

Project: Wazuh SIEM on Ubuntu

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Ubuntu server setup :

Start the ubuntu

Open your terminal and run the following command

```
# sudo apt update
```

```
# sudo apt upgrade
```

```
# curl -sO https://packages.wazuh.com/4.7/wazuh-install.sh
```

```
# sudo bash ./wazuh-install.sh -a
```

(show password for wazuh log in copy that password)

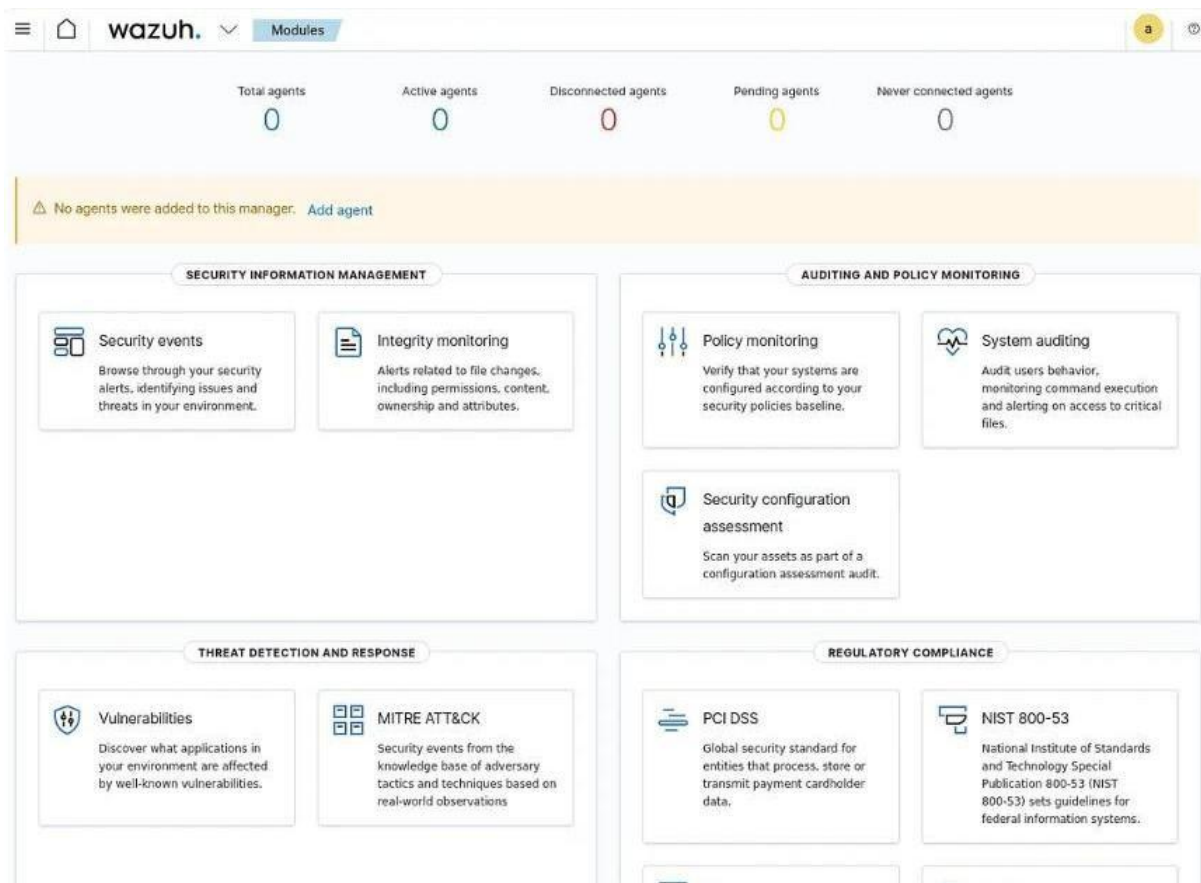
```
# nano user.txt
```

(paste the password)

```
# ss -antlp
```

(showing Linux to display detailed information about active network connections)

The Wazuh server setup has been successfully completed. Retrieve the authentication details displayed in the terminal and store them securely. Open a web browser and enter the server's assigned IP address in the URL bar. Establish a secure connection to the Wazuh dashboard by visiting https://your_server_ip, then log in using the provided credentials to access the system's security monitoring and management interface.



Starting the Wazuh dashboard service :

Enable and start the Wazuh dashboard service

```
# systemctl daemon-reload
```

```
# systemctl enable wazuh-dashboard
```

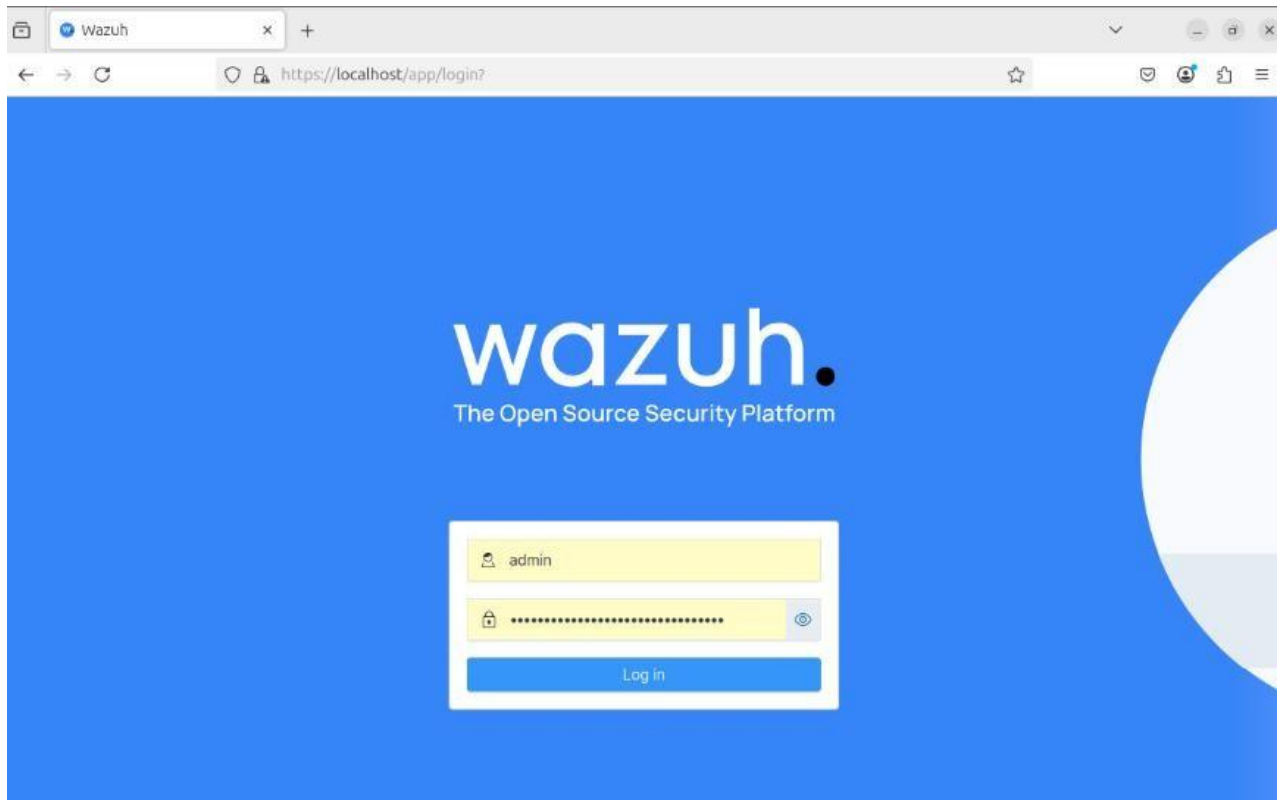
```
# systemctl start wazuh-dashboard
```

Access the Wazuh web interface with your credentials

URL: <https://<wazuh-dashboard-ip>>

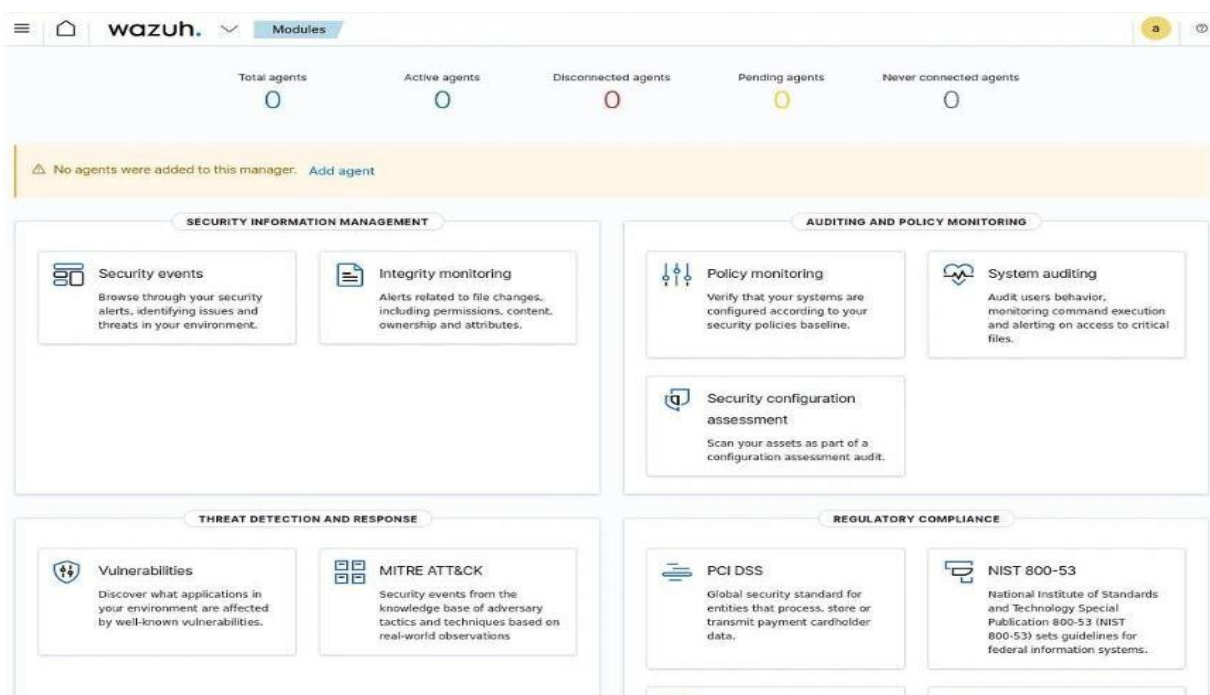
Username: admin

Password: (paste password from
nano user.txt file)



Adding agents :

Wazuh default page



Add our first agent - Windows Agent.

Click **Add agent**, showing in the image below

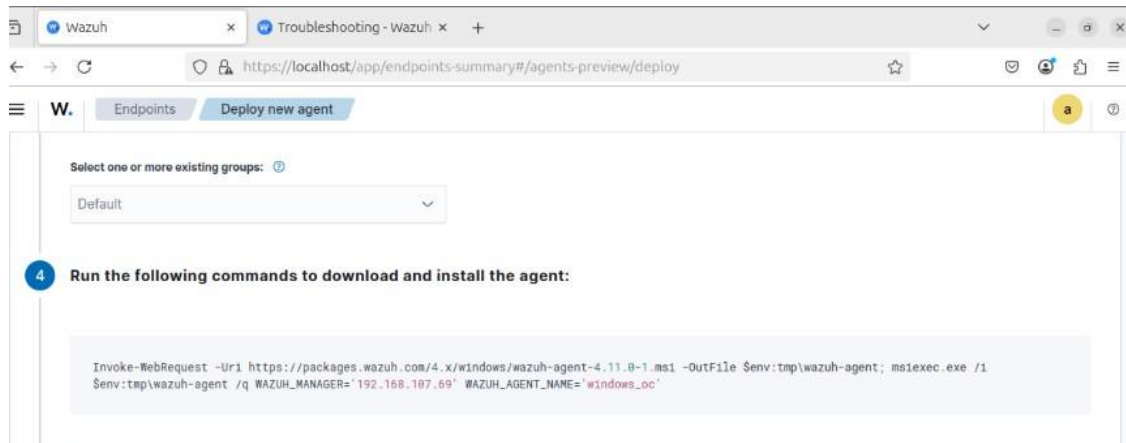
Select the agent platform - windows in this case, and enter the wazuh server IP address

The screenshot shows the 'Deploy new agent' page in the Wazuh web interface. The browser tabs show 'Wazuh' and 'Troubleshooting - Wazuh'. The address bar shows 'https://localhost/app/endpoints-summary#/agents-preview/deploy'. The page has a sidebar with 'Endpoints' and 'Deploy new agent' tabs. The main content area is titled 'Deploy new agent' and contains a step indicator '1' with a checkmark. The step is 'Select the package to download and install on your system:'. There are three main sections: 'LINUX', 'WINDOWS', and 'macOS'. Under 'LINUX', there are radio buttons for 'RPM amd64', 'RPM aarch64', 'DEB amd64', and 'DEB aarch64'. Under 'WINDOWS', there is a radio button for 'MSI 32/64 bits' which is selected. Under 'macOS', there are radio buttons for 'Intel' and 'Apple silicon'. A blue banner at the bottom of the first section says 'For additional systems and architectures, please check our [documentation](#).' Below this, there is a step indicator '2' with the title 'Server address:'. The text below it says 'This is the address the agent uses to communicate with the server. Enter an IP address or a fully qualified domain name (FQDN)'. There is a link 'Assign a server address' and a text input field labeled 'Server address'.

Assign a name to a agent

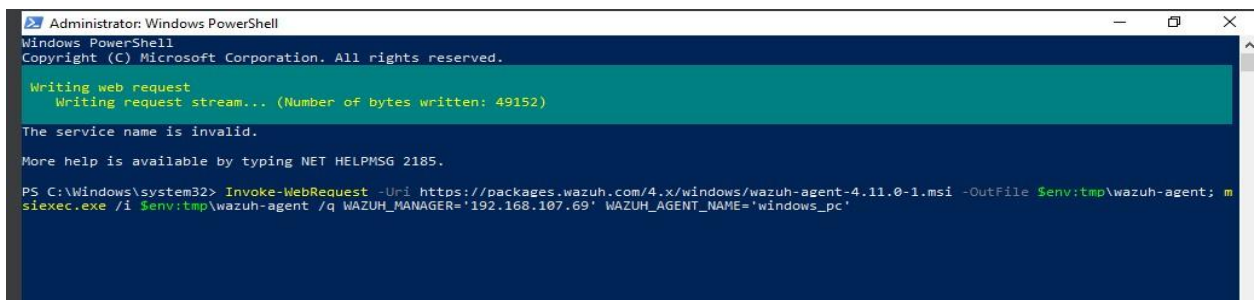
The screenshot shows the 'Deploy new agent' page in the Wazuh web interface, continuing from the previous step. The browser tabs and address bar are the same. The sidebar shows 'Endpoints' and 'Deploy new agent' tabs. The main content area is titled 'Deploy new agent' and contains a step indicator '2' with a checkmark. The step is 'Assign a server address:'. There is a text input field containing '192.168.107.69'. Below it is a checkbox labeled 'Remember server address' which is checked. Below this, there is a step indicator '3' with a checkmark. The step is 'Optional settings:'. The text below it says 'By default, the deployment uses the hostname as the agent name. Optionally, you can use a different agent name in the field below.' There is a link 'Assign an agent name:'. There is a text input field containing 'windows_pc'. Below it is a yellow banner with the text 'The agent name must be unique. It can't be changed once the agent has been enrolled.' Below this, there is a link 'Select one or more existing groups:'. There is a dropdown menu labeled 'Default'. Below this, there is a step indicator '4' with the title 'Run the following commands to download and install the agent:'.

Copy the powershell command



Start the window

Open Powershell as administrator

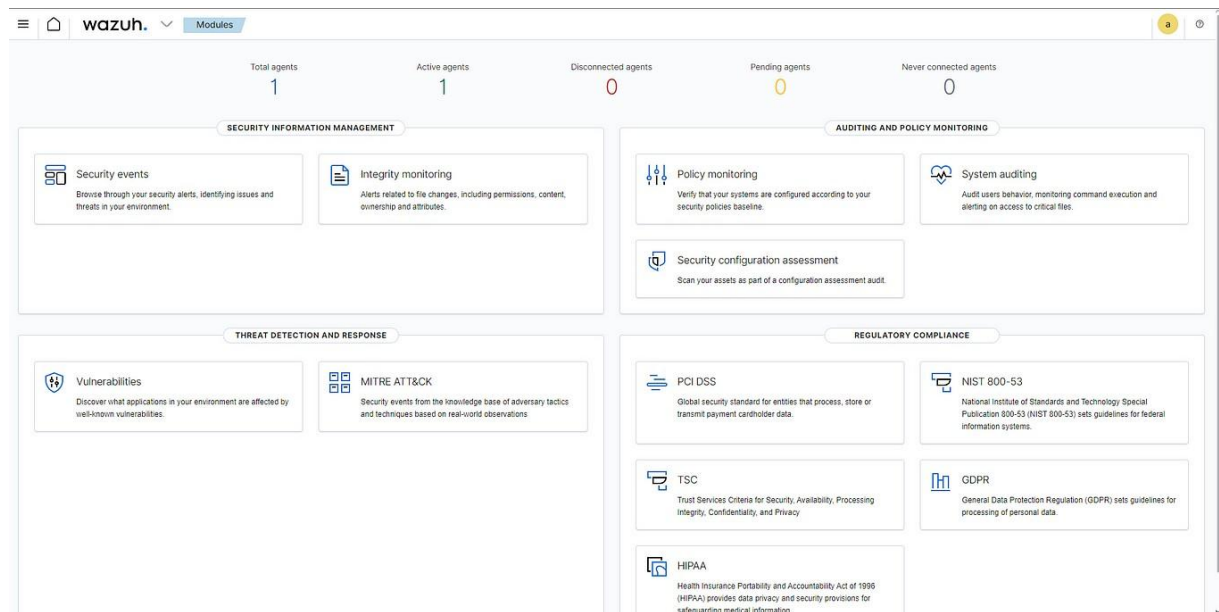


Then start the wazuh service

NET START WazuhSvc

```
PS C:\Windows\system32> NET START WazuhSvc
The Wazuh service is starting.
The Wazuh service was started successfully.
PS C:\Windows\system32>
```

The agent should show up as connected on the dashboard



Wazuh SIEM has been successfully installed and configured. This setup allows for real-time security monitoring, log analysis, and intrusion detection. Your Wazuh Manager is actively gathering and analyzing logs from multiple systems. The Wazuh Dashboard offers valuable insights into security incidents and vulnerabilities. To maintain optimal performance, ensure consistent monitoring and updates. Your system is now more secure against potential threats!