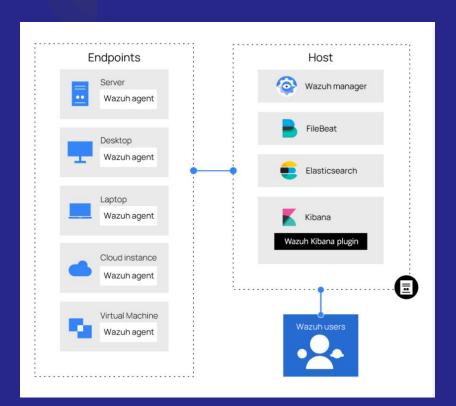
Using Wazuh for Threat Prevention, Detection and Response

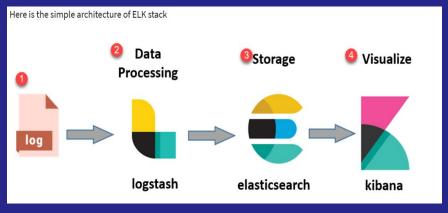
What is Wazuh?



- A free open source real time and enterprise-ready security monitoring solution for threat detection, integrity monitoring, incident response and compliance
- Used for collecting, indexing and analyzing security data
- Features very similar to Splunk Enterprise

How it works



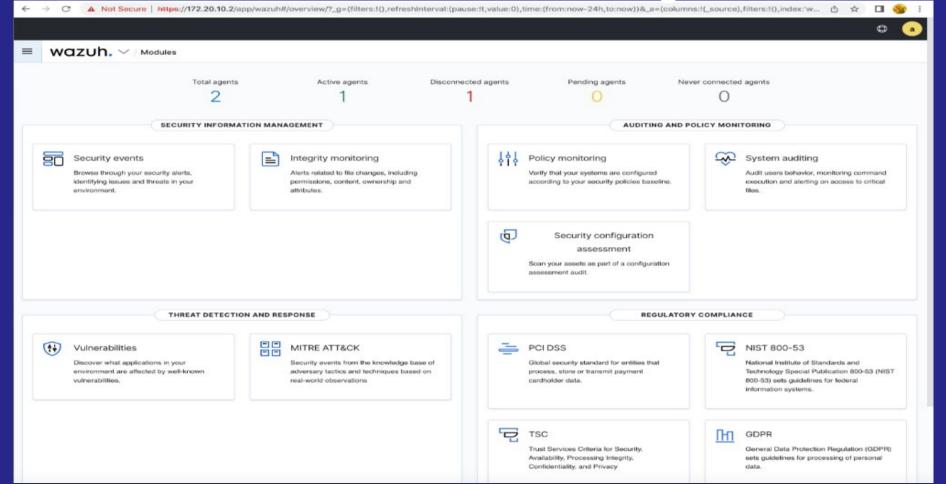


Benefits of Wazuh



- Intrusion and Threat Detection
- Security Visibility
- Log Data Analysis
- Vulnerability Detection
- Incident Response
- Regulatory Compliance

Wazuh Cloud Console and Agent



Steps to Install the Wazuh OVA

1. Download the Wazuh OVA (Open Virtual Appliance) pre-built virtual machine image

Packages list					
	Distribution	Architecture	VM Format	Version	Package
	CentOS 7	64bits	OVA	4.3.10	wazuh-4.3.10.ova (sha512)

2. Import the OVA into the virtualization platform. Start the machine.

user: wazuh-user password: wazuh

Access the Wazuh Dashboard

3. Run ip a from the Wazuh OVA virtual machine to get the ip address. E.g. 10.0.0.157

ip a

4. Open the Wazuh Cloud Console from the browser.

URL: https://<wazuh_server_ip>

password: admin

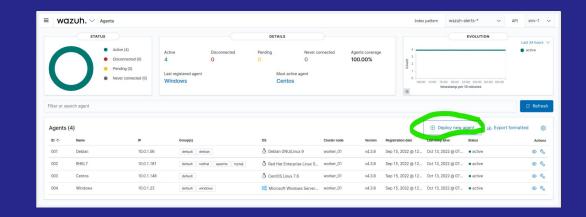
user: admin

https://10.0.0.157

Steps to Install the Wazuh Agent

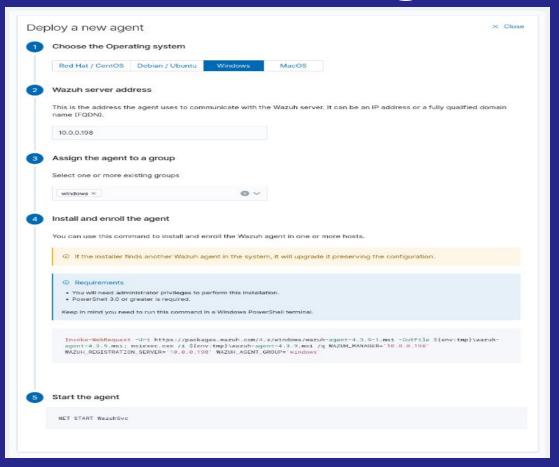


Go to Wazuh > Agents, and click on Deploy new agent.

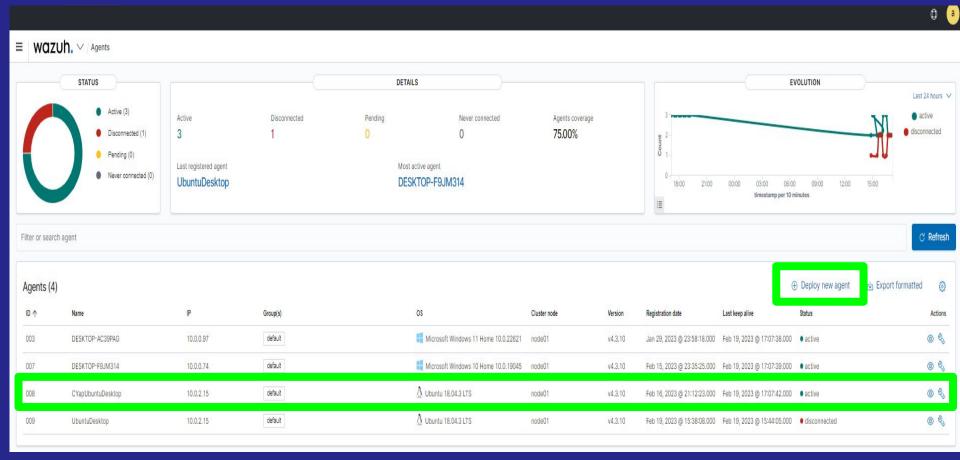


Steps to Install the Wazuh Agent

- Enter the IP address of the Wazuh server
- Assign the agent to a DEFAULT group
- Install and enroll the agent by running the command
- Start the agent



Steps to Install the Wazuh Agent



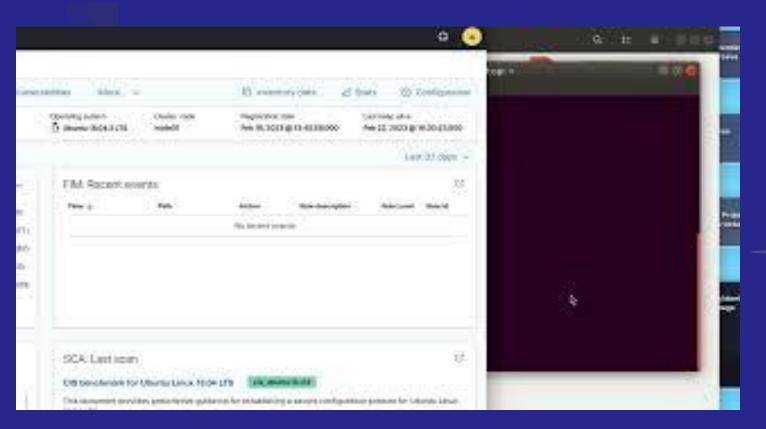
End Goal or Vulnerability Being Exploited

Today's demo will illustrate the following functionalities:

- Brute Force Attacks
- Common Vulnerabilities and Exposures (CVEs)

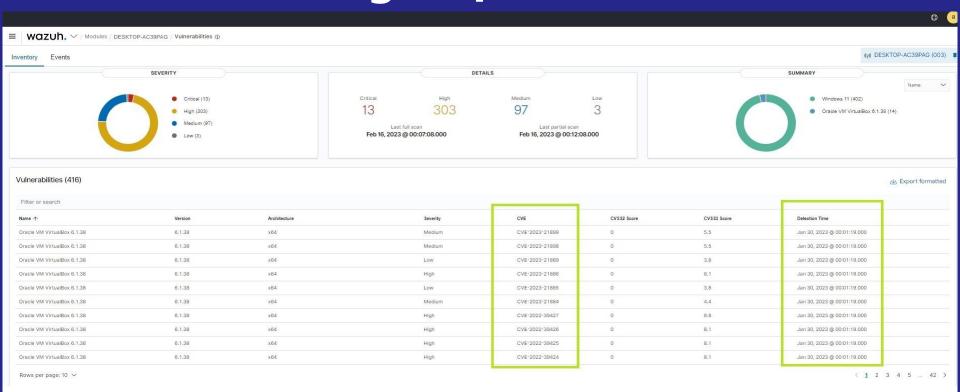


Brute Force Attack Simulation Demo



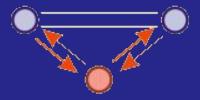


Detecting Unpatched CVEs



Mitigations

- Close all ports on your personal computer
- Firewalls should be up-to-date
- Aging firewalls present a security risk for your environment
- Make sure IPS is updated



Mitigations

- Proper Security training on multi-factor authentication
- Don't use your personal information for your passwords and never recycle passwords for your accounts.
- Patching Vulnerabilities.
- Bi-weekly In house Pentesting: can proactively prevent incidents from happening.
- Hardening systems against high CVEs higher than 6

We hope to see you guys again soon!

