# Class 11 - 07/09/2023

Ports are divided into 3 types:

- 1. Well known Ports 0-1023
- 2. Registered Ports 1024-49151
- 3. Dynamic Ports 49152-65565

We will be learning nikto to scan web serves. Known as web servers scanners.

Speed of nikto is higher than nmap.

Accuracy of nikto is not that much.

Nmap is used for networks and web apps.

Nikto can also scan outdated technologies in the web and version specific problems and is used for security testing in web servers and web applications.

Find bugs and earn money:

- → Bugcrowd
- → Hackerone

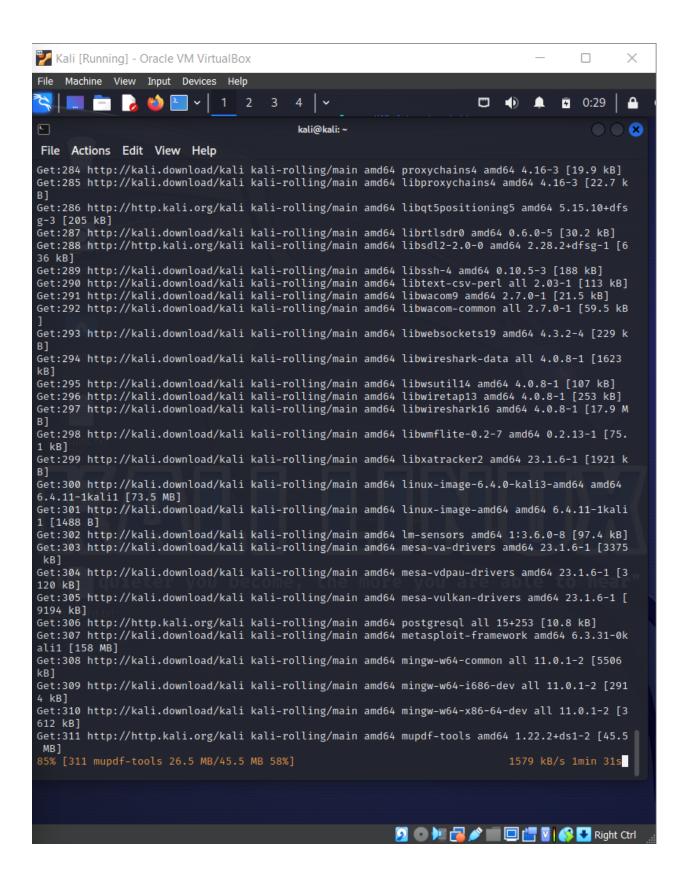
OpenVAS tool in kali: <a href="https://www.youtube.com/watch?v=jgVt4QgvtRc">https://www.youtube.com/watch?v=jgVt4QgvtRc</a>

command → sudo apt install openvas

# Task - Download OpenVAS tool on Kali linux

1. Using the command: sudo apt dist-upgrade -y

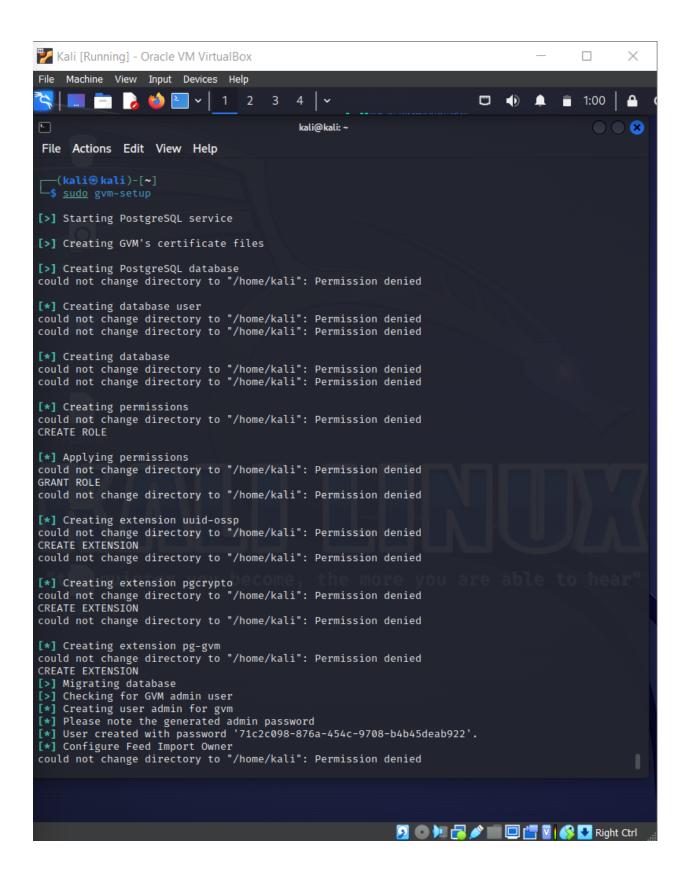
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## 2. sudo apt install openvas

```
🌠 Kali [Running] - Oracle VM VirtualBox
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    Machine View Input Devices Help
                                                                                            · 0:37
E
                                              kali@kali: ~
File Actions Edit View Help
  —(kali⊕kali)-[~]
$ sudo apt install openvas
[sudo] password for kali:
Reading package lists... Done
Building dependency tree ... Done
Reading state information... Done
Note, selecting 'gvm' instead of 'openvas'
The following additional packages will be installed:
  greenbone-security-assistant gsad gvm-tools libmicrohttpd12
The following NEW packages will be installed:
  greenbone-security-assistant gsad gvm gvm-tools libmicrohttpd12
0 upgraded, 5 newly installed, 0 to remove and 380 not upgraded.
Need to get 5098 kB of archives.
After this operation, 20.7 MB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://kali.download/kali kali-rolling/non-free amd64 greenbone-security-assistant all 2
2.6.0-0kali1 [4688 kB]
Get:2 http://kali.download/kali kali-rolling/main amd64 libmicrohttpd12 amd64 0.9.77-3 [121 kB
Get:3 http://kali.download/kali kali-rolling/main amd64 gsad amd64 22.5.1-0kali1 [130 kB]
Get:4 http://http.kali.org/kali kali-rolling/main amd64 gvm all 22.5.0~kali5 [11.8 kB]
Get:5 http://kali.download/kali kali-rolling/main amd64 gvm-tools all 23.4.0-0kali2 [147 kB]
Fetched 5098 kB in 3s (1812 kB/s)
Selecting previously unselected package greenbone-security-assistant.
(Reading database ... 398472 files and directories currently installed.)
Preparing to unpack .../greenbone-security-assistant_22.6.0-0kali1_all.deb ...
Unpacking greenbone-security-assistant (22.6.0-0kali1) ...
Selecting previously unselected package libmicrohttpd12:amd64.
Preparing to unpack .../libmicrohttpd12_0.9.77-3_amd64.deb ...
Unpacking libmicrohttpd12:amd64 (0.9.77-3) ...
Selecting previously unselected package gsad.
Preparing to unpack .../gsad_22.5.1-0kali1_amd64.deb ...
Unpacking gsad (22.5.1-0kali1) ...
Selecting previously unselected package gvm.
Preparing to unpack .../gvm_22.5.0~kali5_all.deb ...
Unpacking gvm (22.5.0~kali5) ...
Selecting previously unselected package gvm-tools.
Preparing to unpack .../gvm-tools_23.4.0-0kali2_all.deb ... Unpacking gvm-tools (23.4.0-0kali2) ...
Setting up greenbone-security-assistant (22.6.0-0kali1) ...
Setting up libmicrohttpd12:amd64 (0.9.77-3) ...
Setting up gvm-tools (23.4.0-0kali2) ...
Setting up gsad (22.5.1-0kali1) ...
gsad.service is a disabled or a static unit, not starting it.
Setting up gvm (22.5.0~kali5) ...
Processing triggers for kali-menu (2023.4.3) ...
Processing triggers for libc-bin (2.37-6) ...
Processing triggers for man-db (2.11.2-3) ...
                                                               😰 💿 🌬 🗗 🥟 🔚 🔲 💾 👿 🔗 🛂 Right Ctrl
```

3. sudo gvm-setup



## 4. Verifying the installation: gvm-check-setup

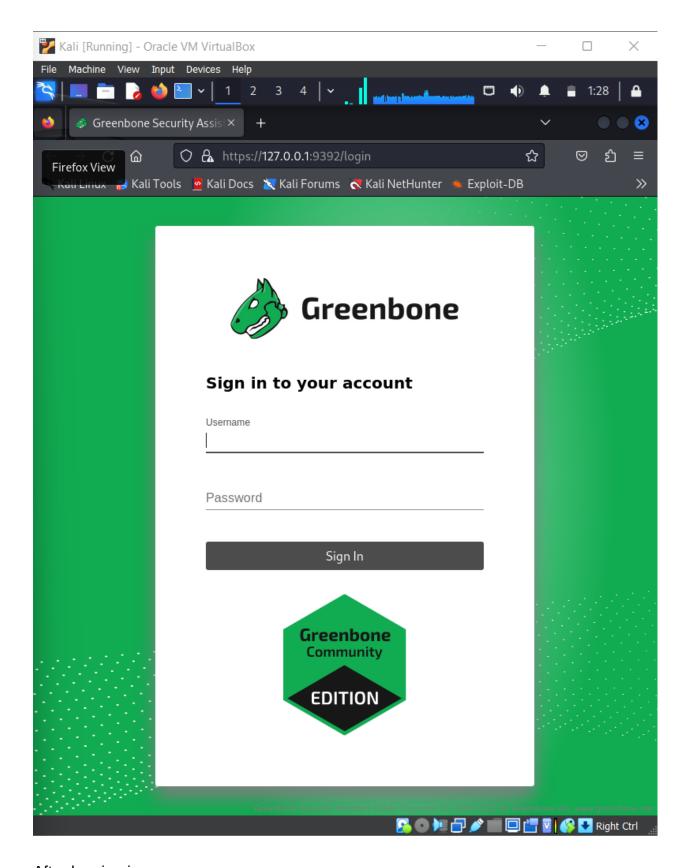
```
Kali [Running] - Oracle VM VirtualBox
                                                                                         \times
    Machine View
                  Input Devices
F
                                           kali@kali: ~
File Actions Edit View Help
$ sudo gvm-check-setup
[sudo] password for kali:
gvm-check-setup 22.5.0
 Test completeness and readiness of GVM-22.5.0
Step 1: Checking OpenVAS (Scanner)...
        OK: OpenVAS Scanner is present in version 22.7.3.
        OK: Notus Scanner is present in version 22.5.0.
        OK: Server CA Certificate is present as /var/lib/gvm/CA/servercert.pem.
Checking permissions of /var/lib/openvas/gnupg/*
        OK: _gvm owns all files in /var/lib/openvas/gnupg
        OK: redis-server is present.
        OK: scanner (db_address setting) is configured properly using the redis-server socket:
 /var/run/redis-openvas/redis-server.sock
        OK: the mqtt_server_uri is defined in /etc/openvas/openvas.conf
        OK: _gvm owns all files in /var/lib/openvas/plugins
        OK: NVT collection in /var/lib/openvas/plugins contains 86457 NVTs.
        OK: The notus directory /var/lib/notus/products contains 444 NVTs.
Checking that the obsolete redis database has been removed
Could not connect to Redis at /var/run/redis-openvas/redis-server.sock: No such file or direct
ory
        OK: No old Redis DB
        Starting ospd-openvas service
        Waiting for ospd-openvas service
        OK: ospd-openvas service is active.
        OK: ospd-OpenVAS is present in version 22.5.4.
Step 2: Checking GVMD Manager ...
OK: GVM Manager (gvmd) is present in version 22.8.0.
Step 3: Checking Certificates ...
        OK: GVM client certificate is valid and present as /var/lib/gvm/CA/clientcert.pem.
        OK: Your GVM certificate infrastructure passed validation.
Step 4: Checking data ...
OK: SCAP data found in /var/lib/gvm/scap-data.
        OK: CERT data found in /var/lib/gvm/cert-data.
Step 5: Checking Postgresql DB and user ...
        OK: Postgresql version and default port are OK.
gvmd | _gvm | UTF8
17257|pg-gvm|10|2200|f|22.5||
                                  | en_IN | en_IN |
                                                                   | libc
        OK: At least one user exists.
Step 6: Checking Greenbone Security Assistant (GSA) ...
        OK: Greenbone Security Assistant is present in version 22.05.1~git.
Step 7: Checking if GVM services are up and running ...
        Starting gvmd service
        Waiting for gvmd service
        OK: gvmd service is active.
        Starting gsad service
        Waiting for gsad service
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```

## 5. Starting OpenVas: sudo gvm-start

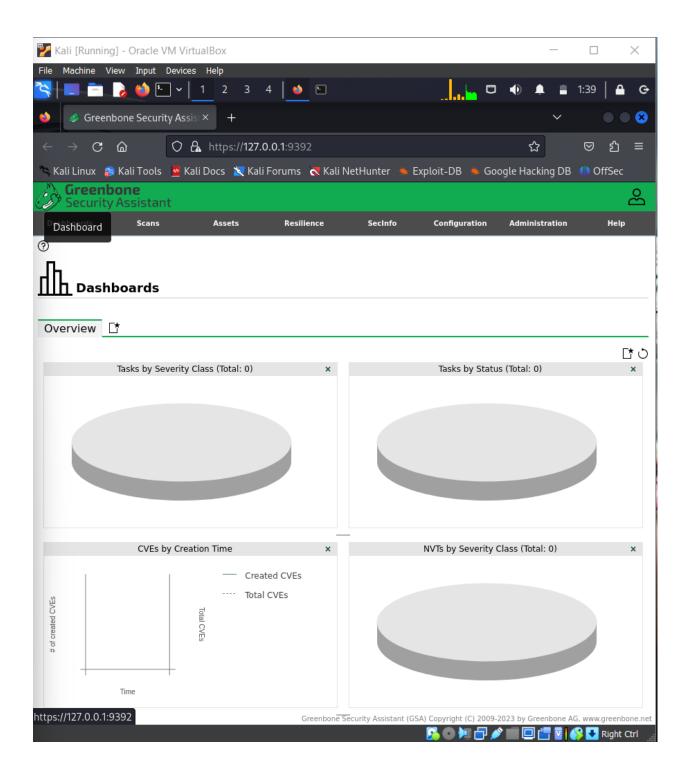
```
🌠 Kali [Running] - Oracle VM VirtualBox
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File Machine View Input Devices Help
                                                          1 2 3 4 🐞 🕒
                                                                                                                                                                       1:41
                                                                                                                                                                                                                               G
                                                                                                                                                                               kali@kali: ~
 Minimize all open windows and show the desktop
 _$ <u>sudo</u> gvm-start
[sudo] password for kali:
 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
🍑 gsad.service - Greenbone Security Assistant daemon (gsad)
           Loaded: loaded (/lib/systemd/system/gsad.service; disabled; preset: disabled)
           Active: active (running) since Fri 2023-09-08 01:38:44 IST; 30ms ago
              Docs: man:gsad(8)
                          https://www.greenbone.net
       Main PID: 2183 (gsad)
           Tasks: 1 (limit: 6861)
           Memory: 1.7M
                CPU: 17ms
          CGroup: /system.slice/gsad.service
L2183 /usr/sbin/gsad --foreground --listen 127.0.0.1 --port 9392
Sep 08 01:38:44 kali systemd[1]: Starting gsad.service - Greenbone Security Assistant daemon (
gsad) ...
Sep 08 01:38:44 kali systemd[1]: Started gsad.service - Greenbone Security Assistant daemon (g
sad).

    gvmd.service - Greenbone Vulnerability Manager daemon (gvmd)

          Loaded: loaded (/lib/systemd/system/gvmd.service; disabled; preset: disabled)
           Active: active (running) since Fri 2023-09-08 01:38:39 IST; 5s ago
              Docs: man:gvmd(8)
        Process: 2099 ExecStart=/usr/sbin/gvmd --osp-vt-update=/run/ospd/ospd.sock --listen-group=
 _gvm (code=exited, status=0/SUCCESS)
       Main PID: 2101 (gvmd)
            Tasks: 4 (limit: 6861)
          Memory: 1.0G
                CPÚ: 4.970s
          CGroup: /system.slice/gvmd.service
-2101 "gymd: gymd: War --osp-vt-update=/run/ospd/ospd.sock --listen-group=_gym -2132 "gymd: gymd: Sy" --osp-vt-update=/run/ospd/ospd.sock --listen-group=_gym -2163 sh -c "xml_split -s40Mb split.xml & head -n 2 split-00.xml > head.xml & echo '</re>
echo '</re>
echo '</re>
list-yold -- ist 
Sep 08 01:38:38 kali systemd[1]: Starting gvmd.service - Greenbone Vulnerability Manager daemo
n (gvmd)...
Sep 08 01:38:38 kali systemd[1]: gvmd.service: Can't open PID file /run/gvmd/gvmd.pid (yet?) a
fter start: No such file or directory
Sep 08 01:38:39 kali systemd[1]: Started gymd.service - Greenbone Vulnerability Manager daemon
  (gvmd).
```



After logging in:



6. To stop the OpenVas: sudo gvm-stop

