**Installing openvas on ubuntu 18.04**

**Step 0:** Open up three terminals / terminal tabs this will make it easier to follow instructions.

**Step 1**: on one of the terminals enter the following command it will make you root

|  |
| --- |
| sudo su |

**Step 2:** On one of the **non root**  terminals update the programs currently on ubuntu with

|  |
| --- |
| sudo apt update  sudo apt upgrade |

**Step 3:** Now we can set up a user and change some permissions

|  |
| --- |
| echo 'export PATH="$PATH:/opt/gvm/bin:/opt/gvm/sbin:/opt/gvm/.local/bin"' | sudo tee -a /etc/profile.d/gvm.sh ;\ sudo chmod 0755 /etc/profile.d/gvm.sh ;\ source /etc/profile.d/gvm.sh ;\ sudo bash -c 'cat << EOF > /etc/ld.so.conf.d/gvm.conf # gmv libs location /opt/gvm/lib |

|  |
| --- |
| sudo mkdir /opt/gvm ;\ sudo adduser gvm --disabled-password --home /opt/gvm/ --no-create-home --gecos '' ;\ sudo usermod -aG redis gvm  sudo chown gvm:gvm /opt/gvm/ ;\ sudo su - gvm |

Now you will have three terminals. One that is the gvm user one that is a sudo user and one that is root. You will need all three but make sure you are entering the commands as the correct user.

**Step 4:** we need to make the folder where we will be installing it and at it to the path as **gvm** user run

|  |
| --- |
| mkdir src ;\ cd src ;\ export PKG\_CONFIG\_PATH=/opt/gvm/lib/pkgconfig:$PKG\_CONFIG\_PATH |

**Step 5:** we need to download the source code (type in the following commands in order) as **gvm** user run

|  |
| --- |
| wget -O gvm-libs-11.0.0.tar.gz https://github.com/greenbone/gvm-libs/archive/v11.0.0.tar.gz ;\  wget -O openvas-7.0.0.tar.gz https://github.com/greenbone/openvas/archive/v7.0.0.tar.gz ;\  wget -O gvmd-9.0.0.tar.gz https://github.com/greenbone/gvmd/archive/v9.0.0.tar.gz ;\  wget -O openvas-smb-1.0.5.tar.gz https://github.com/greenbone/openvas-smb/archive/v1.0.5.tar.gz ;\  wget -O gsa-9.0.0.tar.gz https://github.com/greenbone/gsa/archive/v9.0.0.tar.gz ;\  wget -O ospd-openvas-1.0.0.tar.gz https://github.com/greenbone/ospd-openvas/archive/v1.0.0.tar.gz ;\  wget -O ospd-2.0.0.tar.gz https://github.com/greenbone/ospd/archive/v2.0.0.tar.gz |

Step 6 Unpack as gvm

|  |
| --- |
| find . -name \\*.gz -exec tar zxvfp {} \; |

**Step 7:**

Install the requirements for building the code as **sudo user**

|  |
| --- |
| sudo apt install software-properties-common ;\ sudo add-apt-repository universe ;\ sudo apt install -y cmake pkg-config libglib2.0-dev libgpgme11-dev libgnutls28-dev uuid-dev libssh-gcrypt-dev \ libldap2-dev doxygen graphviz libradcli-dev libhiredis-dev libpcap-dev bison libksba-dev libsnmp-dev \ gcc-mingw-w64 heimdal-dev libpopt-dev xmltoman redis-server xsltproc libical2-dev postgresql \ postgresql-contrib postgresql-server-dev-all gnutls-bin nmap rpm nsis curl wget fakeroot gnupg \ sshpass socat snmp smbclient libmicrohttpd-dev libxml2-dev python-polib gettext \ python3-paramiko python3-lxml python3-defusedxml python3-pip python3-psutil virtualenv ;\ sudo apt install -y texlive-latex-extra --no-install-recommends ;\ sudo apt install -y texlive-fonts-recommended ;\ curl -sS https://dl.yarnpkg.com/debian/pubkey.gpg | sudo apt-key add - ;\ echo "deb https://dl.yarnpkg.com/debian/ stable main" | sudo tee /etc/apt/sources.list.d/yarn.list ;\ sudo apt update ;\ sudo apt -y install yarn |

**Step 8:** we need to install GVM libraries as **gvm** user

|  |
| --- |
| cd gvm-libs-11.0.0 ;\  export PKG\_CONFIG\_PATH=/opt/gvm/lib/pkgconfig:$PKG\_CONFIG\_PATH ;\  mkdir build ;\  cd build ;\  cmake -DCMAKE\_INSTALL\_PREFIX=/opt/gvm .. ;\  make ;\  make doc ;\  make install ;\  cd /opt/gvm/src |

**Step 9:** Install openvas-smb **gvm** user

|  |
| --- |
| cd openvas-smb-1.0.5 ;\  export PKG\_CONFIG\_PATH=/opt/gvm/lib/pkgconfig:$PKG\_CONFIG\_PATH ;\  mkdir build ;\  cd build/ ;\  cmake -DCMAKE\_INSTALL\_PREFIX=/opt/gvm .. ;\  make ;\  make install ;\  cd /opt/gvm/src |

Step 10 Install the openvas scanner itself **gvm** user

|  |
| --- |
| cd openvas-7.0.0 ;\  export PKG\_CONFIG\_PATH=/opt/gvm/lib/pkgconfig:$PKG\_CONFIG\_PATH ;\  mkdir build ;\  cd build/ ;\  cmake -DCMAKE\_INSTALL\_PREFIX=/opt/gvm .. ;\  make ;\  make doc ;\  make install ;\  cd /opt/gvm/src |

**Step 11:** Configure redis so it works with openvas as **root**

|  |
| --- |
| ldconfig ;\ cp /etc/redis/redis.conf /etc/redis/redis.orig ;\ cp /opt/gvm/src/openvas-7.0.0/config/redis-openvas.conf /etc/redis/ ;\ chown redis:redis /etc/redis/redis-openvas.conf ;\ echo "db\_address = /run/redis-openvas/redis.sock" > /opt/gvm/etc/openvas/openvas.conf ;\ systemctl enable redis-server@openvas.service ;\ systemctl start redis-server@openvas.service  Then sysctl -w net.core.somaxconn=1024 sysctl vm.overcommit\_memory=1  echo "net.core.somaxconn=1024" >> /etc/sysctl.conf echo "vm.overcommit\_memory=1" >> /etc/sysctl.conf |

Next

|  |
| --- |
| cat << EOF > /etc/systemd/system/disable-thp.service [Unit] Description=Disable Transparent Huge Pages (THP)  [Service] Type=simple ExecStart=/bin/sh -c "echo 'never' > /sys/kernel/mm/transparent\_hugepage/enabled && echo 'never' > /sys/kernel/mm/transparent\_hugepage/defrag"  [Install] WantedBy=multi-user.target |

EOF

And finally

|  |
| --- |
| systemctl daemon-reload ;\ systemctl start disable-thp ;\ systemctl enable disable-thp ;\ systemctl restart redis-server |

**Step 11** next we need to set up the visudo file as **root:**

|  |
| --- |
| visudo |

You will now need to change the defaults option to this

|  |
| --- |
| Defaults secure\_path="/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/snap/bin:/opt/gvm/sbin" |

Now add these lines to the file

|  |
| --- |
| ### Allow the user running ospd-openvas, to launch openvas with root permissions gvm ALL = NOPASSWD: /opt/gvm/sbin/openvas gvm ALL = NOPASSWD: /opt/gvm/sbin/gsad |

**Step 12**: update nvt and upload plugins as **gvm** user run this

|  |
| --- |
| greenbone-nvt-sync |

Followed by

|  |
| --- |
| sudo openvas -u |

**Step 12:** install manager as **gvm user**:

|  |
| --- |
| cd gvmd-9.0.0 ;\  export PKG\_CONFIG\_PATH=/opt/gvm/lib/pkgconfig:$PKG\_CONFIG\_PATH ;\  mkdir build ;\  cd build/ ;\  cmake -DCMAKE\_INSTALL\_PREFIX=/opt/gvm .. ;\  make ;\  make doc ;\  make install ;\  cd /opt/gvm/src |

**Step 13** Configure PostgreSQL **as sudo user NOT root**

|  |
| --- |
| sudo -u postgres bash createuser -DRS gvm createdb -O gvm gvmd  psql gvmd create role dba with superuser noinherit; grant dba to gvm; create extension "uuid-ossp"; \q exit |

**Step 14:** register an admin account

|  |
| --- |
| gvm-manage-certs -a gvmd --create-user=admin --password=admin\*\*\* greenbone-certdata-sync ;\ greenbone-scapdata-sync |

\*\*\* this is a placeholder enter in the agreed upon admin password

**Step 15** set up IANA Service names as **gvm**

|  |
| --- |
| mkdir iana\_service\_ports ;\ cd iana\_service\_ports ;\ wget https://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xml ;\ gvm-portnames-update service-names-port-numbers.xml cd /opt/gvm/src |

**Step** 16 install gsa as **gvm:**

|  |
| --- |
| cd gsa-9.0.0 ;\  export PKG\_CONFIG\_PATH=/opt/gvm/lib/pkgconfig:$PKG\_CONFIG\_PATH ;\  mkdir build ;\  cd build/ ;\  cmake -DCMAKE\_INSTALL\_PREFIX=/opt/gvm .. ;\  make ;\  make doc ;\  make install ;\  touch /opt/gvm/var/log/gvm/gsad.log ;\  cd /opt/gvm/src |

**Step 17**  install OSPD-openvas as **gvm**

**17 a**

|  |
| --- |
| cd src ;\ export PKG\_CONFIG\_PATH=/opt/gvm/lib/pkgconfig:$PKG\_CONFIG\_PATH ;\ virtualenv --python python3.7 /opt/gvm/bin/ospd-scanner/ ;\ source /opt/gvm/bin/ospd-scanner/bin/activate |

**17 b**

|  |
| --- |
| cd ospd-2.0.0 ;\ pip3 install . ;\ cd /opt/gvm/src |

**17 c**

|  |
| --- |
| cd ospd-openvas-1.0.0 ;\ pip3 install . ;\ cd /opt/gvm/src |

**Step 18** create startup scripts as **Root**

|  |
| --- |
| **cat << EOF > /etc/systemd/system/gvmd.service [Unit] Description=Job that runs the gvm daemon Documentation=man:gvm After=postgresql.service  [Service] Type=forking User=gvm Group=gvm PIDFile=/opt/gvm/var/run/gvmd.pid WorkingDirectory=/opt/gvm ExecStart=/opt/gvm/sbin/gvmd --osp-vt-update=/opt/gvm/var/run/ospd.sock Restart=on-failure RestartSec=2min KillMode=process KillSignal=SIGINT GuessMainPID=no PrivateTmp=true  [Install] WantedBy=multi-user.target EOF** |

|  |
| --- |
| cat << EOF > /etc/systemd/system/gsad.service [Unit] Description=Job that runs the gsa daemon Documentation=man:gsa After=postgresql.service  [Service] Type=forking PIDFile=/opt/gvm/var/run/gsad.pid WorkingDirectory=/opt/gvm ExecStart=/opt/gvm/sbin/gsad --drop-privileges=gvm Restart=on-failure RestartSec=2min KillMode=process KillSignal=SIGINT GuessMainPID=no PrivateTmp=true  [Install] WantedBy=multi-user.target EOF |

|  |
| --- |
| cat << EOF > /etc/systemd/system/ospd-openvas.service  [Unit] Description=Job that runs the ospd-openvas daemon Documentation=man:gvm After=postgresql.service  [Service] Environment=PATH=/opt/gvm/bin/ospd-scanner/bin:/opt/gvm/bin:/opt/gvm/sbin:/opt/gvm/.local/bin:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin Type=simple User=gvm Group=gvm WorkingDirectory=/opt/gvm PIDFile=/opt/gvm/var/run/ospd-openvas.pid ExecStart=/opt/gvm/bin/ospd-scanner/bin/python /opt/gvm/bin/ospd-scanner/bin/ospd-openvas --pid-file /opt/gvm/var/run/ospd-openvas.pid --unix-socket=/opt/gvm/var/run/ospd.sock --log-file /opt/gvm/var/log/gvm/ospd-scanner.log Restart=on-failure RestartSec=2min KillMode=process KillSignal=SIGINT GuessMainPID=no PrivateTmp=true  [Install] WantedBy=multi-user.target EOF |

|  |
| --- |
| systemctl daemon-reload ;\ systemctl enable gvmd ;\ systemctl enable gsad ;\ systemctl enable ospd-openvas ;\ systemctl start gvmd ;\ systemctl start gsad ;\ systemctl start ospd-openvas |

Fix openvas scanner

|  |
| --- |
| gvmd --get-scanners |

You will get an output that looks like this

Get the UID of the openvas scanner and run

|  |
| --- |
| gvmd --modify-scanner=UUID of OpenVAS Default --scanner-host=/opt/gvm/var/run/ospd.sock |

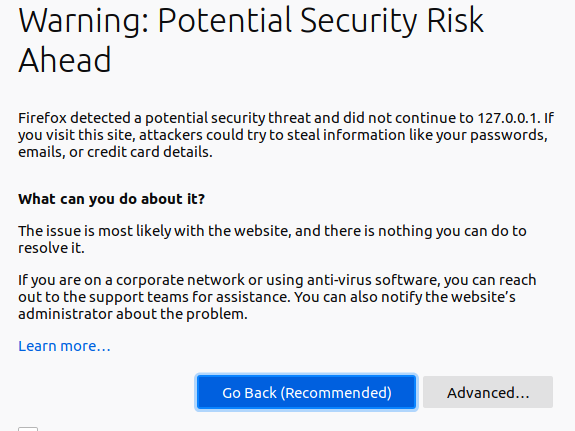
Now we will need to wait a while run to watch the progress of the gvmd setup

|  |
| --- |
| watch "ps -ef | grep gvmd: | grep -v grep" |

* gvmd: Syncing SCAP - this is going to take a long time, you can safely start a scan when this is running.
* gvmd: OSP: Updating NVT cache - Wait to start a scan until this is finished, this updates NVT in your installation.

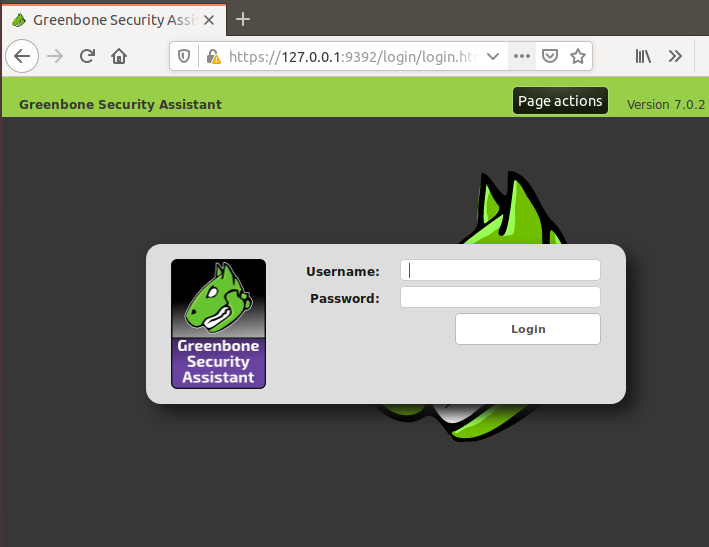
|  |
| --- |
| 127.0.0.1 |

You will probably get a page similar to this



This is ok click advanced then accept risk and continue in firefox

You should see a page like this now



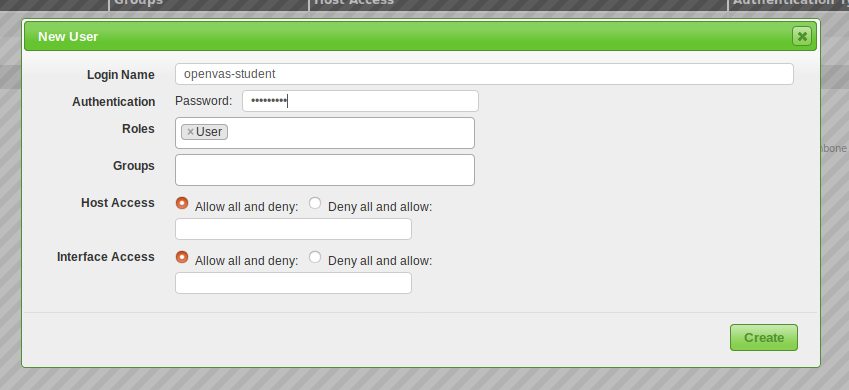
This is the greenbone web application. You can log into it with the username “admin”

And the password is the one you took down earlier

The next few steps will be to set up a user account so the command line interface can run normally

**Step 14:**

Go to the administration tab and click users

Click the star in the top right and it will open a pane like this 

Give the user the name openvas-student and password password1 with the role of user

While we are here, click the wrench and change the admin password to something too

**Troubleshooting**

You will need to run these commands

**### STILL need**

**Gvm tools?**

**#source for the info**

[**https://sadsloth.net/post/install-gvm10-src/**](https://sadsloth.net/post/install-gvm10-src/)

Browserslist: caniuse-lite is outdated. Please run next command `yarn upgrade`