

# **Wazuh**

aaayushforinfosec

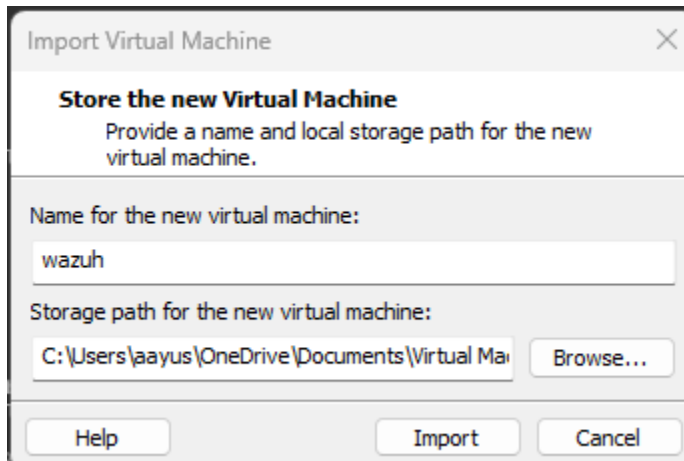
# Index

Setting up Wazuh on Virtual Machine (OVA).....	3
Setting up an agent on the endpoint.....	6

aayushforinfosec

# Setting up Wazuh on Virtual Machine (OVA)

1. First download the [OVA file](#).
2. Open and import the ova file in Virtual Box and set up a name and location where you need your data to be stored.



3. Boot in the virtual machine using following credentials:

```
Welcome to the Wazuh OVA version
Wazuh - 4.5.2
Login credentials:
  User: wazuh-user
  Password: wazuh

wazuh-server login:
```

**User: wazuh-user Password: wazuh**

4. Set VM setting as follows

Device	Summary
Memory	8 GB
Processors	4
Hard Disk (IDE)	50 GB
CD/DVD (IDE)	Using unknown backend
Floppy	Using drive A:
Network Adapter	Bridged (Automatic)
Display	Auto detect

5. After logging in you will get the following screen

```

      WAZUH Open Source Security Platform
      https://wazuh.com

[Wazuh-user@wazuh-server ~]$
```

6. Check for the ip address of the server using command “ip a”

```

      WAZUH Open Source Security Platform
      https://wazuh.com

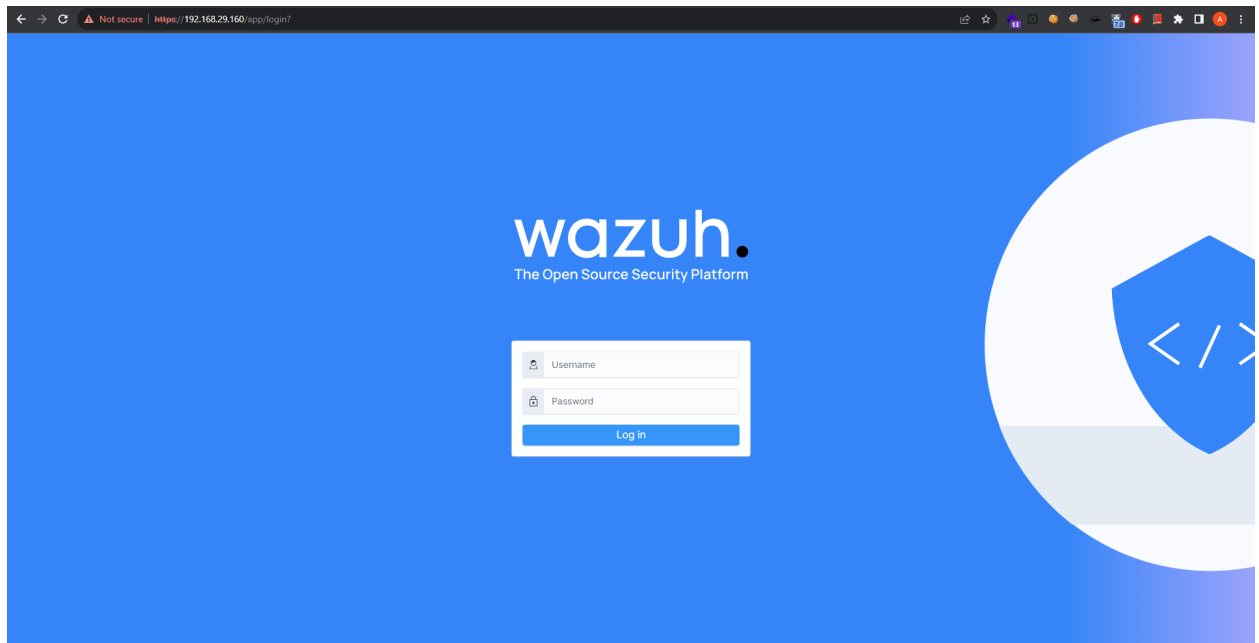
[Wazuh-user@wazuh-server ~]$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 00:0c:29:b3:22:4d brd ff:ff:ff:ff:ff:ff
    inet 192.168.29.160/24 brd 192.168.29.255 scope global dynamic eth0
        valid_lft 86036sec preferred_lft 86036sec
    inet6 2405:201:1c:611f:20c:29ff:feb3:224d/64 scope global dynamic mngtmpaddr
        valid_lft 4170sec preferred_lft 4170sec
    inet6 fe80::20c:29ff:feb3:224d/64 scope link
        valid_lft forever preferred_lft forever
[Wazuh-user@wazuh-server ~]$
```

- Hit the browser with the following URL to check if wazuh is up.

**https://<wazuh\_server\_ip>**

In our case it will be <https://192.168.29.160>

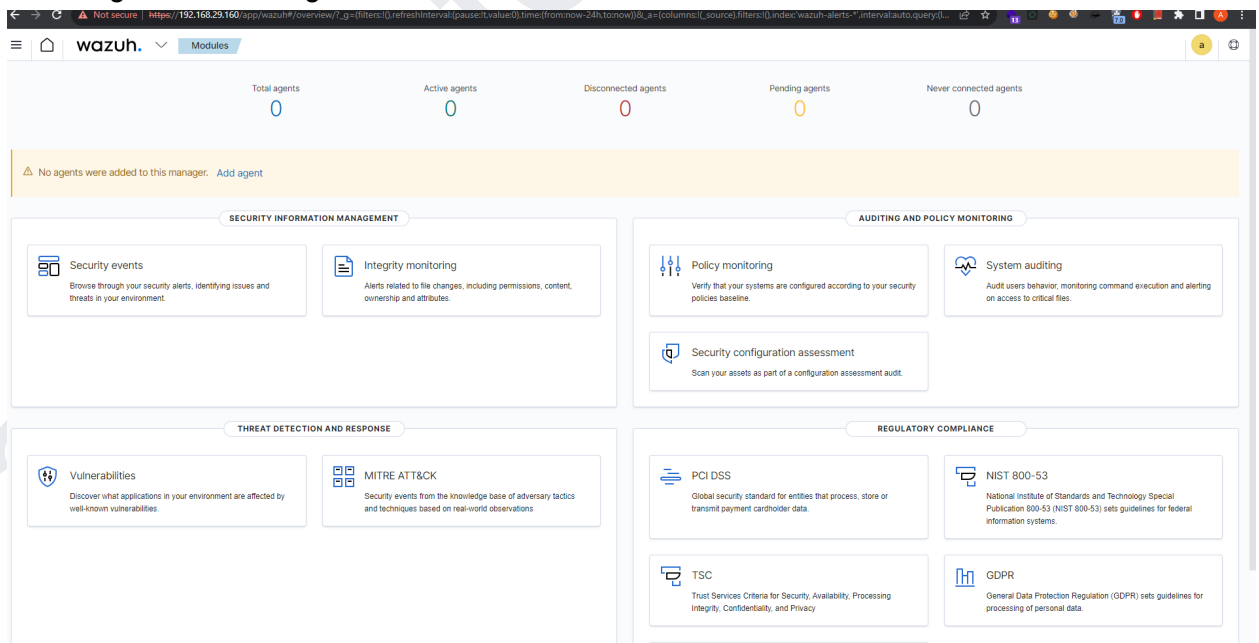
You will get the following web page



- Use the default credentials to login

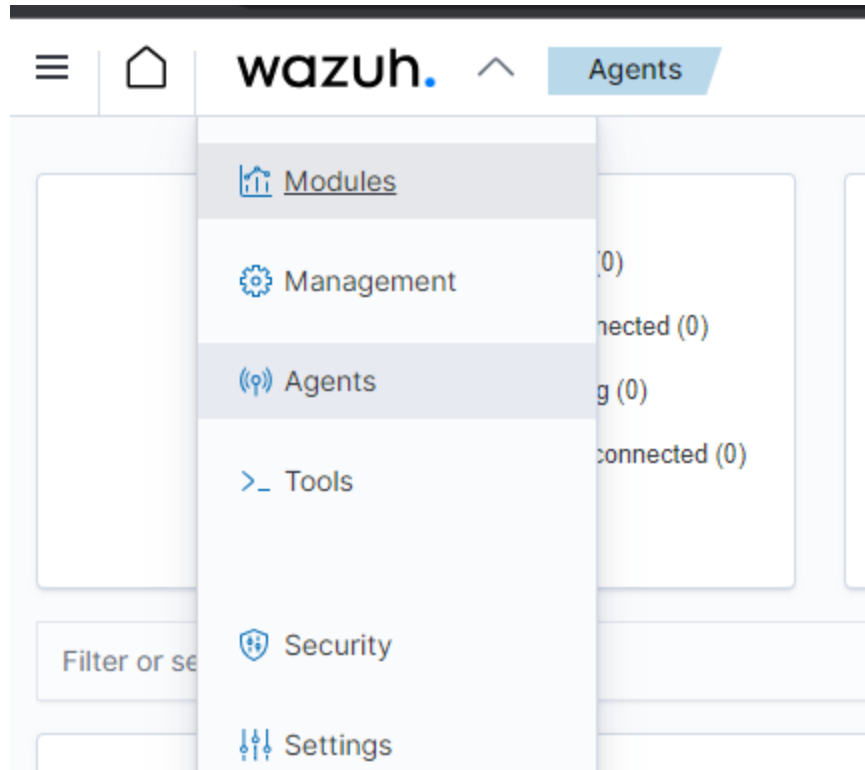
**User: admin Password: admin**

- You will get the following console:

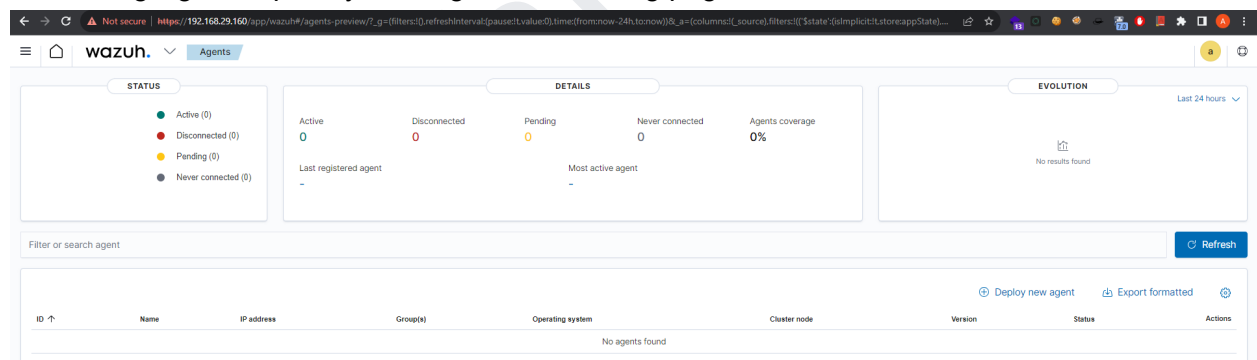


# Setting up an agent on the endpoint.

Once you login into the wazuh dashboard you can add agents:



On clicking Agents option you will get the following page:



Click on “Deploy new agent” option:

You will get the below screen.

The screenshot shows the 'Deploy a new agent' form in the Wazuh web interface. The form is divided into four numbered steps:

- 1 Choose the operating system**: This step contains five buttons for different operating systems: 'Red Hat Enterpris...', 'CentOS', 'Ubuntu', 'Windows', and 'macOS'. Below these buttons is a link that says '> Show more'.
- 2 Wazuh server address**: This step includes a text input field labeled 'Server Address'. Above the field, a note states: '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).'.
- 3 Optional settings**: This step contains two sections. The first is 'Assign an agent name', which has a text input field labeled 'Agent name' and a yellow warning box below it that says 'ⓘ The agent name must be unique. It can't be changed once the agent has been enrolled.' The second section is 'Select one or more existing groups', which features a dropdown menu labeled 'Select group'.
- 4 Install and enroll the agent**: This is the final step in the process.

The Wazuh logo and 'Agents' tab are visible in the top navigation bar. A 'Refresh' button is located in the top right corner of the form area.

Select the required options. For our case the configuration will look like this:

Deploy a new agent

Refresh

1

Choose the operating system

Red Hat Enterpris...

CentOS

Ubuntu

Windows

macOS

> Show more

2

Choose the version

Windows XP

Windows Server 2...

Windows 7 +

3

Choose the architecture

i386/x86\_64

4

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).

192.168.29.160

5

Optional settings

The deployment sets the endpoint hostname as the agent name by default. Optionally, you can set the agent name below.

Assign an agent name

windows11



At last wazuh will generate a command which needs to be run with admin privileges to install and start the agent:

## 6 Install and enroll the agent

You can use this command to install and enroll the Wazuh agent.

④ If the installer finds another Wazuh agent in the system, it will upgrade it preserving the configuration.

### ④ 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.

```
Invoke-WebRequest -Uri https://packages.wazuh.com/4.x/windows/wazuh-agent-4.5.2-1.msi -OutFile ${env:tmp}\wazuh-agent.msi; msixec.exe /i ${env:tmp}\wazuh-agent.msi /q WAZUH_MANAGER='192.168.29.160' WAZUH_REGISTRATION_SERVER='192.168.29.160' WAZUH_AGENT_GROUP='default' WAZUH_AGENT_NAME='windows11'
```

## 7 Start the agent

### NET

NET START Wazuh

To verify the connection with the Wazuh server, please follow this [document](#).

Open powershell with admin permissions and insert the command as shown in wazuh:

```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\WINDOWS\system32> Invoke-WebRequest -Uri https://packages.wazuh.com/4.x/windows/wazuh-agent-4.5.2-1.msi -OutFile $
(env:tmp)\wazuh-agent.msi; msixec.exe /i $(env:tmp)\wazuh-agent.msi /q WAZUH_MANAGER='192.168.29.160' WAZUH_REGISTRATION
N_SERVER='192.168.29.160' WAZUH_AGENT_GROUP='default' WAZUH_AGENT_NAME='windows11'
```

Start the agent:

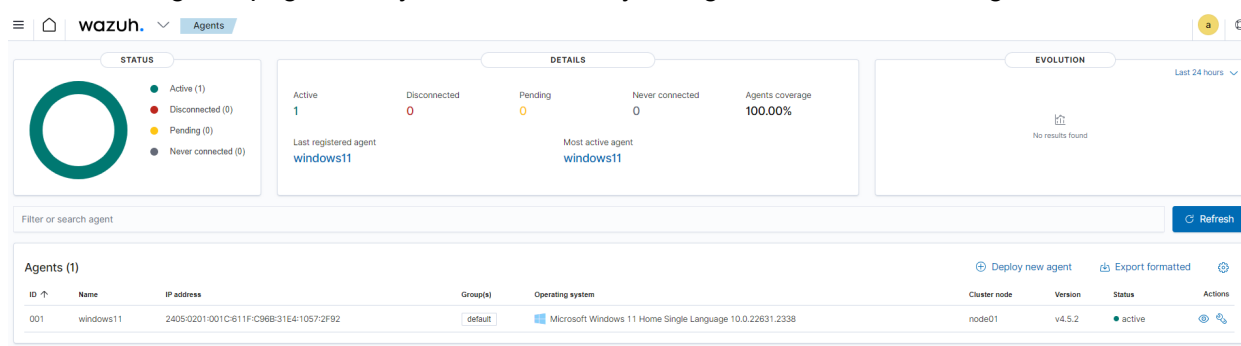
```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\WINDOWS\system32> Invoke-WebRequest -Uri https://packages.wazuh.com/4.x/windows/wazuh-agent-4.5.2-1.msi -OutFile $
(env:tmp)\wazuh-agent.msi; msixec.exe /i $(env:tmp)\wazuh-agent.msi /q WAZUH_MANAGER='192.168.29.160' WAZUH_REGISTRATION
N_SERVER='192.168.29.160' WAZUH_AGENT_GROUP='default' WAZUH_AGENT_NAME='windows11'
PS C:\WINDOWS\system32> NET START Wazuh

The Wazuh service was started successfully.
PS C:\WINDOWS\system32>
```

Go back to agents page there you can see that your agent is live and running:



Till now, we have seen how to set up wazuh and install agent.

Later we will cover every feature of the wazuh.