



Agentless File Integrity Monitoring (FIM)

✓ This feature requires a Wiz/Gov Advanced [license](#). [Learn more](#).

File Integrity Monitoring (FIM) detects and alerts on unauthorized changes to important files on your VMs. By periodically scanning and comparing files to previous scans, Wiz can detect if a file was created, deleted, or modified.

Other tools provide FIM by installing an agent or externally monitoring VMs by network access. This approach can be challenging to maintain in large, dynamic cloud environments. Wiz utilizes its agentless capabilities for FIM, giving you near-complete monitoring of important file changes without having to maintain agents or external scanners.

How it works

When scanning a VM, Wiz analyzes the files by policy and compares them to the previous scan to identify any changes that have occurred. When a file was created, deleted, or modified compared to the previous scan, Wiz creates a File Modified (FIM) event on the Explorer > Cloud Events page.

All projects

Search

36+K

Cloud Events

Cloud Events Save as... Manage Rules

GROUP BY Select...

Cloud Platform

Event Name

Event Time in the last 7 days

Principal

Resource

Resource Type

Origin

Origin Type is FIM

+ Filter

Reset

Show results count

Event	Resource	Path	Event Time
File Modified (FIM) Wiz Agentless FIM	minikube-sensor-ci-124 Virtual Machine	/usr/bin/ssh-keygen	Jan 4, 2024 at 10:51:54.000 AM
File Modified (FIM) Wiz Agentless FIM	minikube-sensor-ci-124 Virtual Machine	/usr/bin/ssh	Jan 4, 2024 at 10:51:54.000 AM
File Modified (FIM) Wiz Agentless FIM	minikube-sensor-ci-122 Virtual Machine	/usr/sbin/sshd	Jan 4, 2024 at 10:48:48.000 AM
File Modified (FIM) Wiz Agentless FIM	minikube-sensor-ci-122 Virtual Machine	/usr/bin/ssh-keyscan	Jan 4, 2024 at 10:48:48.000 AM
File Modified (FIM) Wiz Agentless FIM	minikube-sensor-ci-122 Virtual Machine	/usr/bin/ssh-add	Jan 4, 2024 at 10:48:48.000 AM
File Modified (FIM) Wiz Agentless FIM	minikube-sensor-ci-122 Virtual Machine	/usr/bin/sftp	Jan 4, 2024 at 10:48:48.000 AM
File Modified (FIM) Wiz Agentless FIM	minikube-sensor-ci-122 Virtual Machine	/usr/bin/ssh-keygen	Jan 4, 2024 at 10:48:48.000 AM
File Modified (FIM) Wiz Agentless FIM	minikube-sensor-ci-122 Virtual Machine	/usr/bin/ssh	Jan 4, 2024 at 10:48:48.000 AM

This event provides information about the specific file that was modified, including its path, event time, and the type of modification that occurred.

Validation

Since files are constantly changing, the number of events that surface can be quite overwhelming. This is why Wiz includes a validation process that helps you to gain additional insight into the origin of the new file or its modified content. This validation process is different for Windows and Linux:

> Windows verification process

> Linux verification process

For example, if a file was modified during an official Windows or Linux package update, this would be expected behavior and would not indicate any suspicious activity. However, if a file was modified and was not signed or known to be published by the official vendor, Wiz would not mark this change as `verified`.

Monitored files

FIM monitors the following Windows, Linux and MacOS files:

Windows	Linux and MacOS
<ul style="list-style-type: none">C:\autoexec.batC:\boot.ini	<ul style="list-style-type: none">/bin/boot

English

Windows	Linux and MacOS
<ul style="list-style-type: none"> • C:\config.sys • C:\Windows\system.ini • C:\Windows\win.ini • C:\Windows\regedit.exe • C:\Windows\System32\userinit.exe • C:\Windows\explorer.exe • C:\Program Files\Microsoft Security Client\msseces.exe • Under C:\Windows\System32\ , the following file types are monitored: <ul style="list-style-type: none"> • bat • cfg • conf • config • dll • exe • ini • sys 	<ul style="list-style-type: none"> • /etc • /sbin • /usr/bin • /usr/local/bin • /usr/local/sbin • /usr/sbin • /usr/share/keyrings • /var/spool/cron • /opt/bin • /opt/sbin • /var/share/keyrings • /var/share/cron

File monitoring is recursive, meaning that Wiz processes files that are located in subfolders or nested directories within a folder. For example, if `/etc/` is listed, then the following files are also monitored:

- `/etc/file.config`
- `/etc/foo/file.config`
- `/etc/foo/bar/file.config`

Create FIM Event Policies and Automations

Isolate the most important FIM Events by creating a custom FIM Modified Threat Detection Rule. Creating a custom FIM Modified Threat Detection Rule allows you to:

- Quickly identify any FIM-related issues that occur.
- Define Automation Rules to send notifications or create event tickets for high-priority FIM events.

Example workflow

Create a custom Threat Detection Rule, then create an Automation Rule to trigger the Action when the cloud event is detected:

1. [Create a custom Threat Detection Rule](#) with a Target Event Name of File Modified (FIM).

For example, create a custom FIM Modified Threat Detection Rule with a Critical severity to instantly send notifications on any modifications made to a MongoDB configuration file located in `/etc/mongod.conf` in your Production Project.

The screenshot shows the 'Create a new Threat Detection Rule' interface in the W24 console. The left sidebar contains navigation links: Boards, Issues, Findings, Inventory, Explorer, Policies (highlighted), Reports, Settings, Connect, and Feedback. The main form area includes the following sections:

- Name:** A text input field containing 'Modification of Mongo DB Configuration File'.
- Description:** An empty text area.
- Severity:** A dropdown menu set to 'Critical'.
- Categories:** An optional section with a description and a 'Select Categories...' dropdown.
- Matcher:** A section titled 'Specify the matcher type the rule should use and write the matcher'.
 - Matcher Type:** Radio buttons for 'Cloud Event Filters' and 'Code (Rego)' (selected).
 - Target Event Names:** A dropdown menu set to 'File Created (FIM)'.
 - Code (Rego):** A text area containing the following Rego code:

```
9
10 match {
11   input.RawEventName == "File Created (FIM)"
12   input.RawJson.path == "/etc/mongod.conf"
13 }
```

At the bottom right, there are 'Cancel' and 'Create Rule' buttons.

2. [Create an Automation Rule from a Threat Detection Rule](#). After creating a Custom Threat Detection Rule, you can then create an Automation Rule to trigger an Action when a cloud event is detected. In the following screenshot, an Automation Rule is created that will send a Slack notification to the SOC team when the custom rule to detect MongoDB configuration file modification is detected.

All projects ▾

Search

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Boards

Issues

Findings

Inventory

Explorer

Policies

Reports

Settings

Connect

Feedback

New Automation Rule

Name

Send Slack notification to CISO on MongoDB configuration modification

Names must be unique per tenant

Description optional

Scope

Scoping to a selected Project makes this Automation Rule accessible only to users with global roles or Project-scoped access to the selected Project. Other users will not be able to see it, use it, or view its results. [Learn about Project scoping](#)

☒ All resources☐ Selected Project

Rule Conditions

WHEN

the following trigger occurs:

Cloud Event ▾

IS

Matched by a Rule

IF

all of the following match:

Threat Detection Rule is

Modification of MongoDB ▾

+ Add Filter

Reset

THEN

perform the following actions:

Send a notification to Slack

Send Slack to CISO

+ Add action

Cancel

Add Rule

FAQ

Have a question? See the [FAQ](#).

Updated 28 days ago

← Supported Resources for Cloud Configuration Rules

Agentless Software Bill of Materials (SBOM) →

Did this page help you? Yes No

English ▲