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# Introduction to Active Response in Cybersecurity

Highlight the challenges faced by security teams during incident response, including delayed responses to high-severity events and difficulties in collecting relevant information in real time.

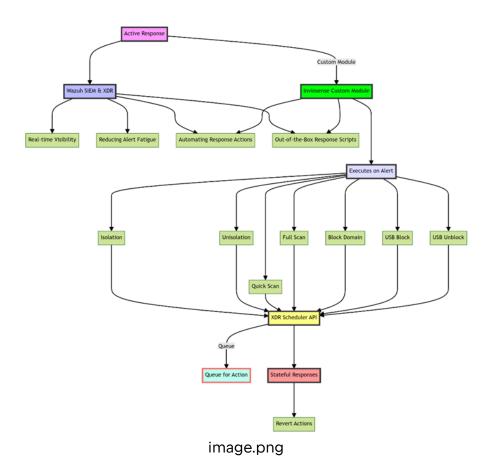
# Role of Wazuh SIEM and XDR Platform

Explain how Wazuh improves incident response through real-time visibility, reducing alert fatigue, automating response actions, and providing ready-to-use response scripts.

# Introduction to Invinsense Custom Active Response Module

Describe the module's capability to automate response actions based on specific triggers, aiding security teams in managing incidents effectively.

## **Work Flow**



# **Types of Custom Active Responses**

List and briefly describe each type of custom active response, including isolation, unisolation, quick scan, full scan, block domain, USB block, and USB unblock.

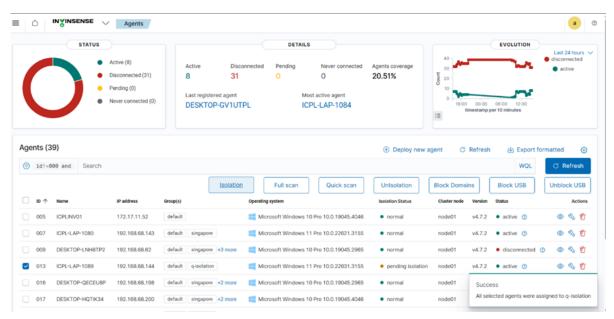
### What is Isolation? How it works?

#### What is Isolation

Isolation refers to a security practice employed in server-side monitoring, wherein the system actively detects any unusual or suspicious activities on the internet. When such activities are identified, the administrator or the personnel responsible for managing the server isolate the affected machine. This isolation entails restricting the device's access to the internet, preventing any further communication with external networks.

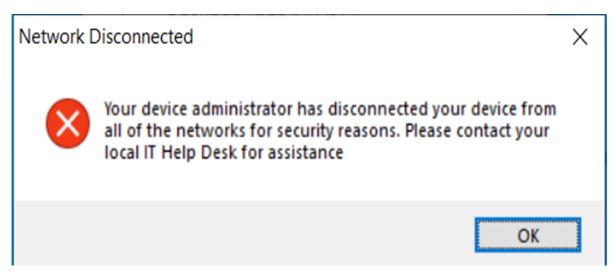
#### How to Isolate the machine

Navigate to the Invinsense dashboard, locate the device you wish to isolate, and click on it. Subsequently, select the 'Isolation' option to initiate the isolation process.



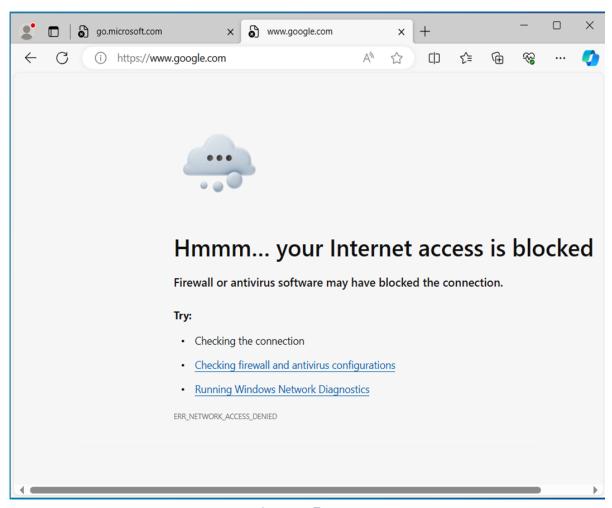
image\_1.png

Isolated machine or machines receive a pop-up notification



image\_2.png

Now, you can observe on that machine or those machines that they do not have access to the internet



image\_3.png

You can find a log in the Active Response folder at C:\Program Files (x86) \ossecagent\active-response.

2024/02/29 16:42:11 active-response/bin/restart-wazuh.exe: Ended 2024/02/29 16:42:49 active-response/bin/isolation.exe: Endpoint Isolated.

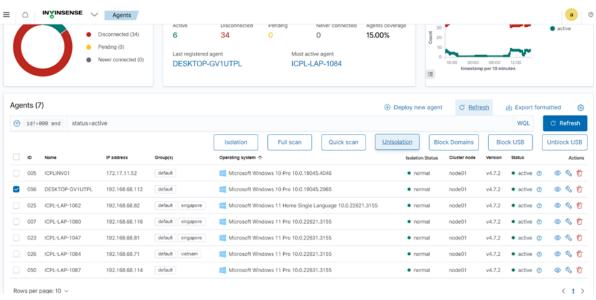
image\_4.png

### What is Unisolation? How it works?

#### What is Unisolation

Unisolation is the procedure of reintegrating or reconnecting someone or something that was previously isolated. This involves bringing them back into contact with others or the outside world. This process is crucial for restoring connectivity and allowing the reintegration of the isolated entity into its broader environment. Unisolation is often employed after a period of isolation, ensuring a smooth transition back into regular interactions and activities.

On the Invinsense dashboard, select the device or devices to initiate the unisolation process



image\_5.png

You can find a log in the Active Response folder at C:\Program Files (x86) \ossecagent\active-response.

```
2024/02/29 16:54:37 active-response/bin/unisolation.exe: Endpoint Unisolated.
2024/02/29 16:54:38 active-response/bin/restart-wazuh.exe: Starting
2024/02/29 16:54:38 active-response/bin/restart-wazuh.exe: {"version":1,"origin":{"name":"","module":"wazuh-execd"}.
```

image\_6.png

## What is Quick Scan? How it works?

#### Introduction

Welcome to the Quick Scan Documentation. This guide provides an overview of the quick scan process in computing, outlining its purpose, usage.

#### **Purpose**

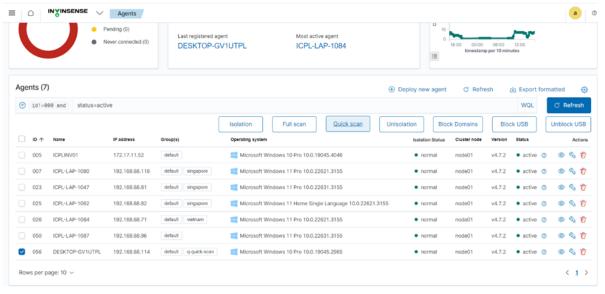
The primary purpose of a quick scan is to rapidly assess key areas or components of a system for potential issues or threats. This expedited process is designed to save time by prioritizing critical parts while potentially skipping less crucial elements.

#### **Key Components**

Identify the main components or areas typically examined during a quick scan. These may include critical system files, essential applications, network configurations, and other high-priority elements.

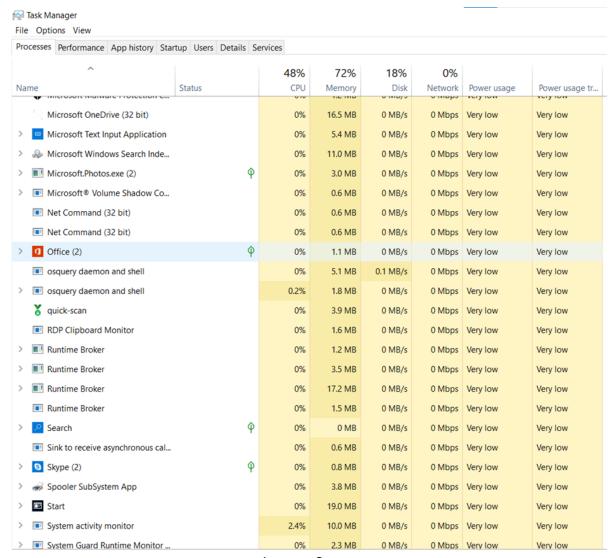
#### How it works?

On the Invensense dashboard, select the device or devices and initiate a quick scan



image\_7.png

Now, you can check the taskbar on the endpoint device where the quick scan is running in the background.



image\_8.png

You can find a log in the Active Response folder at C:\Program Files (x86) \ossecagent\active-response.

image\_9.png

### What is Full Scan? How it works?

#### Introduction

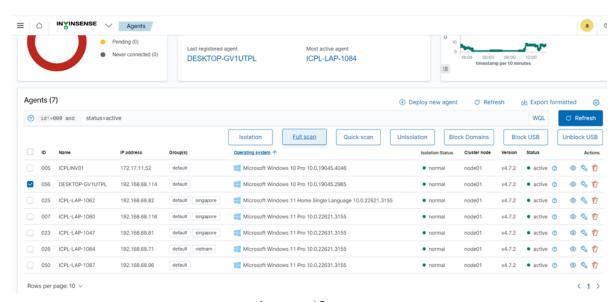
Welcome to the Full Scan Documentation. This comprehensive guide offers an in-depth exploration of the full scan process in computing, serving as a valuable resource for both beginners and seasoned users alike.

#### What is Full scan?

Which is a function of Invinsense which checks every area of the computer, including memory, hard drives and sometimes any external devices connected to the computer, like external hard drives and USB flash drives. Because the full scan checks everything, it takes longer to perform the scan. A full scan is a comprehensive process in computing that thoroughly examines and analyzes all elements within a system without skipping any part. This detailed assessment ensures a comprehensive evaluation of the entire system for potential issues or threats.

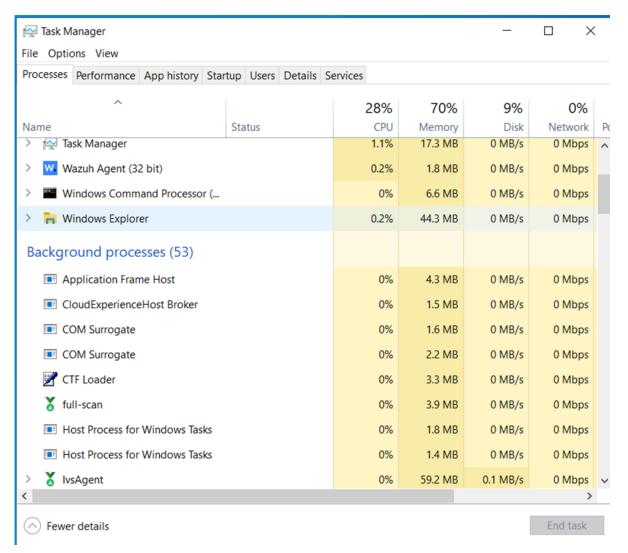
#### How it Works?

On a invinsense dashboard tick device/devices for a Full scan



image\_10.png

Now, you can check the taskbar on the endpoint device where the full scan is running in the background



image\_11.png

You can find a log in the Active Response folder at C:\Program Files (x86) \ossecagent\active-response.

```
File Edit Format View Help

8024/02/27 15:52:34 active-response/bin/restart-wazuh.exe: Starting

8024/02/27 15:52:34 active-response/bin/restart-wazuh.exe: Ended

8024/02/27 15:52:34 active-response/bin/restart-wazuh.exe: Ended

8024/02/27 16:12:49 active-response/bin/restart-wazuh.exe: Starting

8024/02/27 16:12:49 active-response/bin/restart-wazuh.exe: ("version":1,"origin":{"name":"","module":"wazuh-execd"},"command":"add","parame

8024/02/27 16:12:49 active-response/bin/restart-wazuh.exe: ("version":1,"origin":{"name":"","module":"wazuh-execd"},"command":"add","parame

8024/02/27 16:12:53 active-response/bin/restart-wazuh.exe: Ended

8024/02/27 16:13:54 active-response/bin/restart-wazuh.exe: Starting

8024/02/27 16:14:03 active-response/bin/restart-wazuh.exe: Starting

8024/02/27 16:14:03 active-response/bin/restart-wazuh.exe: ("version":1,"origin":{"name":"","module":"wazuh-execd"},"command":"add","parame

8024/02/27 16:14:09 active-response/bin/restart-wazuh.exe: Ended

8024/02/27 16:13:54 active-response/bin/restart-wazuh.exe: Scan starting...

8024/02/27 16:13:54 active-response/bin/full-scan.exe: Scan starting...

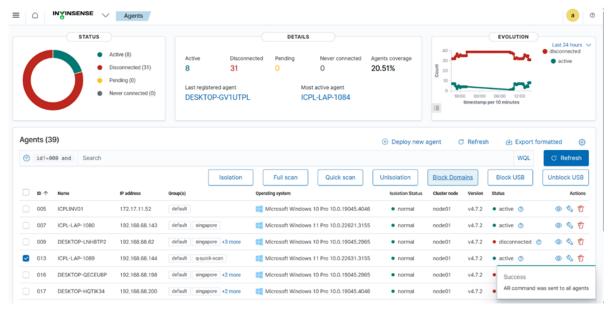
8024/02/27 16:13:54 active-response/bin/quick-scan.exe: Scan finished.
```

image\_12.png

# What is Block Domain? How it works?

#### **Block Domains**

A block domain is a website address that has been restricted or prevented from being accessed by users, typically by network administrators or software filters, due to various reason such as security concerns, inappropriate content, or company policies.



image\_13.png

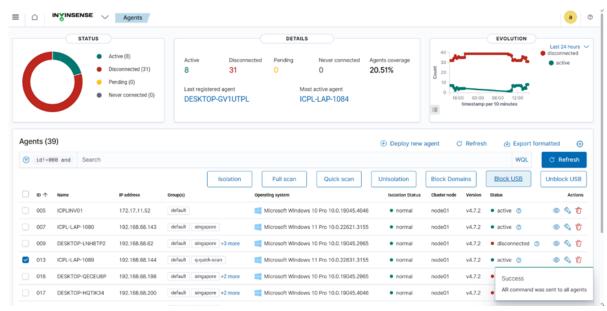
You can find a log in the Active Response folder at C:\Program Files (x86) \ossecagent\active-response.

!024/02/29 17:33:39 active-response/bin/block-domain.exe: block-domain active response started
!024/02/29 17:33:39 active-response/bin/block-domain.exe: Resolved IPs: [{'bing.com': ['13.107.21.200', '204.79.197.200']}]
image\_14.png

## What is Block USB? How it works?

#### **Block USB**

Blocking USB refers to restricting or disabling the use of USB ports on a computer or device, usually done to prevent unauthorized data transfer, malware infection, or to enforce security policies.



image\_15.png

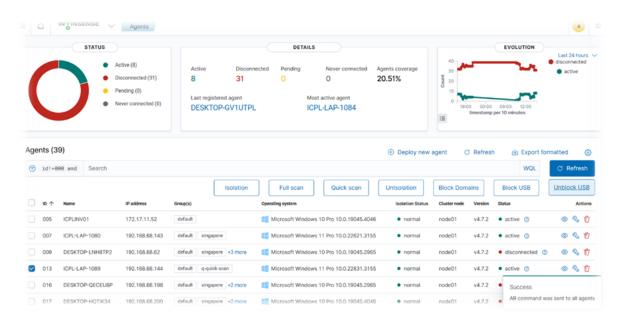
You can find a log in the Active Response folder at C:\Program Files (x86) \ossecagent\active-response.

2024/02/29 17:33:52 active-response/bin/block-usb.exe: USB blocked on the endpoint. 2024/02/29 17:33:53 active-response/bin/block-usb.exe: USB blocked on the endpoint.

## What is Unblock USB? How it works?

#### Unblock USB

Unblocking USB involves enabling or allowing the use of USB ports on a computer or device after they have been previously restricted or disabled, typically done to restore functionality or accommodate legitimate usage.



image\_17.png

You can find a log in the Active Response folder at C:\Program Files (x86) \ossecagent\active-response.

2024/02/29 17:33:54 active-response/bin/block-domain.exe: DNS cache has been flushed successfully. 2024/02/29 17:38:02 active-response/bin/unblock-usb.exe: USB unblocked on the endpoint.