Tanium Integrity Monitor User Guide

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Integrity Monitor overview

With Integrity Monitor, you can simplify regulatory compliance for your enterprise by consolidating tools and accomplishing the following tasks:

- Continuously monitor critical operating system (OS), application, and log files and critical Windows registry paths.
- Deploy continuous monitoring for common or new attack vectors to any dynamic group of computers or across the enterprise.
- Go from alert to active investigation using other modules on the Tanium platform. Automatically send emails to open incidents for suspicious events in incident response systems with Tanium™ Connect.
- Automatically identify approved events based on change requests or tasks by integrating with ServiceNow Change Management.
- Automatically send events to Security Information and Event Management (SIEM) solutions; Security Orchestration, Automation and Response (SOAR) solutions; and other data lakes or log solutions for analysis and auditing with Connect.

File and registry monitoring

About this task

Define scan settings for computer groups using monitors. Then, use watchlists to specify files, directories, or Windows registry paths that you want to monitor for changes, and target the Tanium Client managed endpoints where Integrity Monitor should watch those items. After you create and deploy watchlists and monitors, Integrity Monitor records events on the included endpoints.

All monitors perform hash monitoring for files included in specified watchlists. Hash monitoring uses periodic file index scans to check for changes to the file hash or metadata of files. Hash monitoring uses the Tanium™ Client Index Extension. For more information, see Tanium Client Index Extension User Guide.

On Windows or Linux endpoints, you can optionally perform event monitoring as well. Event

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monitoring records real-time change events, such as create, write, delete, or rename for files or Windows registry values in specified watchlists. This method records the specific operation and the associated user or process path. Event monitoring uses the Tanium™ Client Recorder Extension. For more information, see Tanium Client Recorder Extension User Guide.

Rules and labels

Create rules to automatically label events, which can help you identify events of concern. Labels can indicate events that are expected or planned, or which events might need investigation or remediation.

Interoperability with other Tanium products

ServiceNow

The Tanium™ File Integrity Monitoring integration can automatically label events based on change requests or change tasks in ServiceNow. You can then determine which events are authorized and filter out events within authorized change windows.

For more information, see Integrating with IT workflows in ServiceNow on page 92.

Tanium Connect

You can access events from Integrity Monitor in Connect using saved questions.

In Tanium Connect 5.8.54 and later, you can also configure Integrity Monitor as a connection source to export watchlist data to Connect.

For more information, see Tanium Connect User Guide: Connect overview.

Tanium™ Reporting

Integrity Monitor works with Reporting for additional reporting of related data. Integrity Monitor features reports that provide data visualization of Integrity Monitor concepts.

Integrity Monitor - Health

The **Integrity Monitor - Health** board displays the health status of Integrity Monitor on monitored

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endpoints. The **Integrity Monitor - Health** board contains the **Endpoint Health** panel.

Integrity Monitor - Summary

The **Integrity Monitor - Summary** board displays information about the operation and effectiveness of Integrity Monitor based on change events on endpoints. The following panels are in the **Integrity Monitor - Summary** board:

- Endpoints by OS Platform
- Active Watchlists
- Event Count

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Gaining organizational effectiveness with Integrity Monitor

The four key organizational governance steps to maximizing the value that is delivered by Integrity Monitor are as follows:

- Develop a dedicated change management process. For more information, see Change management on page 12.
- Define distinct roles and responsibilities. For more information, see RACI chart on page 13.
- Track operational maturity. For more information, see Operational metrics on page 15.
- Validate cross-functional alignment. For more information, see Organizational alignment on page 15.

Change management

Develop a tailored, centralized change management process for integrity monitoring activities, taking into account the new capabilities provided by Tanium.

- Update SLAs for file and registry integrity monitoring activities, from identification to remediation of unapproved changes.
- Identify key resources in the organization to review and approve changes to integrity monitoring requirements to ensure minimal unexpected or unapproved changes.
- Align activities to key resources for Tanium integrity monitoring activities across security, operations, and risk/compliance teams.
- Identify maintenance windows for all integrity monitoring changes to optimize integrity monitoring effectiveness.
- Create a Tanium steering group (TSG) for integrity monitoring activities, to expedite reviews and approvals of processes that align with SLAs.

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RACI chart

A RACI chart identifies the team or resource who is **R**esponsible, **A**ccountable, **C**onsulted, and **I**nformed, and serves as a guideline to describe the key activities across the security, risk/compliance, and operations teams. Every organization has specific business processes and IT organization demands. The following table represents Tanium's point of view for how organizations should align functional resources against integrity monitoring. Use the following table as a baseline example.

RACI chart for Tanium Integrity Monitor

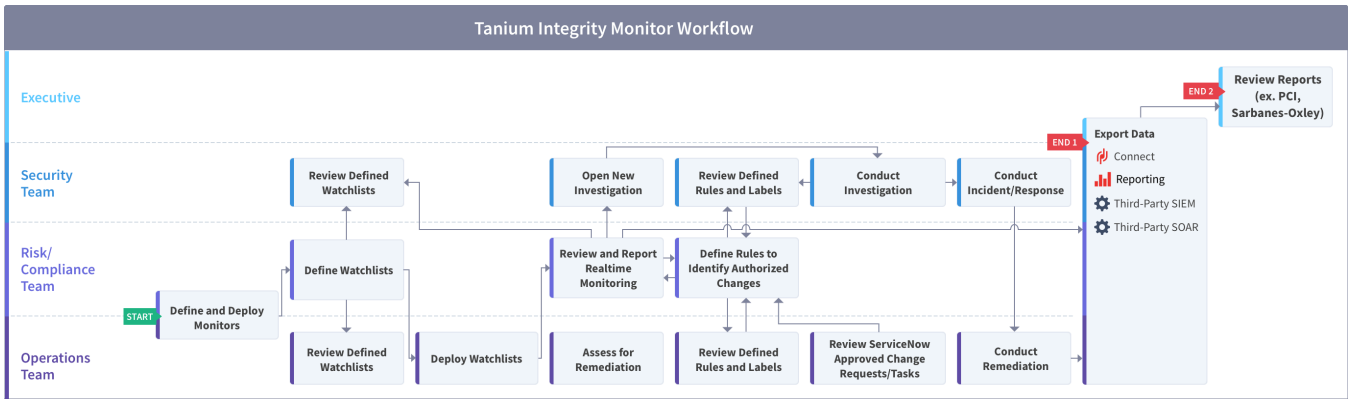
Task	Security	Operations	Risk/ Compliance	Executive	Rationale
Define and deploy monitors	C	R/A	R/A	I	The risk/compliance and operations teams share the responsibility of creating monitors that define the scan settings and intervals used for each computer group, in consultation with the security team. The operations team deploys the monitors to Tanium Client managed endpoints.
Define and deploy watchlists	C	C	R/A	I	The risk/compliance team creates watchlists that identify files and registry paths to be monitored, with review and input from the security and operations teams, based on regulatory compliance (such as PCI or Sarbanes-Oxley) and security requirements. The operations team deploys the watchlists to endpoints.
Monitor events in real time	C	C	R/A	I	The risk/compliance team owns real-time monitoring and review of the events that result from creation, deletion, and changes to files or registry paths in the deployed watchlists. The security and operations teams are consulted, and all three teams review results to make adjustments to watchlists as necessary.
Use rules to	C	C	R/A	-	Labels are automatically applied by rules and,

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Task	Security	Operations	Risk/ Compliance	Executive	Rationale
apply labels					optionally, by integration with IT workflows in ServiceNow Change Management. The risk/ compliance team creates rules and labels, with review and input from the operations and security teams.
Investigate unexpected events	R/A	-	C	I	The security team performs active investigations of unexpected events in consultation with the risk/compliance team.
Remediate unapproved events	C	C	R/A	I	The operations team remediates events determined to be unapproved, in consultation with the security and risk/compliance teams. The executive team is informed of the final remediation.
Report compliance data	C	R/A	C	I	The risk/compliance team, with input from the security and operations teams, configures reporting of unexpected events (typically unlabeled events) and, optionally, expected events (typically events with specific labels). Using Connect, events can be sent to an external repository, such as a SIEM or SOAR solution, ServiceNow, or a SQL database.
Review status	I	I	I	I	Reporting boards show aggregated data from events and are reviewed by all teams.
Routinely review compliance data from reports	-	-	R/A	I	The risk/compliance team is responsible for reporting compliance data from Reporting and Connect to the executive team and to auditors. External repositories such as a SIEM or a SQL database provide long-term storage for compliance data for auditing.

Figure 1. Integrity monitoring workflow (click image to enlarge)

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Organizational alignment

Successful organizations use Tanium across functional silos as a common platform for high-fidelity endpoint data and unified endpoint management. Tanium provides a common data schema that enables security, operations, and risk/compliance teams to assure that they are acting on a common set of facts that are delivered by a unified platform.

In the absence of cross-functional alignment, functional silos often spend time and effort in litigating data quality instead of making decisions to improve integrity monitoring.

Operational metrics

Integrity Monitor maturity

Managing an integrity monitoring program successfully includes operationalization of the technology and measuring success through key benchmarking metrics. The four key processes to measure and guide operational maturity of your Tanium Integrity Monitor program are as follows:

Processes to measure Tanium Integrity Monitor maturity

Process	Description
Usage	How and when Tanium Integrity Monitor is used in your organization (for example, whether Integrity Monitor is supplemental for another legacy tool)
Automation	How Tanium Integrity Monitor is automated across endpoints, and how well it is leveraged in the automation

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Process	Description
	of other systems
Functional Integration	How integrated Tanium Integrity Monitor is, across security, operations, and risk/compliance teams
Reporting	How Tanium Integrity Monitor reporting is automated and who the audience of Integrity Monitor reporting is

Benchmark metrics

Use the following table to determine the maturity level for Tanium Integrity Monitor in your organization.

Tanium Integrity Monitor maturity levels

		Level 1 (Initializing)	Level 2 (Progressing)	Level 3 (Intermediate)	Level 4 (Mature)	Level 5 (Optimized)
Process	Usage	Integrity Monitor is configured and used by exception; some monitors are deployed to test groups or other small deployments	Integrity Monitor is used to audit the effectiveness of legacy tooling; simple watchlists are created and deployed	Integrity Monitor is used as the default tool for file and registry integrity monitoring only on systems in scope for regulatory compliance; legacy tooling might be used to audit file integrity monitoring effectiveness; multiple watchlists have	Integrity Monitor is used as default tool for file and registry integrity monitoring on all critical endpoints; legacy tooling might be used to audit file integrity monitoring effectiveness; complex watchlists with includes and excludes have been created and reused	Integrity Monitor is used as default tool for file and registry integrity monitoring on all endpoints; watchlists are aligned to regulatory compliance requirements and surveys from business owners that identify critical and custom applications

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		Level 1 (Initializing)	Level 2 (Progressing)	Level 3 (Intermediate)	Level 4 (Mature)	Level 5 (Optimized)
				been created and reused		
	Automation	Rules are not used; review of events is fully manual	Rules are not used; review of events is fully manual	Rules are in use to apply labels to events	Well-tuned rules are in use to apply labels to all events	Well-tuned rules are in use to apply labels to all events; ServiceNow integration is used to label events associated with approved change requests or tasks
	Functional integration	Functionally siloed	Consult with or take direction from peers in first-level risk/ compliance and security teams	Consult with or take direction from peers in first- and second-level risk/compliance and security teams; all data is sent to a SIEM, SOAR, or other data lake or log solution using Connect; default labels are used for events	Consult with or take direction from peers in first- and second-level risk/compliance, security, threat management, and security operations center teams; all data is sent to a SIEM, SOAR, or other data lake or log solution using Connect; custom labels are used for events	Consult with or take direction from peers in first- and second-level risk/ compliance, security, threat management, and security operations center teams; only labeled events are sent to a SIEM, SOAR, or other data lake or log solution using Connect; remediation policies are in place in Tanium™ Enforce.
	Reporting	Manual	Manual; the Integrity Monitor	Automated; Reporting boards specific to your	Automated; Reporting boards specific to your	Automated; Reporting boards specific to your

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		Level 1 (Initializing)	Level 2 (Progressing)	Level 3 (Intermediate)	Level 4 (Mature)	Level 5 (Optimized)
			Reporting gallery is imported	environment are created	environment are created, and Reporting reports are distributed automatically	environment are created, and Reporting reports are distributed automatically
Metrics	Integrity Monitor Server Coverage	0–79%	80–88%	89–94%	95–98%	99–100%
	Mean Unexpected Change Events per Endpoint	Frequent spikes or sharply upward trends in unexpected events	Occasional spikes or upward trends in unexpected events	Minimal spikes in unexpected events	Minimal spikes in unexpected events	No events are unexpected
	Expected vs Unexpected Change Events	21–100% of events are unexpected	11–20% of events are unexpected	6–10% of events are unexpected	1–5% of events are unexpected	No events are unexpected

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Integrity Monitor requirements

Review the requirements before you install and use Integrity Monitor.

Core platform dependencies

Make sure that your environment meets the following requirements:

- Tanium license that includes the Risk & Compliance Plus bundle. For more information about how to get a bundle, see Tanium Solutions & Bundles.
- Tanium™ Core Platform servers
- Tanium™ Client:

  Any supported version of Tanium Client. For more information, see Client version and host system requirements. If you use a Client version that is not listed, certain product features might not be available, or stability issues can occur that can only be resolved by upgrading to one of the listed Client versions.

For more information, see Tanium Client Management User Guide: Client version and operating system requirements.

If you use a client version that is not listed, certain product features might not be available, or stability issues can occur that can only be resolved by upgrading to one of the listed client versions.

Computer group dependencies

When you first sign in to Tanium Console after a fresh installation of Tanium Server, the server automatically imports the computer groups that Integrity Monitor requires:

- **All AIX**
- **All Linux**
- **All Solaris**

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- **All Windows**
- **All Windows Servers**
- **All Windows Server 2022**
- **All Windows Server 2019**
- **All Windows Server 2016**
- **All Windows Server 2012 R2**
- **All Windows Server 2012**
- **All Windows Server 2008 R2**

For earlier versions of the Tanium Server, or after upgrading from an earlier version, you must manually create the computer groups. For more information, see Security exclusions on page 26. For a list of Integrity Monitor tools, see Tanium Client Management User Guide: Reference: Client extensions and endpoint tools used for Tanium solutions. For more information, see Tanium Console User Guide: Create a computer group.

Solution dependencies

Other Tanium solutions are required for Integrity Monitor to function (required dependencies) or for specific Integrity Monitor features to work (feature-specific dependencies). The installation method that you select determines if the Tanium Server automatically imports dependencies or if you must manually import them.

Note: Some Integrity Monitor dependencies have their own dependencies, which you can see by clicking the links in the lists of Required dependencies on page 21 and Feature-specific dependencies on page 21. Note that the links open the user guides for the latest version of each solution, not necessarily the minimum version that Integrity Monitor requires.

Tanium recommended installation

If you select **Tanium Recommended Installation** when you import Integrity Monitor, the Tanium Server automatically imports all your licensed solutions at the same time. For more information, see

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Tanium Console User Guide: Import all modules and services.

Import specific solutions

If you select only Integrity Monitor to import, the Tanium Server automatically imports the latest available versions of any required dependencies that are missing. If some required dependencies are already imported but their versions are earlier than the minimum required for Integrity Monitor, the server automatically updates those dependencies to the latest available versions.

Required dependencies

Integrity Monitor has the following required dependencies:

- Tanium™ Client Index Extension*
- Tanium™ Client Recorder Extension*
- Tanium™ Endpoint Configuration
- Tanium™ Interact
- Tanium™ Data Service (TDS)
- Tanium™ RDB Service
- Tanium™ Secrets Service

* = The required version of this client extension is installed as part of Integrity Monitor. The Client Recorder Extension also includes the Tanium Driver.

Feature-specific dependencies

Integrity Monitor has the following feature-specific dependencies at the specified minimum versions:

- Tanium™ Connect 4.0 or later for event export
- Tanium Connect for watchlist data export
- Tanium Gateway to access Integrity Monitor from third-party integrations. For more

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information, see Reference: Gateway examples for Integrity Monitor on page 111.

Client extensions and endpoint tools

Tanium Endpoint Configuration installs Client Extensions and other tools for endpoints. Client extensions perform tasks that are common to certain Tanium solutions. Each Client Extension and tool might have recommended security exclusions to allow them to run without interference. For a list of all Client Extensions and tools, see Reference: Client extensions used for Tanium solutions.

Note: The change management feature of Endpoint Configuration might affect the version of each endpoint tool installed on endpoints.

Endpoints

Supported operating systems

The following Tanium Client managed endpoint operating systems are supported with Integrity Monitor.

Supported operating systems for Tanium Client managed endpoints

Operating System	Version	Notes
Windows	• Windows 7 or later • Windows Server 2008 R2 or later	
Linux	Same as Tanium Client support. For more information, see Tanium Client Management User Guide: Client version and operating system requirements .	Integrity Monitor uses the Client Recorder Extension when you enable the **Collect process and user attribution information** option for a monitor. The Client Recorder Extension does not support CentOS and Red Hat Enterprise Linux versions 5.3 and earlier. Endpoints require version 5.4 or later of CentOS or Red Hat Enterprise Linux. eBPF as an event source for the Client Recorder Extension requires specific operating systems. For more information, see Tanium Client Recorder

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Operating System	Version	Notes
		Extension User Guide . The debugfs file system is required. By default this is mounted under sys/kernel/debug . Make sure that sys/kernel/debug is not unmounted. If you are building a custom kernel, make sure that the DEBUG_FS option is enabled. DNS event recording capability is provided on Linux endpoints where eBPF is enabled. The Client Recorder Extension provides SELinux policies for the following distributions and versions: • Red Hat Enterprise Linux (RHEL) 5.4 and later, 6.x, 7.x, 8.x, and 9.x • CentOS 5.4 and later, 6.x, 7.x, 8.x, and 9.x • Amazon Linux 2 LTS (2017.12) At this time, SELinux is not supported on other Linux distributions. On endpoints where the recorder is not supported, event monitoring is unavailable, and only hash monitoring is supported. Live Response Memory Collection is not supported on Amazon Linux 2 (ARM) endpoints. Live Response is not supported on CentOS5 endpoints. For Linux endpoints: • Install the most recent stable version of the audit daemon and audispd-plugins. For information on deprecated parameters in the audit daemon configuration, see Tanium Client Recorder Extension User Guide. See the specific operating system documentation for instructions. • Be aware that when using immutable "-e 2" mode, the recorder adds Tanium audit rules in front of the immutable flag. When using the -e 2 flag on Linux, the endpoint must be restarted after the recorder is enabled. • Be aware that when using the failure "-f 2" mode, the Linux kernel panics in the event that the auditd message is lost. The recorder does not add

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Operating System	Version	Notes
		audit rules if this configuration is detected. • If using eBPF for event data, the entire kernel headers package and the entire kernel devel package must be enabled on RHEL and CentOS versions 7.8 to 8.1 endpoints. This is a requirement of BCC. eBPF adds a BCC library that is compiled on the endpoint. This library is recompiled every time the endpoint is restarted.
AIX	• AIX 7.1.4 or later	The IBM XL C++ runtime libraries file set (xlC.rte), version 16.1.0.0 or later, and the IBM LLVM runtime libraries file set (libc++.rte) must be installed. For more information, see Tanium Client Management User Guide: Deploy the Tanium Client to AIX endpoints using a package file .
Solaris	Same as Tanium Client support. For more information, see Tanium Client Management User Guide: Client version and operating system requirements .	

Disk space requirements

On managed endpoints, Integrity Monitor requires at least 1 GB of disk space. 3 GB is recommended.

CPU and memory requirements

The CPU demand on the endpoint averages less than 2.5% for each CPU core.

The Client Recorder Extension does not start on endpoints with a single logical core without updating the **CX.recorder.EnableSingleCpuRequirement** configuration setting to 0. To update CX.recorder.EnableSingleCpuRequirement to 0, edit the **Recorder - Set Recorder Extension Setting [OS]** package to add a parameter with the configuration key `EnableSingleCpuRequirement` and a value of `0`, and deploy the package to appropriate endpoints. Alternatively, you can run the following command from the Tanium Client directory on endpoints to update this configuration setting:

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- (Windows) `TaniumClient.exe config set CX.recorder.EnableSingleCpuRequirement 0`
- (Linux) `./TaniumClient config set CX.recorder.EnableSingleCpuRequirement 0`

A minimum of 4 GB RAM is recommended on each endpoint device.

Permission recording requirements

Linux endpoints do not have any special requirements to monitor changes in file permissions.

To monitor changes in file permissions on Windows endpoints, you must configure the **Audit File System** permission under **Local Security Policy** on the endpoint. For more information, see Prepare Endpoints on page 42.

Client Recorder Extension

Integrity Monitor uses the Tanium Client Recorder Extension to gather data from endpoints when you enable the **Collect process and user attribution information** option for a monitor. For more information, see Client Recorder Extension User Guide.

Integrity Monitor does not use the Client Recorder Extension for Solaris and AIX endpoints.

Tanium Event Recorder Driver

Integrity Monitor uses the Tanium Event Recorder Driver to record file and registry events on supported Windows endpoints.

The Tanium Event Recorder Driver is installed automatically when you deploy a monitor with the **Collect process and user attribution information** option enabled. For more information, see Create or edit a monitor on page 53.



Note: If the Tanium Event Recorder Driver is updated, endpoints that use Integrity Monitor require a reboot to see the recorder status.

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Third-party software

To integrate Integrity Monitor with an IT workflow in ServiceNow Change Management, ServiceNow Madrid or later is required.

To use Integrity Monitor with the ServiceNow Tanium File Integrity and Unauthorized Change Monitoring application, ServiceNow Tokyo or later is required.

Host and network security requirements

Specific ports and processes are needed to run Integrity Monitor.

Ports

The following ports are required for Integrity Monitor communication.

Ports for Integrity Monitor communication

Source	Destination	Port	Protocol	Purpose
Module Server	Module Server (loopback)	17456	TCP	Internal communication; firewall rules are not typically required

Best Practice: Configure firewall policies to open ports for Tanium traffic with TCP-based rules instead of application identity-based rules. For example, on a Palo Alto Networks firewall, configure the rules with service objects or service groups instead of application objects or application groups.

Security exclusions

If antivirus (AV) or other security software is in use in the environment to monitor and block unknown host system processes, Tanium requires that a security administrator create exclusions to allow the Tanium processes to run without interference. This software can include security applications that are included with an endpoint operating system, such as fapolicyd on some Linux distributions, or Microsoft Defender on Windows. The configuration of these exclusions varies depending on the security software.

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Note: If the required exclusions are not configured, or if Tanium suspects interference from AV or security software, Tanium might require you to remove or disable the AV or security software temporarily for the purposes of troubleshooting and restore it once troubleshooting is complete.

Integrity Monitor security exclusions for Tanium Core Platform servers (Windows deployments only)

Target Device	Notes	Exclusion Type	Process
Tanium Module Server		Process	<Module Server>\services\integrity-monitor-service\node.exe
		Process	<Module Server>\services\endpoint-configuration-service\TaniumEndpointConfigService.exe

Integrity Monitor security exclusions for endpoints

Endpoint OS	Notes	Exclusion Type	Process
Windows x86 and x64		File	<Tanium Client>\extensions\TaniumIndex.dll
		File	<Tanium Client>\extensions\TaniumIndex.dll.sig
		File	<Tanium Client>\extensions\TaniumIntegrityMonitor.dll
		File	<Tanium Client>\extensions\TaniumIntegrityMonitor.dll.sig
		File	<Tanium Client>\extensions\TaniumRecorder.dll
		File	<Tanium Client>\extensions\TaniumRecorder.dll.sig
		File	<Tanium Client>\extensions\recorder\proc.bin
		File	<Tanium Client>\extensions\recorder\recorder.db
		File	<Tanium Client>\extensions\recorder\recorder.db-shm
		File	<Tanium Client>\extensions\recorder\recorder.db-wal

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Endpoint OS	Notes	Exclusion Type	Process
		File	<Tanium Client>\extensions\index\index.db
		File	<Tanium Client>\extensions\index\index.db-shm
		File	<Tanium Client>\extensions\index\index.db-wal
		File	<Tanium Client>\TaniumClientExtensions.dll
		File	<Tanium Client>\TaniumClientExtensions.dll.sig
	Endpoints with Toolset version 2.7 or later	Folder	<Tanium Client>\python312
	Endpoints with Toolset version 2.7 or later	Folder	<Tanium Client>\TPython312
	Endpoints with a Toolset version earlier than 2.7	Process	<Tanium Client>\Python38\TPython.exe
	Endpoints with a Toolset version earlier	Folder	<Tanium Client>\Python38

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Endpoint OS	Notes	Exclusion Type	Process
	than 2.7		
	Endpoints with Toolset version 2.7 or later	Process	<Tanium Client>\python312\TPython.exe
		Process	<Tanium Client>\TaniumCX.exe
		Folder	<Tanium Client>\extensions\index
		Folder	<Tanium Client>\extensions\integrity-monitor
		File	C:\Windows\System32\drivers\TaniumRecorderDrv.sys
		File	C:\Windows\system32\drivers\TaniumProcessMonitor.dll
		Process	<Tanium Client>\tools\driver\service\TaniumDriverSvc.exe
	x86 endpoints	Process	<Tanium Client>\tools\driver\TaniumDriverCtl.exe
	x86 endpoints	Process	<Tanium Client>\tools\driver\TaniumDriverSvc.exe
	x86 endpoints	File	<Tanium Client>\tools\driver\TaniumProcessMonitor.dll
	x64 endpoints	Process	<Tanium Client>\tools\driver\TaniumDriverCtl64.exe
	x64 endpoints	Process	<Tanium Client>\tools\driver\TaniumDriverSvc64.exe
	x64	File	<Tanium Client>\tools\driver\TaniumProcessMonitor64.dll

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Endpoint OS	Notes	Exclusion Type	Process
	endpoints		
	x64 endpoints	File	C:\Windows\SysWOW64\TaniumProcessMonitor.dll
Linux x86 and x64		Process	<Tanium Client>/extensions/recorder/TaniumAuditPipe
		File	<Tanium Client>/libTaniumClientExtensions.so
		File	<Tanium Client>/libTaniumClientExtensions.so.sig
		File	<Tanium Client>/extensions/libTaniumIndex.so
		File	<Tanium Client>/extensions/libTaniumIndex.so.sig
		File	<Tanium Client>/extensions/libTaniumIntegrityMonitor.so
		File	<Tanium Client>/extensions/libTaniumIntegrityMonitor.so.sig
		File	<Tanium Client>/extensions/libTaniumRecorder.so
		File	<Tanium Client>/extensions/libTaniumRecorder.so.sig
		File	<Tanium Client>/extensions/recorder/proc.bin
		File	<Tanium Client>/extensions/recorder/recorder.db
		File	<Tanium Client>/extensions/recorder/recorder.db-shm
		File	<Tanium Client>/extensions/recorder/recorder.db-wal
		File	<Tanium Client>/extensions/recorder/recorder.auditpipe
		File	<Tanium Client>/extensions/index/index.db
		File	<Tanium Client>/extensions/index/index.db-shm
		File	<Tanium Client>/extensions/index/index.db-wal

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Endpoint OS	Notes	Exclusion Type	Process
		Process	<Tanium Client>/TaniumCX
	Endpoints with a Toolset version earlier than 2.7	Process	<Tanium Client>/python38/python
	Endpoints with Toolset version 2.7 or later	Folder	<Tanium Client>/python312
	Endpoints with Toolset version 2.7 or later	Folder	<Tanium Client>/TPython312
	Endpoints with Toolset version 2.7 or later	Process	<Tanium Client>/python312/python
	Endpoints with Toolset version 2.7 or	Process	<Tanium Client>/python312/bin/pybin

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Endpoint OS	Notes	Exclusion Type	Process
	later		
		Folder	<Tanium Client>/extensions/index
		Folder	<Tanium Client>/extensions/integrity-monitor

User role requirements

Predefined roles grant the following permissions, which are required to use Integrity Monitor functionality:

- solution permissions on page 33
- requirements on page 36: The solution permissions automatically provide some of these permissions.

To review a summary of the predefined roles, see Set up Integrity Monitor users on page 48.

Some Integrity Monitor solution permissions provide permissions that are associated with other solutions. Furthermore, all the platform content permissions and some solution permissions apply to content sets that might contain content for other solutions in addition to Integrity Monitor. If you create custom roles for Integrity Monitor users, be sure to assign all the solution permissions and content set permissions that are required for Integrity Monitor functionality. If you are not sure which permissions are required for a custom role, view the permissions of the predefined roles. For more information, see the following sections of the Tanium Console User Guide:

- RBAC overview (provides an overview of roles, permissions, and content sets)
- Provided role permissions
- View effective role permissions
- Configure a custom role



Note: Do not assign the **Integrity Monitor Service Account** and **Integrity Monitor Service Account - All Content Sets** roles to users. These roles are for internal purposes only.

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Integrity Monitor solution permissions

Privilege	Integrity Monitor Administrator [1]	Integrity Monitor Operator [1]	Integrity Monitor Author [1]	Integrity Monitor User [1]	Integrity Monitor Read Only User [1]	Integrity Monitor Endpoint Configuration Approver [1]
Integrity Monitor View the Integrity Monitor workbench	✓ SHOW TROUBLESHOOTING	✓ SHOW	✓ SHOW	✓ SHOW	✓ SHOW	✓ SHOW
Integrity Monitor Admin Settings For internal purposes only	✓ WRITE	✗	✗	✗	✗	✗
Integrity Monitor API Perform Integrity Monitor operations using the API	✓ EXECUTE	✓ EXECUTE	✓ EXECUTE	✓ EXECUTE	✓ EXECUTE	✓ EXECUTE
Integrity Monitor Deploy MONITORS: Deploy monitors RULES: Deploy rules WATCHLISTS: Deploy watchlists	✓ MONITORS RULES WATCHLISTS	✓ MONITORS RULES WATCHLISTS	✗	✗	✗	✗
Integrity Monitor Endpoint Configuration Approve Integrity Monitor configuration changes in Tanium Endpoint Configuration	✗	✗	✗	✗	✗	✓ APPROVE

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Privilege	Integrity Monitor Administrator [1]	Integrity Monitor Operator [1]	Integrity Monitor Author [1]	Integrity Monitor User [1]	Integrity Monitor Read Only User [1]	Integrity Monitor Endpoint Configuration Approver [1]
Integrity Monitor Execute Scheduled Run tasks in the IM service with the IM schedule plugin, including running ServiceNow scheduled tasks.	✓ TASK	✗	✗	✗	✗	✗
Integrity Monitor Integrations Create, edit, and schedule integrations with IT workflows	✓ ADMIN	✓ ADMIN	✗	✗	✗	✗
Integrity Monitor Labels View, create, and edit labels	✓ READ WRITE	✓ READ WRITE	✓ READ WRITE	✓ READ	✓ READ	✓ READ
Integrity Monitor Monitor Event Labels View, create, edit, and delete monitor event labels and label notes Send labeled events to Connect manually [2]	✓ READ WRITE DELETE	✓ READ WRITE DELETE	✓ READ WRITE	✓ READ WRITE	✓ READ	✗
Integrity Monitor	✓	✓	✓	✓	✓	✗

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Privilege	Integrity Monitor Administrator [1]	Integrity Monitor Operator [1]	Integrity Monitor Author [1]	Integrity Monitor User [1]	Integrity Monitor Read Only User [1]	Integrity Monitor Endpoint Configuration Approver [1]
Monitor Events View monitor events	READ	READ	READ	READ	READ	
Integrity Monitor Monitors View, create, and edit monitors	✓ READ WRITE	✓ READ WRITE	✓ READ WRITE	✓ READ	✓ READ	✓ READ
Integrity Monitor Reports Access reports in the Integrity Monitor content set	✓ READ	✓ READ	✗	✓ READ	✓ READ	✗
Integrity Monitor Rules View, create, and edit rules	✓ READ WRITE	✓ READ WRITE	✓ READ WRITE	✓ READ WRITE	✓ READ	✗
Integrity Monitor Settings View and update general settings, templates, and default labels	✓ READ WRITE	✓ READ WRITE	✓ READ	✓ READ	✓ READ	✗
Integrity Monitor Watchlists View, create, and edit watchlists	✓ READ WRITE	✓ READ WRITE	✓ READ WRITE	✓ READ	✓ READ	✓ READ

[1] The permissions for this role provide solution permissions for other solutions. To view the provided permissions, see View

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Privilege	Integrity Monitor Administrator [1]	Integrity Monitor Operator [1]	Integrity Monitor Author [1]	Integrity Monitor User [1]	Integrity Monitor Read Only User [1]	Integrity Monitor Endpoint Configuration Approver [1]

effective role permissions .

[2] To send labeled events to Tanium Connect, you must have Connect installed. You must also have the **Integrity Monitor Monitor Event Labels Write** permission and the **Tanium Connect Connect Event Write** permission, which is provided through the Connect roles. The least privileged Connect role that an Administrator can assign to grant this privilege is Connect User.

Integrity Monitor administration and platform content permissions

Permission	Permission Type	Integrity Monitor Administrator	Integrity Monitor Operator	Integrity Monitor Author	Integrity Monitor User	Integrity Monitor Read Only User	Integrity Monitor Endpoint Configuration Approver
Action Group	Administration	✓ READ	✓ READ	✓ READ	✓ READ	✓ READ	✓ READ
Action	Platform Content	✓ READ WRITE	✓ READ WRITE	✗	✗	✗	✗
Filter Group	Platform Content	✓ READ	✓ READ	✓ READ	✓ READ	✓ READ	✓ READ
Own Action	Platform Content	✓ READ	✓ READ	✗	✗	✗	✗
Package	Platform Content	✓ READ WRITE	✓ READ WRITE	✗	✗	✗	✗

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Permission	Permission Type	Integrity Monitor Administrator	Integrity Monitor Operator	Integrity Monitor Author	Integrity Monitor User	Integrity Monitor Read Only User	Integrity Monitor Endpoint Configuration Approver
Plugin	Platform Content	✓ READ EXECUTE	✓ READ EXECUTE	✓ READ EXECUTE	✓ READ EXECUTE	✓ READ EXECUTE	✓ READ EXECUTE
Saved Question	Platform Content	✓ READ WRITE	✓ READ WRITE	✓ READ	✓ READ	✓ READ	✗
Sensor	Platform Content	✓ READ	✓ READ	✓ READ	✓ READ	✓ READ	✗

To view the content sets to which the platform content permissions apply, see View effective role permissions .

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Installing Integrity Monitor

About this task

Use Tanium Console **Solutions** page to install Integrity Monitor and choose either automatic or manual configuration:

- Automatic configuration with default settings: Integrity Monitor is installed with any required dependencies and other selected products. After installation, the Tanium Server automatically configures the recommended default settings. This option is the best practice for most deployments. For more information, see Import Integrity Monitor with default settings on page 39.
- Manual configuration with custom settings: After installing Integrity Monitor, you must manually configure required settings. Select this option only if Integrity Monitor requires settings that differ from the recommended default settings. For more information, see Import Integrity Monitor with custom settings on page 40.

Before you begin

- Read the release notes.
- Review the Integrity Monitor requirements on page 19.
- If you are upgrading from a previous version, see Upgrading Integrity Monitor on page 51.
- Assign the correct roles to users for Integrity Monitor. Review the User role requirements on page 32.
    - To import the Integrity Monitor solution, you must be assigned the Administrator reserved role or a role that has the **Import Signed Content** permission.
    - To configure the Integrity Monitor action group, you must be assigned the Administrator reserved role, Content Administrator reserved role, or a role that has the **Action Group** write permission.

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Import Integrity Monitor with default settings

Use default settings to get started with installing Integrity Monitor without extra configuration steps.

You can set the Integrity Monitor action group to target the **No Computers** filter group by enabling restricted targeting before importing Integrity Monitor. This option enables you to control Integrity Monitor tools deployment through scheduled actions that are created during the import and that target the Integrity Monitor tools action group. For example, you might want to test Integrity Monitor tools on a subset of endpoints before deploying the Integrity Monitor tools to all endpoints. In this case, you can manually deploy the Integrity Monitor tools to an action group that you configured to target only the subset. To configure an action group, see Targeting actions through action groups. To enable or disable restricted targeting, see Tools deployment and restricted targeting.

To import Integrity Monitor and configure default settings, see Tanium Console User Guide: Import all modules and services. To verify that the correct version is installed after the import, see Verify Integrity Monitor version on page 52.

Default settings for Integrity Monitor

When you import Integrity Monitor with automatic configuration, the following default settings are configured:

Tanium Integrity Monitor default settings

Setting	Default value
Action group	• Restricted targeting disabled (default): `All AIX`, `All Linux`, `All Solaris`, and `All Windows` computer groups • Restricted targeting enabled: `No Computers` computer group
Monitor creation	A monitor is created for each supported operating system (Windows, Linux, Solaris, and AIX). The Windows monitor is targeted only to Windows Server computer groups: **All Windows Server 2008 R2**, **All Windows Server 2012**, **All Windows Server 2012 R2**, **All Windows Server 2016**, **All Windows Server 2019**, and **All Windows Server 2022**. All other monitors are targeted to the associated **All <Operating System>** computer group: **All Linux**, **All AIX**, and **All Solaris**.

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Setting	Default value
	Tip: If one or more of the targeted operating systems are not used in your environment, delete the associated monitors.
Monitor deployments	The monitors are deployed to endpoints.
Watchlist	A watchlist is created for each supported operating system based on the **Critical System Files** template for the operating system. The Windows watchlist is targeted only to Windows Server computer groups: **All Windows Server 2008 R2** , **All Windows Server 2012** , **All Windows Server 2012 R2** , **All Windows Server 2016** , **All Windows Server 2019** , and **All Windows Server 2022** . All other watchlists are targeted to the associated **All <Operating System>** computer group: **All Linux** , **All AIX** , and **All Solaris** . **Tip:** If one or more of the targeted operating systems are not used in your environment, delete the associated watchlists.
Watchlist deployments	The watchlists are deployed to endpoints.

Import Integrity Monitor with custom settings

To import Integrity Monitor without automatically configuring default settings, be sure to clear the **Apply All Tanium recommended configurations** option while performing the steps in Tanium Console User Guide: Import or update specific solutions. When you import with custom settings, default settings are not configured.

Manage solution dependencies

About this task

When you start the Integrity Monitor workbench for the first time, the Tanium Server checks whether all the Tanium modules and shared services (solutions) that are required for Integrity Monitor are installed at the required versions. The Integrity Monitor workbench cannot load unless all required dependencies are installed. If you selected **Tanium Recommended Installation** when you imported Integrity Monitor , the Tanium Server automatically imported all your licensed solutions at the same time. Otherwise, if you manually imported Integrity Monitor and did not import all its dependencies,

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Tanium Console displays a banner that lists the dependencies and the required versions.

Perform the following steps if a banner indicates any Integrity Monitor dependencies are not installed:

1. Install the dependencies as described in Tanium Console User Guide: Import or update specific solutions.
2. From the Main menu, go to **Modules** > **Integrity Monitor** to open the **Overview** page. to open the Integrity Monitor **Overview** page and verify that Console no longer displays a banner to list missing dependencies.

Upgrade Integrity Monitor

For the steps to upgrade Integrity Monitor, see Tanium Console User Guide: Managing Tanium solutions. After the upgrade, verify that the correct version is installed. For more information, see Verify Integrity Monitor version on page 52.

> **Note:** The Integrity Monitor event source is no longer available in Integrity Monitor 3.4.182 and later. After you upgrade to Integrity Monitor 3.4.182 or later, use saved questions to send Integrity Monitor data to external destinations. For more information, see Use Connect to send events on page 89.

After you upgrade Integrity Monitor, see Upgrading Integrity Monitor on page 51 for additional tasks.

Verify Integrity Monitor version

After you import or upgrade Integrity Monitor , verify that the correct version is installed.

1. Refresh your browser.
2. From the Main menu, go to **Modules** > **Integrity Monitor** to open the **Overview** page.
3. To show version information, click Info .

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Configuring Integrity Monitor

About this task

If you did not install Integrity Monitor with the **Apply All Tanium recommended configurations** option, you must enable and configure certain features.

You can set the Integrity Monitor action group to target the **No Computers** filter group by enabling restricted targeting before importing Integrity Monitor. This option enables you to control Integrity Monitor tools deployment through scheduled actions that are created during the import and that target the Integrity Monitor tools action group. For example, you might want to test Integrity Monitor tools on a subset of endpoints before deploying the Integrity Monitor tools to all endpoints. In this case, you can manually deploy the Integrity Monitor tools to an action group that you configured to target only the subset. To configure an action group, see Targeting actions through action groups. To enable or disable restricted targeting, see Tools deployment and restricted targeting.

Prepare Endpoints

About this task

Prepare endpoints to use Integrity Monitor by configuring the permission recording on Windows endpoints and removing the legacy Client Recorder Extension if needed.

(Windows) Configure permission recording

About this task

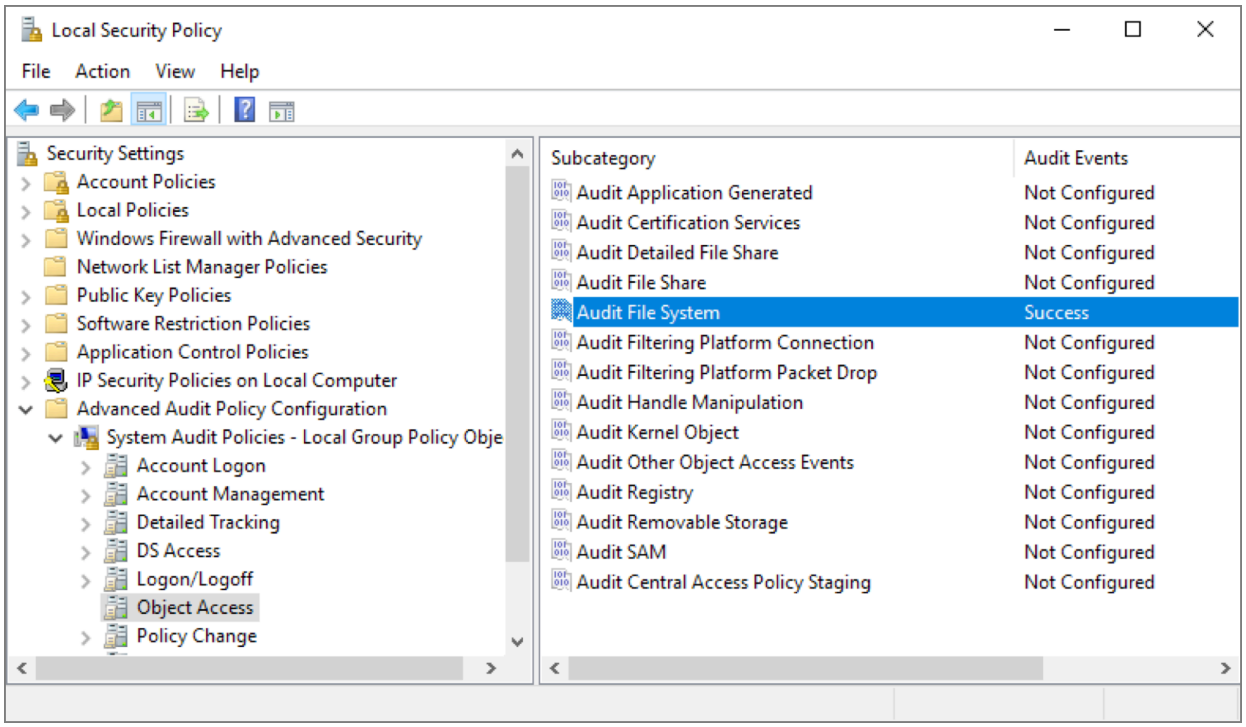
To monitor changes in file permissions, you must configure the **Audit File System** permission under **Local Security Policy** on the endpoint.

Tip: Endpoints that do not have this permission configured return `Recorder - Error: File permission auditing is disabled` when you ask a question using the `Client Extensions - Status` sensor, and they appear in the **Endpoint Health** panel on the Integrity Monitor Overview page.

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To configure the **Audit File System** permission, complete the following steps. (These steps apply to Windows 10 and might vary for different versions of Windows.)

1. From the Control Panel, open **Administrative Tools** > **Local Security Policy**.
2. Go to **Security Settings** > **Advanced Audit Policy Configuration** > **System Audit Policies - Local Group Policy Object** > **Object Access**.
3. Double-click **Audit File System**.
   Figure 2. Audit File System in Windows Local Security Policy



4. Select **Configure the following audit events:** and then select **Success**.
5. Click **OK**.

Result

Note: When you enable the **Permission** change type for a path in a watchlist, Integrity Monitor automatically configures the appropriate System Access Control List (SACL) audit settings for every file and folder in that path for that watchlist.

Remove legacy Client Recorder Extension

About this task

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If Client Recorder Extension version 1.x exists on a targeted endpoint, you must remove it before you install Client Recorder Extension version 2.x tools. To target endpoints where Client Recorder Extension version 1.x exists, ask the question: `Recorder - Legacy Installed`. If the Supported Endpoints column displays **Yes**, you must remove Client Recorder Extension version 1.x from the endpoint before you install Client Recorder Extension 2.x tools. To remove Client Recorder Extension version 1.x, deploy the **Recorder - Remove Legacy Recorder [Operating System]** package to targeted endpoints.

Install and configure Tanium Endpoint Configuration

About this task

If you enabled configuration approvals, the following configuration changes must be approved in Endpoint Configuration before they deploy to endpoints:

- Deploying monitors
- Deploying watchlists
- Deploying rules

Manage solution configurations with Tanium Endpoint Configuration

Tanium Endpoint Configuration delivers configuration information and required tools for Tanium Solutions to endpoints. Endpoint Configuration consolidates the configuration actions that traditionally accompany additional Tanium functionality and eliminates the potential for timing errors that occur between when a solution configuration is made and the time that configuration reaches an endpoint. Managing configuration in this way greatly reduces the time to install, configure, and use Tanium functionality, and improves the flexibility to target specific configurations to groups of endpoints.

Endpoint tools are bundled together in a versioned toolset. Each toolset contains a specific version of each tool. The Endpoint Configuration Toolset Solution provides upgrades to the toolset, and it imports upgraded versions of the entire toolset as needed by upgraded or newly installed solutions.

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Important:

When you upgrade Integrity Monitor, the change management feature enables you to perform a staged rollout of the endpoint tools associated with the new version of Integrity Monitor. Integrity Monitor remains compatible with earlier versions of the endpoint tools and so continues to function with endpoints in rings that have not yet received the latest tools. However, any functionality added in the upgrade of Integrity Monitor might not be available on these endpoints until they receive the upgraded tools.

In some cases, multiple solutions install the same endpoint tool, but upgraded endpoint tools remain compatible with all associated solutions. For example, both Tanium™ Threat Response and Tanium™ Reveal install and use index-cx. When you upgrade Threat Response, it might install version x.6.yyyy of index-cx, superseding version x.5.zzzz that Reveal previously installed. The index-cx upgrade from Threat Response does not affect the Index-related functionality of Reveal on the upgraded endpoints. For more information about the change management feature, see Tanium Endpoint Configuration User Guide: Managing endpoint tool upgrade rollouts.

Note: For information about how to install Endpoint Configuration, see Installing Endpoint Configuration.

Optionally, you can use Endpoint Configuration to require approval of configuration changes. When configuration approvals are enabled, Endpoint Configuration does not deploy a configuration change to endpoints until a user with approval permission approves the change. For information about the roles and permissions that are required to approve configuration changes for Integrity Monitor, see User role requirements. For more information about how to enable and use configuration approvals in Endpoint Configuration, see Managing approvals.

Important: For solutions to perform configuration changes or tool deployment through Endpoint Configuration on endpoints with action locks turned on, you must enable the **Manifest Package Ignore Action Lock** and **Deploy Client Configuration and Support Package Ignore Action Lock** settings. To access these settings, from the Endpoint Configuration **Overview** page, click Settings and select **Global**. For more information about action locks, see Managing action locks.

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For more information about Endpoint Configuration, see Tanium Endpoint Configuration User Guide.

Configure Integrity Monitor

(Optional) Configure Automatic Deployment on Upgrade

About this task

Select **Automatic Deployment on Upgrade** to automatically deploy monitors, watchlists, and rules after an upgrade. Deployment of each monitor, watchlist, or rule uses the management rights of the last user to deploy the item, but does not use any of that user's persona rights, even if the user changed to a persona to deploy.

Review any tools, watchlists, and monitors deployed to endpoints before you select this option, especially if changes were made since the last deployment.

1. From the Main menu, go to **Modules** > **Integrity Monitor** > **Overview**, and then click Settings .
2. Click the **General Settings** tab.
3. Select **Automatically deploy monitors, watchlists, and rules when upgrading the module** and click **Save**.

Configure the Integrity Monitor action group

About this task

Importing the Integrity Monitor module automatically creates an action group to target specific endpoints. If you did not use automatic configuration or you enabled restricted targeting when you imported Integrity Monitor, the action group targets **No Computers**.

If you used automatic configuration and restricted targeting was disabled when you imported Integrity Monitor, configuring the Integrity Monitor action group is optional.

Select the computer groups to include in the Integrity Monitor action group.

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Best Practice: Clear the selection for **No Computers** and make sure that all operating systems that are supported by Integrity Monitor are included in the Integrity Monitor action group.

1. From the Main menu, go to **Administration** > **Actions** > **Action Groups**.
2. Click Tanium Integrity Monitor.
3. Select the computer groups that you want to include in the action group and click **Save**. If you select multiple computer groups, choose an operator (AND or OR) to combine the groups.

Organize computer groups

About this task

You deploy watchlists and monitors by computer group. Target monitors as broadly as possible, and create more specific groups if you need different settings or intervals for scanning some endpoints. Create specific groups for watchlists, targeted more narrowly to watch only the necessary paths on the necessary endpoints.

Best Practice:

When possible, avoid targeting different monitors to computer groups that contain some of the same endpoints. One monitor is deployed to each endpoint. You can prioritize monitors when computer groups overlap, but it is better to create non-overlapping computer groups to use with monitors for a more predictable deployment.

Create relevant computer groups to organize your endpoints for monitor and watchlist targeting. Some options include:

- Applications in use on an endpoint
- Endpoint type, such as servers with a specific function
- Endpoint compliance requirements, such as endpoints that must comply with Payment Card Industry Data Security Standard (PCI DSS) or the Sarbanes-Oxley Act (SOX)

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- Endpoint location, such as by country or time zone
- Endpoint priority, such as business-critical machines
- Endpoint configuration needs, such as VDI machines

For more information, see Tanium Core Platform User Guide: Managing computer groups.

Set up Integrity Monitor users

About this task

You can use the following set of predefined user roles to set up Integrity Monitor users.

For more information, see User role requirements on page 32.

Important: On installation, Integrity Monitor creates a Integrity Monitor user to automatically manage the Integrity Monitor service account. Do not edit or delete the Integrity Monitor user.

For more information, see Tanium Core Platform User Guide: Manage role assignments for a user.

Integrity Monitor Administrator

Assign the **Integrity Monitor Administrator** role to users who manage all configuration and deployment of Integrity Monitor functionality to endpoints. This role can perform the following tasks:

- Configure all Integrity Monitor settings, templates, and labels
- Execute scheduled tasks in the Integrity Monitor service using the schedule plugin
- Run and apply rules to events
- View, create, edit, and deploy monitors, rules, and watchlists
- Create, edit, and schedule integrations with IT workflows
- Delete labels and event labels

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Integrity Monitor Operator

Assign the **Integrity Monitor Operator** role to users who manage most configuration and deployment of Integrity Monitor functionality to endpoints. This role can perform the following tasks:

- Configure Integrity Monitor settings, templates, and labels
- Run and apply rules to events
- View, create, edit, and deploy monitors, rules, and watchlists
- Create, edit, and schedule integrations with IT workflows
- Delete labels and event labels

Integrity Monitor Author

Assign the **Integrity Monitor Author** role to users who manage monitors, rules, and labels in Integrity Monitor. This role can perform the following tasks:

- View, create, and edit monitors, rules, and labels
- View Integrity Monitor events and settings

Integrity Monitor User

Assign the **Integrity Monitor User** role to users who manage event labels and rules in Integrity Monitor. This role can perform the following tasks:

- View, create, and edit event labels and rules
- View Integrity Monitor monitors, events, labels, and settings

Integrity Monitor Read Only User

Assign the **Integrity Monitor Read Only User** role to users who need visibility into Integrity Monitor data. This role can view **Integrity Monitor Read Only User** events, event labels, labels, monitors, rules, and settings.

Integrity Monitor Endpoint Configuration Approver

Assign the **Integrity Monitor Author** role to a user who approves or rejects Integrity Monitor

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configuration items in Tanium Endpoint Configuration.



Note: Do not assign the **Integrity Monitor Service Account** role to users. This role is for internal purposes only.

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Upgrading Integrity Monitor

About this task

For the steps to upgrade Integrity Monitor, see Tanium Console User Guide: Import or update specific solutions. After the upgrade, verify that the correct version is installed. For more information, see Verify Integrity Monitor version on page 52.

Read the for a particular version before you upgrade Integrity Monitor.

Important: In Integrity Monitor 3.4.97 and later, the steps required to configure the service account are no longer necessary due to the adoption of the System User Service, which performs these tasks automatically. Additionally, the Integrity Monitor database is migrated to RDB in this release. Consequently, after upgrading from version 3.1.9 or earlier to Integrity Monitor 3.4.97 or later, it might take time for the database migration to complete and for RBAC privileges and other updates to sync properly. This could lead to issues and error messages when you first query Tanium Console. These issues usually resolve on their own after a few minutes, but could take up to an hour or longer depending on system resources and the amount of data to migrate.

Best Practice: Perform some basic tests in Integrity Monitor before and after the upgrade to ensure that all operations are working as expected.

Replace deprecated sensors

About this task

Integrity Monitor 3.0 deprecated legacy sensors. If you are using sensors from a version before 3.0, replace deprecated sensors in your saved questions and connections with their replacement sensors. For the sensor mapping, see Reference: Deprecated sensor replacements on page 164.

Redeploy monitors, watchlists, and rules

About this task

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After you upgrade Integrity Monitor, all monitors, rules, and watchlists must be redeployed. The default configuration automatically redeploys all items after an upgrade, or if the automatic deployment setting is not configured, you must manually redeploy them. For more information, see Deploy monitors on page 57, Deploy watchlists on page 73, and Deploy rules on page 86.

Important: If you do not redeploy monitors, watchlists, and rules, the system might be left in a nonworking state.

Configure automatic redeployment of monitors

1. From the Integrity Monitor **Overview** page, click Settings.
2. Click the **General Settings** tab.
3. In the **Automatic Deployment on Upgrade** section, select **Automatically deploy monitors, watchlists, and rules when upgrading the module**.

Verify Integrity Monitor version

After you import or upgrade Integrity Monitor , verify that the correct version is installed.

1. Refresh your browser.
2. From the Main menu, go to **Modules** > **Integrity Monitor** to open the **Overview** page.
3. To show version information, click Info.

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Managing scan settings with monitors

About this task

Use monitors to define scan settings for the endpoints in a targeted computer group. A monitor can be deployed to multiple computer groups.

Important:

Each Tanium Client managed endpoint that you target in a watchlist must also be targeted in a monitor for the watchlist to take effect when you deploy watchlists and monitors.

To identify endpoints to which you have deployed a monitor but no watchlists, ask the question: `Get Computer Name and Client Extensions - Status matches "^integrity_monitor\|monitor_id\|[^0].*$" and Integrity Monitor - Active Watchlists from all machines with ( Client Extensions - Status matches "^integrity_monitor\|.*$" and Integrity Monitor - Active Watchlists contains No Results Found )`

For more information, see Managing watched paths with watchlists on page 60.

Create or edit a monitor

About this task

Create or edit a monitor to identify scan settings for a targeted computer group.

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Best Practice:

- Create as few monitors as possible, and target those monitors as broadly as possible. Create additional monitors only to accommodate different scan settings, scan intervals, or rules.
- When possible, avoid targeting different monitors to computer groups that contain some of the same endpoints. One monitor is deployed to each endpoint. You can prioritize monitors when computer groups overlap, but it is better to create non-overlapping computer groups to use with monitors for a more predictable deployment.
- Name each monitor based on the operating system, business unit, or application group for which you are configuring scan settings.
- Select the **Collect process and user attribution information** option to record real-time events and attribution data. This option subscribes the watchlist items to Tanium Recorder, and Tanium Index handles the items as high priority paths.

1. From the Main menu, go to **Modules** > **Integrity Monitor** > **Monitors**.
2. Click **Create Monitor**, or click Edit in the row for an existing monitor that you want to edit.
3. In the **Summary** section, enter a **Name** and **Description** for the monitor.
4. (Optional) For **Monitor Pruning Age**, configure the time that Integrity Monitor should keep each event that the monitor records in the database.

   Note: The **Monitor Pruning Age** determines how long Integrity Monitor stores events in the endpoint database. Auditing this database requires the assistance of Tanium Support on page 106. You can adjust this setting to meet the requirements of any applicable compliance standards and manage the database size on endpoints, but do not set it lower than 250 hours. When asking questions using Integrity Monitor sensors, you can view events as old as 250 hours.

5. (Optional) For **Database Maximum Size**, enable and configure the maximum size in megabytes of the event tables in the endpoint database. If many files are inventoried, file snapshots might grow large enough to cause the database file to exceed the configured

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maximum.

The endpoint attempts to prune event data from the database after it reaches the **Database Maximum Size** or if an event reaches the **Monitor Pruning Age**, whichever occurs first. If the endpoint prunes event data due to reaching the **Database Maximum Size**, but pruned events are not older than the **Monitor Pruning Age**, a health check runs because the Integrity Monitor data is incomplete and cannot be recovered.

> **Note:** For the best results, work with Tanium Support to monitor the Integrity Monitor database before implementing size restrictions.

6. To record real-time change events, such as create, write, delete, or rename operations, select **Collect process and user attribution information**. This method records the specific operation, as well as the associated user or process path.

   > **Note:**
   >
   > - This setting applies only to Windows and Linux endpoints. Solaris and AIX endpoints perform only hash monitoring, regardless of this setting.
   > - If you disable this setting, the following behaviors apply:
   >   - Integrity Monitor records a rename operation as a delete operation followed by a create operation. On Solaris and AIX endpoints, Integrity Monitor always records a rename operation as a delete operation followed by a create operation.
   >   - Integrity Monitor does not return modifications to registry values as events. Create and delete operations are still recorded for individual registry values, regardless of this setting.

7. For **Index First Scan Distribute Over Time**, configure the time over which to randomize the first file index scan on targeted endpoints. Randomizing this scan over a period of time helps balance resource use.

8. For **Index Scan Frequency**, configure the interval between subsequent file index scans for all watchlists. This configuration acts as a fail-safe in case Tanium Recorder is unavailable. If another solution also uses Index, Integrity Monitor and the other solution maintain separate subscription and scan schedules.

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> **Note:** If the scan takes longer than the interval configured for this setting on an endpoint, the endpoint returns `Scan completion took longer than configured scan interval` from the `Client Extensions - Status` sensor and appears in the **Endpoint Health** panel on the Integrity Monitor Overview page. To resolve this condition, make sure that the endpoint meets the minimum system requirements on page 22 for Integrity Monitor, and adjust this setting as necessary.

9. In the **Targeting** section, click **Select Computer Groups**, select the computer groups to target, and click **Save**. For more information, see Tanium Console User Guide: Controlling endpoint management rights through computer groups.
10. Click **Create** (for a new monitor) or **Save** (for an existing monitor).
11. After you create or edit a monitor, you must deploy all monitors. For more information, see Deploy monitors on page 57. If you are using rules, you must also redeploy all rules. For more information, see Deploy rules on page 86.

Result

> **Important:** When you first deploy a monitor with the **Collect process and user attribution information** option enabled, Integrity Monitor installs the Tanium Driver on targeted Windows endpoints, unless another Tanium solution has already installed the driver.
>
> After the driver is first installed on a targeted endpoint, you must reboot that endpoint before Integrity Monitor can record process and user information associated with file and registry operations.

Prioritize monitors

About this task

One monitor is deployed to each endpoint. If an endpoint belongs to the targeted computer groups for two or more monitors, the monitor priority list determines which monitor is deployed to the endpoint.

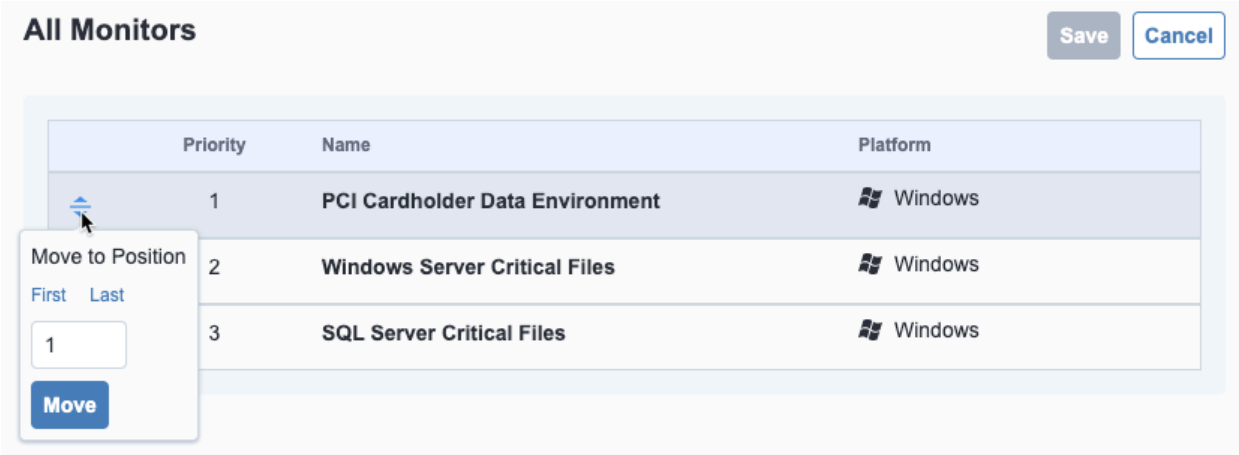
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Best Practice:

When possible, avoid targeting different monitors to computer groups that contain some of the same endpoints. One monitor is deployed to each endpoint. You can prioritize monitors when computer groups overlap, but it is better to create non-overlapping computer groups to use with monitors for a more predictable deployment.

1. From the Main menu, go to **Modules** > **Integrity Monitor** > **Monitors**.
2. Click **Prioritize**.
3. Drag monitors into the order you want to prioritize them, or click Move to Position in the row for a monitor you want to reorder, enter the new position, and click **Move**.
   After you have reordered the monitors, click **Save**.

   Figure 3. Adjust order of monitors with Move to Position



4. After you re-prioritize, you must deploy all monitors. For more information, see Deploy monitors on page 57.

Deploy monitors

About this task

After you create, edit, reprioritize, or delete monitors, you must deploy all monitors to the endpoints. A **Deploy Now** banner appears, and **Pending Deployment** (new monitors), **Pending Deployment** (changed monitors), or **Pending Deletion** (deleted monitors) appears in the **Status** column for the monitor on the **All Monitors** page.

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If you have more than one monitor, all monitors are deployed each time you deploy monitors.

Best Practice: When you deploy a monitor, you deploy all monitors. When you take an action on monitors (such as creating, modifying, or reprioritizing monitors) you are prompted to deploy all monitors. For best results, create all planned monitors, and then deploy them at the same time. If you deploy a monitor with restricted management rights, the set of management rights is applied to all deployed monitors. The monitor or Integrity Monitor tools are removed from any endpoints that are not a member of the updated computer management group.

Note: You cannot deploy monitors to endpoints with action locks turned on, unless Endpoint Configuration is configured to ignore action locks. For more information, see Install and configure Tanium Endpoint Configuration on page 44 and Tanium Console User Guide: Managing action locks.

1. Click **Deploy Now** in the banner or **Deploy All Monitors** on the **All Monitors** page.
2. Confirm the deployment. If you have more than one monitor, all monitors are deployed.

Result

Note:

- If you enabled Endpoint Configuration approval, monitor deployment must be approved in Endpoint Configuration before monitors deploy to endpoints.
- If you delete a monitor, any rules assigned only to that monitor are automatically deleted from the Integrity Monitor workbench. The rules are no longer active on endpoints, but they are not removed from endpoints. Therefore, you will not see an approval in Endpoint Configuration.

Check the status of deployed monitors

About this task

To check the status of deployed monitors on endpoints, ask the question: `Get Client Extensions - Status having Client Extensions - Status:Domain contains`

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`integrity_monitor and Computer Name from all machines`.

Tip: To view additional filter options, from the Main menu, go to **Modules** > **Integrity Monitor** > **Overview**. In the **Health** section, click the title of the **Endpoint Health** chart. Review the filters In the **Integrity Monitor - Endpoint Health** report that appears.

For more information, see Troubleshooting Integrity Monitor on page 100.

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Managing watched paths with watchlists

About this task

Watchlists define a set of files, directories, and Windows registry paths that you want to monitor for changes. Create specific watchlists that target the Tanium Client managed endpoints where Integrity Monitor should watch the specified paths.

Important: Use monitors to configure scan settings for endpoints.

Each Tanium Client managed endpoint that you target in a watchlist must also be targeted in a monitor for the watchlist to take effect when you deploy watchlists and monitors.

To identify endpoints to which you have deployed a monitor but no watchlists, ask the question: `Get Computer Name and Client Extensions - Status matches "^integrity_monitor\|monitor_id\|[^0].*$" and Integrity Monitor - Active Watchlists from all machines with ( Client Extensions - Status matches "^integrity_monitor\|.*$" and Integrity Monitor - Active Watchlists contains No Results Found )`

For more information, see Managing scan settings with monitors on page 53.

Before you begin

- On Windows endpoints, the **Audit File System** operating system permission must be configured to record permission changes. For more information, see Prepare Endpoints on page 42. When you enable the **Permission** change type for a path in a watchlist, Integrity Monitor automatically configures the appropriate System Access Control List (SACL) audit settings for every file and folder in that path for that watchlist.
- To specifically record file or registry rename operations on an endpoint, or to specifically record modifications to individual registry values on an endpoint, you must enable the

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Collect process and user attribution information setting in the monitor that you deploy to that endpoint. For more information, see Create or edit a monitor on page 53.

If you disable this setting, these operations are recorded as follows:

- Integrity Monitor records a rename operation as a delete operation followed by a create operation. On Solaris and AIX endpoints, Integrity Monitor always records a rename operation as a delete operation followed by a create operation.
- Integrity Monitor does not return modifications to registry values as events. Create and delete operations are still recorded for individual registry values, regardless of this setting.

Create or edit a watchlist

About this task

Create or edit a watchlist to identify the name, path style, and optional watchlist templates. Integrity Monitor includes watchlist templates that contain critical files and directories that are typically monitored for Windows and Linux, and registry paths that are typically monitored for Windows.



Best Practice:

- Create as many watchlists as necessary, targeted narrowly to watch only the necessary paths on the appropriate endpoints.
- Name each watchlist based on the application, business unit, or compliance standard you want to monitor.
- Use a template as a starting point, and modify the watchlist to suit the needs of your environment. Monitors that use the default watchlists from the included templates might record a significant number of events that are not necessarily cause for concern.

1. From the Main menu, go to **Modules** > **Integrity Monitor** > **Watchlists**.
2. Click **Create Watchlist**, or click Edit in the row for an existing watchlist that you want to

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edit.

3. Enter a **Name** and **Description** for the watchlist.
4. For **Path Style**, select **Windows** or **Unix**.

   > **Note:** The target endpoint operating system and path style must be consistent within a watchlist. For example, you cannot add a Windows file path or a Windows registry path to a watchlist that uses the Unix path style.

5. (Optional) In the **Watchlist Templates** section, select templates from which to add initial paths to the watchlist.
6. In the **Targeting** section, click **Select Computer Groups**, select the computer groups to target, and click **Save**.

   > **Note:** If you edit the targeting for an existing watchlist, you must redeploy all watchlists. For more information, see Deploy watchlists on page 73.

7. Click **Create** (for a new watchlist) or **Save** (for an existing watchlist).

Add and edit paths

About this task

After you create a watchlist, you add paths to determine the files, directories, and Windows registry paths that are monitored. If you used a template when creating a watchlist, you can edit the paths that were defined in the template.

Paths

The paths you add to a watchlist determine the files, directories, and registry paths that are monitored on endpoints where the watchlist is deployed. You can configure each path in a watchlist to trigger events for changes in files or registry keys. Integrity Monitor records create, write, delete, or rename operations for files, directories, or registry keys, as well as changes to permission for files or directories.

To refine the files, directories, and registry paths that are monitored for a watchlist, add *path inclusions* or *path exclusions*.

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Without inclusions or exclusions defined, the path matches all files and subdirectories in a file path or all subkeys in a registry path. By default, a file path that specifies a directory includes subdirectories recursively, and a registry path that specifies a registry key includes subkeys recursively.

If you directly specify a symbolic link in a path (including with the use of wildcard characters), Integrity Monitor watches the directories or files that the symbolic link references. It also follows symbolic links nested within that referenced directory. To avoid recursion, Integrity Monitor does not watch the referenced directories or files if the symbolic link is contained within a directory that you specify in a path. For example, assume you have a symbolic link at /my/path/directory-symlink that references /other/path/referenced-directory. If you specify the path `/my/path/directory*`, Integrity Monitor watches the referenced directory /other/path/referenced-directory, and it also follows any additional symbolic links contained within /other/path/referenced-directory. If you specify the path `/my/path`, then Integrity Monitor watches the symbolic link file itself, but it does not watch the referenced directory.

Note: If a path has a trailing /* and you then remove /* from the path, Integrity Monitor rescans the top-level directory and subdirectories and creates events for all symbolic links it did not previously see. The timestamp indicates the time that the events were written to the database.

Inclusions and exclusions

If you define path inclusions, the path matches *only* subdirectories, files, or registry subkeys that match the inclusions.

If you define path exclusions, the path does *not* match subdirectories, files, or registry subkeys that match the exclusions.

Exclusions take precedence over inclusions. If you define both inclusions and exclusions, the path matches all directories, files, or registry keys that match the inclusions, *except* those that match exclusions.

For more information, see Reference: Watchlist paths, inclusions, and exclusions on page 149.

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Best Practice:

- Be specific when defining watchlists. For example, watching the C:\ or / directories on endpoints results in a large number of events that are not cause for concern. To help focus on events of concern, follow these guidelines:
  - When possible, add multiple specific file paths instead of a single directory path. Add multiple specific registry subkey paths instead of higher-level registry keys.
  - If you add a directory path, add inclusions for specific file types to watch, such as `*.exe` and `*.dll`.
  - Create multiple, focused watchlists for different types of applications, software components, system configuration areas, or compliance standards. For example, if you need to monitor critical operating system files for Windows, and SQL Server critical files, directories, and registry entries, create separate watchlists for Windows and SQL Server. You can target different computer groups with these watchlists for different monitoring needs.
- Rely primarily on inclusions to refine paths, and try to limit the number of exclusions for cleaner watchlists and more predictable monitoring.

Add a file path

About this task

Add file paths to a watchlist to define the files and directories that you want to monitor for changes on certain endpoints.

1. From the Main menu, go to **Modules** > **Integrity Monitor** > **Watchlists**.
2. Click the name of the watchlist.
3. (For Windows watchlist path style) Make sure the **File Paths** tab is active.
4. Click **Add Paths** > **New**.
5. In the **Details** section, provide the information for the path:

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- Enter the absolute path for the file or directory.

  > **Note:**
  > - You can use wildcard characters within a directory or file name in a path, but you cannot use wildcard characters to specify path separators or multiple directory or subkey levels. For example, if you specify the path /a/*/z, the path a/b/z is monitored, but not a/b/c/z.
  > - If you specify a root directory, you must include the slash. For example: `D:\`

- (For Windows watchlist path style) In the Change Type section, if you want to record process and user information for permission changes, select **Permission**.

6. In the **Inclusions and Exclusions** section, expand the **Path Inclusions** or **Path Exclusions** section to add path inclusions or exclusions.

   > **Tip:** You can use wildcard characters. Use a single asterisk (`*`) to represent a string of characters within a directory, file, or registry key name, just as you can in a path.
   > In inclusions or exclusions, you can use two asterisks together (`**`) to include path separators (and therefore multiple directory or subkey levels) in the match.
   >
   > For example, if the path is /a and an inclusion is **/z, this inclusion matches /a/b/z, /a/b/c/z, or /a/b/c/d/e/f/g/z. For more information, see Reference: Watchlist paths, inclusions, and exclusions on page 149.

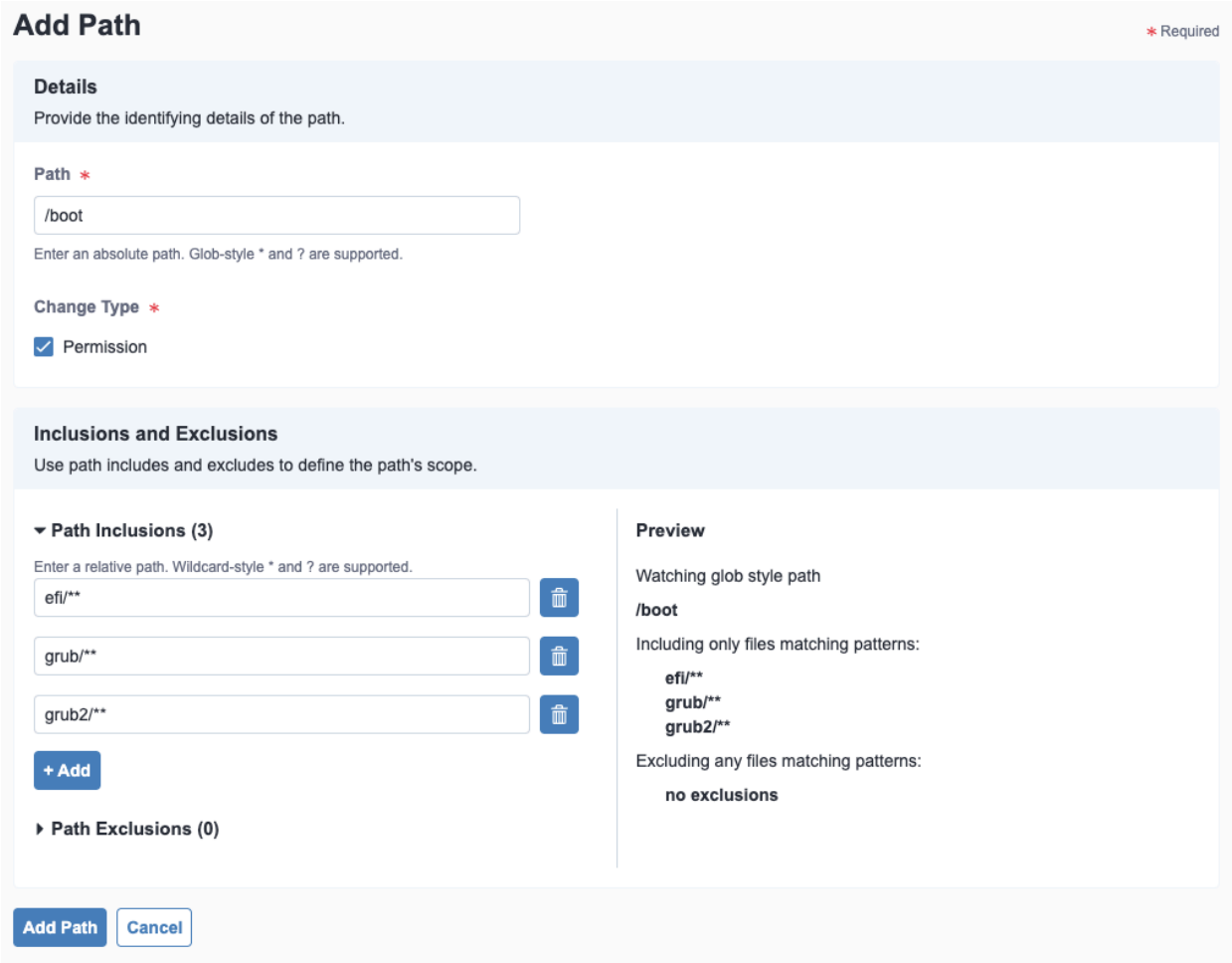
   > **Note:** If a symbolic link is referenced by a path inclusion or exclusion, it applies only to the symbolic link name itself, not the target of the link.

   To add an additional path inclusion or exclusion, click **Add** in the corresponding section.

   To delete an inclusion or exclusion, click .

7. Click **Add Path**.
   Figure 4. Add file path in Integrity Monitor watchlist

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(Windows) Add a registry path

About this task

Add registry paths to a watchlist to define the registry keys that you want to monitor for changes on certain endpoints. Registry paths are available only for watchlists with a **Windows** path style.

1. From the Main menu, go to **Modules** > **Integrity Monitor** > **Watchlists**.
2. Click the name of the watchlist and then click the **Registry Paths** tab.
3. Click **Add Paths** > **New**.
4. For **Path**, enter the absolute path for the registry key.

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> **Note:** You can use wildcard characters within a key name in a path, but you cannot use them to specify path separators or multiple key levels. For example, if you have a path HKEY_LOCAL_MACHINE*\z, the path HKEY_LOCAL_MACHINE\a\z is monitored, but not HKEY_LOCAL_MACHINE\a\b\z.

For more information, see Considerations for registry paths on page 68.

5. In the **Inclusions and Exclusions** section, expand the **Path Inclusions** or **Path Exclusions** section to add path inclusions or exclusions.

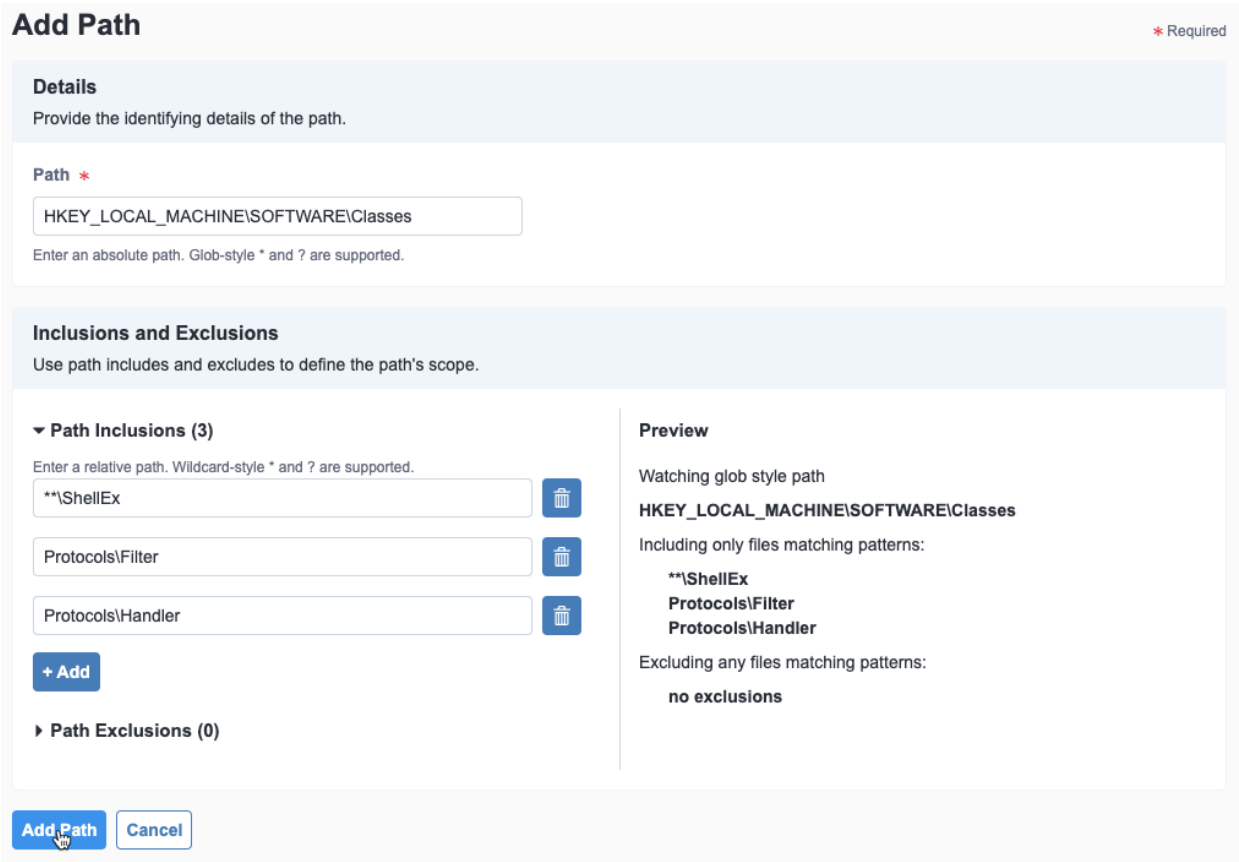
   > **Tip:** You can use wildcard characters. Use a single asterisk (`*`) to represent a string of characters within a directory, file, or registry key name, just as you can in a path.
   > In inclusions or exclusions, you can use two asterisks together (`**`) to include path separators (and therefore multiple directory or subkey levels) in the match.
   >
   > For example, if the path is HKEY_LOCAL_MACHINE\a and an inclusion is **\z, this inclusion matches HKEY_LOCAL_MACHINE\a\b\z, HKEY_LOCAL_MACHINE\a\b\c\z, or HKEY_LOCAL_MACHINE\a\b\c\d\e\f\g\z. For more information, see Reference: Watchlist paths, inclusions, and exclusions on page 149.

   To add an additional path inclusion or exclusion, click **Add** in the corresponding section.

   To delete an inclusion or exclusion, click .

6. Click **Add Path**.
   Figure 5. Add registry path in Integrity Monitor watchlist

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CONSIDERATIONS FOR REGISTRY PATHS

Determining watched subkeys

A path matches all subkeys recursively under a key or keys that are specified by the path. For example, if you specify the path HKEY_LOCAL_MACHINE\a, then the path matches all subkeys of the a key (such as HKEY_LOCAL_MACHINE\a\x, HKEY_LOCAL_MACHINE\a\x\y, and HKEY_LOCAL_MACHINE\a\z), unless you otherwise exclude them. If the **Collect process and user attribution information** setting is enabled in the monitor that you deploy to that endpoint, all values of matching subkeys are watched.

You cannot monitor an entire subtree, such as HKEY_LOCAL_MACHINE, and you cannot specify individual values within a key.

Using an abbreviation for a subtree

You can use the abbreviation for the subtree in a path. Integrity Monitor expands the subtree name when you save your changes. For example, you can enter the path HKLM\MyKey, which is saved as

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HKEY_LOCAL_MACHINE\MyKey.

Subtree abbreviations

Subtree name	Abbreviation
`HKEY_LOCAL_MACHINE`	`HKLM`
`HKEY_USERS`	`HKU`

Using the HKEY_CURRENT_USER subtree in a path

When you add a path in the HKEY_CURRENT_USER subtree, such as HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Group Policy, Integrity Monitor changes the HKEY_CURRENT_USER subtree in the path to HKEY_USERS* when you save your changes (for example, HKEY_USERS*\Software\Microsoft\Windows\CurrentVersion\Group Policy). Because the Tanium Client uses the SYSTEM account, the `HKEY_CURRENT_USER` subtree applies to the SYSTEM account rather than the user account that is currently signed in to Windows. Using HKEY_USERS* instead lets Integrity Monitor record events for all users, including the user account that is currently signed in to Windows.

Using a redirected registry key in a path

For 64-bit Windows, the registry redirector maps some keys, such as HKEY_LOCAL_MACHINE\SOFTWARE\, to a WOW6432Node subkey (for example, HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node) for use by 32-bit applications. When you add key paths that are redirected under WOW64, the watchlist does not automatically include the parallel key paths under the WOW6432Node keys. If you want to monitor keys under these paths, you must enter them separately.

Import a path

About this task

You can import paths to a watchlist from a file that you created in another monitoring tool or from a template that is provided with Integrity Monitor.

ADD PATHS FROM A FILE

About this task

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Tanium provides limited support for importing paths from Tripwire configurations, Open Source HIDS Security (OSSEC) configurations, Log Correlation Engine (LCE) Client policies, or CSV files. For more information, see CSV format for path imports on page 70. An imported file can contain either file and directory or registry paths.



Note: Use a backslash (\) to escape backslashes in Windows paths.

1. From the Main menu, go to **Modules** > **Integrity Monitor** > **Watchlists**.
2. Click the name of the watchlist.
3. Click **Add Paths** > **Import From File**.
4. Click **Choose Files**.
5. Browse to and select the path file or files and click **Open**.
6. Click **Import** to import the file or files.

CSV FORMAT FOR PATH IMPORTS

The first line of a CSV file specifies the field names and defines the order of the values in the subsequent rows. The import uses the following fields:

Fields for importing a path

Field	Description
`path`	The file, directory, or registry path
`ops_permission`	Whether to monitor a Windows file path for changes in permission (`on` or `off`)
`excludes_spec`	An exclusion to apply to the path

You can add additional exclusions to a path by adding subsequent lines with all fields empty except for `excludes_spec`. These lines inherit the blank field values from the parent entry.

The following example CSV file demonstrates the structure to use to import paths to Integrity Monitor.

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```
path,ops_permission,excludes_spec
C:\\autoexec.bat,on,
C:\\Windows\\logs,off,**
C:\\Windows,on,NtServicePackUninstall
,,NtServicePackUninstall\\**
,,NtUninstall
,,NtUninstall\\**
,,Help
,,Help\\**
C:\\Windows\\assembly,on,**
```

In the preceding example, this line adds the path C:\autoexec.bat and enables monitoring file permission changes:

```
C:\\autoexec.bat,on,
```

This line adds the path C:\Windows\logs, disables monitoring file permission changes, and adds the exclusion `\**`, which excludes any subdirectories within C:\Windows\logs:

```
C:\\Windows\\logs,off,\\**
```

These lines add the path C:\Windows, enable monitoring file permission changes, and add exclusions for three directories and their subdirectories (NtServicePackUninstall, NtUninstall, and Help):

```
C:\\Windows,on,NtServicePackUninstall
,,NtServicePackUninstall\\**
,,NtUninstall
,,NtUninstall\\**
,,Help
,,Help\\**
```

Finally, this line adds the path C:\Windows\assembly, enables monitoring file permission changes, and adds the exclusion `\**`:

```
C:\\Windows\\assembly,on,\\**
```

ADD PATHS FROM TEMPLATES

About this task

Integrity Monitor includes watchlist templates that contain critical files and directories that are typically watched for Windows and Linux. You can use these templates when creating new watchlists, and you can also use them to add paths to existing watchlists.

1. From the Main menu, go to **Modules** > **Integrity Monitor** > **Watchlists**.
2. Click the name of the watchlist.
3. Click **Add Paths** > **Import From Templates**.

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4. Select one or more templates and click **Import**.

Result

Best Practice:

Use a template as a starting point, and modify the watchlist to suit the needs of your environment. Monitors that use the default watchlists from the included templates might record a significant number of events that are not necessarily cause for concern.

(Windows path style only) Update the Permission change type setting for multiple paths

1. From the Main menu, go to **Modules** > **Integrity Monitor** > **Watchlists**.
2. Click the name of the watchlist.
3. Select one or more paths.
4. Click **Manage Change Type**.
5. Update the selection for **Permission** and click **Save**.

Review watchlist details

On the **Watchlists** page, click Expand for a watchlist to view the monitors that target the same endpoints, computer groups that the watchlist targets, and the revision number of the watchlist.

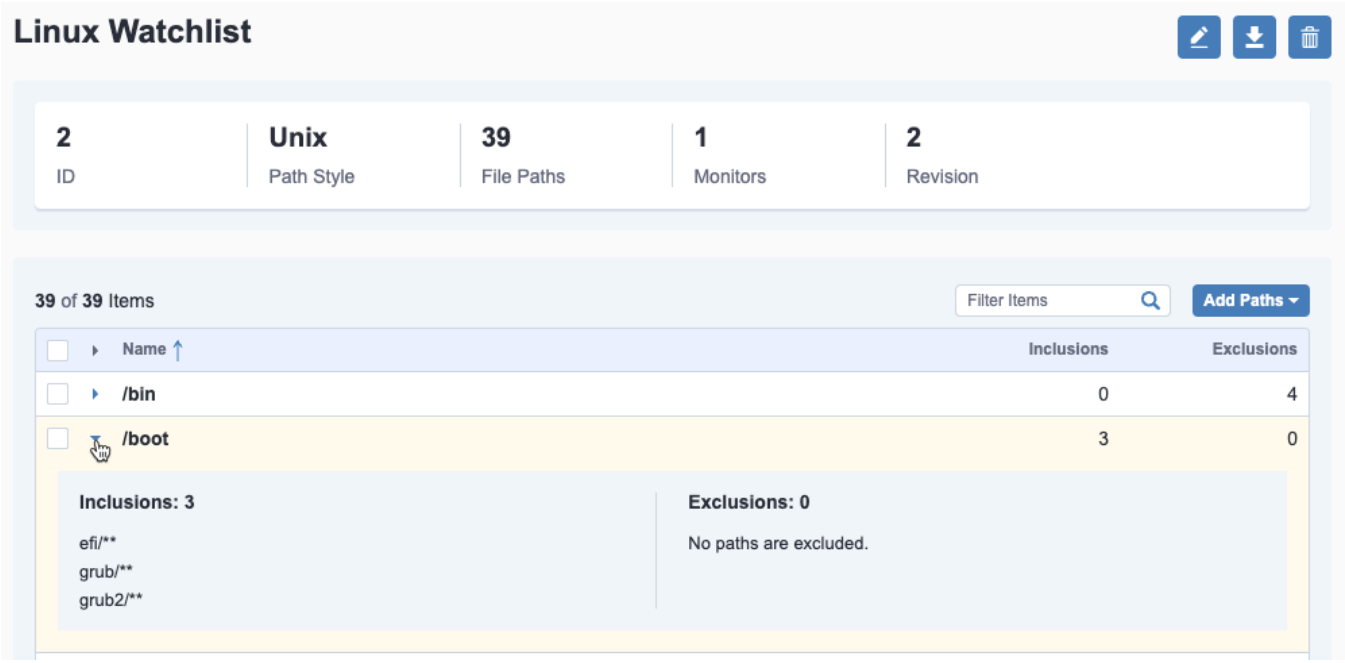
Figure 6. Expanded Watchlist details

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To view paths for a watchlist, click the name of the watchlist. From the details page for the watchlist, click Expand for a path to view inclusions and exclusions for that path.

Figure 7. Path inclusions and exclusions expanded on the watchlist details page



To determine the watchlists that apply to particular endpoints, ask a question using the `Integrity Monitor - Active Watchlists` sensor.

Deploy watchlists

About this task

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After you create, edit, or delete watchlists, you must deploy all watchlists to the endpoints. A **Deploy Now** banner appears, and **Pending Deployment** (new watchlists), **Needs Deployment** (changed watchlists), or **Pending Deletion** (deleted watchlists) appears in the **Status** column for the watchlist on the **Watchlists** page.

If you have more than one watchlist, all watchlists are deployed each time you deploy watchlists.

Best Practice: When you deploy a watchlist, you deploy all watchlists. When you create, edit, or delete a watchlist, you are prompted to deploy all watchlists. For best results, create all planned watchlists, and then deploy them at the same time. If you deploy watchlists as a user with restricted management rights, the set of management rights is applied to all deployed watchlists. All watchlists are removed from any endpoints that are not a member of the updated computer management groups. Ensure the same set of computer management groups are assigned to all users who deploy watchlists.

Note: You cannot deploy watchlists to endpoints with action locks turned on, unless Endpoint Configuration is configured to ignore action locks. For more information, see Install and configure Tanium Endpoint Configuration on page 44 and Tanium Console User Guide: Locking down actions on endpoints.

1. Click **Deploy Now** in the banner or **Deploy Watchlists** on the **Watchlists** page.
2. Confirm the deployment. If you have more than one watchlist, all watchlists are deployed.

Result

Note: If you enabled Endpoint Configuration approval, watchlist deployment must be approved in Endpoint Configuration before watchlists deploy to endpoints.

Important:

Each Tanium Client managed endpoint that you target in a watchlist must also be targeted in a monitor for the watchlist to take effect when you deploy watchlists and monitors.

For more information, see Managing scan settings with monitors on page 53.

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Export a watchlist

About this task

You can export a watchlist to transfer it to another environment (for example, if you created the watchlist in a QA or lab environment and you want to move it to a production environment) or for backup.

1. From the Main menu, go to **Modules** > **Integrity Monitor** > **Watchlists**.
2. Click the name of a watchlist.
3. Click Export Watchlist .
   The exported watchlist downloads in your browser in JSON format.

Import a watchlist

About this task

You can import a watchlist into another environment (for example, you want to add the watchlist to a production environment) or for backup.

1. From the Main menu, go to **Modules** > **Integrity Monitor** > **Watchlists**.
2. Click Import Watchlist .
3. Click **Choose File**.
4. Browse to the watchlist file and click **Open**.
5. Click **Import** to import the file.

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Viewing events

About this task

After a monitor and watchlists deploy to Tanium Client managed endpoints, events get returned that match the deployed watchlists.

View events for a monitor, label, or rule

About this task

You can view an overview of events that are returned by a monitor or that have a specific label.

- To view events returned by a monitor in the past day: From the Main menu, go to **Modules** > **Integrity Monitor** > **Monitors** and click the name of the monitor for which you want to see events.
- To view events from the past day that have a specific label: From the Main menu, go to **Modules** > **Integrity Monitor** > **Labels**, click the name of the label for which you want to see events, and click the **Events** tab.

In this view, Integrity Monitor aggregates events that share the same path, user, process, and operation every 15 minutes to help you identify common events on monitored endpoints. To retrieve more specific information about events and the endpoints where they occurred, you can select events and then click **Drill Down**. For more information, see Tanium Interact User Guide: Drill down.

To filter the events, use the **Filter by text** box, or expand the **Filters** section.

Tip: To view earlier events, ask a question using one of the Integrity Monitor sensors. For more information, see Use sensors to view events or event counts on page 77. You can view events from the past 250 hours.

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Note: Tanium Client Recorder Extension disregards events caused by the Tanium Client, even on watched paths.

Pause and resume the event view

About this task

To temporarily stop incoming events from being added to the results grid, click Pause in the results grid. To resume viewing incoming events in real time, click Resume.

The event view automatically pauses when you select events.

Download the full list of events or selected events

About this task

To download the full list of events in CSV format, click Export in the results grid.

To download the information from specific events in CSV format, select events from the results grid, and click **Export**.

Use sensors to view events or event counts

You can ask questions in Interact with the Integrity Monitor sensors to view events with specific criteria or event counts. For more information, see Tanium Interact User Guide: Exploring and accessing endpoints in Interact.

Sensors provided by Integrity Monitor to view events and event counts

Sensor	Description	Parameters	Returned Columns
Integrity Monitor - Monitor Events	Returns recorded events. The sensor combines events that share the same path, user, process, and change type into groups by time period.	• **Row Limit:** The maximum number of rows to return. Each row is a group of matching events for a time period. • **Monitor ID:** The	• **Event Time**: The date and time when the event occurred. • **File Path**: The file path or registry path where the event occurred. • **Change Type**: The change

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Sensor	Description	Parameters	Returned Columns
		monitor from which you want to return events. The ID for each monitor appears on its detail page. Specify `0` to return events from all monitors. • **Rolling Minute Offset:** The number of minutes into the past from which to return events. You can view events as old as 15,000 minutes (250 hours). • **Timestamp minute resolution:** The number of minutes to use in grouping matching events. • **Exclude label list:** Specifies whether the **CSV Label Search** field contains labels that should be excluded from the returned results. • **CSV Label Search:** Labels to include or exclude in the results, depending on whether you enable **Exclude label list**:	types applied to the event based on rules. For more information, see Create a rule on page 82. • **Process Path**: If the event is a process change, the path where the event occurred. • **User**: The user who performed the change. • **Detail**: The detected change, for example, `user_name=root group_name=root`. The details provide context for what triggered the event, such as a modified file or updated registry key. • **Hash**: A cryptographic fingerprint of the file or object at the time of the event. The hash is used to verify integrity and help detect tampering. • **Hashed At**: The date and time when the hash was created. • **Labels**: The labels applied to the event. • **Watchlists**: The watchlists that identified the event. • **ServiceNow Change IDs**: ServiceNow change request IDs. Use the IDs to help

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Sensor	Description	Parameters	Returned Columns
		• `Disabled`: The returned results include only events with the labels you specify. • `Enabled`: The returned results include only events that do not have the labels you specify.	correlate detected changes with approved or planned activities.
Integrity Monitor - Monitor Events Unlabeled	Returns recorded events that do not have labels applied. The sensor combines events that share the same path, user, process, and change type into groups by time period. For more information, see Labeling events with rules on page 81 .	• **Row Limit:** The maximum number of rows to return. Each row is a group of matching events for a time period. • **Monitor ID:** The monitor from which you want to return events. The ID for each monitor appears on its detail page. Specify `0` to return events from all monitors. • **Rolling Minute Offset:** The number of minutes into the past from which to return events. You can view events as old as 15,000 minutes (250 hours).	• Event Time • File Path (returns a registry path when applicable) • Change Type • Process Path • User • Detail • Hash • Hashed At • Watchlists

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Sensor	Description	Parameters	Returned Columns
		• **Timestamp minute resolution:** The number of minutes to use in grouping matching events.	
Integrity Monitor - Event Count	Returns ranges of event counts. You can use this sensor in questions to help identify which endpoints have high numbers of events and might require investigation.	**Rolling Minute Offset**：The number of minutes into the past from which to return events. You can view events as old as 15,000 minutes (250 hours).	Integrity Monitor - Event Count
Integrity Monitor - Event Count By Watchlist	Returns ranges of event counts specific to each watchlist. You can use this sensor in questions to help identify which endpoints have high numbers of events for certain watchlists and might require investigation, or which watchlists generate high numbers of events and might require tuning.	**Rolling Minute Offset**：The number of minutes into the past from which to return events. You can view events as old as 15,000 minutes (250 hours).	• Watchlist ID • Event Count

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Labeling events with rules

About this task

Configure labels to annotate events or to indicate which events need investigation or remediation, and use rules to automatically label events based on their attributes.

Integrity Monitor includes the following default labels:

- Important
- Suspicious
- Expected
- Ignored
- Planned

Customize labels

About this task

You can customize the default labels or create your own labels. After you define labels, you can associate the labels with rules.

> **Note:** Any change to a default label affects every monitor.

1. From the Main menu, go to **Modules** > **Integrity Monitor** > **Labels**.
2. Click **Create Label** to create a label, or click Edit in the row for the label you want to edit.
3. Enter a **Name** and **Description**.

   > **Note:** You cannot edit the name of an existing label.

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4. Click **Create** (for a new label) or **Update** (for an existing label).

Result

To delete a label, click Delete in the row for the label.

Use rules to automatically label events

About this task

Create rules to automatically label events based on their attributes. You can configure rules to help differentiate among planned, expected, ignored, or suspicious changes, or you can use rules to apply custom labels to suit your environment.

Each rule applies to either a single monitor or all monitors and applies a single label based on the criteria you specify.

Create a rule

About this task

Best Practice:

Create rules to apply default labels as appropriate:

- Create rules that apply the **Planned** label to events that occur during an approved change window. You can also integrate Integrity Monitor with your IT workflow in ServiceNow Change Management to determine change windows based on change requests or change tasks. For more information, see Integrating with IT workflows in ServiceNow on page 92.
- Create rules that apply the **Expected** label to events for changes performed by approved administrator or service accounts.
- Create rules that apply the **Suspicious** label to events for changes that normally should not occur.

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1. From the Main menu, go to **Modules** > **Integrity Monitor** > **Rules** and click **Create Rule**.
2. In the **Summary** section, enter a **Name** and **Description**.
3. In the **Rule Criteria** section, select an attribute and operator, enter the appropriate criteria, and click **Apply**.

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Note:

- Text that you enter for the criteria value is case sensitive. For example, the value `/mypath` for the attribute **File/Registry Path** does not match the path /MyPath on a Tanium Client managed endpoint.
- If you select the **Change Type** attribute, enter one of the following values:
  - `ChangedTime`
  - `CreateNewFile`
  - `DeletePath`
  - `FileOwnershipChange`
  - `FilePermissionChange`
  - `RegistryCreate`
  - `RegistryDelete`
  - `RegistryRename`
  - `RegistrySet`
  - `RenamePath`
  - `Write`
- If you select the **Process Path** or **User Name (event)** attributes, you can select the **exists** operator with a **True** or **False** value to match on the existence of those attributes in the events.
- Wildcard characters (`*`, `?`) are evaluated as a literal character. To simulate wildcard characters, use a grouping with an `AND` operator.

4. Click **Row** or **Grouping** to add additional criteria and groups of conditions as necessary, and select **AND** or **OR** to determine how the conditions are applied.

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5. In the **Actions** section, select the **Monitor** to which you want to apply this rule and the **Label** you want to apply to events that match the rule.
6. Click **Create**.

Result

Note:

- Newly created rules only affect new events. Past events cannot be labeled by a new rule.
- Events are labeled by rules as they occur and appear within approximately two minutes.
- To support consistent auditing, you cannot directly edit a rule. If you want to modify a rule, you must deactivate it, duplicate it, and save the new rule. For more information, see Deactivate a rule on page 87 and Duplicate a rule on page 88.

Import rules

About this task

You can import multiple rules from a CSV file.

1. From the Main menu, go to **Modules** > **Integrity Monitor** > **Rules**.
2. Click Import Rules .
3. Click **Choose File**.
4. Browse to a CSV file and click **Open**.
5. Click **Import**.

EXAMPLE TANIUM CSV FILE USED TO IMPORT RULES

```
name,description,note,monitor_id,label_id,field,operator,value
app1 generated events,events generated by app1,CR12345,1,5,,,
,,,,,process,eq,C:\Program Files\app1\app1.exe
,,,,,file,contains,C:\Program Files\app1
rule 2,rule 2 description,rule 2 note,1,5,,,
,,,,,event_timestamp,gt,2018-06-01T06:00:00.000Z
```

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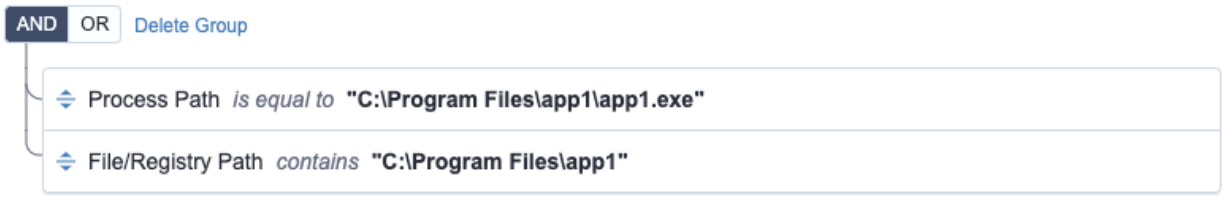
```
,,,,,event_timestamp,lt,2018-07-01T06:00:00.000Z
,,,,,file,contains,C:\Program Files
```

The first line of the file defines the field names of `name`, `description`, `note`, `monitor_id`, `label_id`, `field`, `operator`, and `value`. The first line for a rule defines the settings for a rule using the `name`, `description`, `note`, `monitor_id`, and `label_id`, and the values for `field`, `operator`, and `value` are left blank. The subsequent lines have blank values for `name`, `description`, `note`, `monitor_id`, and `label_id`, and define each condition for the rule using the `field`, `operator`, and `value` fields. Imported conditions are in a single group and use the `AND` operator.

The preceding CSV example contains two rules that each apply to the monitor with ID 1 and apply the label with ID 5:

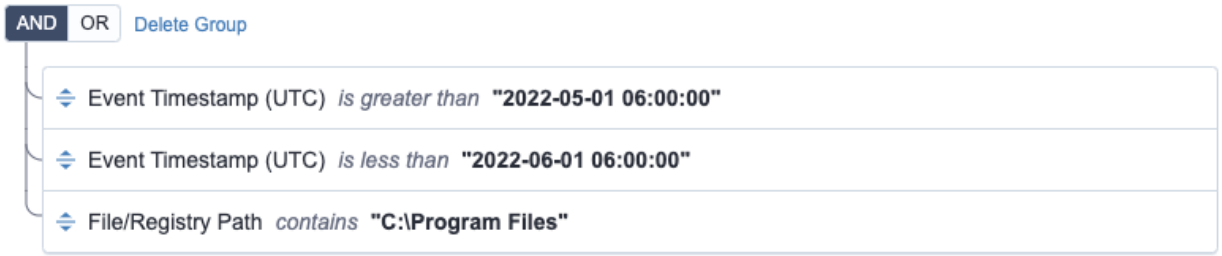
- The rule named `app1 generated events` defines two conditions.

  Figure 8. Rule with two conditions

- The rule named `rule 2` defines three conditions.

  Figure 9. Rule with three conditions

Deploy rules

About this task

Deploy rules to endpoints so that Integrity Monitor can apply labels to events directly on endpoints.

After you create, delete, or save updates to a rule, a **Deploy Now** banner appears, and **Pending Active** appears in the **Status** column for the rule on the **Rules** page. To deploy the updates to the configured endpoints, click **Deploy Now** in the banner or **Deploy Rules** on the **Rules** page.

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Best Practice: When you deploy rules, you deploy all rules. When you take an action on rules (such as creating, deactivating, or deleting), you are prompted to deploy all rules. For best results, create all planned rules and then deploy them at the same time. If you deploy a rule with restricted management rights, the set of management rights is applied to all deployed rules. The rule or Integrity Monitor tools are removed from any endpoints that are not a member of the updated computer management group.

Note:

- You cannot deploy rules to endpoints with action locks turned on, unless Endpoint Configuration is configured to ignore action locks. For more information, see Install and configure Tanium Endpoint Configuration on page 44 and Tanium Console User Guide: Locking down actions on endpoints.
- If you enabled Endpoint Configuration approval, rule deployment must be approved in Endpoint Configuration before rules deploy to endpoints.

Deactivate a rule

About this task

Deactivate a rule if you no longer want the rule to run. On the **Rules** page, select the rule you want to deactivate and click **Deactivate**.

Deactivating a rule does not delete any labeled events associated with the rule.

Note:

- To support consistent auditing, deactivation is permanent. If you want to reactivate the rule, you must duplicate it and save the new rule.
- You cannot deactivate a rule that is not deployed. You can delete the rule if you no longer want to deploy it. For more information, see Delete a rule on page 88.

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Duplicate a rule

About this task

To support consistent auditing, you cannot directly edit a rule or reactivate a deactivated rule. However, you can duplicate an existing rule, modify settings, and save the new rule.

1. From the **Rules** page, click Duplicate in the row for the rule you want to duplicate.
2. On the **Create Rule** page, the settings are pre-populated to match the rule you copied, and the default **Name** indicates it is a duplicated rule.
3. Edit the rule settings as necessary and click **Create**.

Delete a rule

About this task

To delete a rule, on the **Rules** page, select the rule and click Delete. The deletion is pending until the next time you deploy rules.

Note: If you delete a rule, any labels that Integrity Monitor applied to events based on that rule remain in place for those existing events. Events that occur after you delete the rule and redeploy all rules are not labeled.

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Sending and reporting events

About this task

Send events to a SIEM, SOAR, or other data lake or log solution using Connect.

Use Connect to send events

About this task

You can create saved questions that include any of the sensors provided by Integrity Monitor and then use those saved questions as connection sources in Connect.



Best Practice: When you send events to a SIEM, SOAR, or other data lake, send only unlabeled events and events that are required for regulatory compliance and auditing. (In some cases, all events might be required.)

1. Create a saved question that returns the events you want to report using the `Integrity Monitor - Monitor Events` or `Integrity Monitor - Monitor Events Unlabeled` sensor. Include any other sensors you want to include as columns in the data. For more information, see Tanium Interact User Guide: Reissuing saved questions in Interact.
2. Create a connection in Connect. Use Saved Question for the source type, and select the saved question that you created. For more information, see Tanium Connect User Guide: Connect overview.

Create incidents for unlabeled events in ServiceNow Incident Management

About this task

If you use ServiceNow Incident Management, you can create incidents based on unlabeled events by using an email destination in Connect and configuring email actions in ServiceNow to create incidents.

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1. Configure inbound email actions in ServiceNow to create incidents based on emails from Tanium. For more information, see ServiceNow Product documentation: Inbound email actions.
2. Create a saved question using the `Integrity Monitor - Monitor Events Unlabeled` sensor. For more information, see Tanium Interact User Guide: Reissuing saved questions in Interact.
3. From the Main menu, go to **Modules** > **Connect** > **Connections** and click **Create Connection**.
4. Configure the following settings in the connection:
    - Specify a **Name** and optional **Description** for the connection.
    - For **Source**, select **Saved Question**.
    - In the **Saved Question Name** list, select the saved question you created.
    - Select the appropriate **Computer Group**.
    - Select **Flatten Results**.
    - For **Destination**, select **Email (O365)** or **Email (SMTP)**.
    - Complete the Email configuration by following the steps in the corresponding topic in the Connect User Guide:
        - Email (O365): Connect User Guide: Configure the email results destination
        - Email (SMTP): Connect User Guide: Configure the email (SMTP) results destination. In the **Advanced** section, select **Attachment**, and enter an **Attachment File Name** that ends with `.csv`.
    - In the **Configure Output** section, for **Format**, select **CSV**.
    - In the **Schedule** section, configure a schedule for the connection.
5. Click **Save**.

Result

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Best Practice: Manually run the new email connection while monitoring incidents in ServiceNow to make sure that new incidents are successfully created. Open the first new incident and confirm that it includes a CSV file with the expected information.

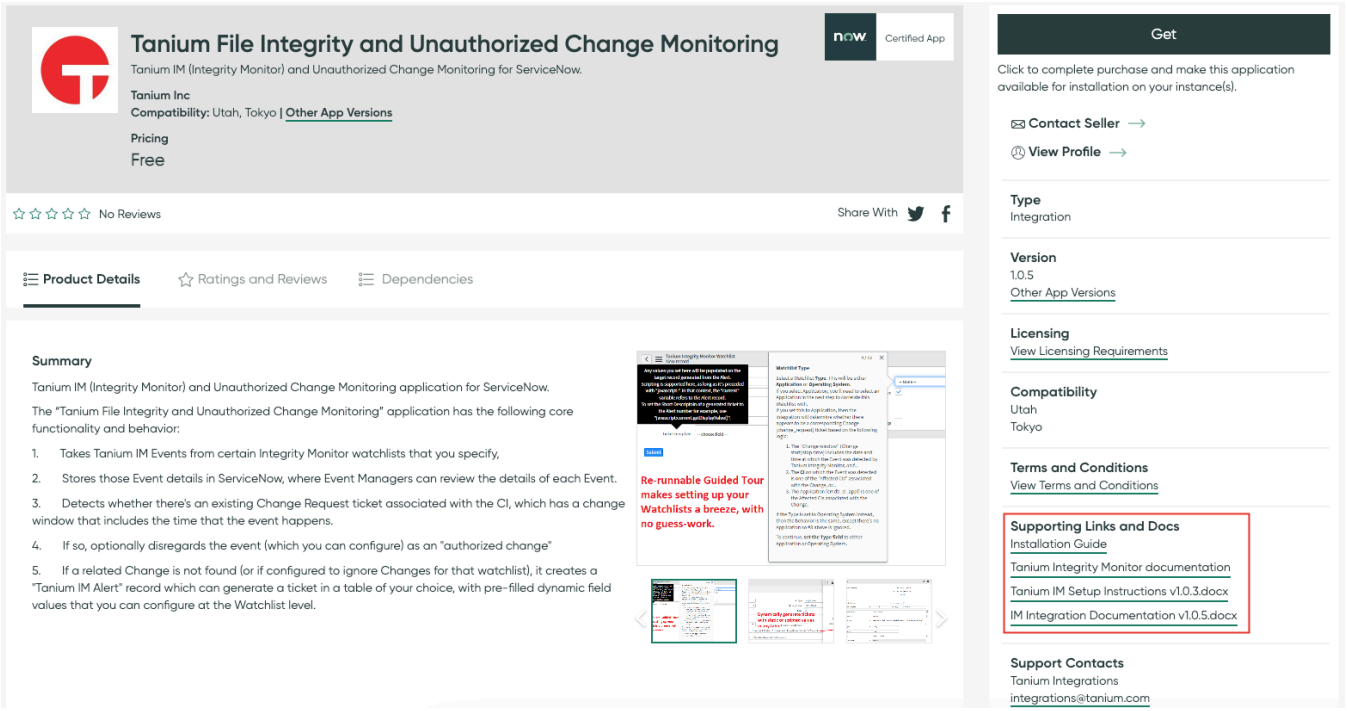
Monitor for unauthorized changes with ServiceNow

If you install the Tanium File Integrity and Unauthorized Change Monitoring ServiceNow application, you can send events from Integrity Monitor to ServiceNow to correlate them with Change Requests.

For more information, see Tanium Data Sheet: Tanium File Integrity and Unauthorized Change Monitoring for ServiceNow.

To download the application from the ServiceNow Store, see ServiceNow: Tanium File Integrity and Unauthorized Change Monitoring. You can download the setup instructions from the **Supporting Links and Docs** section on the application page:

Figure 10. Tanium File Integrity and Unauthorized Change Monitoring ServiceNow details



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Integrating with IT workflows in ServiceNow

About this task

The Tanium™ File Integrity Monitoring integration can automatically label events based on change requests or change tasks in ServiceNow. You can then determine which events are authorized and filter out events within authorized change windows.

Tip: You can also automatically create incidents in ServiceNow Incident Management for unexpected events by using inbound email actions in ServiceNow and an email destination in Connect. For more information, see Create incidents for unlabeled events in ServiceNow Incident Management on page 89.

You can configure Integrity Monitor to synchronize change requests, change tasks, or both. The change requests or change tasks determine the authorized change windows for specific Tanium Client managed endpoints (which are synchronized with ServiceNow configuration items). For events that occur on endpoints that are mapped to those configuration items during an authorized change window, Integrity Monitor automatically applies the **ServiceNow** label and records the ID of the change request or change task from ServiceNow.

Before you begin

Requirements

- ServiceNow Madrid release or later.
- Endpoints must be defined in ServiceNow as configuration items (CIs). One method to create configuration items for endpoints is by exporting data from Tanium™ Asset to your ServiceNow CMDB. For more information, see Tanium Asset User Guide: Exporting data.
- Your ServiceNow account must be configured with the appropriate permissions. For more

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information, see ServiceNow permissions required for least-privilege access on page 93.

ServiceNow permissions required for least-privilege access

Tanium Integrity Monitor must have the following access for integration with ServiceNow. For specific configuration in ServiceNow, work with your ServiceNow administrator, and consult the ServiceNow Documentation.

Least-privilege ServiceNow permissions for Tanium Integrity Monitor

Access control type	Operation	Name
REST_Endpoint	execute	`/api/now/cmdb/meta` [1]
record	read	`change_request.end_date`
record	read	`change_request.number`
record	read	`change_request.start_date`
record	read	`change_request.state`
record	read	`change_request.sys_id`
record	read	`change_task.change_request`
record	read	`change_task.planned_end_date`
record	read	`change_task.planned_start_date`
record	read	`change_task.number`
record	read	`change_task.state`
record	read	`change_task.sys_id`
record	read	`cmdb_ci_hardware.sys_id`
record	read	`sys_choice.element`
record	read	`sys_choice.label`

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Access control type	Operation	Name
record	read	`sys_choice.value`
record	read	`task_ci.ci_item`
record	read	`task_ci.task`

[1] Access to the CMDB Meta API typically requires the ITIL role, but you can explicitly grant it to another role for the purpose of Integrity Monitor access.

Configure the integration with ServiceNow

About this task

To create a ServiceNow integration, you need to specify connection information, the ServiceNow mappings, and the schedules to synchronize data with ServiceNow.

Specify the connection information

1. From the Integrity Monitor **Overview** page, click Settings, and then click the **Integrations** tab.
2. Click **Create Integration**.
3. In the **Summary** section, enter a **Name** for the integration.
4. In the **Destination** section, enter the **Host URL** of your ServiceNow instance.
5. Enter the **User Name** and **Password** for a ServiceNow account that has read privileges to query Change Management and CMDB data. To create a ServiceNow user with the minimum privileges necessary, see ServiceNow permissions required for least-privilege access on page 93.
6. Click **Establish Connection**.

Configure ServiceNow mappings

About this task

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Integrity Monitor uses the statuses of Open, Closed, and Canceled to manage authorized change windows. You must map these statuses to the states used in your ServiceNow change requests and change tasks. You must also map the attributes that identify an endpoint in ServiceNow to the appropriate Integrity Monitor sensors.

1. For **Create rules from**, select **Change Requests and Tasks**, **Change Requests**, or **Change Tasks**. This setting determines whether authorized change windows are determined by ServiceNow change requests, change tasks, or both.
2. If you are mapping change requests, in the **Change Requests** section select the appropriate ServiceNow states for **Open States**, **Closed States**, and **Canceled States**. If you use the default change request states in ServiceNow, you can leave the default mapping in place. You must have at least one ServiceNow state selected for each Integrity Monitor status.
3. If you are mapping change tasks, in the **Change Tasks** section select the appropriate ServiceNow states for **Open States**, **Closed States**, and **Canceled States**. Select the ServiceNow **Task Type** to use to define authorized change windows.
   You must have at least one ServiceNow state selected for each Integrity Monitor status, and you must select at least one **Task Type**.
4. In the **Endpoints** section, select each **Tanium Sensor** to identify endpoints, and select the corresponding **ServiceNow Attribute** for each sensor. By default, the `Computer Name` and `Computer Serial Number` sensors are mapped to the `Name` and `Serial Number` ServiceNow attributes.
   To add more attribute mappings to help identify endpoints, click Add Mapping. To remove an attribute mapping, click Remove Mapping.

Configure the schedules to synchronize data with ServiceNow

About this task

To enable the integration, you must enable and configure schedules to synchronize change data from ServiceNow.

1. In the **Schedule** section, select **Sync this mapping on a defined schedule**.
2. Configure the **ServiceNow Sync** schedule, which determines when the Tanium Server synchronizes change windows from ServiceNow, maps configuration items from ServiceNow to Tanium endpoints, and generates rules.

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3. Configure the **Tanium Endpoint Sync Schedule**, which determines when the Tanium Server gathers identification data from endpoints. For best results, this synchronization should be more frequent than the ServiceNow synchronization. The data is synchronized with ServiceNow during the following ServiceNow synchronization.
4. Configure the remaining advanced settings as necessary.

Tanium Integrity Monitor advanced settings for ServiceNow data synchronization

Setting	Description
Request Timeout	The time in seconds that Integrity Monitor waits for a response from ServiceNow. Valid values range from 30 to 180 seconds.
Batch Size	The number of records to request from ServiceNow at one time. Valid values range from 500 to 10000 records.
Look Back Days / Look Ahead Days	The number of days into the past and future for which Integrity Monitor should synchronize change requests or change tasks. Valid values range from 1 to 14 days.
Concurrent Requests	The number of concurrent requests to submit to ServiceNow. A lower value might lessen the performance impact on your ServiceNow instance. Valid values range from 1 to 8 requests.
Distribute Rules Over	The number of minutes over which the Tanium server should distribute the automatically generated rules that apply the ServiceNow label. The distribution is randomized over the specified duration to avoid spikes in network or other resource utilization. Valid values range from 5 to 30 minutes.
Change Window Extension	The number of hours to extend the beginning and end of a change window determined from ServiceNow. The **ServiceNow** label is still applied during this extended time. Changing this value affects only newly synchronized change windows; any existing change windows keep the extended time that was configured when they were first synchronized. Valid values range from 1 to 24 hours.

Complete the configuration

About this task

After you configure the necessary settings, click **Create**.

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Note: ServiceNow rules deploy to endpoints on the next synchronization determined by the ServiceNow Sync schedule. If you enabled Endpoint Configuration approvals, ServiceNow rule deployment must be approved in Endpoint Configuration before ServiceNow rules deploy to endpoints. For more information, see Tanium Endpoint Configuration User Guide: Managing approvals.

Manage authorized events

About this task

Review events to identify authorized ServiceNow change requests or tasks.

ServiceNow change requests or tasks with an Open state

When Integrity Monitor synchronizes data with ServiceNow, it determines authorized change windows from change requests, change tasks, or both (depending on the settings) with a state that you mapped to the Open status during configuration.

Integrity Monitor applies the **ServiceNow** label to events that fall within these authorized change windows on associated Tanium endpoints.

ServiceNow change requests or tasks with a Closed state

For change requests or change tasks with a ServiceNow state that you have mapped to the Closed status, Integrity Monitor no longer applies the **ServiceNow** label to associated events.

ServiceNow change requests or tasks with a Canceled state

For change requests or change tasks with a ServiceNow state that you have mapped to the Canceled status, Integrity Monitor removes the **ServiceNow** label from associated events if it has previously been applied.

Review events

When you view events, you can apply a filter to include only events that do not contain the **ServiceNow** label. The resulting list of events then includes only those that are not associated with approved changes in ServiceNow Change Management. For more information about viewing events,

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see Viewing events on page 76. For more information, see Tanium Interact User Guide: Filter question results.

When you review events with the **ServiceNow** label, you can use the change request or change task from the ID of the event to locate the associated change request or change task in ServiceNow Change Management.

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Maintaining Integrity Monitor

About this task

Perform monthly maintenance tasks to ensure that Integrity Monitor successfully performs scheduled activities on all the targeted Tanium Client managed endpoints and does not overuse endpoint or network resources. If Integrity Monitor is not performing as expected, you might need to troubleshoot issues or change settings. For more information, see Troubleshooting Integrity Monitor on page 100 for related procedures.

1. From the Main menu, go to **Modules** > **Integrity Monitor** > **Overview**.
2. Scroll to the **Health** dashboard to review any health check errors.
3. To investigate issues with client extensions that appear in the panel, click **Health Check**. For specific troubleshooting steps, see Tanium™ Integrity Monitor User Guide: Identify and resolve issues with client extensions.
4. To see detailed health information about endpoints that are included in an error category, click the bar for that category in the chart. For specific troubleshooting steps, see Integrity Monitor User Guide: Reference: Endpoint monitoring health check errors.

Monitor and troubleshoot Integrity Monitor health

Endpoints with errors appear in the **Endpoint Health** panel on the Integrity Monitor **Overview** page. To see all endpoint health errors that are relevant to Integrity Monitor, click the title of the chart. To get detailed health information about endpoints that are included in an error category, click the bar for the category in the chart.

For issues with client extensions that appear in the chart, see Identify and resolve issues with Client Extensions on page 100.

For help resolving a specific error, see Reference: Endpoint monitoring health check errors on page 107, and Contact Tanium Support on page 106 for further assistance.

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Troubleshooting Integrity Monitor

File permission monitoring is configured for a Windows path, but file permission events are not recorded on an endpoint

About this task

If you deployed a watchlist that includes a Windows-style path that is configured to record permission changes, but file permission events are not recorded on a Windows Tanium Client managed endpoint, make sure the **Audit File System** permission is configured properly on the endpoint. For more information, see Prepare Endpoints on page 42.

Tip: Endpoints that do not have this permission configured return `Recorder - Error: File permission auditing is disabled` when you ask a question using the `Client Extensions - Status` sensor, and they appear in the **Endpoint Health** panel on the Integrity Monitor **Overview** page.

Verify endpoint tools

If you are experiencing issues such as a feature not working on an endpoint or seeing incorrect data in the workbench, confirm that your endpoints have the latest toolset version.

For more information, see Tanium Endpoint Configuration User Guide: Identify and resolve issues with endpoint tools or Client Extensions and Reference: Client extensions and endpoint tools used for Tanium solutions.

Identify and resolve issues with Client Extensions

About this task

Use the following steps to troubleshoot issues with the Client Extensions that Integrity Monitor installs and uses. During troubleshooting, consider environmental factors such as security

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exclusions, file locks, CPU usage, RAM usage, and disk failures.

Tip: For more information about the Client Extensions that Integrity Monitor installs and uses, see Client Extensions on page 22.

1. If endpoints have Client Extension shared process mode enabled and you need to troubleshoot resource usage or crashes in the combined TaniumCX.exe or TaniumCX process, disable shared process mode on the affected endpoints, and then reproduce the issue if possible. For more information, see Manage Client Extension shared process mode.
2. To review the health of Client Extensions or to start an investigation into an existing error, ask a question using the `Client Extensions - Status` sensor.
   The results of these questions help to identify endpoints with errors and provide a starting point to deploy actions that might help correct the issue. Filter the results and drill down as necessary to investigate results that indicate errors.

   Tip: Consider whether endpoints with errors share common characteristics, such as operating system, domain or organization unit, or the antivirus software that is installed.
3. Target one or more endpoints with errors, and uninstall tools that report errors without blocking reinstallation. For more information, see Remove Integrity Monitor tools from endpoints on page 104 and Endpoint Configuration User Guide: Uninstall a tool installed by Endpoint Configuration.

   CAUTION: When you perform a hard uninstallation of some tools, the uninstallation also removes data that is associated with the tool from the endpoint. This data might include important historical or environmental data. If data that you want to keep is associated with the tool, make sure you perform only a soft uninstallation of the tool.

   Wait for automatic reinstallation of the tool. If the reinstallation does not resolve the issue, continue to the next step.
4. Ask a question using the `Endpoint Configuration - Tools Status Details` sensor, and include filters to limit the results to the tool that you are investigating. For example:
   `Get Endpoint Configuration - Tools Status Details having`

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`Endpoint Configuration - Tools Status Details:Tool Name contains <Tool_Name> from all machines with Endpoint Configuration - Tools Status:Tool Name contains <Tool_Name>`

Review the columns in the results for specific information about errors. The following table provides guidance for some common error conditions:

Potential errors returned by the Endpoint Configuration - Tools Status Details sensor

Error Condition	Possible Resolution
No error appears, but an available new version has not been installed	Review the **Targeted Version** column to make sure that the endpoint has received the latest manifest. If the targeted version does not yet show the updated version, the Endpoint Configuration manifest has not updated on the endpoint, usually for one of the following reasons: • The manifest update is still pending. Either wait for the manifest to update and then review the results again, or follow the steps in Endpoint Configuration User Guide: Verify and manually update the Endpoint Configuration manifest. • Action lock is enabled on the endpoint. Follow the steps in Endpoint Configuration User Guide: Verify and manually update the Endpoint Configuration manifest to identify endpoints with action lock turned on. • Integrity Monitor is no longer installed, or it is no longer targeting the endpoint. In some cases, Integrity Monitor might stop targeting an endpoint because it no longer needs the endpoint for a particular workload. Consider whether Integrity Monitor should still target the endpoint: • If it is expected or intentional that Integrity Monitor no longer targets the endpoint, you can optionally uninstall Integrity Monitor tools and dependencies. For more information, see Remove Integrity Monitor tools from endpoints on page 104. • If Integrity Monitor should still target the endpoint, make sure that the Integrity Monitor action group includes the endpoint, and make sure Integrity Monitor targets the endpoint in any expected configurations or profiles. Then, either wait for the manifest to update and then review the results again, or follow the steps in Endpoint Configuration User Guide: Verify and manually update the Endpoint Configuration manifest.
Installation Blocker:	If no **Failure Message** or **Failure Step** appears, the endpoint might be waiting for the dependencies to install. Wait to see if the condition resolves on its own. If this condition

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Error Condition	Possible Resolution
`Unmet Dependencies: [ Tool name ]`	remains for an extended period, ask the question again and review any error information in other columns, especially the **Failing Dependency** column.
`Failing Dependency:[ Tool name ]`	Ask the question: `Endpoint Configuration - Tools Status Details having Endpoint Configuration - Tools Status Details:Tool Name contains [Tool name] from all machines with Endpoint Configuration - Tools Status:Tool Name contains [Tool name]` Investigate further errors with the tool. If the dependency has not been installed on an endpoint, ask the question: `Get Endpoint Configuration - Tools Retry Status from all machines with Computer Name equals Computer_Name` to review the retry status for the tool installation. For more information, see Review tool installations that are scheduled for a retry .
Manually Blocked: `blocked`	The tool was previously blocked, either manually or during a previous uninstallation. Unblock the tool. For more information, see Block or unblock tools from installing on an endpoint .

5. Review the Extensions logs on the endpoint. Take note of entries that include `fail` or `error`. For more information, see Review the Extensions log for an endpoint on page 103.

Next steps

For additional help, collect all logs for Integrity Monitor, and contact Tanium Support on page 106.

Review the Extensions log for an endpoint

About this task

Use Client Management to directly connect to an endpoint and view and download extension logs.

1. From the Main menu, go to **Shared Services** > **Client Management**.
2. From the Client Management menu, click **Client Health**.
3. In the **Direct Connect** search box, enter all or part of an IP address or a computer name.
   Step result: Matching results are displayed after the search completes.

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4. From the search results, click the computer name to connect to the endpoint.
5. Click the **Logs** tab, and select an **extensions[#].log** file.
6. (Optional) To download the log, click **Download**.

Result

For additional help, collect logs, and contact Tanium Support.

Remove Integrity Monitor tools from endpoints

About this task

You can deploy an action to remove Integrity Monitor tools from an endpoint or computer group. Separate actions are available for Windows and non-Windows endpoints.

1. In Interact, target the endpoints from which you want to remove the tools. For example, ask a question that targets a specific operating system:`Get Endpoint Configuration - Tools Status from all machines with Is Windows equals true`
2. In the results, select the row for Integrity Monitor, drill down as necessary, and select the targets from which you want to remove Integrity Monitor tools. For more information, see Tanium Interact User Guide: Drill Down.
3. Click **Deploy Action**.
4. For the **Deployment Package**, select **Endpoint Configuration - Uninstall Tool [Windows]** or **Endpoint Configuration - Uninstall Tool [Non-Windows]**, depending on the endpoints you are targeting.
5. For **Tool Name**, select Integrity Monitor.
6. (Optional) By default, after the tools are removed they cannot be reinstalled. To allow tools to be automatically reinstalled, clear the selection for **Block reinstallation**. Re-installation occurs almost immediately.

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Note:

If reinstallation is blocked, you must unblock it manually:

- To allow Integrity Monitor to reinstall tools, deploy the **Endpoint Configuration - Unblock Tool [Windows]** or **Endpoint Configuration - Unblock Tool [Non-Windows]** package (depending on the targeted endpoints).
- If you reinstall tools manually, select **Unblock Tool** when you deploy the **Endpoint Configuration - Reinstall Tool [Windows]** or **Endpoint Configuration - Reinstall Tool [Non-Windows]** package.

7. (Optional) To remove all Integrity Monitor databases and logs from the endpoints, clear the selection for **Soft uninstall**.

   CAUTION: When you perform a hard uninstallation of some tools, the uninstallation also removes data that is associated with the tool from the endpoint. This data might include important historical or environmental data. If data that you want to keep is associated with the tool, make sure you perform only a soft uninstallation of the tool.

8. (Optional) To also remove any tools that were dependencies of the Integrity Monitor tools that are not dependencies for tools from other solutions, select **Remove unreferenced dependencies**.

9. (Optional) In the **Deployment Schedule** section, configure a schedule for the action.

   Tip: If some target endpoints might be offline when you initially deploy the action, select **Recurring Deployment** and set a reissue interval.

10. Click **Show preview to continue**.

11. A results grid appears at the bottom of the page showing you the targeted endpoints for your action. If you are satisfied with the results, click **Deploy Action**.

    Note: If you have enabled Endpoint Configuration approval, tool removal must be approved in Endpoint Configuration before tools are removed from endpoints.

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Contact Tanium Support

To contact Tanium Support for help, sign in to the Tanium Customer Community.

For more information about submitting a support case, see Case Submission Form.

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Reference: Endpoint monitoring health check errors

Review cross-platform and operating system specific endpoint health check error messages and potential solutions to help with troubleshooting.

Standard cross-platform endpoint health check error messages

The following section contains standard cross-platform endpoint health check error messages and potential resolutions. Use the information to troubleshoot the errors.

Scan completion took longer than configured scan interval. Maybe under spec or subscription misconfigured? Scan:integrity_monitor.watched_paths:<*path*>

The indicated scan took longer than the **Index Scan Frequency** configured for the monitor that is deployed to the Tanium Client managed endpoint. This might be a temporary condition because of other processes running on the endpoint.

Make sure that the endpoint meets the minimum system requirements on page 22 for Integrity Monitor, review other processes that run on the endpoint, and increase the interval that is specified for the **Index Scan Frequency** setting as necessary in the monitor that is deployed endpoint. For more information, see Create or edit a monitor on page 53.

subscription has dropped events: <Recorder/Index/Integrity-monitor.journal>

The endpoint did not have sufficient resources to capture all events. This might be a temporary condition because of other processes running on the endpoint, or watchlists that are deployed to the endpoint might result in an excessive number of recorded events.

Make sure that the endpoint meets the minimum system requirements on page 22 for Integrity Monitor, review other processes that run on the endpoint, and tune watchlists to reduce events that you do not need to record. For more information, see Add and edit paths on page 62.

Dropped high priority path events from recorder

The endpoint did not have sufficient resources to capture all events. This might be a temporary

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condition because of other processes running on the endpoint, or watchlists that are deployed to the endpoint might result in an excessive number of recorded events.

Make sure that the endpoint meets the minimum system requirements on page 22 for Integrity Monitor, review other processes that run on the endpoint, and tune watchlists to reduce events that you do not need to record. For more information, see Add and edit paths on page 62.

Recorder - Error: Tanium Driver requires system reboot

The Tanium Event Recorder Driver was installed, but the endpoint has not been rebooted.

After the driver is first installed on a targeted endpoint, you must reboot that endpoint before Integrity Monitor can record process and user information associated with file and registry operations.

Reboot the endpoint to enable the Tanium Event Recorder Driver.

Recorder - Error: Recorder not installed / Install Needed: Recorder not installed (Both messages appear together.)

The Client Recorder Extension is not installed.

Redeploy monitors action to attempt reinstallation of Recorder. For more information, see Deploy monitors on page 57. For more information about working with the recorder, see Tanium Client Recorder Extension User Guide.

Recorder - Error: Client Recorder Extension 2.0 previously installed but is no longer installed

The Client Recorder Extension was installed but is not running or was uninstalled.

Redeploy monitors action to attempt reinstallation of Recorder. For more information, see Deploy monitors on page 57. If the error still occurs, Contact Tanium Support on page 106.

Recorder - Error: System minimum requirements not met to enable features: Single CPU detected. Not loading rules (This message is reported only if you are using Recorder 2.3 or later.)

The Client Recorder Extension 2.3 and later requires a minimum of two CPUs per endpoint.

The recorder cannot be used on single-core endpoints. Deploy a monitor that has the **Collect process and user attribution information** setting disabled to the endpoint. For more information, see Create or edit a monitor on page 53.

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Standard Windows-specific endpoint health check error messages

The following section contains standard Windows-specific endpoint health check error messages and potential resolutions. Use the information to troubleshoot the errors.

Recorder - Error: Missing "TaniumSystemMonitor" from Event Tracing sessions / Install Needed: Missing "TaniumSystemMonitor" from Event Tracing sessions (Both messages appear together.)

The recorder is not registered with Event Tracing for Windows (ETW). No events will be recorded.

Make sure that the Tanium Client is running with appropriate credentials, and restart the recorder by deploying the `Recorder - Disable Recorder Extension [OS]` action, followed by the `Recorder - Enable Recorder Extension [OS]` action.

Recorder - Error: Event Tracing for Windows checks timed out

Integrity Monitor could not determine if the recorder was correctly registered with ETW. The recorder might miss events in this state.

Make sure that the Tanium Client is running with appropriate credentials, and restart the recorder by deploying the `Recorder - Disable Recorder Extension [OS]` action, followed by the `Recorder - Enable Recorder Extension [OS]` action.

Recorder - Error: File permission auditing is disabled

The **Audit File System** permission is not set correctly on the endpoint.

For steps to configure the necessary permission, see Prepare Endpoints on page 42.

Standard Linux-specific endpoint health check error messages

The following section contains standard Linux-specific endpoint health check error messages and potential resolutions. Use the information to troubleshoot the errors.

Recorder - Error: im_recorder.json file not found / Install Needed: im_recorder.json file not found (Both messages appear together.)

A necessary configuration file for the recorder is missing.

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Redeploy monitors action to reinstall Recorder and restore the configuration file. For more information, see Deploy monitors on page 57.

Recorder - Error: The "service" binary is not installed on this system. Please install it first.

The recorder cannot run because the system is missing the standard Linux service binary file.

Install the service binary.

Recorder - Error: auditd is not installed on this system. Please install first.

The recorder cannot run because the system is missing the `auditd` package.

Install the auditd package.

Recorder - Error: auditd raw logging is enabled

Raw logging is enabled in auditd.conf, which might reduce performance and prevent audit rules from loading.

Unless the system has excess resources and raw logging is necessary for other applications, consider disabling raw logging to improve performance. To disable raw logging, deploy the `Recorder - Disable Raw Logging [Linux]` action.

Recorder - Error: systemd raw logging is enabled

Raw logging is enabled for systemd, which might reduce performance and prevent audit rules from loading.

Unless the system has excess resources and raw logging is necessary for other applications, consider disabling raw logging to improve performance. To disable raw logging, deploy the `Recorder - Disable Raw Logging [Linux]` action.

Recorder - Error: Trouble loading recorder audit rules ("key=TaniumRecorder" missing from "auditctl -l" output)

Recorder `auditd` rules are not configured correctly. Audit rules might not be loaded if raw logging is enabled. No events will be recorded.

Deploy the `Recorder - Disable Raw Logging [Linux]` action to disable raw logging. If the problem persists, Contact Tanium Support on page 106.

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Reference: Gateway examples for Integrity Monitor

The following requests require Integrity Monitor 3.6 or later to create, retrieve, update, deploy, and delete Integrity Monitor monitors and watchlists.

For more information, see Tanium Gateway User Guide: Reference: Filter syntax and Tanium Gateway User Guide: Reference: Gateway examples.

Create Integrity Monitor monitor

mutation.integrityMonitorMonitorCreate

About this task

The `integrityMonitorMonitorCreate` mutation requires Integrity Monitor 3.6 or later and the **Integrity Monitor Monitors write** permission.

The following mutation creates a monitor.

```
mutation exampleCreateIMMonitor($input: IntegrityMonitorMonitorCreateInput!) {
  integrityMonitorMonitorCreate(input: $input) {
    monitor {
      id
      collectProcessInformation
      computerGroups {
        edges {
          node {
            id
            contentSetV2 {
              id
              name
              description
            }
            expression
            filterEnabled
            managementRightsEnabled
            modifiedTime
            name
            type
          }
        }
      }
      databaseMaximumSizeMegabytes
      deploymentStatus
      description
```

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```
      indexFirstScanDistributeOverTime {
        nanoseconds
        seconds
      }
      indexScanFrequency {
        nanoseconds
        seconds
      }
      monitorPruningAge {
        nanoseconds
        seconds
      }
      name
      priority
      revision
    }
    error {
      message
      retryable
      timedOut
    }
  }
}
```

Include the input variables in the **Variables** panel or in your variables dictionary:

```
{
  "input": {
    "collectProcessInformation": true,
    "computerGroups": {
      "id": "123"
    },
    "databaseMaximumSizeMegabytes": 512,
    "description": "example monitor",
    "indexFirstScanDistributeOverTime": {
      "nanoseconds": 0,
      "seconds": 14400
    },
    "indexScanFrequency": {
      "nanoseconds": 0,
      "seconds": 43200
    },
    "monitorPruningAge": {
      "nanoseconds": 0,
      "seconds": 86400
    },
    "name": "Example monitor",
    "priority": 1
  }
}
```

Example response:

```
{
  "data": {
    "integrityMonitorMonitorCreate": {
      "monitor": {
        "id": "123",
        "collectProcessInformation": true,
        "computerGroups": {
          "edges": [
```

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```
            {
              "node": {
                "id": "123",
                "contentSetV2": {
                  "id": "3",
                  "name": "Default Filter Groups",
                  "description": null
                },
                "expression": " Operating System Generation equals Windows 10",
                "filterEnabled": true,
                "managementRightsEnabled": true,
                "modifiedTime": null,
                "name": "All Windows 10",
                "type": "STANDARD"
              }
            }
          ]
        },
        "databaseMaximumSizeMegabytes": 512,
        "deploymentStatus": "PendingDeployment",
        "description": "example monitor",
        "indexFirstScanDistributeOverTime": {
          "nanoseconds": 0,
          "seconds": 14400
        },
        "indexScanFrequency": {
          "nanoseconds": 0,
          "seconds": 43200
        },
        "monitorPruningAge": {
          "nanoseconds": 0,
          "seconds": 86400
        },
        "name": "Example monitor",
        "priority": 1,
        "revision": 1
      },
      "error": null
    }
  }
}
```


Create Integrity Monitor watchlist

mutation.integrityMonitorWatchlistCreate

About this task

The `integrityMonitorWatchlistCreate` mutation requires Integrity Monitor 3.6 or later and the **Integrity Monitor Watchlists write** permission.

The following mutation creates a Windows-style watchlist. Associated watchlist paths use backslashes (`\`).

```
mutation exampleCreateIMWatchlist($input: IntegrityMonitorWatchlistCreateInput!) {
  integrityMonitorWatchlistCreate(input: $input) {
```

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```
    watchlist {
      id
      name
      computerGroups {
        edges {
          node {
            id
            name
            managementRightsEnabled
            filterEnabled
            contentSetV2 {
              id
              name
              description
            }
            type
            expression
          }
        }
      }
      deploymentStatus
      description
      paths {
        edges {
          node {
            path
            watchlistPathType
            includeFilePermissionChanges
            inclusions {
              edges {
                cursor
                node
              }
            }
            exclusions {
              edges {
                cursor
                node
              }
            }
          }
        }
      }
      pathStyle
      revision
    }
    error {
      message
      retryable
      timedOut
    }
  }
}
```

Include the input variables in the **Variables** panel or in your variables dictionary:

```
{
  "input": {
    "computerGroups": [
      {
        "name": "All Computers"
      },
```

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```
      {
        "id": "123"
      }
    ],
    "description": "example watchlist",
    "name": "Example watchlist",
    "pathStyle": "Windows"
  }
}
```

Example response:

```
{
  "data": {
    "integrityMonitorWatchlistCreate": {
      "watchlist": {
        "id": "123",
        "name": "Example watchlist",
        "computerGroups": {
          "edges": [
            {
              "node": {
                "id": "345",
                "name": "All Computers",
                "managementRightsEnabled": true,
                "filterEnabled": true,
                "contentSetV2": {
                  "id": "1",
                  "name": "Reserved",
                  "description": "Built in sensors which can not be edited or removed."
                },
                "type": "STANDARD",
                "expression": " any Computer Name not matches .*"
              }
            }
          ]
        },
        "deploymentStatus": "PendingDeployment",
        "description": "example watchlist",
        "paths": {
          "edges": []
        },
        "pathStyle": "Windows",
        "revision": 1
      },
      "error": null
    }
  }
}
```

The following mutation creates a Unix-style watchlist. Associated watchlist paths use forward slashes (`/`).

```
mutation exampleCreateIMWatchlist($input: IntegrityMonitorWatchlistCreateInput!) {
  integrityMonitorWatchlistCreate(input: $input) {
    watchlist {
      id
      name
      computerGroups {
        edges {
```

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```
          node {
            id
            name
            managementRightsEnabled
            filterEnabled
            contentSetV2 {
              id
              name
              description
            }
            type
            expression
          }
        }
      }
      deploymentStatus
      description
      paths {
        edges {
          node {
            path
            watchlistPathType
            includeFilePermissionChanges
            inclusions {
              edges {
                node
              }
            }
            exclusions {
              edges {
                node
              }
            }
          }
        }
      }
      pathStyle
      revision
    }
    error {
      message
      retryable
      timedOut
    }
  }
}
```

Include the input variables in the **Variables** panel or in your variables dictionary:

```
{
  "input": {
    "computerGroups": [
      {
        "name": "All Computers"
      },
      {
        "id": "123"
      }
    ],
    "description": "example watchlist",
    "name": "Example watchlist Unix",
    "pathStyle": "Unix"
```

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```
  }
}
```

Example response:

```
{
  "data": {
    "integrityMonitorWatchlistCreate": {
      "watchlist": {
        "id": "234",
        "name": "Example watchlist Unix",
        "computerGroups": {
          "edges": [
            {
              "node": {
                "id": "345",
                "name": "All Computers",
                "managementRightsEnabled": true,
                "filterEnabled": true,
                "contentSetV2": {
                  "id": "1",
                  "name": "Reserved",
                  "description": "Built in sensors which can not be edited or removed."
                },
                "type": "STANDARD",
                "expression": " any Computer Name not matches .*"
              }
            }
          ]
        },
        "deploymentStatus": "PendingDeployment",
        "description": "example watchlist",
        "paths": {
          "edges": []
        },
        "pathStyle": "Unix",
        "revision": 1
      },
      "error": null
    }
  }
}
```

Create Integrity Monitor watchlist Unix path

mutation.integrityMonitorWatchlistUnixPathCreate

About this task

The `integrityMonitorWatchlistUnixPathCreate` mutation requires Integrity Monitor 3.6 or later and the **Integrity Monitor Watchlists write** permission.

The following mutation creates a Unix-style watchlist path that uses forward slashes (`/`). This path is associated with the watchlist that matches the ID `123`.

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Note: The response returns an error if no watchlist matches the input ID, if the watchlist does not use Unix-style paths, or if the path is not unique in the watchlist.

```
mutation exampleCreateIMUnixPath($input: IntegrityMonitorWatchlistUnixPathCreateInput!) {
  integrityMonitorWatchlistUnixPathCreate(input: $input) {
    watchlistPath {
      id
      exclusions {
        edges {
          node
        }
      }
      inclusions {
        edges {
          node
        }
      }
      path
      watchlistPathType
    }
    error {
      message
      retryable
      timedOut
    }
  }
}
```

Include the input variables in the **Variables** panel or in your variables dictionary:

```
{
  "input": {
    "watchlistID": "123",
    "path": "/a/b*/c",
    "inclusions": [
      ".ssh/\\*\\*"
    ],
    "exclusions": [
      "\\*\\*.log",
      "\\*\\*.db"
    ]
  }
}
```

Example response:

```
{
  "data": {
    "integrityMonitorWatchlistUnixPathCreate": {
      "watchlistPath": {
        "id": "123",
        "exclusions": {
          "edges": [
            {
              "node": "\\*\\*.db"
            },
            {
              "node": "\\*\\*.log"
```

```
            }
          ]
        },
        "inclusions": {
          "edges": [
            {
              "node": ".ssh/\\*\\*"
            }
          ]
        },
        "path": "/a/b*/c",
        "watchlistPathType": "File"
      },
      "error": null
    }
  }
}
```

Create Integrity Monitor watchlist Windows file path

mutation.integrityMonitorWatchlistWindowsFilePathCreate

About this task

The `integrityMonitorWatchlistWindowsFilePathCreate` mutation requires Integrity Monitor 3.6 or later and the **Integrity Monitor Watchlists write** permission.

The following mutation creates a Windows-style watchlist file path that uses backslashes (`\`). This path is associated with the watchlist that matches the ID `123`.



Note: The response returns an error if no watchlist matches the input ID, if the watchlist does not use Windows-style paths, or if the path is not unique in the watchlist.

```
mutation exampleCreateIMWinFilePath($input:
IntegrityMonitorWatchlistWindowsFilePathCreateInput!) {
  integrityMonitorWatchlistWindowsFilePathCreate(input: $input) {
    watchlistPath {
      id
      exclusions {
        edges {
          node
        }
      }
      includeFilePermissionChanges
      inclusions {
        edges {
          node
        }
      }
      path
      watchlistPathType
```

```
    }
    error {
      message
      retryable
      timedOut
    }
  }
}
```

Include the input variables in the **Variables** panel or in your variables dictionary:

```
{
  "input": {
    "watchlistID": "123",
    "path": "C:\\Program Files",
    "inclusions": [
      "**.pem"
    ],
    "exclusions": [
      "**.log",
      "**.db"
    ],
    "includeFilePermissionChanges": true
  }
}
```

Example response:

```
{
  "data": {
    "integrityMonitorWatchlistWindowsFilePathCreate": {
      "watchlistPath": {
        "id": "2345",
        "exclusions": {
          "edges": [
            {
              "node": "**.db"
            },
            {
              "node": "**.log"
            }
          ]
        },
        "includeFilePermissionChanges": true,
        "inclusions": {
          "edges": [
            {
              "node": "**.pem"
            }
          ]
        },
        "path": "C:\\Program Files",
        "watchlistPathType": "File"
      },
      "error": null
    }
  }
}
```

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Create Integrity Monitor watchlist Windows registry path

mutation.integrityMonitorWatchlistWindowsRegistryPathCreate

About this task

The `integrityMonitorWatchlistWindowsRegistryPathCreate` mutation requires Integrity Monitor 3.6 or later and the **Integrity Monitor Watchlists write** permission.

The following mutation creates a Windows-style watchlist registry path that uses backslashes (`\`). This path is associated with the watchlist that matches the ID `123`.



Note: The response returns an error if no watchlist matches the input ID, if the watchlist does not use Windows-style paths, or if the path is not unique in the watchlist.

```
mutation exampleCreateIMWinRegPath($input:
IntegrityMonitorWatchlistWindowsRegistryPathCreateInput!) {
  integrityMonitorWatchlistWindowsRegistryPathCreate(input: $input) {
    watchlistPath {
      id
      exclusions {
        edges {
          node
        }
      }
      inclusions {
        edges {
          node
        }
      }
      path
      watchlistPathType
    }
    error {
      message
      retryable
      timedOut
    }
  }
}
```

Include the input variables in the **Variables** panel or in your variables dictionary:

```
{
  "input": {
    "watchlistID": "123",
    "path": "HKEY_LOCAL_MACHINE\\a\\b*\\c",
    "inclusions": [
      "Classes\\*\\ShellEx\\*\\*"
    ],
    "exclusions": [
```

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```
      ".NETFramework\\*\\NGenService\\**",
      "Cryptography\\CertificateTemplateCache\\*"
    ]
  }
}
```

Example response:

```
{
  "data": {
    "integrityMonitorWatchlistWindowsRegistryPathCreate": {
      "watchlistPath": {
        "id": "12345",
        "exclusions": {
          "edges": [
            {
              "node": "Cryptography\\CertificateTemplateCache\\*"
            },
            {
              "node": ".NETFramework\\*\\NGenService\\**"
            }
          ]
        },
        "inclusions": {
          "edges": [
            {
              "node": "Classes\\*\\ShellEx\\*\\*"
            }
          ]
        },
        "path": "HKEY_LOCAL_MACHINE\\a\\b*\\c",
        "watchlistPathType": "Registry"
      },
      "error": null
    }
  }
}
```

Delete Integrity Monitor watchlist path

mutation.integrityMonitorWatchlistPathDelete

About this task

The `integrityMonitorWatchlistPathDelete` mutation requires Integrity Monitor 3.6 or later and the **Integrity Monitor Watchlists write** permission.

The following mutation deletes a watchlist path that matches the ID `123`.

```
mutation exampleDeleteIMPath($ref: IdRefInput!) {
  integrityMonitorWatchlistPathDelete(input: $ref) {
    pathID
    error {
      message
      retryable
      timedOut
```

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```
    }
  }
}
```

Include the input variables in the **Variables** panel or in your variables dictionary:

```
{
  "ref": {
    "id": "123"
  }
}
```

Example response:

```
{
  "data": {
    "integrityMonitorWatchlistPathDelete": {
      "pathID": "123",
      "error": null
    }
  }
}
```

Deploy Integrity Monitor monitors

mutation.integrityMonitorStartMonitorDeployment

About this task

The `integrityMonitorStartMonitorDeployment` mutation requires Integrity Monitor 3.6 or later and the **Integrity Monitor Deploy Monitors** permission.

The following mutation deploys all monitors. Monitors marked for deletion are deleted during this deployment.

```
mutation exampleStartMonitorDeployment {
  integrityMonitorStartMonitorDeployment {
    error {
      message
      retryable
      timedOut
    }
  }
}
```

Example response:

```
{
  "data": {
    "integrityMonitorStartMonitorDeployment": {
      "error": null
    }
  }
```

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```
}
```

Deploy Integrity Monitor watchlists

mutation.integrityMonitorStartWatchlistDeployment

About this task

The `integrityMonitorStartWatchlistDeployment` mutation requires Integrity Monitor 3.6 or later and the **Integrity Monitor Deploy Watchlists** permission.

The following mutation deploys all watchlists. Watchlists marked for deletion are deleted during this deployment.

```
mutation exampleStartWatchlistDeployment {
  integrityMonitorStartWatchlistDeployment {
    error {
      message
      retryable
      timedOut
    }
  }
}
```

Example response:

```
{
  "data": {
    "integrityMonitorStartWatchlistDeployment": {
      "error": null
    }
  }
}
```

Get Integrity Monitor monitor by ID

query.integrityMonitorMonitor

About this task

The `integrityMonitorMonitor` query requires Integrity Monitor 3.6 or later and the **Integrity Monitor Monitor read** permission.

The following query retrieves the monitor that matches the ID.

```
query exampleGetIMMonitorByID($id: ID!) {
  integrityMonitorMonitor(ref: {id: $id}) {
    id
```

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```
    collectProcessInformation
    computerGroups {
      edges {
        node {
          id
          contentSetV2 {
            id
            name
            description
          }
          expression
          filterEnabled
          managementRightsEnabled
          modifiedTime
          name
          type
        }
      }
    }
    databaseMaximumSizeMegabytes
    deploymentStatus
    description
    indexFirstScanDistributeOverTime {
      seconds
      nanoseconds
    }
    indexScanFrequency {
      seconds
      nanoseconds
    }
    monitorPruningAge {
      seconds
      nanoseconds
    }
    name
    priority
    revision
  }
}
```

Include the ID variable in the **Variables** panel or in your variables dictionary:

```
{
  "id": "123"
}
```

Example response:

```
{
  "data": {
    "integrityMonitorMonitor": {
      "id": "123",
      "collectProcessInformation": true,
      "computerGroups": {
        "edges": [
          {
            "node": {
              "id": "75",
              "contentSetV2": {
                "id": "3",
                "name": "Default Filter Groups",
```

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```
              "description": null
            },
            "expression": " Is Linux equals True",
            "filterEnabled": true,
            "managementRightsEnabled": true,
            "modifiedTime": null,
            "name": "All Linux",
            "type": "STANDARD"
          }
        }
      ]
    },
    "databaseMaximumSizeMegabytes": null,
    "deploymentStatus": "PendingDeployment",
    "description": "",
    "indexFirstScanDistributeOverTime": {
      "seconds": 14400,
      "nanoseconds": 0
    },
    "indexScanFrequency": {
      "seconds": 43200,
      "nanoseconds": 0
    },
    "monitorPruningAge": {
      "seconds": 2592000,
      "nanoseconds": 0
    },
    "name": "Linux Monitor",
    "priority": 3,
    "revision": 5
  }
 }
}
```


Get Integrity Monitor service status

query.integrityMonitorStatus

About this task

The `integrityMonitorStatus` query requires Integrity Monitor 3.6 or later and the following permissions:

- **Integrity Monitor Monitors read** and **Integrity Monitor Watchlists read** permissions to submit the query request
- **Integrity Monitor Deploy Monitors** permission to get monitor deployment status (`isDeployingMonitors`)
- **Integrity Monitor Deploy Watchlists** permission to get watchlist deployment status(`isDeployingWatchlists`)

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The following query retrieves the Integrity Monitor service status.

```
query exampleGetIMServiceStatus {
  integrityMonitorStatus {
    isDeployingMonitors
    isDeployingWatchlists
  }
}
```

Example response:

```
{
  "data": {
    "integrityMonitorStatus": {
      "isDeployingMonitors": true,
      "isDeployingWatchlists": true
    }
  }
}
```

Get Integrity Monitor watchlist by ID

query.integrityMonitorWatchlist

About this task

The `integrityMonitorWatchlist` query requires Integrity Monitor 3.6 or later and the **Integrity Monitor Watchlists read** permission.

The following query retrieves the watchlist that matches the ID.

```
query exampleGetIMWatchlistByID($id: ID!) {
  integrityMonitorWatchlist(ref: {id: $id}) {
    id
    name
    computerGroups {
      edges {
        node {
          id
          name
          managementRightsEnabled
          filterEnabled
          contentSetV2 {
            id
            name
            description
          }
          type
          expression
        }
      }
    }
    deploymentStatus
    description
    paths {
```

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```
      edges {
        node {
          path
          watchlistPathType
          includeFilePermissionChanges
          inclusions {
            edges {
              node
            }
          }
          exclusions {
            edges {
              node
            }
          }
        }
      }
    }
    pathStyle
    revision
  }
}
```

Include the ID variable in the **Variables** panel or in your variables dictionary:

```
{
  "id": "123"
}
```

Example response:

```
{
  "data": {
    "integrityMonitorWatchlist": {
      "id": "123",
      "name": "Example watchlist update",
      "computerGroups": {
        "edges": [
          {
            "node": {
              "id": "1",
              "name": "All Computers",
              "managementRightsEnabled": true,
              "filterEnabled": true,
              "contentSetV2": {
                "id": "1",
                "name": "Reserved",
                "description": "Built in sensors which can not be edited or removed."
              },
              "type": "STANDARD",
              "expression": " All Computers"
            }
          },
          {
            "node": {
              "id": "123",
              "name": "All Debian 9",
              "managementRightsEnabled": true,
              "filterEnabled": true,
              "contentSetV2": {
                "id": "3",
```

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```
                "name": "Default Filter Groups",
                "description": null
              },
              "type": "STANDARD",
              "expression": " Operating System Generation equals Debian 9"
            }
          }
        ]
      },
      "deploymentStatus": "PendingDeployment",
      "description": "example watchlist update",
      "paths": {
        "edges": [
          {
            "node": {
              "path": "/a/b*/c",
              "watchlistPathType": "File",
              "includeFilePermissionChanges": true,
              "inclusions": {
                "edges": [
                  {
                    "node": ".ssh/\\*\\*"
                  }
                ]
              },
              "exclusions": {
                "edges": []
              }
            }
          }
        ]
      },
      "pathStyle": "Unix",
      "revision": 3
    }
  }
}
```

Get multiple Integrity Monitor monitors

query.integrityMonitorMonitors

About this task

The `integrityMonitorMonitors` query requires Integrity Monitor 3.6 or later and the **Integrity Monitor Monitor read** permission.

The following query retrieves the first `2` monitors.

```
query exampleGetMultipleIMMonitors($first: Int) {
  integrityMonitorMonitors(first: $first) {
    edges {
      node {
        id
        collectProcessInformation
        computerGroups {
          edges {
```

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```
            node {
              id
              contentSetV2 {
                id
                name
                description
              }
              expression
              filterEnabled
              managementRightsEnabled
              modifiedTime
              name
              type
            }
          }
        }
        databaseMaximumSizeMegabytes
        deployment Status
        description
        indexFirstScanDistributeOverTime {
          seconds
          nanoseconds
        }
        indexScanFrequency {
          seconds
          nanoseconds
        }
        monitorPruningAge {
          seconds
          nanoseconds
        }
        name
        priority
        revision
      }
    }
  }
}
```

Include the pagination variable in the **Variables** panel or in your variables dictionary:

```
{
  "first": 2
}
```

Example response:

```
{
  "data": {
    "integrityMonitorMonitors": {
      "edges": [
        {
          "node": {
            "id": "123",
            "collectProcessInformation": true,
            "computerGroups": {
              "edges": []
            },
            "databaseMaximumSizeMegabytes": null,
            "deploymentStatus": "PendingDeployment",
            "description": "",
```

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```
            "indexFirstScanDistributeOverTime": {
              "seconds": 0,
              "nanoseconds": 0
            },
            "indexScanFrequency": {
              "seconds": 600,
              "nanoseconds": 0
            },
            "monitorPruningAge": {
              "seconds": 2592000,
              "nanoseconds": 0
            },
            "name": "example monitor",
            "priority": 1,
            "revision": 6
          }
        },
        {
          "node": {
            "id": "234",
            "collectProcessInformation": true,
            "computerGroups": {
              "edges": [
                {
                  "node": {
                    "id": "234",
                    "contentSetV2": {
                      "id": "3",
                      "name": "Default Filter Groups",
                      "description": null
                    },
                    "expression": " Operating System Generation equals Windows Server 2008
R2",
                    "filterEnabled": true,
                    "managementRightsEnabled": true,
                    "modifiedTime": null,
                    "name": "All Windows Server 2008 R2",
                    "type": "STANDARD"
                  }
                },
                {
                  "node": {
                    "id": "345",
                    "contentSetV2": {
                      "id": "3",
                      "name": "Default Filter Groups",
                      "description": null
                    },
                    "expression": " Operating System Generation equals Windows Server 2016",
                    "filterEnabled": true,
                    "managementRightsEnabled": true,
                    "modifiedTime": null,
                    "name": "All Windows Server 2016",
                    "type": "STANDARD"
                  }
                },
                {
                  "node": {
                    "id": "456",
                    "contentSetV2": {
                      "id": "3",
                      "name": "Default Filter Groups",
                      "description": null
                    },
```


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```
                    "expression": " Operating System Generation equals Windows Server 2019",
                    "filterEnabled": true,
                    "managementRightsEnabled": true,
                    "modifiedTime": null,
                    "name": "All Windows Server 2019",
                    "type": "STANDARD"
                  }
                },
                {
                  "node": {
                    "id": "567",
                    "contentSetV2": {
                      "id": "3",
                      "name": "Default Filter Groups",
                      "description": null
                    },
                    "expression": " Operating System Generation equals Windows Server 2022",
                    "filterEnabled": true,
                    "managementRightsEnabled": true,
                    "modifiedTime": null,
                    "name": "All Windows Server 2022",
                    "type": "STANDARD"
                  }
                },
                {
                  "node": null
                }
              ]
            },
            "databaseMaximumSizeMegabytes": null,
            "deploymentStatus": "PendingDeployment",
            "description": "",
            "indexFirstScanDistributeOverTime": {
              "seconds": 14400,
              "nanoseconds": 0
            },
            "indexScanFrequency": {
              "seconds": 43200,
              "nanoseconds": 0
            },
            "monitorPruningAge": {
              "seconds": 2592000,
              "nanoseconds": 0
            },
            "name": "Windows Monitor",
            "priority": 2,
            "revision": 6
          }
        }
      ]
    }
  }
}
```


Get multiple Integrity Monitor watchlists

query.integrityMonitorWatchlists

About this task

The `integrityMonitorWatchlists` query requires Integrity Monitor 3.6 or later and the **Integrity Monitor Watchlists read** permission.

The following query retrieves the first `2` watchlists.

```
query exampleGetIMWatchlists($first: Int) {
  integrityMonitorWatchlists(first: $first) {
    edges {
      node {
        id
        name
        computerGroups {
          edges {
            node {
              id
              name
              managementRightsEnabled
              filterEnabled
              contentSetV2 {
                id
                name
                description
              }
              type
              expression
            }
          }
        }
        deploymentStatus
        description
        paths {
          edges {
            node {
              path
              watchlistPathType
              includeFilePermissionChanges
              inclusions {
                edges {
                  node
                }
              }
              exclusions {
                edges {
                  node
                }
              }
            }
          }
        }
        pathStyle
        revision
      }
    }
  }
}
```

Include the pagination variable in the **Variables** panel or in your variables dictionary:

```
{
  "first": 2
```

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```
}
```

Example response:


```
{
  "data": {
    "integrityMonitorWatchlists": {
      "edges": [
        {
          "node": {
            "id": "12",
            "name": "Example AIX Watchlist",
            "computerGroups": {
              "edges": [
                {
                  "node": {
                    "id": "33",
                    "name": "All AIX",
                    "managementRightsEnabled": true,
                    "filterEnabled": true,
                    "contentSetV2": {
                      "id": "3",
                      "name": "Default Filter Groups",
                      "description": null
                    },
                    "type": "STANDARD",
                    "expression": " Is AIX equals True"
                  }
                }
              ]
            },
            "deploymentStatus": "Deployed",
            "description": "",
            "paths": {
              "edges": [
                {
                  "node": {
                    "path": "/bin",
                    "watchlistPathType": "File",
                    "includeFilePermissionChanges": true,
                    "inclusions": {
                      "edges": []
                    },
                    "exclusions": {
                      "edges": [
                        {
                          "node": "**.db"
                        },
                        {
                          "node": "**.log"
                        },
                        {
                          "node": "**.state"
                        },
                        {
                          "node": "**.tmp"
                        }
                      ]
                    }
                  }
                },
                {
```


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```
              "node": {
                "path": "/boot",
                "watchlistPathType": "File",
                "includeFilePermissionChanges": true,
                "inclusions": {
                  "edges": [
                    {
                      "node": "efi/**"
                    },
                    {
                      "node": "grub/**"
                    },
                    {
                      "node": "grub2/**"
                    }
                  ]
                },
                "exclusions": {
                  "edges": []
                }
              }
            },
            {
              "node": {
                "path": "/etc/shells",
                "watchlistPathType": "File",
                "includeFilePermissionChanges": true,
                "inclusions": {
                  "edges": []
                },
                "exclusions": {
                  "edges": []
                }
              }
            }
          ]
        },
        "pathStyle": "Unix",
        "revision": 2
      }
    },
    {
      "node": {
        "id": "23",
        "name": "Example watchlist",
        "computerGroups": {
          "edges": [
            {
              "node": {
                "id": "1",
                "name": "All Computers",
                "managementRightsEnabled": true,
                "filterEnabled": true,
                "contentSetV2": {
                  "id": "1",
                  "name": "Reserved",
                  "description": "Built in sensors which can not be edited or removed."
                },
                "type": "STANDARD",
                "expression": " All Computers"
              }
            }
          ]
        },
```


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```
            "deploymentStatus": "Deployed",
            "description": "",
            "paths": {
              "edges": [
                {
                  "node": {
                    "path": "C:\\example",
                    "watchlistPathType": "File",
                    "includeFilePermissionChanges": true,
                    "inclusions": {
                      "edges": []
                    },
                    "exclusions": {
                      "edges": []
                    }
                  }
                },
                {
                  "node": {
                    "path": "HKEY_LOCAL_MACHINE\\SYSTEM\\EXAMPLE",
                    "watchlistPathType": "Registry",
                    "includeFilePermissionChanges": false,
                    "inclusions": {
                      "edges": []
                    },
                    "exclusions": {
                      "edges": []
                    }
                  }
                }
              ]
            },
            "pathStyle": "Windows",
            "revision": 3
          }
        }
      ]
    }
  }
}
```

Mark Integrity Monitor monitors for deletion

mutation.integrityMonitorMonitorMarkForDeletion

About this task

The `integrityMonitorMonitorMarkForDeletion` mutation requires Integrity Monitor 3.6 or later and the **Integrity Monitor Monitors write** permission.

The following mutation marks the monitor that matches the ID `123` for deletion. Monitors marked for deletion are deleted during the next monitor deployment.

```
mutation exampleMarkIMMonitorForDeletion($ref: IdRefInput!) {
  integrityMonitorMonitorMarkForDeletion(input: $ref) {
    monitor {
```

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```
      id
      name
    }
    error {
      message
      retryable
      timedOut
    }
  }
}
```

Include the input variables in the **Variables** panel or in your variables dictionary:

```
{
  "ref": {
    "id": "123"
  }
}
```

Example response:

```
{
  "data": {
    "integrityMonitorMonitorMarkForDeletion": {
      "monitor": {
        "id": "123",
        "name": "example monitor"
      },
      "error": null
    }
  }
}
```

Mark Integrity Monitor watchlists for deletion

mutation.integrityMonitorWatchlistMarkForDeletion

About this task

The `integrityMonitorWatchlistMarkForDeletion` mutation requires Integrity Monitor 3.6 or later and the **Integrity Monitor Watchlists write** permission.

The following mutation marks the watchlist that matches the ID `123` for deletion. Watchlists marked for deletion are deleted during the next watchlist deployment.

```
mutation exampleDeleteWatchlist($ref: IdRefInput!) {
  integrityMonitorWatchlistMarkForDeletion(input: $ref) {
    watchlist {
      id
      name
    }
    error {
      message
      retryable
```

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```
      timedOut
    }
  }
}
```

Include the input variables in the **Variables** panel or in your variables dictionary:

```
{
  "ref": {
    "id": "123"
  }
}
```

Example response:

```
{
  "data": {
    "integrityMonitorWatchlistMarkForDeletion": {
      "watchlist": {
        "id": "123",
        "name": "example watchlist"
      },
      "error": null
    }
  }
}
```

Update Integrity Monitor monitor by ID

mutation.integrityMonitorMonitorUpdate

About this task

The `integrityMonitorMonitorUpdate` mutation requires Integrity Monitor 3.6 or later and the **Integrity Monitor Monitors write** permission.

The following mutation updates a monitor that matches the ID. Note the following:

- The response returns an error if no monitor matches the ID, the `name` value is an empty string or `null`, or the `name` value is updated to a name that matches another monitor.
- Fields defined with a value overwrite the existing field value with the defined value. Defining an array with at least one value for the `computerGroups` field overwrites all existing array values with the defined array values.
- Fields defined with a `null` value are not updated, if `null` is allowed.
- Fields defined with an empty string or empty array replace any existing value with the empty

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string or empty array, if an empty string or empty array are allowed.

```
mutation exampleUpdateIMMonitor($input: IntegrityMonitorMonitorUpdateInput!) {
  integrityMonitorMonitorUpdate(input: $input) {
    monitor {
      id
      collectProcessInformation
      computerGroups {
        edges {
          node {
            id
            contentSetV2 {
              id
              name
              description
            }
            expression
            filterEnabled
            managementRightsEnabled
            modifiedTime
            name
            type
          }
        }
      }
      databaseMaximumSizeMegabytes
      deploymentStatus
      description
      indexFirstScanDistributeOverTime {
        nanoseconds
        seconds
      }
      indexScanFrequency {
        nanoseconds
        seconds
      }
      monitorPruningAge {
        nanoseconds
        seconds
      }
      name
      priority
      revision
    }
    error {
      message
      retryable
      timedOut
    }
  }
}
```

Include the input variables in the **Variables** panel or in your variables dictionary:

```
{
  "input": {
    "id": "12",
    "collectProcessInformation": true,
    "computerGroups": {
      "id": "123"
    },
```

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```
    "databaseMaximumSizeMegabytes": 1024,
    "description": "example monitor",
    "indexFirstScanDistributeOverTime": {
      "seconds": 14400,
      "nanoseconds": 0
    },
    "indexScanFrequency": {
      "seconds": 43200,
      "nanoseconds": 0
    },
    "monitorPruningAge": {
      "seconds": 86400,
      "nanoseconds": 0
    },
    "name": "Example monitor",
    "priority": 1
  }
}
```

Example response:

```
{
  "data": {
    "integrityMonitorMonitorUpdate": {
      "monitor": {
        "id": "12",
        "collectProcessInformation": true,
        "computerGroups": {
          "edges": [
            {
              "node": {
                "id": "123",
                "contentSetV2": {
                  "id": "3",
                  "name": "Default Filter Groups",
                  "description": null
                },
                "expression": " Operating System Generation equals Windows 10",
                "filterEnabled": true,
                "managementRightsEnabled": true,
                "modifiedTime": null,
                "name": "All Windows 10",
                "type": "STANDARD"
              }
            }
          ]
        },
        "databaseMaximumSizeMegabytes": 1024,
        "deploymentStatus": "PendingDeployment",
        "description": "example monitor",
        "indexFirstScanDistributeOverTime": {
          "nanoseconds": 0,
          "seconds": 14400
        },
        "indexScanFrequency": {
          "nanoseconds": 0,
          "seconds": 43200
        },
        "monitorPruningAge": {
          "nanoseconds": 0,
          "seconds": 86400
        },
```

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```
        "name": "Example monitor",
        "priority": 1,
        "revision": 2
      },
      "error": null
    }
  }
}
```

Update Integrity Monitor watchlist

mutation.integrityMonitorWatchlistUpdate

About this task

The `integrityMonitorWatchlistUpdate` mutation requires Integrity Monitor 3.6 or later and the **Integrity Monitor Watchlists write** permission.

The following mutation updates a watchlist that matches the ID. Note the following:

- The response returns an error if no watchlist matches the ID, the `name` value is an empty string or `null`, or the `name` value is updated to a name that matches another watchlist with the same `pathStyle` value.
- Fields defined with a value overwrite the existing field value with the defined value. Defining an array with at least one value for the `computerGroups` field overwrites all existing array values with the defined array values.
- Fields defined with a `null` value are not updated, if `null` is allowed.
- Fields defined with an empty string or empty array replace any existing value with the empty string or empty array, if an empty string or empty array are allowed.
- If you change the `pathStyle` of a watchlist, all of the watchlist paths are deleted because paths must match the watchlist path style.

```
mutation exampleUpdateIMWatchlist($input: IntegrityMonitorWatchlistUpdateInput!) {
  integrityMonitorWatchlistUpdate(input: $input) {
    watchlist {
      id
      name
      computerGroups {
        edges {
          node {
            id
            name
            managementRightsEnabled
```

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```
            filterEnabled
            contentSetV2 {
              id
              name
              description
            }
            type
            expression
          }
        }
      }
      deploymentStatus
      description
      paths {
        edges {
          node {
            path
            watchlistPathType
            includeFilePermissionChanges
            inclusions {
              edges {
                node
              }
            }
            exclusions {
              edges {
                node
              }
            }
          }
        }
      }
      pathStyle
      revision
    }
    error {
      message
      retryable
      timedOut
    }
  }
}
```

Include the input variables in the **Variables** panel or in your variables dictionary:

```
{
  "input": {
    "id": "123",
    "computerGroups": [
      {
        "name": "All Computers"
      },
      {
        "id": "123"
      }
    ],
    "description": "example watchlist update",
    "name": "Example watchlist update",
    "pathStyle": "Windows"
  }
}
```

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Example response:


```
{
  "data": {
    "integrityMonitorWatchlistUpdate": {
      "watchlist": {
        "id": "123",
        "name": "Example watchlist update",
        "computerGroups": {
          "edges": [
            {
              "node": {
                "id": "1",
                "name": "All Computers",
                "managementRightsEnabled": true,
                "filterEnabled": true,
                "contentSetV2": {
                  "id": "1",
                  "name": "Reserved",
                  "description": "Built in sensors which can not be edited or removed."
                },
                "type": "STANDARD",
                "expression": " All Computers"
              }
            },
            {
              "node": {
                "id": "123",
                "name": "All Windows 8.1",
                "managementRightsEnabled": true,
                "filterEnabled": true,
                "contentSetV2": {
                  "id": "3",
                  "name": "Default Filter Groups",
                  "description": null
                },
                "type": "STANDARD",
                "expression": " Operating System Generation equals Windows 8.1"
              }
            }
          ]
        },
        "deploymentStatus": "PendingDeployment",
        "description": "example watchlist update",
        "paths": {
          "edges": []
        },
        "pathStyle": "Windows",
        "revision": 5
      },
      "error": null
    }
  }
}
```


Update Integrity Monitor watchlist Unix path

mutation.integrityMonitorWatchlistUnixPathUpdate

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About this task

The `integrityMonitorWatchlistUnixPathUpdate` mutation requires Integrity Monitor 3.6 or later and the **Integrity Monitor Watchlists write** permission.

The following mutation updates a Unix-style watchlist path that uses forward slashes (`/`). This path matches the ID `1234`.



Note: The response returns an error if no Unix-style watchlist path matches the input ID.

```
mutation exampleUpdateIMUnixPath($input: IntegrityMonitorWatchlistUnixPathUpdateInput!) {
  integrityMonitorWatchlistUnixPathUpdate(input: $input) {
    watchlistPath {
      id
      exclusions {
        edges {
          node
        }
      }
      inclusions {
        edges {
          node
        }
      }
      path
      watchlistPathType
    }
    error {
      message
      retryable
      timedOut
    }
  }
}
```

Include the input variables in the **Variables** panel or in your variables dictionary:

```
{
  "input": {
    "id": "1234",
    "path": "/a/b*/c",
    "inclusions": [
      ".ssh/\\*\\*"
    ],
    "exclusions": [
      "\\*\\*.log"
    ]
  }
}
```

Example response:

```
{
```

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```
  "data": {
    "integrityMonitorWatchlistUnixPathUpdate": {
      "watchlistPath": {
        "id": "1234",
        "exclusions": {
          "edges": [
            {
              "node": "\\*\\*.log"
            }
          ]
        },
        "inclusions": {
          "edges": [
            {
              "node": ".ssh/\\*\\*"
            }
          ]
        },
        "path": "/a/b*/c",
        "watchlistPathType": "File"
      },
      "error": null
    }
  }
}
```

Update Integrity Monitor watchlist Windows file path

mutation.integrityMonitorWatchlistWindowsFilePathUpdate

About this task

The `integrityMonitorWatchlistWindowsFilePathUpdate` mutation requires Integrity Monitor 3.6 or later and the **Integrity Monitor Watchlists write** permission.

The following mutation updates a Windows-style watchlist file path that uses backslashes (`\`). This path matches the ID `2345`.

> **Note:** The response returns an error if no Windows-style watchlist file path matches the input ID.

```
mutation exampleUpdateIMWinFilePath($input:
IntegrityMonitorWatchlistWindowsFilePathUpdateInput!) {
  integrityMonitorWatchlistWindowsFilePathUpdate(input: $input) {
    watchlistPath {
      id
      exclusions {
        edges {
          node
        }
      }
```

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```
      includeFilePermissionChanges
      inclusions {
        edges {
          node
        }
      }
      path
      watchlistPathType
    }
    error {
      message
      retryable
      timedOut
    }
  }
}
```

Include the input variables in the **Variables** panel or in your variables dictionary:

```
{
  "input": {
    "id": "2345",
    "path": "C:\\Program Files",
    "inclusions": [
      "**.pem",
      "**.log"
    ],
    "exclusions": [
      "**.db"
    ],
    "includeFilePermissionChanges": true
  }
}
```

Example response:

```
{
  "data": {
    "integrityMonitorWatchlistWindowsFilePathUpdate": {
      "watchlistPath": {
        "id": "2345",
        "exclusions": {
          "edges": [
            {
              "node": "**.db"
            }
          ]
        },
        "includeFilePermissionChanges": true,
        "inclusions": {
          "edges": [
            {
              "node": "**.log"
            },
            {
              "node": "**.pem"
            }
          ]
        },
        "path": "C:\\Program Files",
        "watchlistPathType": "File"
```

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```
      },
      "error": null
    }
  }
}
```

Update Integrity Monitor watchlist Windows registry path

mutation.integrityMonitorWatchlistWindowsRegistryPathUpdate

About this task

The `integrityMonitorWatchlistWindowsRegistryPathUpdate` mutation requires Integrity Monitor 3.6 or later and the **Integrity Monitor Watchlists write** permission.

The following mutation updates a Windows-style watchlist registry path that uses backslashes (`\`). This path matches the ID `12345`.

> **Note:** The response returns an error if no Windows-style watchlist registry path matches the input ID.

```
mutation exampleUpdateIMWinRegPath($input:
IntegrityMonitorWatchlistWindowsRegistryPathUpdateInput!) {
  integrityMonitorWatchlistWindowsRegistryPathUpdate(input: $input) {
    watchlistPath {
      id
      exclusions {
        edges {
          node
        }
      }
      inclusions {
        edges {
          node
        }
      }
      path
      watchlistPathType
    }
    error {
      message
      retryable
      timedOut
    }
  }
}
```

Include the input variables in the **Variables** panel or in your variables dictionary:

```
{
```

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```
  "input": {
    "id": "12345",
    "path": "HKEY_LOCAL_MACHINE\\a\\b*\\c",
    "inclusions": [
      "Classes\\*\\ShellEx\\*\\*",
      ".NETFramework\\*\\NGenService\\**"
    ],
    "exclusions": [
      "Cryptography\\CertificateTemplateCache\\*"
    ]
  }
}
```

Example response:

```
{
  "data": {
    "integrityMonitorWatchlistWindowsRegistryPathUpdate": {
      "watchlistPath": {
        "id": "12345",
        "exclusions": {
          "edges": [
            {
              "node": "Cryptography\\CertificateTemplateCache\\*"
            }
          ]
        },
        "inclusions": {
          "edges": [
            {
              "node": "Classes\\*\\ShellEx\\*\\*"
            },
            {
              "node": ".NETFramework\\*\\NGenService\\**"
            }
          ]
        },
        "path": "HKEY_LOCAL_MACHINE\\a\\b*\\c",
        "watchlistPathType": "Registry"
      },
      "error": null
    }
  }
}
```

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Reference: Watchlist paths, inclusions, and exclusions

Add paths to a watchlist to determine the files, directories, and Windows registry paths that a monitor watches for changes. You can refine the paths in a watchlist by adding path inclusions and path exclusions. If you define path inclusions, the path matches *only* subdirectories, files, or registry subkeys that match the inclusions. If you define path exclusions, the path does *not* match subdirectories, files, or registry subkeys that match the exclusions. Exclusions take precedence over inclusions. If you define both inclusions and exclusions, the path matches all directories, files, or registry keys that match the inclusions, *except* those that match exclusions.

Best Practice:

Rely primarily on inclusions to refine paths, and try to limit the number of exclusions for cleaner watchlists and more predictable monitoring.

For more information, see Managing watched paths with watchlists on page 60.

Paths

A path is an absolute file or Windows registry path that provides the basis for determining directories, files, or registry keys that a watchlist defines.

Without inclusions or exclusions defined, the path matches all files and subdirectories in a file path or all subkeys in a registry path. By default, a file path that specifies a directory includes subdirectories recursively, and a registry path that specifies a registry key includes subkeys recursively.

You can use a question mark (`?`) wildcard character to match any single character or an asterisk (`*`) wildcard character to match any number of any characters. In a path, you can use wildcard characters within a directory, file, or registry key name, but you cannot use wildcard characters to match path separators or specify multiple directory or subkey levels.

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File paths

A file path specifies a directory or file. If you specify a root directory, you must include the slash. For example: `D:\`.

Example file paths

Example path and explanation	Examples of watched directories and files

Path (Windows):
`C:\Program Files`
A path that specifies a directory without using wildcards matches that directory itself, as well as all files in that directory, and all subdirectories and files recursively.
	Examples of watched directories and files (without inclusions or exclusions defined):
	`C:\Program Files\`
	`C:\Program Files\My Program\`
	`C:\Program Files\My Program\myprogram.exe`
	`C:\Program Files\Another Program\`
	Examples of directories that are not watched (when only this path is specified):
	`C:\Program Files (x86)\`
	`D:\Program Files\`
	`D:\Program Files (x86)\`

Path (Unix):
`/a/b*/c`
The `*` wildcard character represents zero or more characters within the directory name, but it does not match path separators.
	Examples of watched directories and files (without inclusions or exclusions defined):
	`/a/b/c/`
	`/a/b/c/myfile.txt`
	`/a/bin/c/`
	`/a/bin/c/myfile.txt`
	`/a/b/c/d/myfile.txt`
	Examples of directories and files that are not watched (when only this path is specified):
	`/a/b/`
	`/a/b/c.txt`
	`/a/b/d/c/`

Registry paths

A registry path specifies a Windows registry key.

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Note:

To specifically record registry rename operations on an endpoint, or to specifically record modifications to individual registry values on an endpoint, you must enable the **Collect process and user attribution information** setting in the monitor that you deploy to that endpoint. For more information, see Create or edit a monitor on page 53.

If you disable this setting, the following applies:

Integrity Monitor does not return modifications to registry values as events. Create and delete operations are still recorded for individual registry values, regardless of this setting.

Determining watched subkeys

A path matches all subkeys recursively under a key or keys that are specified by the path. For example, if you specify the path `HKEY_LOCAL_MACHINE\a`, then the path matches all subkeys of the `a` key (such as `HKEY_LOCAL_MACHINE\a\x`, `HKEY_LOCAL_MACHINE\a\x\y`, and `HKEY_LOCAL_MACHINE\a\z`), unless you otherwise exclude them. If the **Collect process and user attribution information** setting is enabled in the monitor that you deploy to that endpoint, all values of matching subkeys are watched.

You cannot monitor an entire subtree, such as `HKEY_LOCAL_MACHINE`, and you cannot specify individual values within a key.

Using an abbreviation for a subtree

You can use the abbreviation for the subtree in a path. Integrity Monitor expands the subtree name when you save your changes. For example, you can enter the path `HKLM\MyKey`, which is saved as `HKEY_LOCAL_MACHINE\MyKey`.

Subtree abbreviations

Subtree name	Abbreviation
`HKEY_LOCAL_MACHINE`	`HKLM`
`HKEY_USERS`	`HKU`

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Using the HKEY_CURRENT_USER subtree in a path

When you add a path in the `HKEY_CURRENT_USER` subtree, such as `HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Group Policy`, Integrity Monitor changes the `HKEY_CURRENT_USER` subtree in the path to `HKEY_USERS\*` when you save your changes (for example, `HKEY_USERS\*\Software\Microsoft\Windows\CurrentVersion\Group Policy`). Because the Tanium Client uses the SYSTEM account, the `HKEY_CURRENT_USER` subtree applies to the SYSTEM account rather than the user account that is currently signed in to Windows. Using `HKEY_USERS\*` instead lets Integrity Monitor record events for all users, including the user account that is currently signed in to Windows.

Using a redirected registry key in a path

For 64-bit Windows, the registry redirector maps some keys, such as `HKEY_LOCAL_MACHINE\SOFTWARE\`, to a `WOW6432Node` subkey (for example, `HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node`) for use by 32-bit applications. When you add key paths that are redirected under WOW64, the watchlist does not automatically include the parallel key paths under the `WOW6432Node` keys. If you want to monitor keys under these paths, you must enter them separately.

Example registry path

Example path and explanation	Examples of watched subkeys

Path (registry):
`HKEY_LOCAL_MACHINE\a\b*\c`
The `*` wildcard character represents zero or more characters within a key name, but it does not match path separators.
	Examples of watched subkeys (without inclusions or exclusions defined):
	`HKEY_LOCAL_MACHINE\a\b\c\`
	`HKEY_LOCAL_MACHINE\a\BCD00000000\c\`
	`HKEY_LOCAL_MACHINE\a\b\c\d\`
	`HKEY_LOCAL_MACHINE\a\BCD00000000\c\d\`
	Examples of subkeys that are not watched (when only this path is specified):
	`HKEY_LOCAL_MACHINE\a\`
	`HKEY_LOCAL_MACHINE\a\b\d\c`

Path inclusions

If you define path inclusions, the path matches *only* subdirectories, files, or registry subkeys that match the inclusions. When you specify an inclusion with no wildcards, it limits the path to a specific

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subdirectory, file, or registry subkey that matches the path together with the inclusion. In an inclusion, you can use an asterisk wildcard character (`*`) to match a string of characters within a directory, file, or registry key name, or you can use two asterisks together (`**`) to include path separators (and therefore multiple directory or subkey levels) in the match.

File path inclusions

File path inclusions refine a file path to match a subset of the subdirectories and files that match the file path itself.

Example file path inclusions

Example path, inclusion, and explanation	Examples of watched directories and files

Path (Unix):
`/mypath`
Inclusion:
`test`
Because this example does not use wildcard characters in the inclusion, the path matches only the single subdirectory, non-recursively.
	Watched directory (without exclusions defined):
	`/mypath/test/`
	Examples of directories and files that are not watched (when only this path and inclusion are specified):
	`/mypath/test.txt`
	`/mypath/test1/`
	`/mypath/test/myfile.txt`
	`/mypath/mydir/test/`
	`/myotherpath/test/`

Path (Unix):
`/mypath`
Inclusion:
`test*`
Because this example uses a single `*` wildcard character at the end of the inclusion, the path matches any combination of valid path characters at the end of `/mypath/test`, but not directory separators.
	Examples of watched directories and files (without exclusions defined):
	`/mypath/test/`
	`/mypath/test.txt`
	`/mypath/test1/`
	Examples of directories and files that are not watched (when only this path and inclusion are specified):
	`/mypath/test/mydir/myfile.txt`
	`/mypath/test/myfile.txt`
	`/mypath/mydir1/test/`
	`/mypath/myfile.txt`
	`/mypath/Xtest/`

Path (Unix):
`/mypath`
Inclusion:
	Examples of watched directories and files (without exclusions defined):
	`/mypath/test/`
	`/mypath/test.txt`
	`/mypath/test1/`

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Example path, inclusion, and explanation	Examples of watched directories and files

`test**`
Because this example uses two `*` wildcard characters at the end of the inclusion, the path matches any combination of directory separators and valid path characters at the end of `/mypath/test`.
	`/mypath/test/myfile.txt`
	`/mypath/test/mydir/myfile.txt`
	Examples of directories and files that are not watched (when only this path and inclusion are specified):
	`/mypath/mydir1/test/`
	`/mypath/myfile.txt`
	`/mypath/Xtest/`

Path (Unix):
`/mypath`
Inclusion:
`*test`
Because this example uses a single `*` wildcard character at the beginning of the inclusion, the path matches any combination of valid path characters after `/mypath` that end with `test`, but not directory separators.
	Examples of watched directories and files (without exclusions defined):
	`/mypath/test/`
	`/mypath/Xtest/`
	`/mypath/myfile.test`
	Examples of directories and files that are not watched (when only this path and inclusion are specified):
	`/mypath/mydir1/mydir2/test/`
	`/mypath/mydir1/mydir2/Xtest/`
	`/mypath/myfile.txt`
	`/mypaty/test1/`
	`/mypath/test/mydir1/`
	`/mypath/test/myfile.txt`
	`/mypath/test.txt/`

Path (Unix):
`/mypath`
Inclusion:
`**test`
Because this example uses two `*` wildcard characters at the beginning of the inclusion, the path matches any combination of directory separators and valid path characters after `/mypath` that end with `test`.
	Examples of watched directories and files (without exclusions defined):
	`/mypath/test/`
	`/mypath/mydir1/mydir2/test/`
	`/mypath/Xtest/`
	`/mypath/mydir1/mydir2/Xtest/`
	`/mypath/myfile.test`
	Examples of directories and files that are not watched (when only this path and inclusion are specified):
	`/mypath/myfile.txt`
	`/mypaty/test1/`
	`/mypath/test/mydir1/`
	`/mypath/test/myfile.txt`
	`/mypath/test.txt/`

Path (Unix):
`/mypath`
Inclusion:
	Examples of watched directories (without exclusions defined):
	`/mypath/test1/`
	`/mypath/testX/`

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Example path, inclusion, and explanation	Examples of watched directories and files

`test?`
Because this example uses a `?` wildcard character at the end of the inclusion, the path matches any directories and files after `/mypath` that match `test` plus one additional character.
	Note: Though a trailing path separator (`/`) is shown here to denote a directory, it is not included as part of the match for the `?` wildcard character in the inclusion.
	Examples of directories and files that are not watched (when only this path and inclusion are specified):
	`/mypath/test/`
	`/mypath/Xtest/`
	`/mypath/test.txt`

Path (Unix):
`/mypath`
Inclusion:
`**/**.log`
This example uses an inclusion with a path separator to specify that a matching file or directory must be in a directory that is at least one directory level below the path. The file or directory must end with `.log` but can otherwise include any combination of characters.
	Examples of watched directories (without exclusions defined):
	`/mypath/mydir1/mylog.log`
	`/mypath/mydir2/anotherlog.log`
	`/mypath/mydir1/mysubdir/mylog.log`
	Examples of directories and files that are not watched (when only this path and inclusion are specified):
	`/mypath/mylog.log`
	`/mypath/mydir/mylog.txt`

Registry path inclusions

Registry path inclusions refine a registry path to match a subset of the subkeys that match the registry path itself. Inclusions do not restrict value names; all values of matching keys are still watched.

Example registry path inclusions

Example path, inclusions, and explanation	Examples of watched subkeys

Path (registry):
`HKEY_LOCAL_MACHINE\MyKey`
Inclusion:
`test`
Because this example does not use wildcard characters in the inclusion, the path matches
	Watched subkey (without exclusions defined):
	`HKEY_LOCAL_MACHINE\MyKey\test\`
	Examples of subkeys that are not watched (when only this path and

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Example path, inclusions, and explanation	Examples of watched subkeys

only the single subkey, non-recursively.	inclusion are specified):
	`HKEY_LOCAL_MACHINE\MyKey\AnotherKey\test\`
	`HKEY_LOCAL_MACHINE\MyKey\test\AnotherKey\`

Path (registry):
`HKEY_LOCAL_MACHINE\MyKey`
Inclusion:
`test*`
Because this example uses a single `*` wildcard character at the end of the subkey inclusion, the path matches any combination of valid path characters at the end of `HKEY_LOCAL_MACHINE\MyKey`, but not path separators.
	Examples of watched subkeys (without exclusions defined):
	`HKEY_LOCAL_MACHINE\MyKey\test\`
	`HKEY_LOCAL_MACHINE\MyKey\test1\`
	Examples of subkeys that are not watched (when only this path and inclusion are specified):
	`HKEY_LOCAL_MACHINE\MyKey\test\AnotherKey\`
	`HKEY_LOCAL_MACHINE\MyKey\AnotherKey\test\`
	`HKEY_LOCAL_MACHINE\MyKey\xtest\test\`

Path (registry):
`HKEY_LOCAL_MACHINE\MyKey`
Inclusion:
`test**`
Because this example uses two `*` wildcard characters at the end of the subkey inclusion, the path matches any combination of path separators and valid path characters at the end of `HKEY_LOCAL_MACHINE\MyKey`.
	Examples of watched subkeys (without exclusions defined):
	`HKEY_LOCAL_MACHINE\MyKey\test\`
	`HKEY_LOCAL_MACHINE\MyKey\test\AnotherKey\`
	`HKEY_LOCAL_MACHINE\MyKey\test1\`
	Examples of subkeys that are not watched (when only this path and inclusion are specified):
	`HKEY_LOCAL_MACHINE\MyKey\AnotherKey\test\`
	`HKEY_LOCAL_MACHINE\MyKey\xtest\test\`

Path (registry):
`HKEY_LOCAL_MACHINE\MyKey`
Inclusion:
`*test`
Because this example uses a `*` wildcard character at the beginning of the inclusion, the
	Examples of watched subkeys (without exclusions defined):
	`HKEY_LOCAL_MACHINE\MyKey\test\`
	`HKEY_LOCAL_MACHINE\MyKey\xtest\`
	Examples of subkeys that are not

Example path, inclusions, and explanation	Examples of watched subkeys

path matches any combination of valid path characters after `/mypath` that end with `test` , but not path separators.	watched (when only this path and inclusion are specified):
	`HKEY_LOCAL_MACHINE\MyKey\test\AnotherKey\`
	`HKEY_LOCAL_MACHINE\MyKey\AnotherKey\test\`
	`HKEY_LOCAL_MACHINE\MyKey\test1\`

Path (registry):
`HKEY_LOCAL_MACHINE\MyKey`
Inclusion:
`**test`
Because this example uses two `*` wildcard characters at the beginning of the inclusion, the path matches any combination of path separators and valid path characters after `/mypath` that end with `test` .
	Examples of watched subkeys (without exclusions defined):
	`HKEY_LOCAL_MACHINE\MyKey\test\`
	`HKEY_LOCAL_MACHINE\MyKey\test\AnotherKey\`
	Examples of subkeys that are not watched (when only this path and inclusion are specified):
	`HKEY_LOCAL_MACHINE\MyKey\AnotherKey\test\`
	`HKEY_LOCAL_MACHINE\MyKey\test1\`

Path exclusions

If you define path exclusions, the path does *not* match subdirectories, files, or registry subkeys that match the exclusions. When you specify an exclusion with no wildcards, it excludes a specific subdirectory, file, or registry subkey that matches the path together with the exclusion. In an exclusion, you can use an asterisk wildcard character (`*`) to match a string of characters within a directory, file, or registry key name, or you can use two asterisks together (`**`) to include path separators (and therefore multiple directory or subkey levels) in the match. Keep in mind that when you exclude a particular directory using a single asterisk (`*`), the subdirectories of that directory are still watched.

File path exclusions

File path exclusions define subdirectories or files within a path that are excluded from matching the path.

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Example file path exclusions

Example path, exclusion, and explanation	Examples of excluded directories and files

Path (Unix):
`/mypath`
Exclusion:
`test`
This example does not use wildcard characters, so it excludes only a single directory.
	Example excluded directory:
	`/mypath/test/`
	Examples of directories that are still watched:
	`/mypath/test.txt`
	`/mypath/test1/`
	`/mypath/test1/myfile.txt`
	`/mypath/mydir/test/`

Path (Windows):
`C:\Windows\System32`
Exclusion:
`*\logs`
Because this exclusion begins with the characters `*\` , it excludes directories with the name `logs` that are exactly two levels below the `System32` directory.
	Example excluded directories:
	`C:\Windows\System32\script\Logs\`
	`C:\Windows\System32\winevt\Logs\`
	`C:\Windows\System32\winevt\Logs\Application.evtx`
	Examples of directories that are still watched:
	`C:\Windows\System32\`
	`C:\Windows\System32\cmd.exe`
	`C:\Windows\System32\GroupPolicy\`
	`C:\Windows\System32\Logs\`

Path (Windows):
`C:\Windows\System32`
Exclusion:
`**\logs`
Because this exclusion begins with the characters `**\` , it excludes directories with the name `logs` that are at least two levels below the `System32` directory.
	Example excluded directories:
	`C:\Windows\System32\script\Logs\`
	`C:\Windows\System32\winevt\Logs\`
	`C:\Windows\System32\winevt\Logs\Application.evtx`
	Examples of directories that are still watched:
	`C:\Windows\System32\`
	`C:\Windows\System32\cmd.exe`
	`C:\Windows\System32\GroupPolicy\`
	`C:\Windows\System32\Logs\`

Path (Unix):
`/mypath`
Exclusion:
	Example excluded directories:
	`/mypath/test/`
	`/mypath/mydir/`
	Watched directories:

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Example path, exclusion, and explanation	Examples of excluded directories and files

`*`
When you specify a single `*` wildcard as the entire exclusion, it excludes subdirectories at the first level but still watches subdirectories at lower levels.
	`/mypath/`
	`/mypath/test/subdirectory/`
	`/mypath/mydir/mydir2/`
	`/mypath/mydir/mydir2/mydir3/`

Path (Unix):
`/mypath`
Exclusion:
`**`
When you specify two `*` wildcard characters as the entire exclusion, it restricts the path to only the exact directory that you specify.
	Example excluded directories:
	`/mypath/test/`
	`/mypath/mydir/`
	Watched directory:
	`/mypath/`

Registry path exclusions

Registry path exclusions define subkeys within a path that are excluded from matching the path. Exclusions do not apply to value names; all values of matching keys that are not excluded are still watched.

Example registry path exclusions

Example path, exclusion, and explanation	Examples of excluded directories and files

Path (registry):
`HKEY_LOCAL_MACHINE\MyKey`
Exclusion:
`test`
This example does not use wildcard characters, so it excludes only a single directory, non-recursively.
	Excluded subkey:
	`HKEY_LOCAL_MACHINE\MyKey\test\`
	Examples of subkeys that are not excluded:
	`HKEY_LOCAL_MACHINE\MyKey\`
	`HKEY_LOCAL_MACHINE\MyKey\test1\`
	`HKEY_LOCAL_MACHINE\MyKey\SomeSubkey\test\`

Path (registry):	Examples of excluded

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Example path, exclusion, and explanation	Examples of excluded directories and files

`HKEY_LOCAL_MACHINE\MyKey`
Exclusion:
`test*`
This example uses a single `*` wildcard character at the end of the exclusion. It excludes any combination of valid path characters at the end of `HKEY_LOCAL_MACHINE\MyKey\test`, but it does not match path separators.
	subkeys:
	`HKEY_LOCAL_MACHINE\MyKey\test\`
	`HKEY_LOCAL_MACHINE\MyKey\test1\`
	Examples of subkeys that are not excluded:
	`HKEY_LOCAL_MACHINE\MyKey\test\AnySubkey\`
	`HKEY_LOCAL_MACHINE\MyKey\test1\AnySubkey\`
	`HKEY_LOCAL_MACHINE\MyKey\SomeSubkey\AnotherLevel\`
	`KEY_LOCAL_MACHINE\MyKey\SomeSubkey\test\`
	`HKEY_LOCAL_MACHINE\MyKey\AnotherSubkey\AnotherLevel\`

Path (registry):
`HKEY_LOCAL_MACHINE\MyKey`
Exclusion:
`test**`
This example uses two `*` wildcard characters at the end of the exclusion. It excludes any combination of path separators and valid path characters at the end of `HKEY_LOCAL_MACHINE\MyKey\test`.
	Examples of excluded subkeys:
	`HKEY_LOCAL_MACHINE\MyKey\test\`
	`HKEY_LOCAL_MACHINE\MyKey\test\AnySubkey\`
	`HKEY_LOCAL_MACHINE\MyKey\test1\`
	`HKEY_LOCAL_MACHINE\MyKey\test1\AnySubkey\`
	Examples of subkeys that are not excluded:
	`HKEY_LOCAL_MACHINE\MyKey\SomeSubkey\AnotherLevel\`
	`KEY_LOCAL_MACHINE\MyKey\SomeSubkey\test\`
	`HKEY_LOCAL_MACHINE\MyKey\AnotherSubkey\AnotherLevel\`

Path (registry):	Examples of excluded

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Example path, exclusion, and explanation	Examples of excluded directories and files

`HKEY_LOCAL_MACHINE\MyKey`
Exclusion:
`**\**`
This example demonstrates the pattern you can use to limit the number of levels watched. This example limits the path to matching one subkey level. You can use another `\**` character combination in the exclusion for each level you want to exclude. For example, to monitor two levels of subkeys under the specified path, add the exclusion `**\**\**` instead.
	subkeys:
	`HKEY_LOCAL_MACHINE\MyKey\SomeSubkey\AnotherLevel\`
	`HKEY_LOCAL_MACHINE\MyKey\AnotherSubkey\AnotherLevel\`
	Examples of subkeys that are not excluded:
	`HKEY_LOCAL_MACHINE\MyKey\`
	`HKEY_LOCAL_MACHINE\MyKey\SomeSubkey\`
	`HKEY_LOCAL_MACHINE\MyKey\AnotherSubkey\`

Path inclusions and exclusions used together

Exclusions take precedence over inclusions. If you define both inclusions and exclusions, the path matches all directories, files, or registry keys that match the inclusions, *except* those that match exclusions.

Example file paths with inclusions and exclusions

Example path, inclusion, exclusion, and explanation	Examples of watched directories and files

Path (Unix):
`/mypath`
Inclusion:
`mydir/**`
Exclusion:
`**.log`
The inclusion specifies files and directories within the `/mypath/mydir` subdirectory, and the exclusion keeps any files with the `log` extension within this directory structure from being watched.
	Example watched directories and files:
	`/mypath/mydir/myfile.txt`
	`/mypath/mydir/mysubdir/`
	`/mypath/mydir/mysubdir/myscript.sh`
	Examples of directories and files that are not watched:
	`/mypath/`

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Example path, inclusion, exclusion, and explanation	Examples of watched directories and files

	`someotherdir/`
	`/mypath/`
	`someotherdir/`
	`anyfile.txt`
	`/mypath/mydir/`
	`myprogram.log`
	`/mypath/mydir/`
	`mysubdir/`
	`anotherprogram.log`

Path (Windows):
`C:\Windows`
Inclusion:
`System32\**`
Exclusion:
`System32\**\**`
The inclusion with a trailing wildcard character is paired with a matching exclusion ending in `**\**` to end the recursion at a specified depth. If you want to monitor files in subdirectories with depth `n`, add `n+1` pairs of asterisks (`**`) separated by path separators (`\` or `/`, depending on the target Tanium Client managed endpoint operating system).
	Example watched files:
	`C:\Windows\System32\ARP.exe`
	`C:\Windows\System32\cmd.exe`
	`C:\Windows\System32\wwapi.dll`
	Examples of files that are not watched:
	`C:\Windows\System32\drivers\acpi.sys`
	`C:\Windows\System32\winevt\Logs\Application.evtx`
	`C:\Windows\System32\WinMetadata\Windows.Data.winmd`

Example registry path with inclusions and exclusions

Example path, inclusion, exclusion, and explanation	Examples of watched subkeys

Path (registry):
`HKEY_LOCAL_MACHINE\MyKey`
Inclusion:
`Test**`
Exclusion:
`TestTwo**`
The inclusion specifies any subkey that begins with `Test` within the `MyKey` key, but the exclusion keeps any subkey that begins with `TestTwo` from being watched.
	Example watched subkeys:
	`HKEY_LOCAL_MACHINE\MyKey\Test\`
	`HKEY_LOCAL_MACHINE\MyKey\Test\AnySubkey\`
	`HKEY_LOCAL_MACHINE\MyKey\TestOne\`
	`HKEY_LOCAL_MACHINE\MyKey\TestOne\AnySubkey\`
	Examples of subkeys that are not watched:
	`HKEY_LOCAL_MACHINE\`

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Example path, inclusion, exclusion, and explanation	Examples of watched subkeys

	`MyKey\TestTwo\`
	`HKEY_LOCAL_MACHINE\`
	`MyKey\TestTwo\`
	`AnySubkey\`
	`HKEY_LOCAL_MACHINE\`
	`MyKey\TestTwoThree\`

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Reference: Deprecated sensor replacements

Integrity Monitor 3.0 introduced a new database for storing recorded events. This change deprecated legacy sensors from earlier versions. If you are performing a new installation, Integrity Monitor 3.0 or later does not install deprecated sensors. If you are upgrading from a version earlier than 3.0, deprecated sensors remain available and continue to return events from before the upgrade, until those events are pruned from the database. Only legacy sensors return these legacy events, and only new sensors return new events that occur after you first deploy monitors following the upgrade.

Update sensors and connections

To collect new event data, replace each deprecated sensor in your saved questions with its replacement sensor, including saved questions used with Connect. Until you replace a deprecated sensor, that saved question does not return new events.

New sensors use different parameters and return data with groupings and columns that differ from those of legacy sensors. In addition to replacing sensors, you must review and update any saved question, connection, or logic at a connection destination that depends on the groupings and columns in the deprecated sensor. For more information about new event sensors, see Use sensors to view events or event counts on page 77. For more information about updating connections, see the Tanium Connect User Guide.



Important: After the **Monitor Pruning Age** has passed for all monitors and all legacy events have been pruned, delete the deprecated sensors to avoid confusion.

The following table maps each legacy sensor to its replacement sensor.

Tanium Integrity Monitor replacement sensors

Deprecated sensor	Replacement sensor
`Integrity Monitor - Coverage Status`	`Client Extensions - Status`
`Integrity Monitor Endpoint Config Monitor`	`Client Extensions - Status`

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Deprecated sensor	Replacement sensor
`Status`	
`Integrity Monitor Endpoint Config Priority`	`Client Extensions - Status`
`Integrity Monitor Endpoint ID`	`Client Extensions - Endpoint ID`
`Integrity Monitor Endpoint Process Restart Needed`	`Client Extensions - Status`
`Integrity Monitor Endpoint Tools Status`	`Client Extensions - Status`
`Integrity Monitor File Events Details`	`Integrity Monitor - Monitor Events`
`Integrity Monitor File Events Overview`	`Integrity Monitor - Monitor Events`
`Integrity Monitor Filtered Events Count`	`Integrity Monitor - Event Count`
`Integrity Monitor Filtered File Events Details`	`Integrity Monitor - Monitor Events`
`Integrity Monitor Filtered File Events Overview`	`Integrity Monitor - Monitor Events`
`Integrity Monitor Labeled File Events Details`	`Integrity Monitor - Monitor Events`
`Integrity Monitor Unlabeled File Events Details`	`Integrity Monitor - Monitor Events Unlabeled`
`Integrity Monitor Unlabeled File Events Overview`	`Integrity Monitor - Monitor Events Unlabeled`

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