



OpenVAS S.O.P.

By: Cpl Jimenez <u>3rd PLT DCO-IDM</u> <u>LU: 20231117</u>

This document will serve as the guide to OpenVAS installation and usage for operations.

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OpenVAS Overview

OpenVAS is an open source Linux-based vulnerability scanner. The intent of OpenVAS usage is to scan the network for vulnerabilities and thereby become aware of certain weaknesses in the network, which can then be turned into an RFI request. You can schedule scans as well so that you always have a relatively recent scan that has up to date information regarding the network. In our network, we typically install it on top of a Kali VM, which itself is hosted on ESXI which is on a CyberPac. Once properly configured, you can launch OpenVAS either via the Terminal or the browser. The terminal method requires you to type in the 'gvm-start' command (which must be run as sudo) to start the openvas daemon. The browser method will require you to type in https://127.0.0.1:9392 into the URL bar. Make sure you prepend the url with https:// otherwise it will not work if you simply type in 127.0.0.1:9392. Note that OpenVAS installation will not work at all if your VM isn't connected to the internet. Also keep in mind that without a license, OpenVAS only lets you scan networks up to a size of /20. If you need to scan a network larger than that, you will have to subnet and create multiple target profiles.





OpenVAS (and Kali Linux) Installation

- ****Make sure you build your VM on VMWare Workstation Pro***
 - > ESXI doesn't play nice with .ova's generated from VirtualBox
- Start with a fresh Kali Linux image (Installation instructions below)
- Open up VMWare Workstation Pro and select File -> New Virtual Machine



Select 'Typical Installation'







Next, pick your .iso file's location





Guest Operating Sys	tem Installation		
A virtual machine i	is like a physical computer; i	t needs an op	erating
system. How will y	ou install the guest operation	g system?	<u> </u>
Install from:			
 Installer disc: 			
No drives availab	ble	\sim	
-			イケ
Installer disc image f	file (iso):		\checkmark
Installer disc image f D:\kali-linux-2022.3 ⁴	file (iso): -installer-amd64.iso	~	Browse
 Installer disc image f D:\kali-linux-2022.3 Could not detect 	file (iso): -installer-amd64.iso : which operating system is i	→ In this disc ima	Browse
 Installer disc image f D:\kali-linux-2022.3 Could not detect You will need to 	file (iso): -installer-amd64.iso : which operating system is in specify which operating syst	n this disc imater will be inst	Browse age. stalled.
 Installer disc image f D:\kali-linux-2022.3 Could not detect You will need to I will install the operation 	file (iso): -installer-amd64.iso : which operating system is in specify which operating syst ating system later.	n this disc ima em will be ins	Browse age. stalled.
 Installer disc image f D:\kali-linux-2022.3 Could not detect You will need to I will install the operative The virtual machine 	file (iso): -installer-amd64.iso : which operating system is in specify which operating syst ating system later. will be created with a blank	n this disc ima tem will be ins	Browse age. stalled.
 Installer disc image f D:\kali-linux-2022.3 Could not detect You will need to I will install the opera The virtual machine 	file (iso): -installer-amd64.iso which operating system is in specify which operating syst ating system later. will be created with a blank	n this disc ima tem will be ins hard disk.	Browse age. stalled.
 Installer disc image f D:\kali-linux-2022.3 Could not detect You will need to I will install the opera The virtual machine 	file (iso): -installer-amd64.iso : which operating system is in specify which operating syst ating system later. will be created with a blank	n this disc ima em will be ins hard disk.	Browse age. stalled.
 Installer disc image f D:\kali-linux-2022.3 Could not detect You will need to I will install the opera The virtual machine 	file (iso): -installer-amd64.iso which operating system is in specify which operating syst ating system later. will be created with a blank	n this disc ima tem will be ins hard disk.	Browse age. stalled.
 Installer disc image f D:\kali-linux-2022.34 Could not detect You will need to I will install the opera The virtual machine 	file (iso): -installer-amd64.iso : which operating system is in specify which operating syst ating system later. will be created with a blank	n this disc ima tem will be ins hard disk.	Browse age. stalled.

 Tell VMWare what operating system you're installing if it hasn't auto-detected it





New Virtual Machine Wi	zard	×
Select a Guest Operat	ing System	
Which operating sys	stem will be installed on this virtual machine?	?
Guest operating system		
Microsoft Windows		
O VMware ESX		
Other		
Version		
Ubuntu 64-bit		~
	_	
	ج لے	
	\checkmark	

Name the virtual machine, and select where it should be saved. The directory you're saving it in should have plenty of space. Keep in mind that the VM itself will be about 70GB when completed.





New Virtual Machine Wizard	
Name the Virtual Machine What name would you like to use for this virtual machine	?
Virtual machine name: Window Snip	1
Location:	
C:\Users\dco_admin\Documents\Virtual Machines\OpenVAS	Browse
< Back Next >	Cancel

Make sure that your VM has plenty of space (at least 100GB). You will need a decent chunk of this space in order for the next steps to go smoothly and avoid crashing your VM due to a lack of space. Select 'Store virtual disk as a single file' as well.





Specify Dick Capacity	
Specify Disk Capacity	
How large do you wa	
The virtual machine's hard d	isk is stored as one or more files on the host
computer's physical disk. The	ese file(s) start small and become larger as you add
applications, files, and data t	to your virtual machine.
Maximum disk size (GB):	100.00
Recommended size for Ubun	itu 64-bit: 20 GB
-	
Store virtual disk as a sin	gle file < 🔜
O Split virtual disk into mult	iple files
Splitting the disk makes i	t easier to move the virtual machine to another
computer but may reduce	e performance with very large disks.
	·
	· · ·

Verify your settings are correct. If they aren't, click on the Customize Hardware button and select the appropriate settings. At least 16GB of memory (more memory = faster scans) and four hyperthreaded cores for eight cores total are required.





Ready to Create Click Finish to 64-bit.	Virtual Machine create the virtual machine. Then you can install Ubuntu	
The virtual machine	will be created with the following settings:	
Name:	OpenVAS	
Location:	C:\Users\dco_admin\Documents\Virtual Machines\Open	
Version:	Workstation 17.5.x	
Operating System:	Ubuntu 64-bit	
Hard Disk:	100 GB	
Memory:	4096 MB	
Network Adapter:	NAT	
Other Devices:	2 CPU cores, CD/DVD, USB Controller, Sound Card	
Customize Hardw	are 🧲	
	•	
	JL	





Next, power on the virtual machine

•	OpenVAS - VMware Workstation			
	<u>Eile Edit View VM</u> Tabs Help	록 \$ 4 4 8 □ □ □ 2 2 2 □ 0		
	Splunk2 × C OpenVAS ×			
	C OpenVAS			
	Prover on this virtual machine settings Edit virtual machine settings Devices Memory 4 G8 Processors 2 Hard Disk (SCSD) 100 G8 CD/DVD (SATA) Using file DAkali Thetwork Adapter NAT SI SE Controller Present SI SE Controller Present Display Auto detect Description Type here to enter a description of this virtual machine.	▼ Virtual Machine Details	Window Snp	
		State: Powered off Configuration file: C\Users\dco.admin\Docu	ments\Virtual Machines\OpenVAS\OpenVAS.vmx	
		Hardware compatibility: Workstation 17.5.x virtual n	nachine zavallable	
		Thinking in address. Network information is not	avanabic .	

When you boot up the machine for the first time, select 'Graphical Install'. This is the GUI guided installation which is much more user-friendly









Select a language

Choose the language t language for the insta	to be lled	e used for the installation \underline{r} rocess. The selected language will also be the default system.	
Language:			
cumeae (ampinica)	-	17人(同件)	
Chinese (Traditional)	-	中文(繁體)	
Croatian	-	Hrvatski	
Czech	-	Čeština	
Danish	-	Dansk	Ξ
Dutch	-	Nederlands	
Dzongkha	-	jan 2	
English	-	English	
Esperanto	-	Esperanto	
Estonian	-	Eesti	
Finnish	-	Suomi	
French	-	Français	
Galician	-	Galego	
Georgian	-	ქართული	
German	-	Deutsch	~

Screenshot

Go Back

Continue







Select your location

The selected location will be used to set your time zone and also for example to help select the system locale. Normaliy this should be the country where you live.

This is a shortlist of locations based on the language you selected. Choose "other" if your location is not listed. *Country, territory or area:*

India		^
Ireland		
Israel		
New Zealand		
Nigeria		_
Philippines		
Seychelles		
Singapore		
South Africa		=
United Kingdom		
United States		
Zambia		
Zimbabwe		_
other		🗸
		\mathbf{V}
Screenshot	Go Back	Continue







Configure the keyboard

Keymap to use:	
American English	<u>_</u>
Albanian 🔨	_
Arabic 1	=
Asturian	
Bangladesh	
Belarusian	
Bengali	
Belgian	
Berber (Latin)	
Bosnian	
Brazilian	
British English	
Bulgarian (BDS layout)	
Bulgarian (phonetic layout)	_
Canadian French	
	てつ
Screenshot	Go Back Continue

Create a hostname for the machine



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Configure the network

Please enter the hostname for this system. The hostname is a single word that identifies your system to the network. I hostname should be, consult your network administrator. If you are setting can make something up here. <i>Hostname:</i>	f you don't know what your up your own home network, you
OpenVAS	
	Ŷ
Screenshot	Go Back Continue

Enter a domain if you wish. You can also leave it blank.



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Configure the network



Enter the full name of the primary user





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Set up users and passwords

A user account will be created for you to use instead of the root account for non-administrative activities.

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Please enter the real name of this user. This information will be used for instance as default origin for emails sent by this user as well as any program which displays or uses the user's real name. Your full name is a reasonable choice.

Full name for the new user:



- *
- Create a username for the machine



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Set up users and passwords



 Configure your passwords. For simplicity's sake, I use the Kali default username/password of kali/kali







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Set up users and passwords



Set up the system clock

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Configure the clock



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 Next you will be asked how you want to partition your installation. Stick with the default options

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The installer can guide you through partitioning a disk (using different standard schemes) or, if you prefer, you can do it manually. With guided partitioning you will still have a chance later to review and customise the results.

If you choose guided partitioning for an entire disk, you will next be asked which disk should be used. Partitioning method:

















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Selected for partitioning:	
SCSI33 (0,0,0) (sda) - VMware, VMware Virtual S: 107.4 GB	
The disk can be partitioned using one of several different schemes. If you are unsu Partitioning scheme:	ıre, choose the first one.
All files in one partition (recommended for new users)	
Separate /home partition Separate /home, /var, and /tmp partitions	
Screenshot	Go Back Continue







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Guideo	d partit	tioning							
Config	ure sof	ftware RAID	•						
Config	ure the	e Logical Vo	olume Manage	er					
Config	ure en	crypted vol	umes						
Config	ure iSC	SI volumes	i						
SCSI33	3 (0,0,0) (sda) - 10	7.4 GB VMwar	re, VN	1ware Virt	ual S			
>	#1	primary	106.3 GB	f	ext4	/			
>	#5	logical	1.0 GB	f	swap	swap			
Undo									
	cnange	s to partiti	ons		:-l-				
Finish	partiti	oning and v	write changes	s to a	ISK				
		Λ							
		11							_
									$-\mathbf{V}$
							(
creensh	ot	Help						Go Back	Continu







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If you continue, the changes listed below will be written to the disks. Otherwise, you will be able further changes manually.	to make
The partition tables of the following devices are changed: SCSI33 (0,0,0) (sda)	
The following partitions are going to be formatted: partition #1 of SCSI33 (0,0,0) (sda) as ext4 partition #5 of SCSI33 (0,0,0) (sda) as swap	
Write the changes to disks?	
○ No	
• Yes	
	_
	Ŷ
Screenshot	Continue

 The system will eventually prompt you to install additional software options. Simply hit continue to continue, unless you want the extra stuff.







Software selection

At the moment, only the core of the system is installed. The default selections below will install Kali Linux with its standard desktop environment and the default tools.

You can customize it by choosing a different desktop environment or a different collection of tools. Choose software to install:

Desktop environment [selecting this item has no effect]

🗹 ... Xfce (Kali's default desktop environment)

🗌 ... GNOME

🗌 ... KDE Plasma

- ✓ Collection of tools [selecting this item has no effect]
- ✓ … top10 -- the 10 most popular tools
- ✓ … default -- recommended tools (available in the live system)

Screenshot

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Continue

Install the GRUB bootloader





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Install the GRUB boot loader

It seems that this new installation is the only operating system on this computer. If so, it should be safe to install the GRUB boot loader to your primary drive (UEFI partition/boot record).

Warning: If your computer has another operating system that the installer failed to detect, this will make that operating system temporarily unbootable, though GRUB can be manually configured later to boot it. Install the GRUB boot loader to your primary drive?





Screenshot

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Go Back

Continue



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Install the GRUB boot loader

You need to make the newly installed system bootable, by installing the GR device. The usual way to do this is to install GRUB to your primary drive (UE instead install GRUB to a different drive (or partition), or to removable medi Device for boot loader installation:	UB boot loader on a bootable FI partition/boot record). You may a.
Enter device manually	
/dev/sda	
	\
Screenshot	Go Back Continue

Press Continue to reboot and finish the Kali install



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Finish the installation

	Installation complete Installation is complete, so it is time to boot into your new system. Make sure to installation media, so that you boot into the new system rather than restarting	o remove t the insta	the llation.
P	Please choose <continue> to reboot.</continue>		
Screenst	hot	Back	

Once you boot up into Kali, open up the terminal. You will need to run many of these commands as super user, so use the '**sudo su**' command so that you don't have to preface every command with 'sudo'



- Upgrade the OS, and install and upgrade packages with the following commands:
 - ➤ sudo apt update -y
 - ➤ sudo apt upgrade -y





When prompted for services to automatically restart in the middle of the upgrade, select yes by hitting the tab key until the option to select yes is highlighted in red, then hit enter.



 You will also be alerted to an obsolete version of the PostgreSQL daemon. This will come into play later.

	Start with a fresh Kali Linux iso Make sure that your vi Configuring postgresql-common HCB, You will	
Obsolete major version 14		
The PostgreSQL version 14 is obsolete, but the server or cli	ent packages are still installed. Please install the latest packages (postgresql-16 and postgresql-client-16) and upgrade	e the existing clusters with ps
Please be aware that the installation of postgresql-16 will main, see manpage for details).	automatically create a default cluster 16/main. If you want to upgrade the 14/main cluster, you need to remove the alread	dy existing 16 cluster (pg_dropc
Please be aware that the installation of postgresql-16 will main, see manpage for details). The old server and client packages are no longer supported.	automatically create a default cluster 16/main. If you want to upgrade the 14/main cluster, you need to remove the alread After the existing clusters are upgraded, the postgresql-14 and postgresql-client-14 packages should be removed.	dy existing 16 cluster (p <u>g_</u> dropo
Please be aware that the installation of postgresql-16 will main, see manpage for details). The old server and client packages are no longer supported. Please see /usr/share/doc/postgresql-common/README.Debian.gz	automatically create a default cluster 16/main. If you want to upgrade the 14/main cluster, you need to remove the alread After the existing clusters are upgraded, the postgresql-14 and postgresql-client-14 packages should be removed. : for details.	dy existing 16 cluster (pg_dropd
Please be aware that the installation of postgresql-16 will main, see manpage for detail). The old server and client packages are no longer supported. Please see /usr/share/doc/postgresql-common/README.Debian.gz	automatically create a default cluster 16/main. If you want to upgrade the 14/main cluster, you need to remove the alread After the existing clusters are upgraded, the postgresql-14 and postgresql-client-14 packages should be removed. : for details.	dy existing 16 cluster (pg_dropc
Please be aware that the installation of postgresql-16 will main, see manpage for detail). The old server and client packages are no longer supported. Please see /usr/share/doc/postgresql-common/README.Debian.gz	automatically create a default cluster 16/main. If you want to upgrade the 14/main cluster, you need to remove the alread After the existing clusters are upgraded, the postgresql-14 and postgresql-client-14 packages should be removed. t for details.	dy existing 16 cluster (pg_dropo
Please be aware that the installation of postgresql-16 will main, see manage for details). The old server and client packages are no longer supported. Please see /usr/share/doc/postgresql-common/README.Debian.gz	automatically create a default cluster 16/main. If you want to upgrade the 14/main cluster, you need to remove the alread After the existing clusters are upgraded, the postgresql-14 and postgresql-clust-14 packages should be removed. For details nucleo and upgrade y = When prompted for an area to automatically restart in the matche of the upgrade to an area to be being the tab key until - to matche of the upgrade to an area to be being the tab key until - to be a prompted to an area to be being the tab key until - to be a prompted to the upgrade to be a prompted to the tab key until - to be a prompted to the upgrade to be a prompted to the tab key until - to be a prompted to the upgrade to be a prompted to the tab key until - to be a prompted to the upgrade to be a prompted to the tab key until - to be a prompted to the upgrade to be a prompted to the tab key until - to be a prompted to the upgrade to the upgrade to the upgrade to be a prompted to the upgrade t	dy existing 16 cluster (pg_dropc
Please be aware that the installation of postgresql-16 will min, see manges for details). The old server and client packages are no longer supported. Please see /usr/share/doc/postgresql-common/README.Debian.gz	After the existing clusters are upgraded, the postgresql-14 and postgresql-client-14 packages should be removed to remove the alread After the existing clusters are upgraded, the postgresql-14 and postgresql-client-14 packages should be removed. For details nubb out upgrade y = When prompted for an mode of the upgrade of the state of the postgresql the state of the upgrade of the up	dy existing 16 cluster (pg_dropd
Please be aware that the installation of postgresql-16 will main, see manage for details). The old server and client packages are no longer supported. Please see /usr/share/doc/postgresql-common/README.Debian.gz	After the existing clusters are upgraded, the postgresql-14 and postgresql-client-14 packages should be removed to remove the alread After the existing clusters are upgraded, the postgresql-14 and postgresql-client-14 packages should be removed. For details up on an upgrade - When prompted for an COCC to allow the postgresql of the ten ten ten the middle of the upproved by Content version and configure the content become to ten	dy existing 16 cluster (p <u>g_</u> drop

- ➤ sudo apt dist-upgrade -y
- You can chain these three command together using '&&' as pictured below



You will eventually be prompted for what you'd like to do concerning the /etc/gprofng.rc file. It isn't really relevant to the OpenVAS installation and you can pick yes or no, it doesn't matter





- Upgrade the PostgreSQL package and configure the correct listening port (latest version required in order to install OpenVAS correctly)
 - If the above commands ran properly, it should install the latest version of the PostgreSQL package.
 - List your clusters with the 'pg_lsclusters' command. You can see here that both version 14 and version 16 are installed on the very left hand side of the picture



Delete the older versions of the package with the 'sudo pg_dropcluster x main' command, where 'x' is the OLD version of the package. Run pg_lsclusters again to verify that the latest version is the only one installed



The PostgreSQL daemon needs to be listening on port 5432. In order to configure this, you need to edit the **postgresql.conf** file. It should be located in /etc/postgresql/x/main/ where 'x' is the version number.



- Scroll down a little bit until you see a line that says port = xxxx. Change it to 5432.
- Restart the PostgreSQL service with the 'pg_ctlcluster x main start' and 'service postgresql restart' commands in that order. Again, 'x' is the version of PostgreSQL that you are working with.





<pre>hba_file = '/etc/postgresql/16/main/pg_ ident_file = '/etc/postgresql/16/main/p # If external_pid_file is not explicit</pre>	<pre># (change requires restart) hba.conf' # host-based authent; # (change requires restart) og_ident.conf' # ident configuration # (change requires restart)</pre>	ication file
<pre>hba_file = '/etc/postgresql/16/main/pg_ ident_file = '/etc/postgresql/16/main/p # If external_pid_file is not explicit</pre>	_hba.conf' # host-based authent: # (change requires restart) bg_ident.conf' # ident configuration # (change requires restart)	ication file
<pre>ident_file = '/etc/postgresql/16/main/p # If external_pid_file is not explicit</pre>	<pre># (change requires restart) pg_ident.conf' # ident configuration # (change requires restart)</pre>	
<pre>external_pid_file = '/var/run/postgresc</pre>	ly set, no extra PID file is written. ql/16-main.pid' # wri # (change requires restart)	> The ite an extra ord loc
#		
4	<pre># defaults to 'localhost'; use '*' fo # (chapge requires restart)</pre>	or all
nort = 5433	# (change requires restart) # (change requires restart)	
max connections = 10	# (change requires restart)	
<pre>#reserved_connections = 0</pre>		
<pre>unix_socket_directories = '/var/run/pos</pre>		
<pre>#unix_socket_permissions = 0777</pre>		
	# (change requires restart)	
	# (change requires restart)	
		automati

Install OpenVAS with the 'sudo apt install openvas' command







- The next step is to run the installer, which will configure OpenVAS and download various network vulnerability tests (NVTs) or signatures. Due to a large number of NVTs (50,000+), the installation process will take a lot of time and consume a lot of data. Keep in mind that if this step is done incorrectly, OpenVAS will not work at all because it will not have any virus definitions to work off of. Enter the following command:
 - ≻ 'sudo gvm-setup'

(<pre>provide the second secon</pre>	
<pre>[>] Starting PostgreSQL service</pre>	
[>] Creating GVM's certificate files	
[>] Creating PostgreSQL database	
<pre>[*] Creating database user</pre>	
[*] Creating database	
<pre>[*] Creating permissions CREATE ROLE</pre>	
<pre>[*] Applying permissions GRANT ROLE</pre>	
<pre>[*] Creating extension uuid-ossp CREATE EXTENSION</pre>	
<pre>[*] Creating extension pgcrypto CREATE EXTENSION</pre>	
[*] Creating extension pg-gvm	
CREATE EXTENSION	
<pre>[>] Checking for GVM admin user</pre>	
[*] Creating user admin for gvm	
<pre>[*] Please note the generated admin password [*] User created with password '96014ead-2658-42be-b82e-df4222</pre>	command). If this command isn't run, OpenVAS will not work and you will 87216b'.
[*] Configure Feed Import Owner	
[*] Define Feed Import Owner	
Running as root. Switching to user '_gvm' and group '_gvm'.	
Trying to acquire lock on /var/lib/openvas/feed-update.lock	
ACCULEU LOCK ON / VALUED/OPENVAS/feed-update.lock	e.net/community/vulnerability_feed/22_04/vt_data/notus/_to_/var/lib/notus_
bouncoulding notab rices row rayne.// reed.community.greenbon	ernet, community, valierability recay 22104, vc-data/notas/ to /val/tib/notas

After the configuration process is complete, all the necessary OpenVAS processes will start and the web interface will open automatically. The web interface is running locally on port 9392 and can be accessed through https://127.0.0.1:9392. OpenVAS will also set up an admin account and



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automatically generate a password for this account which is displayed in the last section of the setup output

Verify that everything installed correctly by running the 'sudo gvm-check-setup' command. If something did not install correctly, this command gives you instructions as to what to run to fix the issue(s).

📉 📄 📄 🍃 🧆 🔚 v 🛛 1 2 3 4 🛛 🌢 🛛 🗾 👦	
	root@OpenVAS: /etc/postgresql/16/main
File Actions Edit View Help	
kali@OpenVAS: ~/Desktop/ventoy-1.0.96 X kali@OpenVAS: ~/Desktop/ventoy-1.0.96	
gym-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 22.7.5.	
OK: Notus Scanner is present in Version 22.0.0. 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_ur1 is defined in /etc/openvas/openvas.conf OK: gvm gwms all files in /var/lib/onenvas/olugins	
OK: NVT collection in /var/lib/openvas/plugins contains 87063 NVTs.	
OK: The notus directory /var/lib/notus/products contains 451 NVTs.	
OK: No old Redis DB	
OK: ospd-openvas service is active.	
Step 2: Checking GVMD Manager	
OK: GVM Manager (gvmd) is present in version 22.9.0.	
OK: GYM client certificate is valid and present as /var/lib/gym/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 [addition] of grow UTF8 Libc en_US.UTF-8 en_US.UTF-8	
16436/pg-gvm/10/2200/f/22.6//	
Step 6: Checking Greenbone Security Assistant (GSA)	
Note for OK: Greenbone Security Assistant is present in version 22.06.0-git.	
Step 7. Checking in two services are up and running	
partiti Waiting for gwmd service	
ok, gymd service is active.	
Creatin Waiting for gsad service	
Step 8: Checking few other requirements	
akexfat OK: nmap is present.	
OK: ssh-keygen found, LSC credential generation for GNU/Linux targets is likely to work. OK: ssis found, LSC credential package generation for Microsoft Windows targets is likely to	work.
OK: xsltproc found.	
WARNING: Your password policy is empty. SUGGEST: Edit the /etc/gym/nwnolicy.conf file to set a password policy.	
Step 9: Checking greenbone-security-assistant	
OK: greenbone-security-assistant is installed	
It seems like your GVM-22.5.0 installation is OK.	

- Once you have verified that the installation is good, start the OpenVAS daemon with the 'sudo gvm-start' command (if the OpenVAS daemon and the web interface didn't start upon completion of the 'gvm-setup' command). If this command isn't run, OpenVAS will not work and you will not be able to access it at all.
- If you want to change the password use the 'sudo gvmd --user=admin --new-password=<passwd>'
 - If the above command doesn't work, try 'sudo -E -u _gvm gvmd --user=admin --new-password=admin'





Shut down the VM and export it into an .ova format so you can put it ont ESXI.

OpenVAS Set-Up

Before you start scanning, you need to make target profiles. You can do this either by going to Configuration -> Targets or by going to the Scans -> Tasks tab and creating a new task and then making the target profile from there. The below screenshot shows the easier option; Configuration -> Targets

It is best practice to name the target profile after the subnet you are scanning (for example, 10.1.5.11-10.1.5.20). Make sure that you do **NOT** put spaces in the subnet range when you are specifying it under the manual option. You can also specify multiple specific IPs by putting them in a .csv file and selecting the "from file" option. If you are using this option, put only one IP per line, like so:

10.1.5.11 10.1.4.22

10.1.3.33

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Targets 1 of 1		New Target		×	
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		Allow simultaneous scanning via	⊙ Yes ◯ No		
		multiple IPs			
		Alive Test			
		Allerest			
		Credentials for auth	enticated checks		
		530			
		Cancel		Save	
			Greenbone Sec	urity Assistant (GSA) Copyright (C) 2009-	2023 by Greenbone AG, www.greenbone.net

In order to run your scans, click on the play button on the right hand side of the screen. You can also pause, stop, delete, edit, clone or export your





scans. These buttons are in the middle right of the screen, under the Tasking tab, as pictured below:



Once your scans are done, you can view the associated report by clicking on the date under the Last Report section.

-Alternatively, if you want to view earlier reports, click on the number of reports, and then click on the report you wish to see.

-Once you pull up a report, you can view specific results like what hosts the scan found, what ports are open, and what CVEs it caught by navigating to the specific tab. Alternatively, you may find the 'Corresponding Results' and 'Corresponding Vulnerabilities' sections useful. These are the buttons in the upper left hand corner shaped like a radar and a biohazard icon respectively.

Screenshot depicting how to pull up the most recent report:



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Screenshot depicting Results tab once the report has been pulled up:

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Report: Tue, Nov 7, 2023 11:03 AM EST Dome ID. 13cc83cf93fr.42de-afb4-6dc33f00c7b9 Created: Tue. Nov 7, 2023 11:03 AM EST Modified: Tue. Nov 7, 2023 11:59 M EST Owner: admin								admin	

 Information
 Results (16 of 121)
 Hosts
 Ports (3 of 3)
 Applications
 Operating Systems (2 of 2)
 CVEs (3 of 3)
 Closed CVEs (4 of 4)
 TLS Certificates
 Error Messages
 User Tags

							< < 1 - 16 of 16 > >
	Let Host						
vuinerability		Severity V	QoD	IP	Name	Location	Created
SSL/TLS: Renegotiation MITM Vulnerability (CVE-2009-3555)	٤	5.8 (Medium)	70 %	10.1.5.11		9080/tcp	Tue, Nov 7, 2023 11:24 AM EST
Weak Key Exchange (KEX) Algorithm(s) Supported (SSH)	4	5.3 (Medium)	80 %	10.1.5.1		22/tcp	Tue, Nov 7, 2023 12:39 PM EST
SSL/TLS: Renegotiation DoS Vulnerability (CVE-2011-1473, CVE-2011-5094)	2	5.0 (Medium)	70 %	10.1.5.11		9080/tcp	Tue, Nov 7, 2023 11:24 AM EST
SSL/TLS: Renegotiation DoS Vulnerability (CVE-2011-1473, CVE-2011-5094)	٢	5.0 (Medium)	70 %	10.1.5.11		443/tcp	Tue, Nov 7, 2023 11:24 AM EST
Cleartext Transmission of Sensitive Information via HTTP	Ò	4.8 (Medium)	80 %	10.1.5.1		80/tcp	Tue, Nov 7, 2023 12:40 PM EST
Cleartext Transmission of Sensitive Information via HTTP	Ò	4.8 (Medium)	80 %	10.1.5.0		80/tcp	Tue, Nov 7, 2023 11:27 AM EST
Telnet Unencrypted Cleartext Login	4	4.8 (Medium)	70 %	10.1.5.1		23/tcp	Tue, Nov 7, 2023 12:35 PM EST
SSL/TLS: Deprecated TLSv1.0 and TLSv1.1 Protocol Detection	4	4.3 (Medium)	98 %	10.1.5.1		443/tcp	Tue, Nov 7, 2023 12:39 PM EST
SSL/TLS: Deprecated TLSv1.0 and TLSv1.1 Protocol Detection	4	4.3 (Medium)	98 %	10.1.5.0		443/tcp	Tue, Nov 7, 2023 11:23 AM EST
SSL/TLS: Certificate Signed Using A Weak Signature Algorithm	4	4.0 (Medium)	80 %	10.1.5.0		443/tcp	Tue, Nov 7, 2023 11:23 AM EST
SSL/TLS: Certificate Signed Using A Weak Signature Algorithm	4	4.0 (Medium)	80 %	10.1.5.1		443/tcp	Tue, Nov 7, 2023 12:39 PM EST
TCP Timestamps Information Disclosure	4	2.6 (Low)	80 %	10.1.5.0		general/tcp	Tue, Nov 7, 2023 11:20 AM EST
TCP Timestamps Information Disclosure	4	2.6 (Low)	80 %	10.1.5.11		general/tcp	Tue, Nov 7, 2023 11:12 AM EST
Weak MAC Algorithm(s) Supported (SSH)	4	2.6 (Low)	80 %	10.1.5.1		22/tcp	Tue, Nov 7, 2023 12:39 PM EST
ICMP Timestamp Reply Information Disclosure	47	2.1 (Low)	80 %	10.1.5.0	Greenbone Security Assista	general/icmp ant (GSA) Copyright (C) 2/	Tue, Nov 7, 2023 11:25 AM EST 09-2023 by Greenbone AG, www.greenbone.net

This is a screenshot of the associated CVEs pulled from a report. Notice





on the right hand side it depicts the Severity levels and the name of the CVEs so you can do further research on them if required:

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Information	Results (16 of 121)	Hosts (3 of 3)	Ports (5 of 8)	Applications	Operating Systems (3 of 3)	CVEs (4 of 4)	Closed CVEs	TLS Certificates	Error Messages (8 of 8)	User Tags (0)					
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CVE							NVT				Hosts	Occurrenc	es Severi	ty ▼	
CVE-2009-3555							SSL/TI	S: Renegotiation MITM V	/ulnerability (CVE-2009-	3555)	1	1	5.8 (<mark>led</mark> ium)	
CVE-2011-1473	CVE-2011-509	4					SSL/TL CVE-2	S: Renegotiation DoS Vu 011-5094)	Inerability (CVE-2011-1	473,	1	2	5.0 (<mark>l</mark> edium)	•
CVE-2011-3389	CVE-2015-020	4					SSL/TI	S: Deprecated TLSv1.0 a	and TLSv1.1 Protocol De	tection	2	2	4.3 (fedium)	
CVE-1999-0524							ICMP 1	imestamp Reply Informa	ation Disclosure		2	2	2.1	(Low)	
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Click here to view the Corresponding Vulnerabilities

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CVE							NVT				Hosts	Occur	rences	Severit	y v	
CVE-2009-3555							SSL/TI	LS: Renegotiation MITM \	/ulnerability (CVE-2009-	3555)	1	1		5.8 (M	edium)	
CVE-2011-1473	CVE-2011-509	4					SSL/TI CVE-2	LS: Renegotiation DoS Vu (011-5094)	Inerability (CVE-2011-1	473,	1	2		5.0 (M	edium)	
CVE-2011-3389	CVE-2015-020	4					SSL/TI	LS: Deprecated TLSv1.0	and TLSv1.1 Protocol De	tection	2	2		4.3 (M	edium)	
CVE-1999-0524							ICMP 1	Timestamp Reply Informa	ation Disclosure		2	2		2.1 (Low)	
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Another object of note is the 'Download Filtered Report' button, which lours' like a downward facing arrow pointing into an open box.

Clicking this button will let you download your results into one of several formats. I recommend the .pdf format because it takes all the important information the scan found and formats it into an interactable .pdf file. It has a table of contents, which you can click on to navigate around the document.

Pictured below is where you go to download said reports and the drop down menu to select the PDFs, as well as an example of the report it generates:



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Another area of note is under the Assets tab under Hosts. This tab will show you a network map of your host topology which is color coded with their corresponding vulnerabilities' levels. Red is severe, orange is medium, blue is low, and gray is not vulnerable or not applicable. It will also





show you a list of scanned hosts, their IP address, their OS and the CVE severity level.

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10.1.5.0)				10.1.5.0	4p	4.8 (Medium)	Tue, Nov 7, 202 1:15 PM EST	3 ×	╔┎╓
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(Applied filt	er: sort-reverse=severity first=1 rows=	-100)				Greenbone Security A	ssistant (GSA) Copyright	: (C) 2009-2023 by G	reenbone AG, w	- 3 of 3 > >

A picture of the Assets -> Hosts tab and the results:

Further areas of interest are under SecInfo->NVTs, SecInfo->CVEs, Scans->Reports, Scans->Results and Scans->Vulnerabilities.

A picture of SecInfo -> NVTs





A picture of SecInfo -> CVEs

If you need to change the password from the GUI, you can do so by clicking the 'My Settings' icon in the upper right hand corner which looks like a person. Then click the edit settings button in the top left, which looks

like a page with a star on it. From here you can change several options in addition to the password like your timezone and how many rows OpenVAS should display at once when showing results. Click 'Save' to save changes. Pictured below is what it should look like.

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OpenVAS Baselining

Create a baseline by running your scans at least a few times. You can schedule your scans to run them at specific times. Once you have a few reports generated (around 3 - 5 for each target profile) look at the reports to see if the number of CVEs has changed. This will give you a good idea of what your baseline is.

gvm-check-setup command

Below is a screenshot of the gvm-check-setup command. Notice that the command has failed and notified you that the setup is not complete. When the setup is not good, it will tell you

exactly what commands to run. Keep in mind that the gvm-check-setup command must be ru...

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File Actions 5 Edit II View 9 Helpelp
(root@OpenVAS)-[~])esktop/ventoy-1.0.96 X kali@OpenVAS: ~/Desktop/ventoy-1.0.9
gvm-check-setup 22.5.0k.sh 1./dev/sdc
Slest completeness and readiness of GVM-22.5.0
OK: OpenVAS Scanner is present in version 22.7.5.
<pre>// OK: Notus Scanner is present in version 22.6.0.</pre>
m. https://www.ventov.net
Checking permissions of /var/lib/openvas/gnupg/*
OK: _gvm owns all files in /var/lib/openvas/gnupg
Nodel: 10K: scanners(db)address setting) is configured properly using the red
is-server socket: /var/run/redis-openvas/redis-server.sock
Style: HOK: 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 87063 NVTs
OK: NYT Correction in yvar/tib/openvas/products contains 67005 NYTS.
Checking that the obsolete redis database has been removed
Could not connect to Redis at /var/run/redis-openvas/redis-server.sock: No su
CN file or directory
Starting ospd-openvas service
All the Waiting for ospd-openvas services lostly
Double- OK: ospd-openväs service is active.
OK: ospd-OpenVAS is present in version 22.6.0.
Done OK: GVM Manager (gvmd) is present in version 22.9.0.
Step 3: Checking Certificates
partitle OK: GVM client certificate is valid and present as /var/lib/gvm/CA/cl
lentcert.pem.t is /dev/sucz mkfs fs:OK: Your GVM contificate infrastructure passed validation
Step 4: Checking data
Wait fo OK: SCAP data found in /var/lib/gvm/scap-data.
/dev/sd:OK::CERT0data found in /var/lib/gvm/cert-data.
Step/5: Checking Postgresql DB and user
OCCUPIENT OF THE OCCUPI
psql: error: connection to server on socket "/var/run/postgresql/.s.PGSQL.543
2" failed: No such file or directory
tilligits the server running locally and supportions on that socke
and octat ERROR: The Postgresql DB does not exist.
lorotono FIX: Run 'sudo runuser -u postgres /usr/share/gvm/create-postgresq l-database'
CORDER VALUE ADDRESSING ST.
Instable Ventoy to /dev/sdc/successfully/finished
Please follow the instructions marked with FIX above and run this
(kali@OpenVAS)-[~/Desktop/ventoy=1.0.96]

Below is an example of a good gvm-check-setup command

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r root@OpenVAS: /etc/postgresql/16/main
File Actions = Edit View Help p
La gvm-check-setup-/Desktop/ventoy-1.0.96 X kali@OpenVAS: ~/Desktop/ventoy-1.0.96 X
gvm-cneck-setup 22.5.0 Test completeness and readiness of GVM-22.5.0
Step 1: Checking OpenVAS (Scanner)
OK: Notus Scanner is present in version 22.7.5.
OK: Server CA Certificate is present as /var/lib/gvm/CA/servercert.pem.
Checking permissions of /var/LiD/openvas/gnupg/* OK: _gym owns all files in /var/LiD/openvas/gnupg
OK: redis-server is present
ok. scanner (ub_address setting) is contigured property using the redis-server socket: /var/ruh/redis-openvas/redis-server.sock OK: the mgt_server_uri is defined in /etc/openvas/openvas.conf
OK: _gym owns all files in /var/lib/openvas/plugins
OK: The notus directory /var/th/openvas/prugans contains 6/05 NVIS.
Checking that the obsolete redis database has been removed
OK. OK O OLU REUIS DB OK: ospi-openvas service is active.
OK: ospd-OpenVAS is present in version 22.6.0.
OK: GVM Manager (gvmd) is present in version 22.9.0.
Step 3: Checking Certificates
OK: Your GVM certificate in value and present as /var/lib/gvm/ca/clientcert.pem. OK: Your GVM certificate infrastructure passed validation.
Step 4: Checking data
UK: SCAP data found in /var/lib/gwm/scap-data.
Step 5: Checking Postgresql DB and user
nevnel v Kirvostgresąt version and derault port are UK. nevnel v Nevnel V IF8 libc en US.UTF-8 en US.UTF-8
16436 pg-gym 10 2200 f 22.6
Step 6: Checking Greenbone Security Assistant (GSA)
OK: Greenbone Security Assistant is present in version 22.06.0-git.
Step /: Checking it GVM services are up and running
partici Waiting for gymd service
UK: gymd service is active.
Crossing for goad service
Step 8: Checking few other requirements
No. 1919 OK: nmap is present.
ok. ssi-keygen round, LSC credential generation for Gwo/Linux Largets is likely to work. OK: nsis found, LSC credential package generation for Microsoft Windows targets is likely to work.
OK: xsltproc found.
WARKING. TOUR password pointy is emply. SUGGEST: Edit the /etc/gwm/pwplicy.conf file to set a password policy.
Step 9: Checking greenbone-security-assistant
It seems like your GVM-22.5.0 installation is OK.