

## **Noise Cancelling FIM**



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## How many of you use Qualys Cloud Agents?



How many of you know that existing these existing agents can do File Integrity Monitoring (FIM) and File Access Monitoring(FAM)?



#### **Success Formula**

For Your File Integrity Monitoring Program

01

**Experience seamless onboarding with** ready-to-use set up for PCI 4.0

02

**Fine-tuned FIM solution** with automated noise cancellation

03

Most comprehensive FIM coverage for servers, endpoints, network devices and containers

#### **Outcomes**



Significant reduction in operational costs for managing FIM

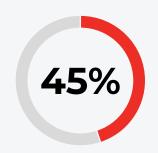


**Zero issues** in meeting PCI 4.0 FIM Requirements

## Why FIM is a Must-have?



File Integrity
Monitoring



Ransomware attacks involve changes to user files



Advanced
Persistent Threats
(APT) use registry
changes for
persistence



Rootkits modify registry keys to evade detection

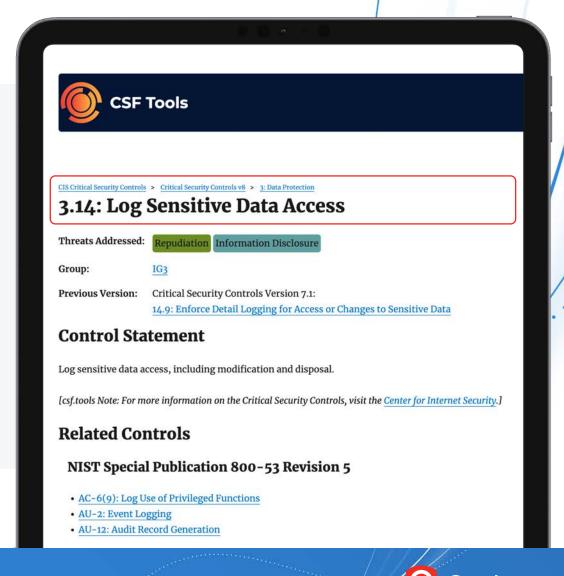
## **Security Agencies Recommend FIM**



"Implement a configuration change control process to detect unauthorized modifications"



"Compare against expected configuration changes and patching plans to verify that the changes are authorized"



## verizon

Verizon 2024 Payment Security Report marks FIM as one of The 20 Biggest Control Gaps

Cost of non-compliance - Business comes to a halt

Source: Verizon 2024 Payment Security Report -Bottom-20 lists



## Challenges with FIM Deployments



## Not the Right Sensor

Sensors responsible for FIM are found using self-signed certificates



## Fail to Cover Blind Spots

FIM on Network Devices, Container-based FIM, File Access Monitoring (FAM)



## Alert Fatigue

Inability to distinguish between legitimate changes from patches and updates and potentially malicious activity

## **Challenges with Traditional FIM Solutions**

#### **Unauthorized File Access**

Unable to detect unauthorized access attempts



#### **User Impersonation**

Cannot identify user impersonation during file changes





#### **Lack of Threat Intelligence**

Cannot detect malicious hashes dropped in critical locations



Extremely difficult to use and manage



#### FIM **Challenges**



#### **Detecting White Noise**

Inability to distinguish between legitimate changes from patches and updates and potentially malicious activity

# The Solution and Its Capabilities





## One Platform for Most Comprehensive **FIM Coverage**

#### **Scanner Appliance**

Agentless FIM

Scan-based FIM on network devices

Detect configuration changes in network devices such as routers, switches, and firewalls.





#### **Cloud Agent**

Agent-based FIM

Real time monitoring for servers and endpoints

Real time File Access Monitoring (FAM)

Threat detection

























#### **Container Sensor**

Container Runtime Security

Real time FIM on containers

Track unauthorized access to critical files on containers

#### **Qualys FIM**







#### **Noise Cancellation**

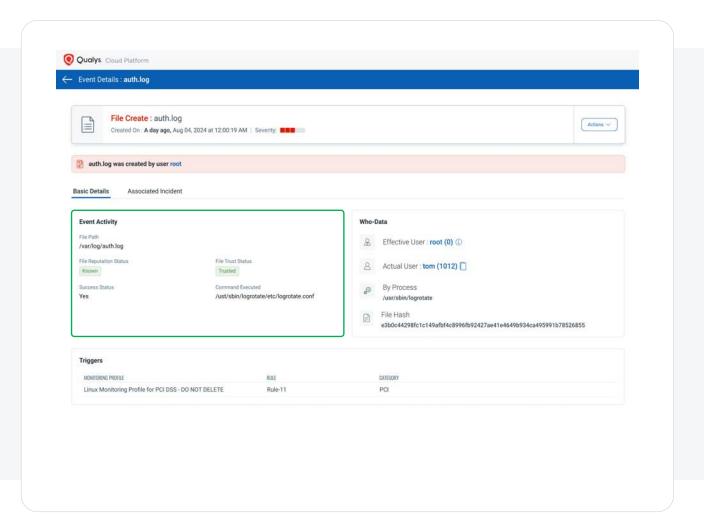


Trust Status - Automated reconciliation of change events from known vendor updates and patches



## User and Process based event suppression:

Eliminate 90%+ of false positives by excluding FIM events generated by known good users and processes



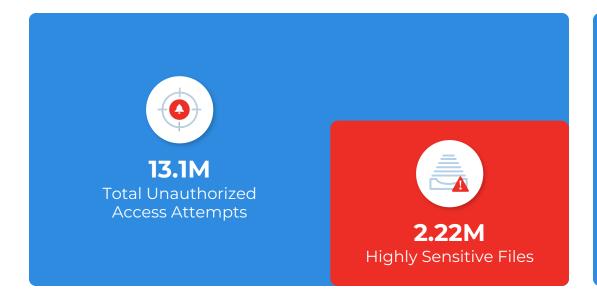
## File Access Monitoring (FAM)

15%

Of unauthorized access attempts targeted highly sensitive.





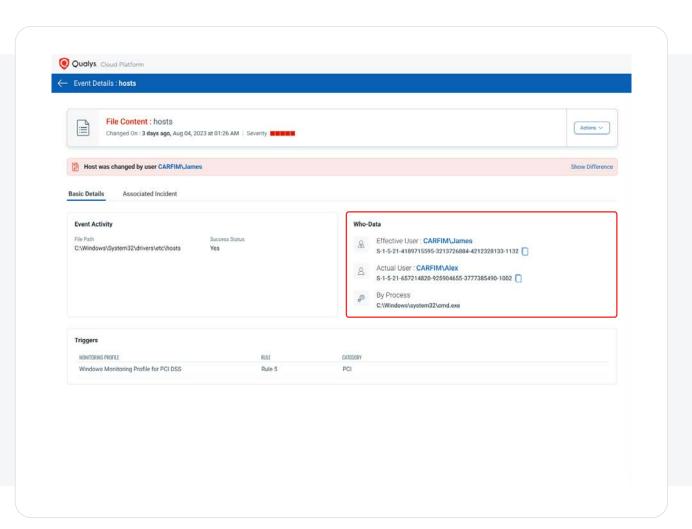




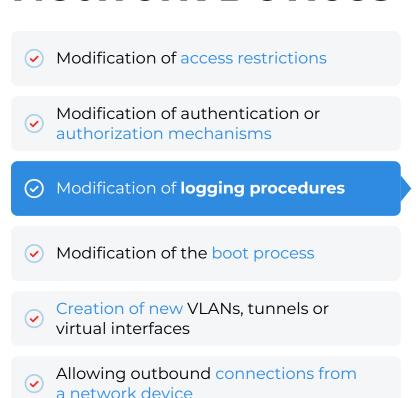
## **Identify User Impersonation**

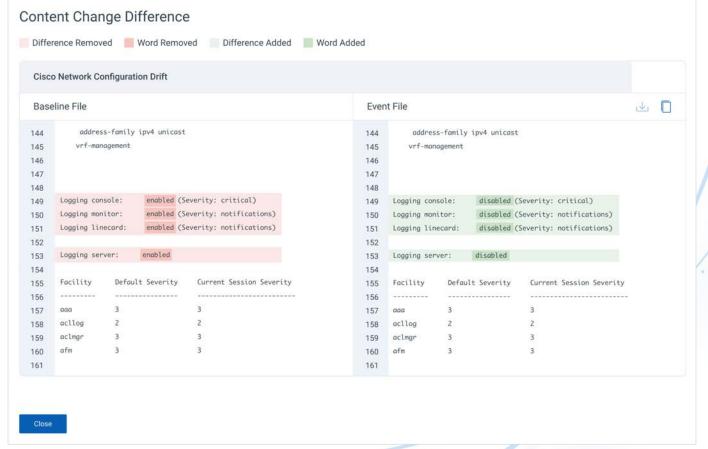


**Detects** when a user impersonates another to gain unauthorized access



## Detect High Risk Activities on Your Network Devices





**Enabling shell access** 

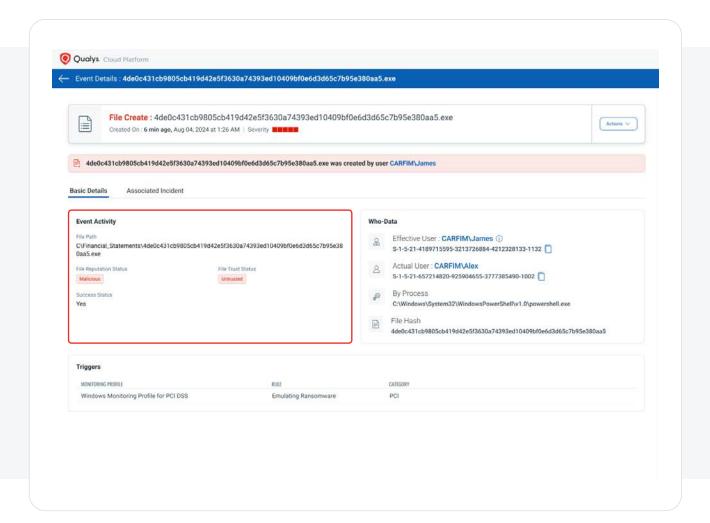
## **Integrated Threat Intelligence**



Built-in threat intelligence enriches file reputation status for binaries and portable executable files



Quickly identify malicious or suspicious hashes in monitored locations





#### What You'll See in the Demo

- Easy onboarding
- Real-time alerts for Sensitive data access
   on containers
- User impersonation detection
- FIM on network devices
- Malicious hash detection
- Automated noise cancellation
- Automated FIM Report for PCI 4.0

## Demo





## **Key Takeaways**

## **Qualys FIM Highlights**



No more manual reports



No more siloed tools



No more fire drills during Audits



No more being in Continuous Audit mode



PCI DSS 4.0 Ready



## Latest Updates and Roadmap

#### **Latest Updates**



File Access Monitoring (FAM) to detect unauthorized access to sensitive data



FIM on containers



User impersonation detection



FIM on network devices

#### Roadmap

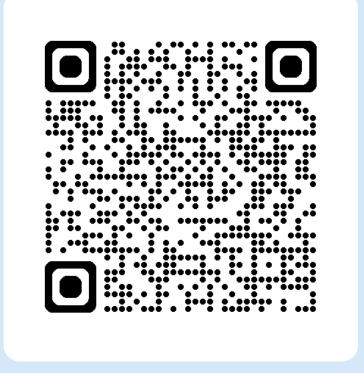
- Fully automated workflow for on-boarding FIM
- Automated noise cancellation
- Response capabilities in FIM ability to execute commands or scripts on associated hosts in response to FIM events, enabling immediate action and remediation.
- Audit Trails in FIM to track FIM Profile modifications
- FIM Executive Summary Report



**\_**Transurban

## Simon Gaiser - CISSP

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Free Trial of Qualys FIM
and get executive FIM
report for PCI 4.0

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