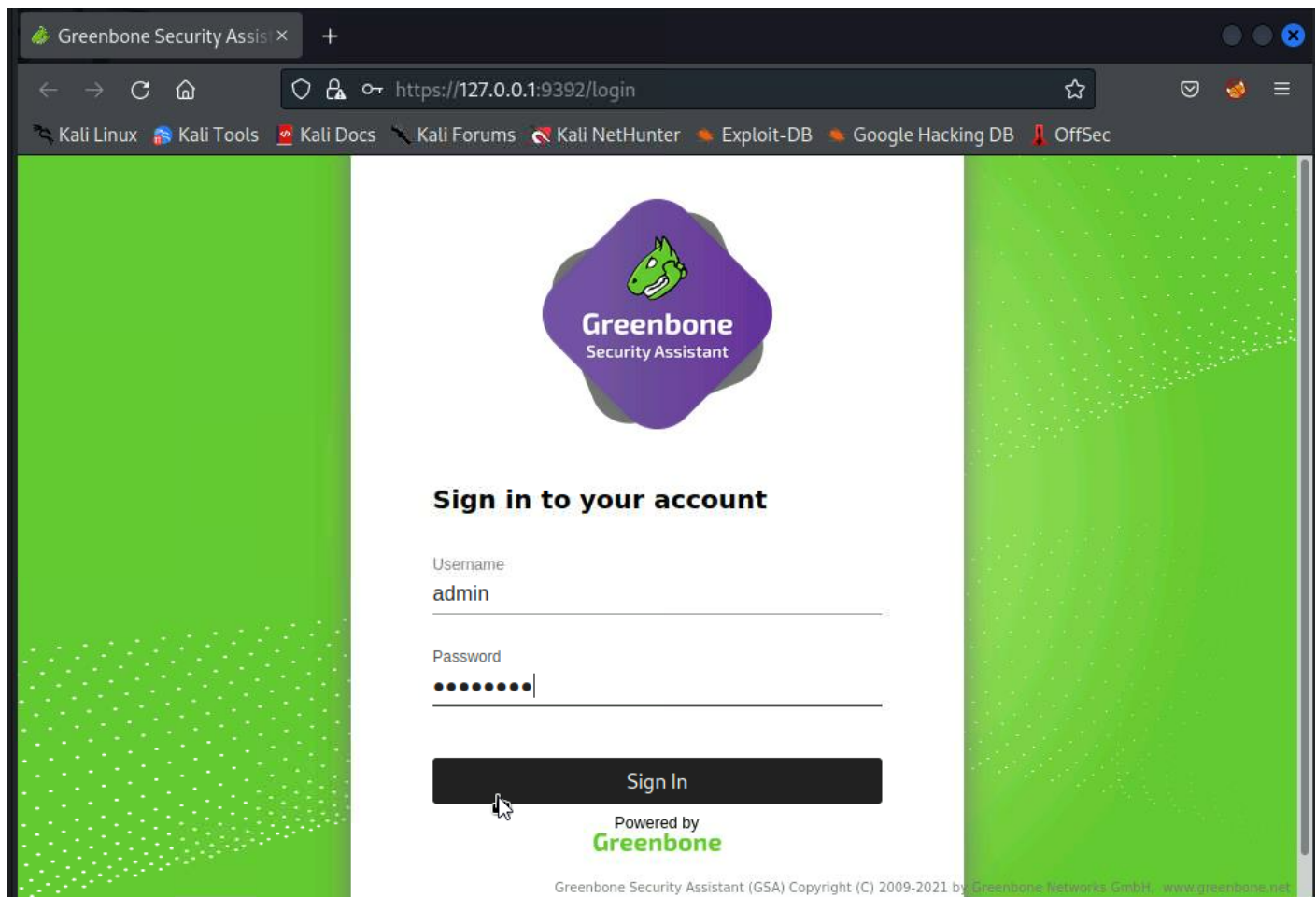


Scroll down and click **Accept the Risk and Continue**.



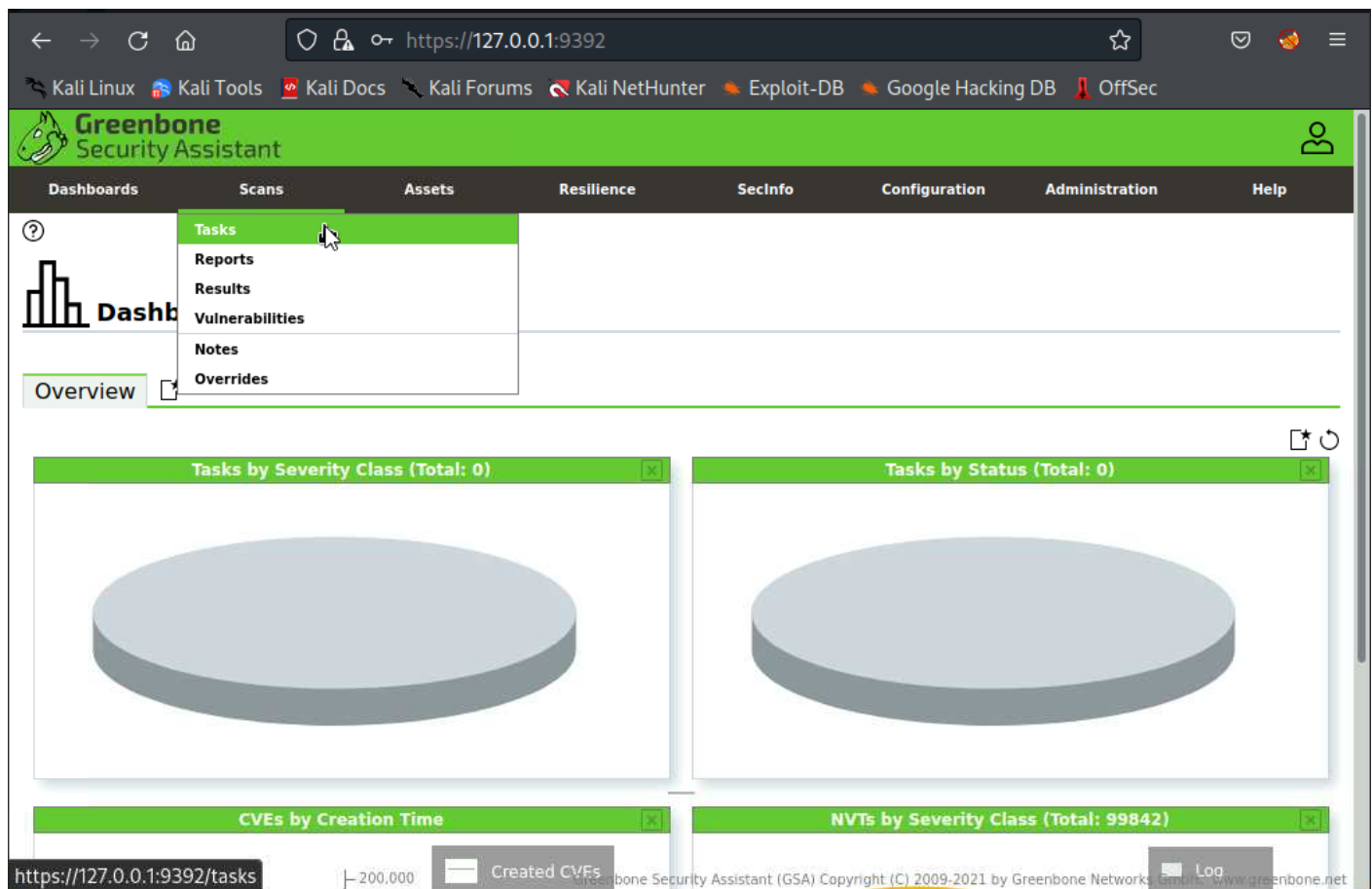
The **Greenbone Security Assistant** login page is displayed.

Type the credentials in the Username and Password text box and click Login.

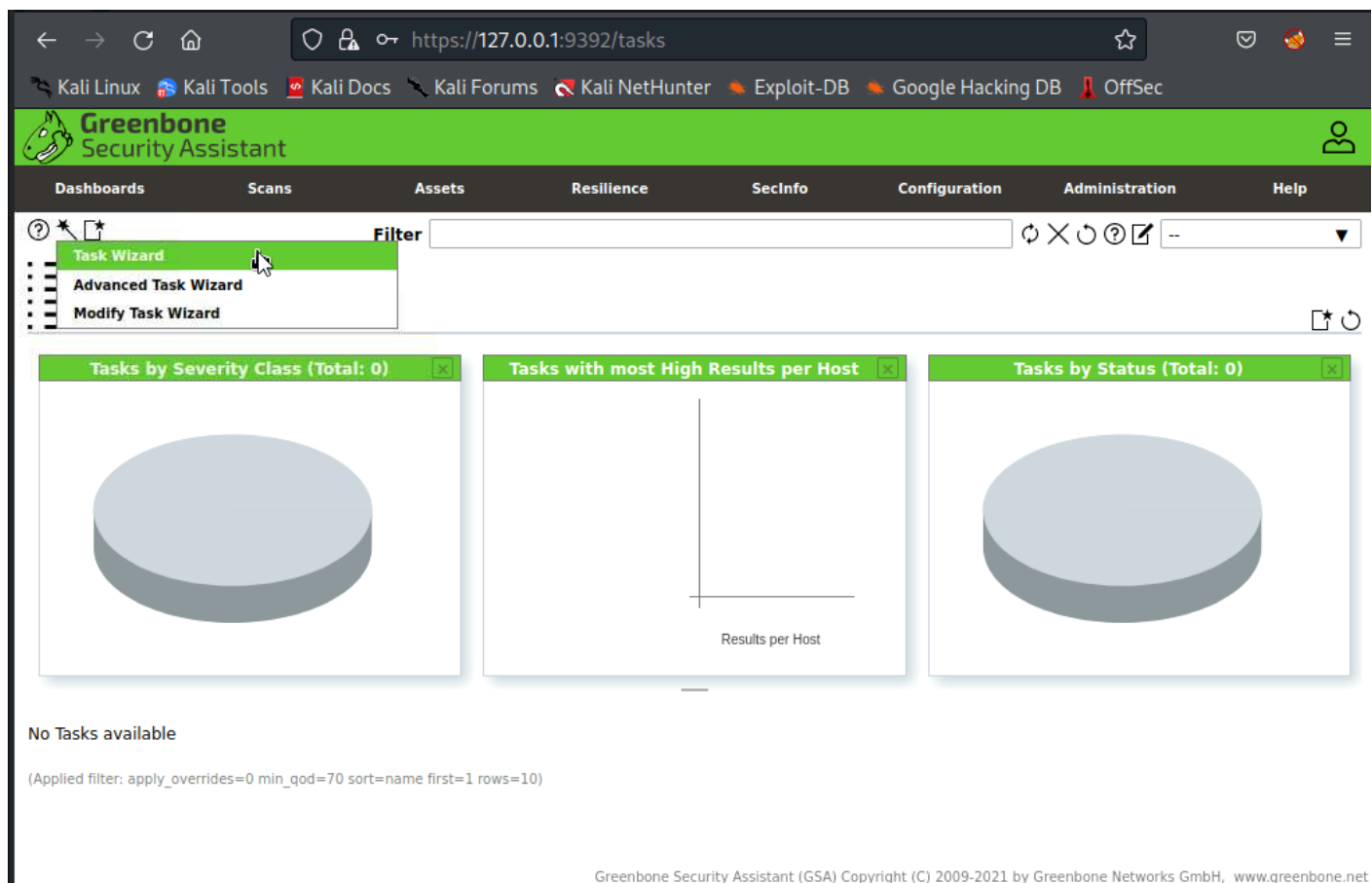


The dashboard for OpenVAS is displayed.

Click **Scans** and select **Tasks**.



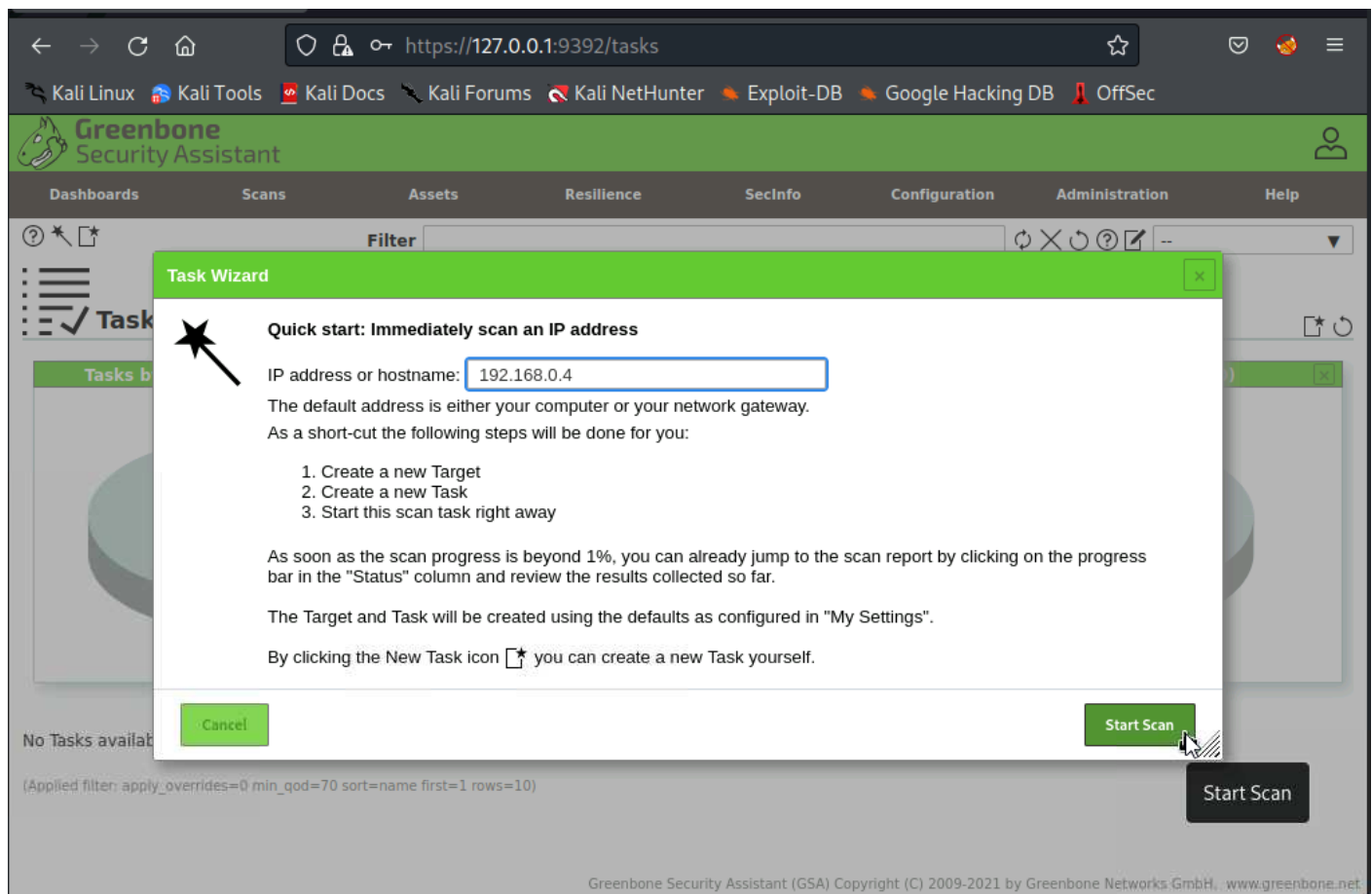
The **Tasks** page is displayed. Click **Task Wizard** on the upper left side — just below the menu.



In the **Task Wizard** pop-up window, enter the following in the **IP address or hostname** field:

192.168.0.4

Click **Start Scan**



Wait for the scan to complete. This may take up to 10 minutes.

Greenbone Security Assistant

Dashboards Scans Assets Resilience SecInfo Configuration Administration Help

Filter [Icons]

Tasks 1 of 1

Tasks by Severity Class (Total: 1)

Tasks with most High Results per Host

Tasks by Status (Total: 1)

Name ▲	Status	Reports	Last Report	Severity	Trend	Actions
Immediate scan of IP 192.168.0.4	52 %	1				[Icons]

(Applied filter: apply_overrides=0 min_qod=70 sort=name first=1 rows=10) Greenbone Security Assistant (GSA) Copyright (C) 2009-2021 by Greenbone Networks GmbH

Browser address bar: <https://127.0.0.1:9392/tasks>

Navigation bar: Kali Linux, Kali Tools, Kali Docs, Kali Forums, Kali NetHunter, Exploit-DB, Google Hacking DB, OffSec

Greenbone Security Assistant

Menu: Dashboards, Scans, Assets, Resilience, SecInfo, Configuration, Administration, Help

Filter: [Icons]

Tasks 1 of 1

Tasks by Severity Class (Total: 1)

High

Tasks with most High Results per Host

...te scan of IP 192.168.0.4

Results per Host

Tasks by Status (Total: 1)

Done

1 - 1 of 1

Name ▲	Status	Reports	Last Report	Severity	Trend	Actions
Immediate scan of IP 192.168.0.4	Done	1	Wed, Aug 2, 2023 5:02 AM UTC	10.0 (High)		[Icons]

Apply to page contents [Icons]

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On **Task 1 of 1**, click **1** in the **Reports** field.

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Filter

Tasks 1 of 1

Tasks by Severity Class (Total: 1)

Tasks with most High Results per Host

Tasks by Status (Total: 1)

View list of all reports for Task Immediate scan of IP 192.168.0.4, including unfinished ones

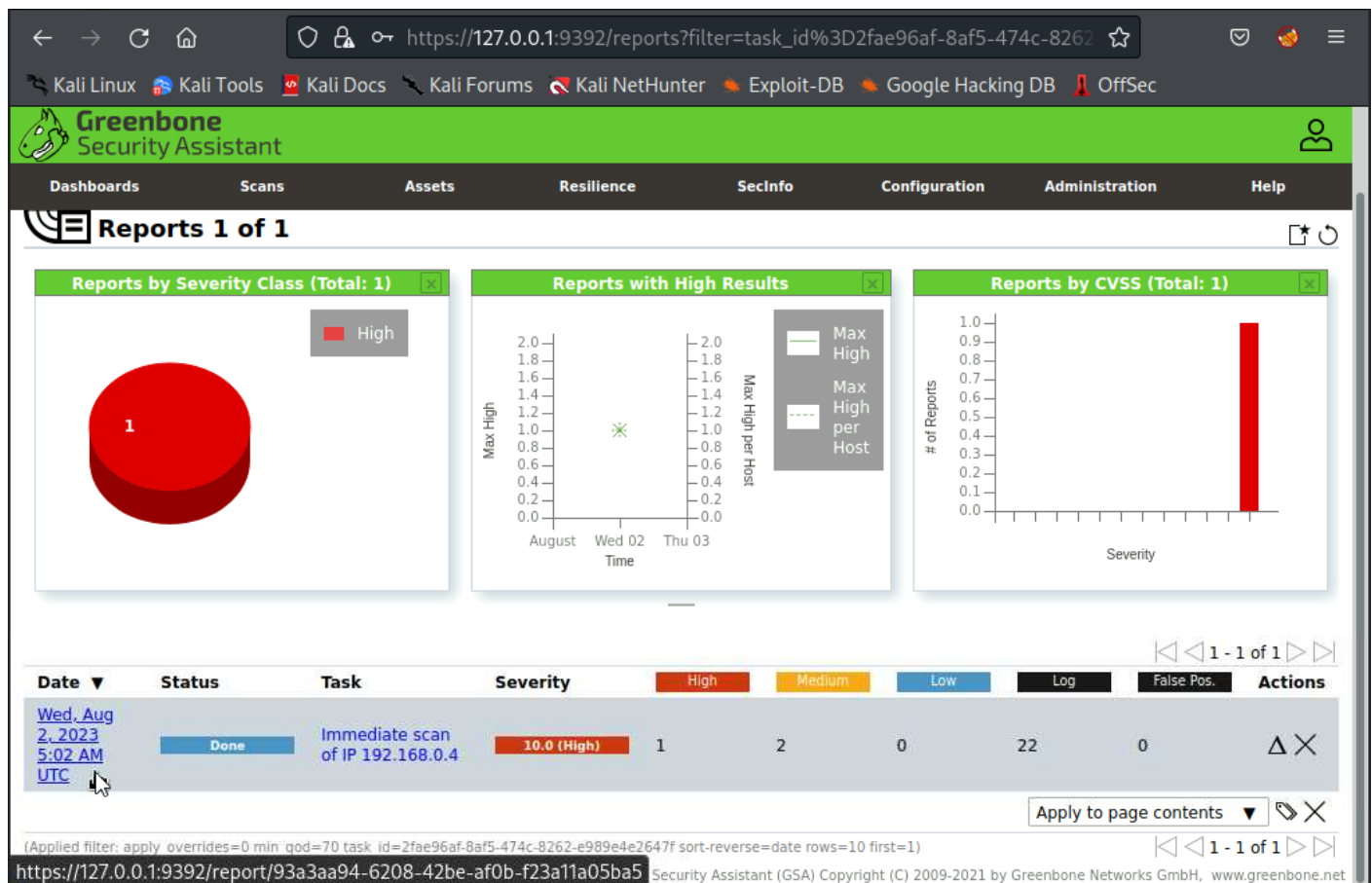
Name ▲	Status	Reports	Last Report	Severity	Trend	Actions
Immediate scan of IP 192.168.0.4	Done	1	Wed, Aug 2, 2023 5:02 AM UTC	10.0 (High)		

https://127.0.0.1:9392/reports?filter=task_id=2fae96af-8af5-474c-8262-e989e4e2647f sort-reverse=date



Apply to page contents

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











Click the entry in the **Date** field.









Select the **Results** field on the **Immediate scan of IP 192.168.0.4** task results window.


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Dashboards Scans Assets Resilience SecInfo Configuration Administration Help














 Filter






 --


RepoWed, Aug 2, 2023
rt: 5:02 AM UTC
Done
ID: 93a3aa94-6208-42be-af0b-f23a11a05ba5
Wed, Aug 2, 2023 5:03 AM UTC
Created: 2023 5:03 AM UTC
Wed, Aug 2, 2023 5:13 AM UTC
Modified: 2023 5:13 AM UTC
Owner: admin

Information	Results (3 of 27)	Hosts (1 of 1)	Ports (2 of 5)	Applications (0 of 0)	Operating Systems (1 of 1)	CVEs (1 of 1)	Closed CVEs (7 of 7)	TLS Certificates (1 of 1)	Error Messages (0 of 0)	User Tags (0)
-------------	----------------------	-------------------	-------------------	--------------------------	-------------------------------	------------------	-------------------------	------------------------------	----------------------------	------------------

Task Name [Immediate scan of IP 192.168.0.4](#)
 Scan Time Wed, Aug 2, 2023 5:03 AM UTC - Wed, Aug 2, 2023 5:13 AM UTC
 Scan Duration 0:10 h
 Scan Status Done
 Hosts scanned 1
 Filter apply_overrides=0 levels=hml min_qod=70
 Timezone Coordinated Universal Time (UTC)

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Select **Ports** on the **Immediate scan of IP 192.168.0.4** task results window.

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Dashboards
Scans
Assets
Resilience
SecInfo
Configuration
Administration
Help

RepoWed, Aug 2, 2023
rt: 5:02 AM UTC
Done
ID: 93a3aa94-6208-42be-af0b-f23a11a05ba5
Wed, Aug 2, Created: 2023 5:03 AM UTC
Wed, Aug 2, Modified: 2023 5:13 AM UTC
Owner: admin

Information
Results (3 of 27)
Hosts (1 of 1)
Ports (2 of 5)
Applications (0 of 0)
Operating Systems (1 of 1)
CVEs (1 of 1)
Closed CVEs (7 of 7)
TLS Certificates (1 of 1)
Error Messages (0 of 0)
User Tags (0)

1 - 3 of 3

Vulnerability		Severity ▼	QoD	Host		Location	Created
				IP	Name		
Report outdated / end-of-life Scan Engine / Environment (local)		10.0 (High)	97 %	192.168.0.4	plabwin10.practicelabs.com	general/tcp	Wed, Aug 2, 2023 5:04 AM UTC
DCE/RPC and MSRPC Services Enumeration Reporting		5.0 (Medium)	80 %	192.168.0.4	plabwin10.practicelabs.com	135/tcp	Wed, Aug 2, 2023 5:07 AM UTC
SSL/TLS: Deprecated TLSv1.0 and TLSv1.1 Protocol Detection		4.3 (Medium)	98 %	192.168.0.4	plabwin10.practicelabs.com	3389/tcp	Wed, Aug 2, 2023 5:06 AM UTC

(Applied filter: apply_overrides=0 levels=hml rows=100 min_qod=70 first=1 sort-reverse=severity)
1 - 3 of 3

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In the **Ports** field, the open ports of the scanned host are displayed.

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Repo
Wed, Aug 2, 2023
rt: 5:02 AM UTC
Done
ID: 93a3aa94-6208-42be-af0b-f23a11a05ba5
Created: 2023 5:03 AM UTC
Modified: 2023 5:13 AM UTC
Owner: admin


Information
Results (3 of 27)
Hosts (1 of 1)
Ports (2 of 5)
Applications (0 of 0)
Operating Systems (1 of 1)
CVEs (1 of 1)
Closed CVEs (7 of 7)
TLS Certificates (1 of 1)
Error Messages (0 of 0)
User Tags (0)

Port	Hosts	Severity ▼
135/tcp	1	5.0 (Medium)
3389/tcp	1	4.3 (Medium)


(Applied filter: apply_overrides=0 levels=hml rows=100 min_qod=70 first=1 sort-reverse=severity)

Select **Operating Systems** on the **Task** window.

The scanned host's operating system is identified as Microsoft Windows. Several other fields of information gathered from the scanned host can be explored.



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DashboardsScansAssetsResilienceSecInfoConfigurationAdministrationHelp

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Filter

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RepoWed, Aug 2, 2023
rt: 5:02 AM UTC

Done

ID: 93a3aa94-6208-42be-af0b-f23a11a05ba5


Wed, Aug 2, 2023 5:03 AM UTC
Created: 2023 5:03 AM UTC

Wed, Aug 2, 2023 5:13 AM UTC
Modified: 2023 5:13 AM UTC

Owner: admin

InformationResults (3 of 27)Hosts (1 of 1)Ports (2 of 5)Applications (0 of 0)Operating Systems (1 of 1)CVEs (1 of 1)Closed CVEs (7 of 7)TLS Certificates (1 of 1)Error Messages (0 of 0)User Tags (0)

Operating SystemCPEHostsSeverity ▼

 Microsoft Windows

cpe:/o:microsoft:windows

1

10.0 (High)

(Applied filter: apply_overrides=0 levels=hml rows=100 min_qod=70 first=1 sort-reverse=severity)

◀◀1 - 1 of 1▶▶

◀◀1 - 1 of 1▶▶

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