

Integrated Network & Host Monitoring for Enterprise Web Infrastructure: A VM-based SOC Lab(Guide)

The steps implemented in this Guide:

- 1.Different OS setup in the VM (kali-linux,ubuntu,windows 10, windows server,linux-server,cloud server).
- 2. Making the Central SIEM Manger into Bridge Mode for Network logs (Ubuntu).
- 3.Seting Up the Network based IDS(snort) on Central SIEM Manger(Ubuntu).
- 4.In the Central SIEM Manger setup wazuh-Manger(Ubuntu).
- 5.Setup of wazuh in the different OS to forward the logs (kali-linux,window-10,windows-server,cloud serve,linux-server).
- 6. Make detection rules in the central SIEM.
- 7. Simluating the attacks to check the detection rules are working and making a ticket in the slack

Step-1:

Different OS setup in the VM (kali-linux,ubuntu,windows 10, windows server,linux-server,cloud server).

- Kali-Linux os (https://www.kali.org/get-kali/#kali-virtual-machines)
- Ubuntu OS (https://ubuntu.com/download/desktop)
- Windows-10 os(https://www.microsoft.com/en-in/software-download/windows10)
- Windows-server 2022
 (https://www.microsoft.com/en-us/evalcenter/evaluate-windows-server-2022)
- Kali-linux server os (https://www.kali.org/get-kali/#kali-virtual-machines)

Youtube Guide

- How to Create a Windows 11 Virtual Machine With VMware YouTube
- How to install Ubuntu Linux (Desktop) in VMware Workstation YouTube
- Installing Kali on VMware YouTube

2.How To Enable Promiscuous Mode In Vmware Workstation(Ubuntu)

Promiscuous mode is a network interface card (NIC) mode where the card passes all traffic it receives to the CPU rather than only frames addressed to it. This is commonly used in network analysis and monitoring applications, allowing tools to inspect all traffic on the network segment. In VMware Workstation, enabling promiscuous mode can be essential for certain tests, penetration testing practices, use of network sniffers, or learning environments involving network traffic analysis. This detailed guide provides step-by-step instructions on enabling promiscuous mode in VMware Workstation.

Step-by-Step Guide: Enabling Promiscuous Mode Step 1: Accessing VM Settings

- 1. **Open VMware Workstation:** Launch the VMware Workstation application on your host machine.
- 2. **Select the Virtual Machine:** In the VMware Workstation interface, click on the virtual machine for which you want to enable promiscuous mode.
- 3. **Power Off the VM:** If the VM is currently running, you must power it off first. Promiscuous mode cannot be enabled while the VM is active.

4. **Open Settings:** Right-click on the VM and select "Settings," or from the VM menu, click on "Edit Virtual Machine Settings."

Step 2: Configuring the Network Adapter

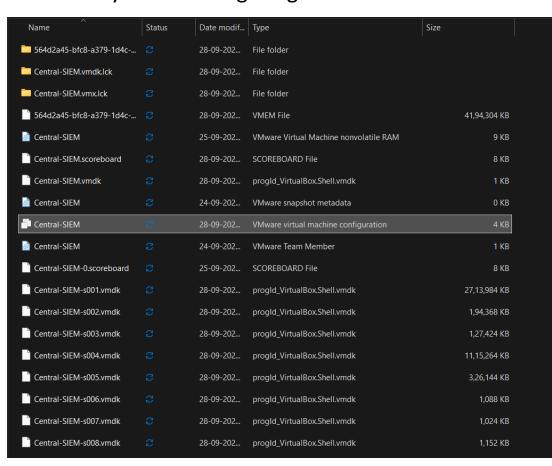
- 1. **Select the Network Adapter:** In the virtual machine settings window, find and click on the "Network Adapter" option. Here, you will see settings related to the network for the virtual machine.
- 2. **Change Network Connection Type:** Ensure that the network connection type is set appropriately:
 - For promiscuous mode to take effect, the virtual network adapter should typically be set to "Bridged" or "Host-only" mode.
 - If set to "NAT," promiscuous mode will not work effectively since NAT configurations isolate VM traffic.
- 3. **Enable Promiscuous Mode:** Depending on your version of VMware Workstation, you may have an option labeled "Promiscuous Mode" within the settings of the network adapter:
 - If this option is available, slide the control to "Allow All" or "Allow VMs," depending on your needs:
 - Allow All: All traffic to and from the network adapter will be captured.
 - Allow VMs: Only traffic to and from VMs running on the same host will be captured.

 If the option is not directly available, we will manually modify the configuration files in the next steps.

Step 3: Editing The VMX File (if applicable)

1. Locate the VM's .vmx File:

The .vmx file contains configuration settings for your virtual machine. To locate it, open the file system, navigate to your virtual machine's directory, and find the .vmx file corresponding to the VM you are configuring.



2. Edit the .vmx File:

 Open the .vmx file in a text editor (you may need to run the editor as an administrator).

3. Add the Promiscuous Mode Setting:

Add the following line to the bottom of the file:

ethernet0.promiscuous = "allow"

```
File Edit View

vmotion.svga.logicBlendOps = "0"

vmotion.svga.logicBlendOps = "16"

vmotion.svga.gla3 = "1"

ethernet0.generatedAddressOffset = "0"

vmci0.id = "-576996265"

monitor.phys_bits_used = "45"

cleanShutdown = "FALSE"

softPowerOff = "FALSE"

usb:1.present = "TRUE"

usb:1.present = "TRUE"

usb:1.deviceType = "hub"

usb:1.parent = "-1"

usb:0.present = "TRUE"

usb:0.present = "TRUE"

usb:0.deviceType = "hid"

usb:0.present = "-1"

usb:0.present = "-1"
```

 This line instructs VMware to allow promiscuous mode for the first network adapter. If you have multiple network adapters, you may want to refer to them as ethernet1, ethernet2, etc.

Optional Verification via Command Line

You can also check if your interface is in promiscuous mode:

ip link show eth0(here your NIC name)

Look for the word PROMISC in the output. Example:

2: eth0: <BROADCAST,MULTICAST,PROMISC,UP,LOWER UP> ...

- PROMISC → Promiscuous mode is active.
- Missing → It is not enabled.

Force the interface into promiscuous mode

Run:

sudo ip link set eth0 promisc on

3.Seting Up the Network based IDS(snort) on Central SIEM Manger(Ubuntu).

1. Install Snort on Ubuntu

Run these commands as root or with sudo:

sudo apt update && sudo apt upgrade -y sudo apt install snort -y

During installation, it will ask for **network interface** \rightarrow choose the interface you want to monitor (e.g., eth0).

Check Snort version:

snort -V

Test Snort in IDS Mode

Run with default rules:

sudo snort -A console -q -c /etc/snort/snort.conf -i eth0

- A console → shows alerts on screen
- $-q \rightarrow quiet mode$
- -i eth0 \rightarrow interface

```
root@sec:/# namo /extc/snort/snort.comf
root@sec:/# namo /extc/snort/snort.comf
root@sec:/# namo /extc/snort/snort.comf
root@sec:/# snort -A.comsole -q. c. /extc/snort/snort.comf -l. ens33
99/79-17.88:24.667672 [**] [1:527:8] BAD-TRAFFIC same SRC/DST [**] [Classification: Potentially Bad Traffic] [Priority: 2] [IPV6-ICVP] :: > ff02::16
99/79-17.88:37.979604 [**] [1:527:8] BAD-TRAFFIC same SRC/DST [**] [Classification: Potentially Bad Traffic] [Priority: 2] [IPV6-ICVP] :: > ff02::16
99/79-17.88:37.979604 [**] [1:527:8] BAD-TRAFFIC same SRC/DST [**] [Classification: Potentially Bad Traffic] [Priority: 2] [IPV6-ICVP] :: > ff02::16
99/79-17.88:34.96935 [**] [1:142::11] SMMP request tep f**] [Classification: Potentially Bad Traffic] [Priority: 2] [IPV6-ICVP] :: > ff02::16
99/79-17.88:34.92.972356 [**] [1:142::11] SMMP request tep f**] [Classification: Attempted Information Leak] [Priority: 2] [IPV6-ICVP] :: > ff02::16.31.102:105
99/79-17.88:34.93.9312 [**] [1:1537:8] BAD-TRAFFIC same SRC/DST [**] [Classification: Potentially Bad Traffic] [Priority: 2] [IPV6-ICVP] :: > ff02::16.31.102:105
99/79-17.88:36.93.9312 [**] [1:527:8] BAD-TRAFFIC same SRC/DST [**] [Classification: Potentially Bad Traffic] [Priority: 2] [IPV6-ICVP] :: > ff02::16
99/79-17.88:36.93.9312 [**] [1:527:8] BAD-TRAFFIC same SRC/DST [**] [Classification: Potentially Bad Traffic] [Priority: 2] [IPV6-ICVP] :: > ff02::16
99/79-17.88:36.93.169917 [**] [1:527:8] BAD-TRAFFIC same SRC/DST [**] [Classification: Potentially Bad Traffic] [Priority: 2] [IPV6-ICVP] :: > ff02::16
99/79-17.88:36.93.169917 [**] [1:527:8] BAD-TRAFFIC same SRC/DST [**] [Classification: Potentially Bad Traffic] [Priority: 2] [IPV6-ICVP] :: > ff02::16
99/79-17.88:36.93.169917 [**] [1:527:8] BAD-TRAFFIC same SRC/DST [**] [Classification: Potentially Bad Traffic] [Priority: 2] [IPV6-ICVP] :: > ff02::16
99/79-17.88:36.93.169917 [**] [1:527:8] BAD-TRAFFIC same SRC/DST [**] [Classification: Potentially Bad Traffic] [Priority: 2] [IPV6-ICVP] :: > ff02::16
99/79-17.88:36.93.19917 [**] [1:527:8]
```

Check for video tutorial

snort-setup

4.In the Central SIEM Manger setup the ELK stack and wazuh-Manger (Ubuntu).

1. Wazuh manger setup (Do paste this steps according order)

Sudo apt install curl

```
root@sec:/# sudo apt install curl
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
  libgl1-amber-dri libglapi-mesa libllvm19
Use 'sudo apt autoremove' to remove them.
The following NEW packages will be installed:
0 upgraded, 1 newly installed, 0 to remove and 341 not upgraded.
Need to get 226 kB of archives.
After this operation, 534 kB of additional disk space will be used.
Get:1 http://in.archive.ubuntu.com/ubuntu noble-updates/main amd64 curl amd64 8.5.0-2ubuntu10.6 [226 kB] Fetched 226 kB in 3s (72.5 kB/s)
Selecting previously unselected package curl.
(Reading database ... 151385 files and directories currently installed.)
Preparing to unpack .../curl_8.5.0-2ubuntu10.6_amd64.deb ...
Unpacking curl (8.5.0-2ubuntu10.6) ...
Setting up curl (8.5.0-2ubuntu10.6) ...
Processing triggers for man-db (2.12.0-4build2) ...
```

Sudo apt install default-jdk -y

```
root@sec:/# sudo apt install default-jdk -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
libgl1-amber-dri libglapi-mesa libllvm19
         llogil-amber-off (logiapi-mesa (lolivmi)
se 'sudo apt autoremove' to remove them.
he following additional packages will be installed:
ca-certificates-java default-jdk-headless default-jre-headless fonts-dejavu-extra java-common libatk-wrapper-java libatk-wrapper-java-jni
libpthread-stubs0-dev libsn-dev libx11-dev libxau-dev libxdmcp-dev libxt-dev openjdk-21-jdk openjdk-21-jdk-headless openjdk-21-jre openjc
xorg-sgml-doctools xtrans-dev
libpthread-stubs0-dev libsn-dev libx11-dev libxau-dev libxcb1-dev libxdmcp-dev libxt-dev openjdk-21-jdk openjdk-21-jdk-neadless openjdk-21-jre openjdk xorg-sgml-doctools xtrans-dev

Suggested packages:
libice-doc libsn-doc libx11-doc libxcb-doc libxt-doc openjdk-21-demo openjdk-21-source visualvm fonts-ipafont-gothic fonts-ipafont-mincho fonts-wqy-n fonts-indic

The following NEW packages will be installed:
ca-certificates-java default-jdk default-jdk-headless default-jre default-jre-headless fonts-dejavu-extra java-common libatk-wrapper-java libatk-wrap libpthread-stubs0-dev libsn-dev libx11-dev libxau-dev libxcb1-dev libxdmcp-dev libxt-dev openjdk-21-jdk openjdk-21-jdk-headless openjdk-21-jre openjd xorg-sgml-doctools xtrans-dev

9 upgraded, 24 newly installed, 0 to remove and 341 not upgraded.

Need to get 135 MB of archives.

After this operation, 316 MB of additional disk space will be used.

Get:1 http://in.archive.ubuntu.com/ubuntu noble/main amd64 java-common all 0.75+exp1 [6,798 B]

Get:2 http://in.archive.ubuntu.com/ubuntu noble/main amd64 java-common all 0.75+exp1 [6,798 B]

Get:3 http://in.archive.ubuntu.com/ubuntu noble/main amd64 depault-jre-headless amd64 2:1.21-75-exp1 [3,994 B]

Get:5 http://in.archive.ubuntu.com/ubuntu noble-updates/main amd64 openjdk-21-jre amd64 2:1.21-75-exp1 [3,994 B]

Get:6 http://in.archive.ubuntu.com/ubuntu noble-updates/main amd64 openjdk-21-jdk-headless amd64 2:1.0.8+9-us1-0ubuntu1-24.04.1 [228 kB]

Get:7 http://in.archive.ubuntu.com/ubuntu noble-updates/main amd64 openjdk-21-jdk headless amd64 2:1.0.8+9-us1-0ubuntu1-24.04.1 [82.7 MB]

Get:9 http://in.archive.ubuntu.com/ubuntu noble/main amd64 default-jdk amd64 2:1.21-75-exp1 [960 B]

Get:10 http://in.archive.ubuntu.com/ubuntu noble/main amd64 default-jdk amd64 2:1.21-75-exp1 [960 B]

Get:11 http://in.archive.ubuntu.com/ubuntu noble/main amd64 default-jdk amd64 2:1.21-75-exp1 [960 B]

Get:11 http://in.archive.ubuntu.com/ubuntu noble/main amd64 default-jdk amd64 2:1.21-75-exp1 [960 B]

Get:12 http://in.archive.ubuntu.c
```

- (curl -sO https://packages.wazuh.com/4.13/wazuh-install.sh)
- bash wazuh-install.sh -a

```
bash wazuh-install.sh -a

29/09/2025 18:07:40 INFO: Generating Wazuh dashboard certificates.
29/09/2025 18:07:41 INFO: Created wazuh-install-files.tar. It contains the Wazuh cluster key, certificates, and passwords necessary for installation.
29/09/2025 18:07:41 INFO: Wazuh indexer ---
29/09/2025 18:07:41 INFO: Wazuh indexer installation.
29/09/2025 18:07:41 INFO: Wazuh indexer installation finished.
29/09/2025 18:16:02 INFO: Wazuh indexer installation finished.
29/09/2025 18:16:02 INFO: Wazuh indexer restrict wazuh-indexer.
29/09/2025 18:16:07 INFO: Wazuh indexer restrict security settings.
29/09/2025 18:16:07 INFO: Wazuh indexer service started.
29/09/2025 18:16:08 INFO: Initializing Wazuh indexer cluster security settings.
29/09/2025 18:16:08 INFO: Wazuh indexer cluster security configuration initialized.
29/09/2025 18:16:08 INFO: Wazuh indexer cluster security configuration initialized.
29/09/2025 18:16:09 INFO: Wazuh indexer cluster initialized.
29/09/2025 18:16:09 INFO: Wazuh manager installation.
29/09/2025 18:10:00 INFO: Wazuh manager installation.
29/09/2025 18:21:20 INFO: Wazuh manager vulnerability detection configuration finished.
29/09/2025 18:21:20 INFO: Wazuh manager service started.
29/09/2025 18:21:20 INFO: Wazuh manager service started.
29/09/2025 18:21:21 INFO: Wazuh manager service started.
29/09/2025 18:21:25 INFO: Starting filebeat installation.
29/09/2025 18:21:25 INFO: Starting filebeat installation.
29/09/2025 18:21:25 INFO: Starting service wazuh-manager.
29/09/2025 18:21:25 INFO: Wazuh dashboard installation.
29/09/2025 18:21:25 INFO: Wazuh dashboard installation finished.
29/09/2025 18:21:25 INFO: Wazuh dashboard installation finished.
29/09/2025 18:22:2
```

Starting of the Wazuh-magner

- sudo systemctl start wazuh-manager
- sudo systemctl start filebeat
- sudo systemctl start wazuh-dashboard
- sudo systemctl start wazuh-indexer

```
sec@sec:-$ sudo systemctl start wazuh-manager
[sudo] password for sec:
sec@sec:-$ sudo systemctl start wazuh-dashboard
sec@sec:-$ sudo systemctl start wazuh-indexer
sec@sec:-$ sudo systemctl start wazuh-indexer
wazuh-manager.service - Wazuh manager
wazuh-manager.service - Wazuh manager
Loaded: loaded (/usr/lib/systemd/system/wazuh-manager.service; enabled; pro
Active: active (running) since Wed 2025-10-01 23:55:06 IST; 1 day 16h ago
Tasks: 201 (limit: 4545)
Memory: 690.1M (peak: 1.6G swap: 258.1M swap peak: 321.1M)
CPU: 33min 9.795s
CGroup: /system.slice/wazuh-manager.service
- 12893 /var/ossec/framework/python/bin/python3 /var/ossec/api/scro-
- 12894 /var/ossec/framework/python/bin/python3 /var/ossec/api/scro-
- 12895 /var/ossec/framework/python/bin/python3 /var/ossec/api/scro-
- 12895 /var/ossec/framework/python/bin/python3 /var/ossec/api/scro-
- 12901 /var/ossec/bin/wazuh-authd
- 12959 /var/ossec/bin/wazuh-bathd
- 12959 /var/ossec/bin/wazuh-bathd
- 123134 /var/ossec/bin/wazuh-bathd
- 12325 /var/ossec/bin/wazuh-bathd
- 13134 /var/ossec/bin/wazuh-bathd
- 13222 /var/ossec/bin/wazuh-bathd
- 13225 /var/ossec/bin/wazuh-bathd
- 13225 /var/ossec/bin/wazuh-bathd
- 13225 /var/ossec/bin/wazuh-bathd
- 13277 /var/ossec/bin/wazuh-bathd
- 13277 /var/ossec/bin/wazuh-bathd
- 13277 /var/ossec/bin/wazuh-bathd
- 13277 /var/ossec/bin/wazuh-monitord
- 13278 /var/ossec/bin/wazuh-monitord
- 13279 /var/ossec/bin/wazuh-monitord
- 13270 /var/ossec/bin/wazuh-monitord
- 13271 /
```

Setup of the Wazuh Agent in different OS

 In Wazuh manger(Central SIEM) in the terminal add this command (sudo /var/ossec/bin/manage_agents)

Next in the manger of copy the agent key

- In the OS want to add the wazuh agent (Configure the Wazuh Agent as Edit the agent config file
- sudo nano /var/ossec/etc/ossec.conf

```
GNU nano 8.1

(!--
Wazuh - Agent - Default configuration for kali 2024.3
More info at: https://documentation.wazuh.com
Mailing list: https://groups.google.com/forum/#!forum/wazuh
-->
GNUMMARIAN CONTROLOMARIAN CONTROLOMARIA CONTROLOMARIA
```

Replace MANAGER_IP with your manager's IP

Example: if your Wazuh Manager is at 192.168.1.100

Save and exit

In nano: CTRL+O, then Enter, then CTRL+X

Restart the agent

sudo systemctl daemon-reexec sudo systemctl restart wazuh-agent sudo systemctl status wazuh-agent

On your **Kali (where the agent is installed)**, the logs are located in:

/var/ossec/logs/ossec.log

now the agent machine paste this command and import the agent key which (sudo /var/ossec/bin/manage_agents)

for other type of os refer this (wazuh-guide-endpoints)

Launching an EC2 Instance with Amazon Linux Prerequisites

- 1. **AWS Account** you need an AWS account with permission to create EC2 instances.
- 2. **IAM Permissions** ensure your IAM user has the necessary EC2, VPC, and KeyPair permissions.
- Region Selection choose an AWS region close to your user base to reduce latency.

Steps to Launch

1. Open EC2 Console

Go to the AWS Management Console \rightarrow Services \rightarrow EC2. Amazon Web Services, Inc.+1

2. Launch Instance Wizard

In the EC2 dashboard, click "Launch instance". AWS Documentation+2AWS Documentation+2

3. Name & Tags

Give your instance a descriptive name tag (e.g. web-server, devinstance). AWS Documentation+2TechTarget+2

4. Choose AMI (Amazon Machine Image)

Select Amazon Linux (Amazon Linux 2 or Amazon Linux 2023) as your OS. <u>AWS Documentation+4AWS Documentation+4AWS</u> Documentation+4

 To always get the latest Amazon Linux image in scripts or CLI, you can use the SSM public parameter like /aws/service/ami-amazon-linux-latest/... <u>AWS</u> Documentation

5. Choose Instance Type

Pick a size (for example t2.micro or t3.micro if under the free tier) depending on your workload. <u>AWS Documentation+2AWS</u> <u>Documentation+2</u>

6. Configure Instance Details

- Network and Subnet (usually default VPC)
- IAM role (if your instance needs AWS access)
- Auto-assign Public IP (if you want it to be reachable from the Internet)
- Advanced options like user data scripts, shutdown behavior <u>AWS Documentation+2AWS Documentation+2</u>

7. Add Storage

By default, Amazon Linux instances come with an EBS volume (often 8 GB). Adjust size or storage type if needed. AWS
Documentation+1

8. Configure Security Group

Set inbound rules (for example, allow SSH on port 22, HTTP on port 80, etc.). It's a firewall layer — be restrictive by default.

AWS Documentation+3Jenkins+3AWS Documentation+3

9. **Key Pair for SSH Access**

Create a new key pair (or use an existing one) — you'll download a .pem file. This is needed to SSH into your instance.

AWS Documentation+2AWS Documentation+2

Make sure to keep your private key safe and set proper permissions (chmod 400 key.pem on Linux/Mac). <u>AWS</u> Documentation+1

10. Review & Launch

Review all configurations. If everything is acceptable, click **Launch instance** to start it. <u>AWS Documentation+2AWS</u> Documentation+2

11. Connect to the Instance via SSH

- Go to the EC2 console → Instances → select your instance
 → Connect. AWS Documentation+1
- Use the SSH command (on Linux/macOS) such as:
- ssh -i /path/to/key.pem ec2-user@your-instance-publicdns

(ec2-user is the default for Amazon Linux) <u>AWS</u>
Documentation+2AWS Documentation+2

- On Windows, you can use tools like PuTTY (convert the .pem to .ppk first) to SSH in.
- Before connecting, set private key permissions: chmod
 400 key.pem (Linux/macOS). <u>AWS Documentation</u>

12. Terminate or Stop Instance (when done)

When you finish your work, stop or terminate the instance to avoid unnecessary charges

Reference guid youtube video(EC2 creation)

Now need to connect cloud host with manger, need to setup the VPN service in the both

Install Tailscale(VPN)

curl -fsSL https://tailscale.com/install.sh | sh
Enable and start the service:

sudo systemctl enable --now tailscaled

Step 3: Generate an Auth Key (on your laptop/desktop browser)

- 1. Go to https://login.tailscale.com/admin/settings/keys
- 2. Click **Generate auth key** (choose *Reusable* if you'll need it often).

Step 4: Authenticate EC2 instance with the key

On EC2 terminal:

sudo tailscale up --authkey tskey-xxxxxxxxxxxxxxxx

This bypasses the browser login and directly registers your EC2 instance into your Tailscale network.

Step 5: Verify Tailscale is working tailscale status

tailscale ip -4

You should see your EC2 listed with a **100.x.x.x IP**.

Step 6: Connect Manager (Private Machine) also to Tailscale

On your private machine (Wazuh Manager host): sudo tailscale up

(or use --authkey again).

Now both the **EC2 agent** and the **Wazuh Manager** are in the same VPN, reachable by their **Tailscale IPs**.

Step 7: Configure Wazuh Agent (on EC2) to talk to Manager Edit the agent config:

sudo nano /var/ossec/etc/ossec.conf

Find:

<client>
 <server>
 <address>MANAGER_IP</address>
 <port>1514</port>
 <protocol>tcp</protocol>
 </server>
</client>
 Peplace MANAGER_IP with your Wazuh Manager's
Tailscale IP (100.x.x.x).
Restart agent:
sudo systemctl restart wazuh-agent

Step 8: Approve the Agent on Manager

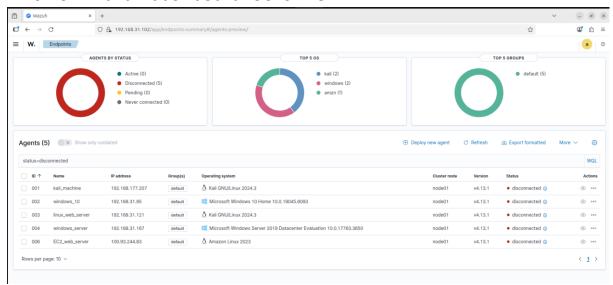
On your manager node:

sudo /var/ossec/bin/manage agents

- Add the new agent, copy the key.
- On EC2, import the key with:
- sudo /var/ossec/bin/manage_agents
 - → Choose **Import key** and paste it.

Restart services on both sides.

This how wazuh dashboard looks like



6. Make detection rules in the central SIEM.

Steps to add custom alerts for all agents

- 1. SSH into your Wazuh Manager.
- 2. Open the local rules file:
- 3. sudo nano /var/ossec/etc/rules/local_rules.xml
- 4. Paste your custom rules inside <group name="local,"> ... </group> block.
 Example:
- 5. <group name="local,">
- 6. <rule id="100001" level="7">
- 7. <if_sid>5712</if_sid>
- 8. <description>Multiple SSH authentication failures (possible brute force)</description>
- 9. <group>authentication, sshd, brute_force
- 10. </rule>
- 11. </group>
- 12. Save and exit.
- 13. Restart the Wazuh manager to apply changes:

Sudo systemctl restart wazuh-manager

7. Simluating the attacks to check the detection rules are working and making a ticket in the slack

webhook setup of the Slack for wazuh

- 1.Go to the slack and create a channel(slack)
- 2. Now go the slack api setup (slack-api)
- 3.create new app and add that channel to receive the alerts
- 4.In features field in left hand side bar go to incoming webhooks(slack-webhook)
- 5. On toggle on the right hand side ,now scroll down and click on the add new webhook button.

6. In the wazuh-manager go this file (/var/ossec/etc/ossec.conf)
Then paste this lines
<integration>
<name>slack</name>
<hook_url>https://hooks.slack.com/services/YOUR/SLACK/WEBHOOK</hook_url>
<level>10</level>
<alert_format>json</alert_format>

At hookurl paste your webhook url

</integration>

```
<sntp_server>smtp.example.wazuh.com
<enail_from>wazuh@example.wazuh.com
<enail_from>wazuh@example.wazuh.com
<enail_to>recipient@example.wazuh.com
<enail_loa_sourcepient@example.wazuh.com</pre>
<enail_loa_sourcepalerts.log</pre>
/enail_loa_sourcepalerts.log
/enail_doan=loa
/enail_doan=loa
/enail_sourcepalerts.log
/enail_sourcepalerts.log
/enail_loa
/enail_sourcepalerts
/enail_doan=loa
/enail_formats
/enail_doan=loa
/enail_doan=loa
/enail_doan=loa
/enail_doan=loa
/enail_doan=loa
/enail_doan=loa
/enail_formats
/enail
```

Webhook URLs for Your Workspace To dispatch messages with your webhook URL, send your message in JSON as the body of an application/json POST request. Add this webhook to your workspace below to activate this curl example. Sample curl request to post to a channel: curl -X POST -H 'Content-type: application/json' --data '{"text":"Hello, World!"}' https://hooks.slack.com/services/T09JQ1UKFEY/B09JL1GN62J/KMiRkvWfJsUOtlauiFj3Pcy Copy Webhook URL Channel Added By Fazal Shaik 圃 https://hooks.slack.com/services/T0 Copy #wazuh-alerts Oct 3, 2025 Fazal Shaik 圃 https://hooks.slack.com/services/T0 Copy #wazuh-alerts Oct 3, 2025 Add New Webhook

