Cybersecurity Operations

Mini-Project Guide

This guide provide step by step the deployment of a security solution Wazuh.



Wazuh, The Open-Source Security Platform.

Wazuh is a free, open source and enterprise-ready security monitoring solution for threat detection, integrity monitoring, incident response and compliance management.

Hardware requirements.

The following requirements have to be in place before the Wazuh VM can be imported into a host operating system:

- 1- The host operating system has to be a 64-bit system.
- 2- Hardware virtualization has to be enabled on the firmware of the host.
- **3-** A virtualization platform, such as VirtualBox, should be installed.

The Wazuh VM is configured with the following specifications:

CPU : 4 cores RAM : 8 GB Storage: 50 GB

1. Installation

1- Download the latest version of Wazuh from the link below: <u>https://documentation.wazuh.com/current/deployment-options/virtual-machine.html</u>

wazuh.	Platform Cloud Services Partners Blog Company \succ	Version 4.3 (current) 🔹
Search Q	I Installation alternatives / Virtual Machine (OVA) Click here to start the download	Edit on GitHub 🥒
Getting started	Virtual Machine (OVA)	ON THIS PAGE
Quickstart	Wazuh provides a pre-built virtual machine image in open Virtual Appliance (OVA) format. This can be directly imported	Hardware requirements
Installation guide	to VirtualBox or other OVA compatible virtualization systems. Take into account that this VM only runs on 64-bit	Import and access the
Installation alternatives	systems. It does not provide high availability and scalability out of the box. However, these can be implemented by using	virtual machine
 Virtual Machine (OVA) 	distributed deployment.	dashboard
Amazon Machine Images (AMI)	Download the virtual appliance (OVA), which contains the following components:	Configuration files
Deployment on Docker	CentOS 7	VirtualBox time configuration
Deployment on Kubernetes	• Wazuh manager 4.3.8	Upgrading the VM
Offline installation	• Wazuh indexer 4.3.8	
Installation from sources	• Filebeat-OSS 7.10.2	
Installing Wazuh with Elastic Stack basic license	Wazuh dashboard 4.3.8	

2- Download the latest version of VirtualBox from the link below: https://www.virtualbox.org



Then click on "Windows hosts" to start the download.



3- After the installation, launch VirtualBox and click on Import.



4- Then click on the icon to select the OVA VM previously downloaded.

Importer un appareil virtuel

Appareil virtuel à importer

Please cho from.	oose the source to import appliance from. This can be a local file system to import OVF archive or one of known cloud service providers to import cloud	VM
Source:	Local File System	•
Please cho continue, s	oose a file to import the virtual appliance from. VirtualBox currently supports importing appliances saved in the Open Virtualization Format (OVF). To select the file to import below.	
Fichier :		
	Click here	

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5- Select the OVA VM and click open.

💱 Veuillez choisir un fic	hier d'appareil virtuel à importer		×
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> 🦲 OneDrive - Person	✓ Aujourd'hui (1)		
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> 🕖 Musique	✓ Plus tôt cette semaine (3)		
> 🛓 Téléchargement		_	
> 🚺 Vidéos			
> 🏪 OS (C:)			
> 🛲 Disque local (D:			
Nor	n du fichier : wazuh-4.3.8.ova	~	Open Virtualization Format (*.o' $ \sim $

6- Then, click on Next, and you should see the configuration of the OVA VM. Click on Import

← Importer un appareil virtuel

Paramètres de l'appareil virtuel

Voici les machines virtuelles décrites dans l'appareil virtuel et les paramètres suggérés pour les machines importées. V	/ous pouvez en changer certains en double-
cliquant dessus et désactiver les autres avec les cases à cocher.	

Systèm	ne virtuel 1				
- 😽	Nom	Wazuh v4.3.8 OVA 1			
F	Produit	Wazuh v4.3.8 OVA			
F	URL du produit	https://packages.wazuh.com/vm/wazuh-4.3.8.ova			
F	Vendeur	Wazuh, inc <info@wazuh.com></info@wazuh.com>			
P	URL du vendeur	https://wazuh.com			
F	Version	4.3.8			
F	Description	Wazuh helps you to gain security visibility into your infrastructure by monitoring hosts at an operating sys			
	Système d'exploitation invité	🔯 Linux 2.6 / 3.x / 4.x (64-bit)			
	Processeur	4			
	Mémoire vive	8192 MB			
	Disquette				
•	DVD				
	Carte réseau	Serveur Intel PRO/1000 MT (82545EM)			
~ 🔷	Contrôleur de stockage (IDE)	PIIX4			
	Disque virtuel	wazuh-4.3.8-disk-1.vmdk			
\diamond	Contrôleur de stockage (IDE)	PIIX4			
	Dossier de base	D:\Virtualbox			
1	Groupe primaire	1			
Mac	chine Base Folder: 📒 C:\Users\N	abil\VirtualBox VMs 🗸 🗸			
Politique	e d'adresse MAC : Inclure uniquem	ient les adresses MAC de l'interface réseau NAT 🔹			
Options	Options supplémentaires : 🔽 Importer les disques durs comme VDI				
L'appareil n'est pas signé					
		Values are differed			
		Valeurs par defaut Importer Annuler			

7- Now, you should see that your VM has successfully imported. Click on start to start the machine.



2. Getting started with Wazuh.

1- The first thing to do, is to login using those credentials:

Username: wazuh-user

Password: wazuh



2- The CLI interface will be used for the beginning for basic configuration. However, the GUI will be used for the rest of deployment.

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It is recommended to fix the IP address of the Wazuh Manager. You can configure a static IP address by modifying "ifcfg-eth0" using the following command:
 sudo vi /etc/sysconfig/network-scripts/ifcfg-eth0

[wazuh-user@wazuh-server ~]\$ sudo vi /etc/sysconfig/network-scripts/ifcfg-eth0

4- By default, the server gets an IP address from a DHCP server, so the config should be like this.



5- Press the " i " button and edit the config file: Change the BOOTPROTO value from dhcp to none Add those lines under NM_CONTROLLED=no :

> PREFIX=24 IPADDR=<your IP address> GATEWAY=<your gateway> DNS1=8.8.8.8

And now your config file should look like this:



6- Press " ESC " button:



Press " : " button:



Then type, " **wq** " to save and quit.

 7- Then you need to restart the network service using the following command: sudo systemctl restart network

You will be asked to enter your password "**wazuh**", do it and press enter.



8- The last step is to ensure that the IP has successfully assigned. Use the command: ip a



3. GUI interface Access

1. Navigate to your Web browser and type: https://<your-IP-address>

You should see a warning like this, don't worry it's only because you don't have a certificate, click on Advanced settings, and click on: Continue.

Erreur liée à la confidentialité × +	
← → C ▲ Non sécurisé https://172.16.40.200	
	Votro connexion plast pas privée
	votre connexion n'est pas privee
	Des individus malveillants tentent peut-être de subtiliser vos informations personnelles sur
	exemple). En savoir plus
	NET::ERR_CERT_AUTHORITY_INVALID
	Q Pour bénéficier du niveau de sécurité le plus élevé de Chrome, activez la
	protection renforcée
	Masquer les parametres avances
	Impossible de vérifier sur le serveur qu'il s'agit bien du domaine 172.16.40.200, car son
	certificat de sécurité n'est pas considéré comme fiable par le système d'exploitation de
	votre ordinateur. Cela peut être dû à une mauvaise configuration ou bien à l'interception de votre connexion par un pirate informatique
	Continuer vers le site 172.16.40.200 (dangereux)

2. Now you are in the Wazuh GUI interface. You should sign in with those credentials:

Username: **admin**

WCIZUD. The Open Source Security Platform	
▲ admin ••••• ••••• •••••	
Log in	

This is the **Wazuh Manager** home page.

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← → C 🚺 Non sécurisé https://172.16.40.20	0/app/wazuh#/overview/?_g=(filters:!(),refreshlr	nterval:(pause:!t,value:0),time:(fro	m:now-24h,to:now))&_a=(columns:!(_sc	ource),filters:!(),index:'wazuh-al 🖻 🛧 🚺	• 🗉 🖪 i
					Ø 💿
≡ wazuh. ∨ Modules					
Total ager O	ts Active agents	Disconnected agents	Pending agents	Never connected agents	
▲ No agents were added to this manager. Add				AND POLICY MONITORING	
Security events Browse through your security alerts, identifying issues and threats in your environment.	Alerts related to file changes, includin permissions, content, ownership and	ng attributes.	Policy monitoring Verity that your systems are configured according to your security policies baseline.	System auditing Audit users behavior, monitoring execution and alerting on acces	g command is to critical files.
		Ð	Security configuration assessmer Scan your assets as part of a configuration assessment audit.	nt	
	TION AND RESPONSE		REGUL	ATORY COMPLIANCE	

3. The next step is to add agents in other VMs or Physical machines that already have successful connectivity with the Wazuh Manager:

A. Deploy a Windows Wazuh Agent:

1.Choose the operating system-->Windows2.Wazuh server address-->ex: 172.16.40.2003.Assign the agent to a group-->default

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← → C ▲ Non séc	irisé https://172.16.40.200/app/wazuh#/agents-preview/?_g=(filters:!()			😒 🔺 🗊 🗖 😩 🗄
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≡ wazuh.∨	Agents			
	Deploy a new agent		C' Refresh	
	1 Choose the Operating system			
	Red Hat / CentOS Debian / Ubuntu	Windows MacOS		
	2 Wazuh server address			
	This is the address the agent uses to comm name (FQDN).	nicate with the Wazuh server. It can be an IP address or a	fully qualified domain	
	172.16.40.200			
	3 Assign the agent to a group			
	Select one or more existing groups			
	default ×	© ~		
	4 Install and enroll the agent			

Note: you can create multiple groups, and assign each host to the appropriate one.

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			¢ (
≡ wazuh. ∨ Agents				
4	Install and enroll the agent			
	You can use this command to install and enroll the Wazuh agent in one or more hosts.			
	If the installer finds another Wazuh agent in the system, it will upgrade it preserving the configuration.			
	Requirements You will need administrator privileges to perform this installation. PowerShell 3.0 or greater is required. Keep in mind you need to run this command in a Windows PowerShell terminal.			
	<pre>Invoke-WebRequest -Uri https://packages.wazuh.com/4.x/windows/wazuh-agent-4.3.8-1.msi -OutFile \${env:tmp}\wazuh-agent-4.3.8.msi /q WAZUH_MANAGER='172.16.40.200' WAZUH_REGISTRATION_SERVER='172.16.40.200' WAZUH_GENT_GROUP='default'</pre>			
3	Start the agent			
	NET START WazuhSvc			

4.Install and enroll the agent

You need to execute the provided commands in the windows hosts using PowerShell terminal (run as administrator), and do not forget to start the wazuh agent with the command: "**NET START WazuhSvc** "



Going back to the Wazuh Manager home page, we can see our new agent is successfully deployed, and its state is: Active.

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	Total agents	Active agents	Disconnected agents	Pending agents	Never connected agents	
	1	1	0	0	0	
	SECURITY INFORM	ATION MANAGEMENT		AUDIT	TING AND POLICY MONITORING	
8	Security events Browse through your security alerts, identifying issues and threats in your environment.	Alerts related to file changes, incl permissions, content, ownership	luding and attributes.	Policy monitoring Verify that your systems are configured according to your security policies based	System auditing Audit users behavior, monit execution and alerting on a	toring command ccess to critical files.
			ھ	Security configuration assess Scan your assets as part of a configurat assessment audit.	isment ation	
	THREAT DETECT	ION AND RESPONSE		R	REGULATORY COMPLIANCE	
(• ;	Vulnerabilities Discover what applications in your environment are affected by well-known vulnerabilities.	MITRE ATT&CK Security events from the knowled adversary tactics and techniques unritid observations	Ige base of based on real-	PCI DSS Global security standard for entities that store or transmit payment cardholder da	at process, stata. Nist atta Special Publication 800-53 outdelines for federal inform	rds and Technology (NIST 800-53) sets nation systems

Click on the Active agent to see more details about it.

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r or s	earch agent										් Re
ents	(1)							(Deploy new agent	🕁 Export f	ormatted
\uparrow	Name	IP	Group(s)		OS	Cluster node	Version Registra	tion date	Last keep alive	Status	Ac
		172 16 40 2	default		Microsoft Window	s 1 node01	v4.3.8 Sep 22	2022 @	Sep 22, 2022 @	active	0

B. Deploy a Linux Wazuh Agent:

Add new agents

- 1. Choose the operating system --> linux (choose either Debian or RedHat distribution)
- 2.Choose the architecture 3.Wazuh server address
- --> x86_64 --> 172.16.40.200
- 4. Assign the agent to a group

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>	defau	ılt	

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		•
Wazuh. V Agents		
	Deploy a new agent × close	
	1 Choose the Operating system	
	Red Hat / CentOS Deblan / Ubuntu Windows MacOS	
	2 Choose the architecture	
	1396 x86,64 armhf aarch64	
	3 Wazuh server address	
	This is the address the agent uses to communicate with the Wazuh server. It can be an IP address or a fully qualified domain name (FQDN).	
	172.16.40.200	
	Assign the agent to a group	
	Select one or more existing groups	
	default × 🛛 🔘 🗸	

5- Install and enroll the agent

You should use the provided commands to install Wazuh agent in the Debian distro hosts.

6.Start the agent

After installing the agent and starting the service, we can see the Linux agent is added.

Active (2) Disconnected (0) Pending (0) Never connected (0) Pending (0) Never connected (0) Never connected (0) Never connected (0) Never connected (0) Rast registered agent ict-vm DESKTOP-0V973IA tus=active × Filter or search agent Constant of the search agent C	Active Disconnected Pending Never connected Agents coverage 0.8- 2 0 0 0 100.00% gr 0.8- Last registered agent Most active agent 0.2-	Last 24 h
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ents (2) Export form		CR
↑ Name IP Group/s) OS Cluster node Version Registration date Last keep alive Status	Group(s) OS Cluster node Version Registration date Last keep alive Status	natteu

4. Security Configuration Assessment – SCA

SCA performs scans to discover exposures or misconfigurations in monitored hosts. Those scans assess the configuration of the hosts using policy files that contain rules to be tested against the actual configuration of the host.

For example, SCA could assess whether it is necessary to change password related configuration, remove unnecessary software, disable unnecessary services, or audit the TCP/IP stack configuration.

Wazuh is distributed with a set of policies, most of them based on the **CIS benchmarks**, a well-established standard for ensuring **Compliance Management**.



A summary is shown in the main page of SCA. For more details you can click on CIS benchmark.

≡ waz	UN. \checkmark / Modules / ict-vm / Security configuration assessment \odot							
Inventory	Events				ଏଡ଼ି ict-vm (002)	Ţ.		
< CI	S benchmark for Ubuntu	Linux 22.04 LTS based on CIS bench	mark for Ubuntu Linux 20.04 LTS. 0		④ Export formatted C' Refresh			
	Pass 53	Fail 105	Not applicable 33	Score 33%	End scan Sep 22, 2022 @ 05:20:15.000			
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미 个	Title		Target		Result			
28500	Ensure mounting of cramfs	filesystems is disabled.	Command: modprobe -n -v cramfs	3	• Failed V			
28501	Ensure mounting of freevxfs	s filesystems is disabled.	Command: /sbin/modprobe -n -v f	reevxfs	• Failed V			
28502	Ensure mounting of jffs2 file	esystems is disabled.	Command: /sbin/modprobe -n -v jt	ffs2	• Failed V			
28503	Ensure mounting of hfs files	systems is disabled.	Command: /sbin/modprobe -n -v h	nfs	• Failed 🗸			
28504	Ensure mounting of hfsplus	filesystems is disabled.	Command: /sbin/modprobe -n -v h	nfsplus	• Failed 🗸			
28505	Ensure mounting of udf files	systems is disabled.	Command: /sbin/modprobe -n -v u	ıdf	• Failed 🗸			
28506	Ensure /tmp is configured.		Command: mount		• Failed 🗸			

This is an example of SCA for the Linux machine. You can open each control to see the whole description about it, the risk behind, the remediation...

5. Customizing SCA interval scan.

We can customize SCA options by clicking on the Management > Configuration



And then Edit the configuration.

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		Ø a
WOZUh. \sim / Management / Configuration		
Configuration Main configurations		C Refresh 🖉 Edit configuration
Name	Description	
Global Configuration	Global and remote settings	
Cluster	Master node configuration	
Registration Service	Automatic agent registration service	

Scroll down until you see SCA section, edit the interval value to be 5m (for example), and make sure that scan on start is enabled: " yes ", Save and restart the manager.

96	
97 -	<sca></sca>
98	<pre><enabled>yes</enabled></pre>
99	<pre><scan_on_start>yes</scan_on_start></pre>
100	<pre><interval>5m</interval></pre>
101	<skip_nfs>yes</skip_nfs>
102	
4.0.5	

6. Vulnerability Management

To be able to detect vulnerabilities, agents can natively collect a list of installed applications (System inventory), sending it periodically to the manager. Also, the manager builds a global vulnerability database from publicly available CVE repositories.

Vulnerability detector is enabled by default, but only Windows system that can be scanned, so we need to enable vulnerability detector for the other systems we need to scan.

To do that we will go edit the config file in: Management > Configuration (as shown in previous section), scroll down until you see vulnerability detector section.

Enable each system you want by modifying the value <enabled> by yes.

You can also edit the interval of time between scans, the interval of doing update...

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104 - 105 106 107 108 109 110 111 - 112 113 114 115 116 117 118 119 120	<pre><vulnerability-detector> <enabled>yes</enabled> <interval>5m</interval> <min_full_scan_interval>3h</min_full_scan_interval> <run_on_start>yes</run_on_start> <!-- Ubuntu OS vulnerabilities--> <provider name="canonical"> <enabled>yes</enabled> <os>trusty</os> <os>trusty</os> <os>bionic</os> <os>focal</os> <os>jammy</os> <update_interval>1h</update_interval> </provider> </vulnerability-detector></pre>	

To see vulnerabilities of a particular agent we need to select the agent and click on vulnerabilities section.

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WIN-PFHBNQ17 Security events	Integrity monitoring	SCA Vulnerabilitie	s MITRE ATT&CK	More 🗸		ର୍ Inven	tory data 🛛 🛃 Stats	s @ (Configuration
ID Status 003 eactive	IP 172.16.40.250	Version Gro Wazuh v4.3.8 d	oups efault	Operating system Microsoft Windows	Cluster node node01	Registration Sep 22, 202	date Las 2 @ 05:31:01.000 Sep	t keep alive 22, 2022 @	05:49:30.000
								Last	24 hours \sim
MITRE	Complia	ance	ci dss 🗸 🗸	FIM: Recent events	;				Ľ
Top Tactics			11.2.1 (1589)	Time \downarrow	Path	Action	Rule description	Rule Le	Rule Id
Defense Evasion	15		11.2.3 (1589)	Sep 22, 2022 @ 05:33:22.318	HKEY_LOCAL_MAC	modified	Registry Value Integri	5	750
Impact Initial Access	11		2.2 (336) 2.2.5 (52)	Sep 22, 2022 @ 05:33:22.302	HKEY_LOCAL_MAC	modified	Registry Value Integri	5	750
Persistence Privilege Escalation	3		4.1 (38)	Sep 22, 2022 @ 05:33:22.287	HKEY_LOCAL_MAC	modified	Registry Value Integri	5	750
· · · · · · · · · · · · · · · · · · ·				Sep 22, 2022 @ 05:33:22.275	HKEY_LOCAL_MAC	modified	Registry Key Integrit	5	594
				Sep 22, 2022 @ 05:33:22.257	HKEY_LOCAL_MAC	modified	Registry Value Integri	5	750

As we can see this agent have the following vulnerabilities.

SEVERITY		DET	AILS		SUMMARY	
 Critical (51) High (1168) Medium (364) Low (6) 	Critical 51 Last Sep 22, 2022	High 1168 full scan @ 05:33:15.000	Medium 364 Last part	Low 6 ial scan	Nam Windows Server	e V

You can also check the Log management section, you can enable File Integrity Monitoring, and also integrate VirusTotal...

Good luck.