



Qualys File Integrity Monitoring v2.x

Release Notes

Version 2.5

December 3, 2020

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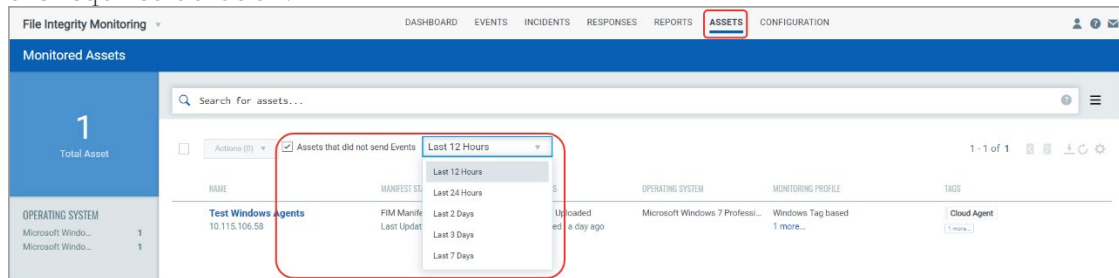
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Agent Health Tracking

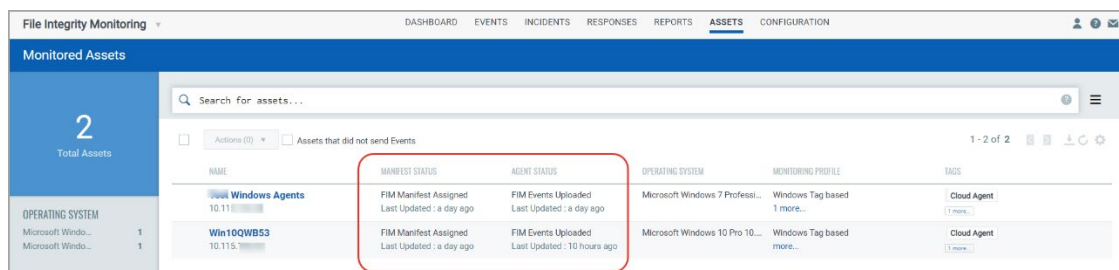
With this release, we give you the option to filter assets based on the current agent status. After an asset is provisioned in FIM, you can use the UI filters or QQL queries to know if an asset is performing as expected.

We have revamped the Assets tab to include additional filters:

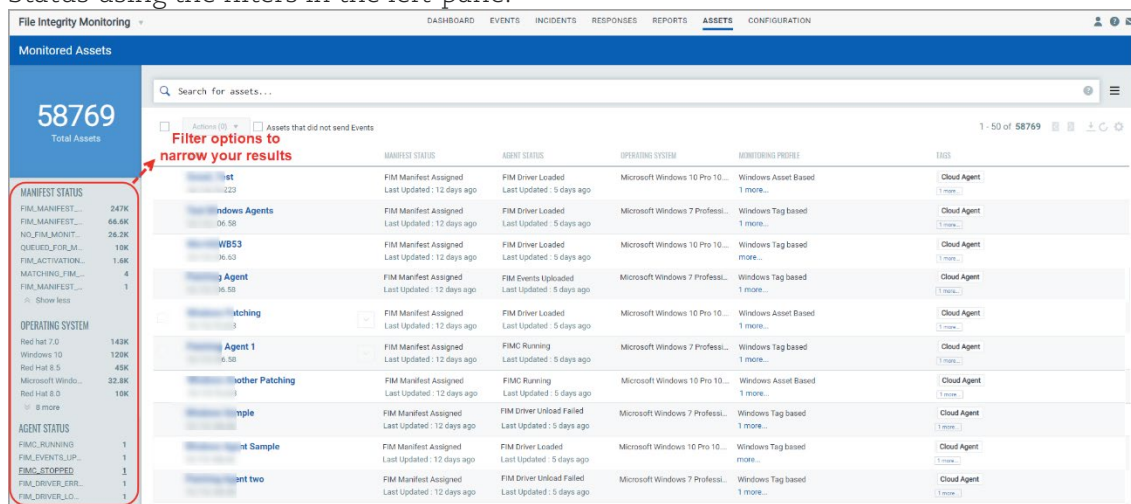
1. You can now filter assets that have not sent events. On the **Assets** tab, select the **Assets that did not send Events** option and from the adjacent drop-down list, select the required duration.



2. We have added two new columns Manifest Status and Agent Status. These columns also list the time of the status update.



3. You can find assets based on the Operating System, Manifest Status, and Agent Status using the filters in the left-pane.



Along with the UI filters, you can also filter the assets using the QQL queries. Here are a few use-cases and the corresponding QQL queries that you can use to know the asset status.

1. Asset Activation

To list the asset that are provisioned during a time range:

```
activationDate: ['2020-11-08' .. '2020-11-10']
```

2. Manifest Generation

After the assets are activated, here are few possible scenarios for manifest generation:

- a. To list the assets that have received the FIM activation request and waiting for manifest generation process:

```
manifest.status : `FIM_ACTIVATION_REQUEST_RECEIVED`
```

- b. To list the assets that do not have FIM monitoring profile assigned and hence will not get any manifest:

```
manifest.status : `NO_FIM_MONITORING_PROFILE_FOUND`
```

- c. To list the assets for which the manifest generation request is either queued or in progress:

```
manifest.status : `QUEUED_FOR_MANIFEST_GENERATION`
```

- d. To list the assets for which manifest has been published successfully to Cloud Agent:

```
manifest.status : `FIM_MANIFEST_PUBLISHED`
```

- e. To list that assets for which manifest has been assigned and acknowledged successfully by Cloud Agent:

```
manifest.status : `FIM_MANIFEST_ASSIGNED`
```

- f. To list assets for which manifest has been decommissioned:

```
manifest.status : `FIM_MANIFEST_DECOMMISSIONED`
```

3. Agent Error

To list the assets which has some error on the Agent.

```
agentService.status : ['FIM_DRIVER_LOADED_FAILURE',  
'FIM_EVENTS_UPLOADED_FAILURE', 'FIMC_STOPPED',  
'FIM_DRIVER_UNLOADED_FAILURE']
```

For a complete list of tokens on the Assets tab, see [Tokens on Assets Tab](#).

New Token on Events Tab

With this release, we have added the following new token on Events tab.

- `profile.rule.name`: This token will help you find the events based on the rule name.

New Fill Path Format

With an upgrade to Cloud Agent version 4.1, the File Path will be displayed in the following format:

```
c:\directory\sub-directory\file.ext
```

We recommend you upgrade all the agents in your environment to 4.1 and above and then edit the existing QQL queries to include the new file path.

If you cannot upgrade all the agents to 4.1 and above, you must edit the existing QQL queries and add the new file path format along with the old one.

Also, events that are registered before the agent is upgraded to 4.1, will continue to display the file path in the old format.

Alerting Permissions

With this release, we introduce new set of Alerting permissions for FIM User and FIM Manager. Depending on the roles and permissions assigned, the user can perform actions like creating, editing, or deleting rules and actions.

Using the Administration module, the Manager user for the subscription can assign these roles and permissions for all the other users.

Note: FIM users created before version 2.5 will continue to have the same permissions.

Manager- A user with the Manager role is considered a super-user and has all the available permissions. They have full privileges and access to all modules in the subscription. Only users with Manager role can create other users and assign roles.

Note: The Manager user can customize permissions for the FIM User and FIM Manager.

- **FIM User:** By default, the FIM User role has permission to FIM UI and Alert Access. So, the user with FIM User role can see the rules and actions but cannot create, edit, or delete them.

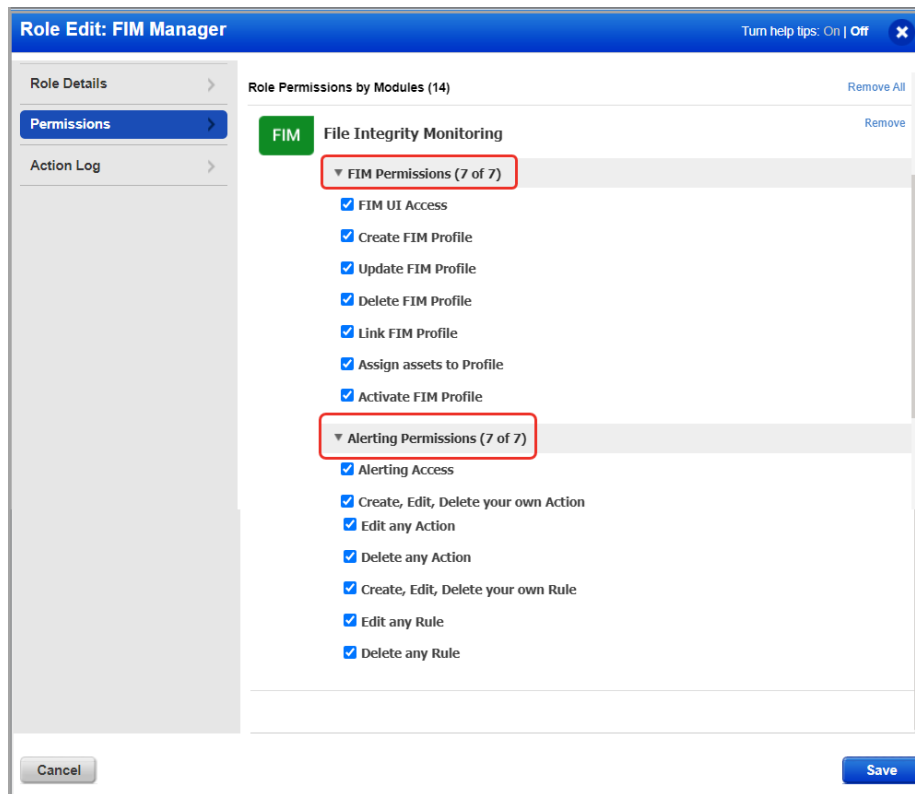
The default permissions for FIM User role:

The screenshot shows the 'Role Edit: FIM User' window. On the left is a sidebar with 'Role Details', 'Permissions' (selected), and 'Action Log'. The main area is titled 'Role Permissions by Modules (2)' and contains two sections: 'FIM File Integrity Monitoring' and 'Alerting Permissions (1 of 7)'. In the 'FIM' section, 'FIM UI Access' is checked. In the 'Alerting' section, 'Alerting Access' is checked. Both checked items are highlighted with red boxes. At the bottom are 'Cancel' and 'Save' buttons.

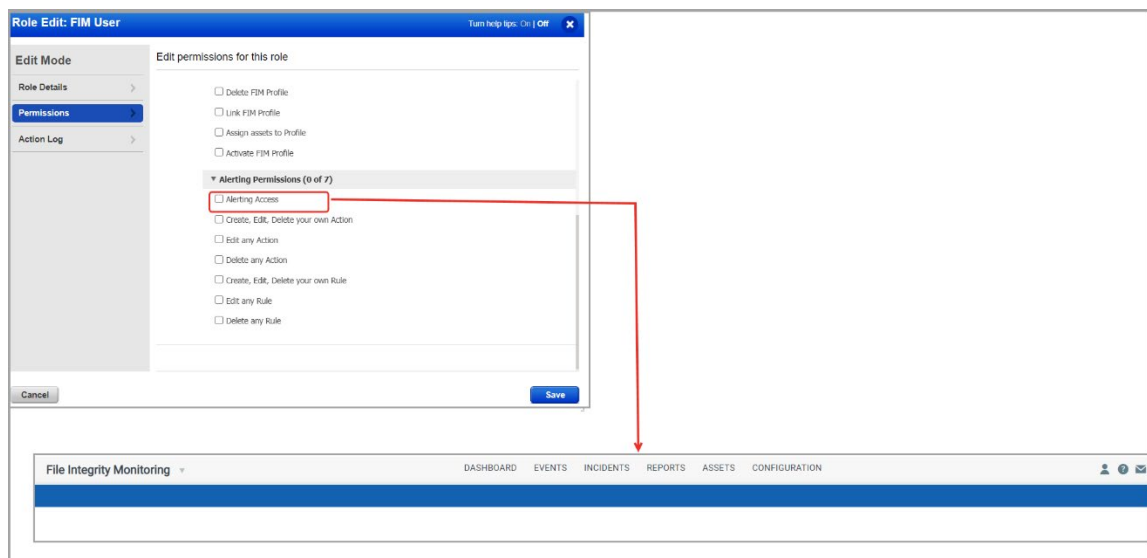
Module	Permission	Status
FIM File Integrity Monitoring	FIM UI Access	Checked
	Create FIM Profile	Unchecked
	Update FIM Profile	Unchecked
	Delete FIM Profile	Unchecked
	Link FIM Profile	Unchecked
	Assign assets to Profile	Unchecked
	Activate FIM Profile	Unchecked
Alerting Permissions (1 of 7)	Alerting Access	Checked
	Create, Edit, Delete your own Action	Unchecked
	Edit any Action	Unchecked
	Delete any Action	Unchecked
	Create, Edit, Delete your own Rule	Unchecked
	Edit any Rule	Unchecked
	Delete any Rule	Unchecked

- **FIM Manager:** By default, this role has FIM Permissions and Alerting Permissions.

The default permissions for FIM Manager role:



Note: If the user is assigned a role with no Alerting Access permission, the user will not see the Responses tab on the FIM UI.



Create Incidents

With this release, we give you the option to create manual incident from the Incidents tab.

To create an incident, click **Incidents** > **All Incidents** > **Create Incident**. On the **Create Incident** page, enter the required details and click **Create**.

Note: You can create an incident only if there are events matching to your QQL query.

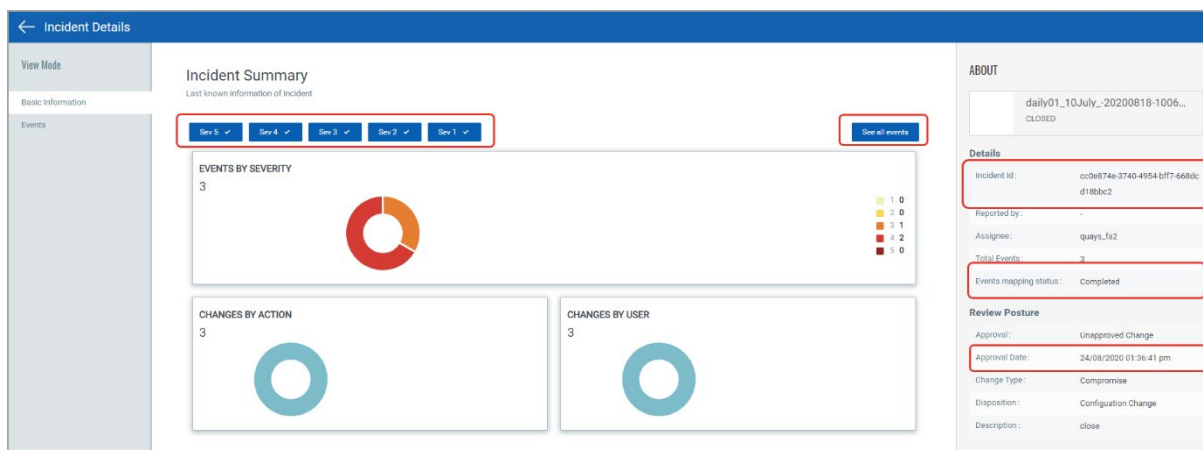
The screenshot displays the 'File Integrity Monitoring' interface. The top navigation bar includes 'DASHBOARD', 'EVENTS', 'INCIDENTS' (highlighted with a red box), 'RESPONSES', 'REPORTS', 'ASSETS', and 'CONFIGURATION'. The 'Incidents' section shows a summary with '37 Total Incidents', 'Assigned to me 37', and 'Pending 19'. A 'Create Incident' button is highlighted with a red box. A red dashed arrow points from this button to the 'Create Incident' modal form on the right. The modal form contains the following fields and options:

- Incident Name ***: Text input field with the value 'Deletion of Log Files'.
- Assignee Name**: Text input field with the value 'fm_ac2'.
- Query ***: Text input field with the value '((file.name:finc.log or file.name:qualys-cloud-agent.log) and act'.
- Saved Searches | Queries**: Section with date and time pickers for 'Start Date' (10/04/2020), 'Start Time' (5:24pm), 'End Date' (11/03/2020), and 'End Time' (5:24pm).
- Buttons**: 'Cancel', 'Preview', and 'Create' buttons at the bottom.

Revamped Incident Details Page

For better customer experience, we have made the following enhancements to the Incident Details page:

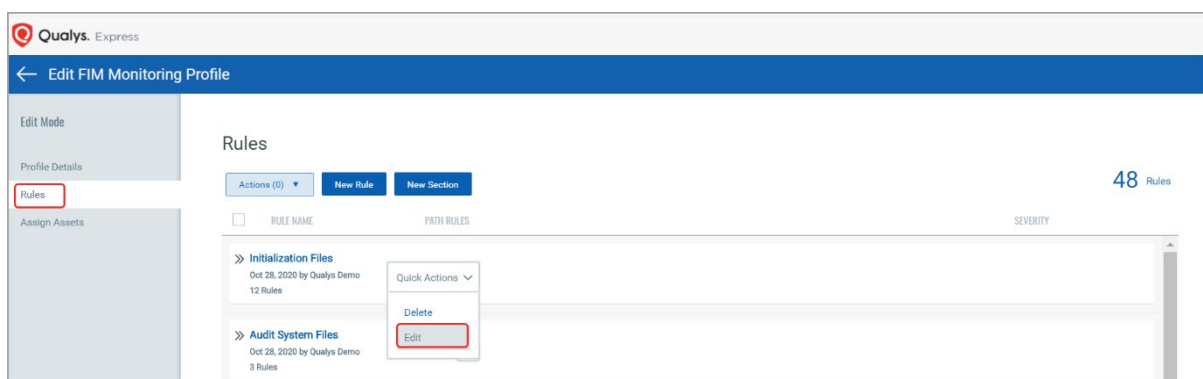
- Added the following new fields:
 - Incident Id: This field displays the Incident UUID.
 - Event mapping status: This field displays the status of automatic incident creation of the event.
 - Approval Date: Displays the date and time when an automatic incident was approved.
- All the severity options (Sev 5 - Sev 1) will now be selected by default.
- Renamed the “View All” field to “See all events”.



Edit a Section

We now give you the option to edit a section that is created for a profile. Using the edit option, you can edit the references (up to 10 references) and section details.

To edit a section, go to **Configuration > Profiles**. Select the required profile and click **Quick Actions > Edit > Rules**. Select the required section and click **Quick Action > Edit**.



Add and Edit Section References

With this release, we give you an option to add and edit up to 10 References under each section. References are added to map the section with the relevant compliance standards that it adheres.

[←](#) Create New: Rule Section

Section Details

Section Name *

Category *

PSC

Manage

Description

Contains all the configuration files in your environment to be monitored.

2427/2500 characters remaining

References

Reference: 1

Remove Reference

Information System Monitoring

Reference Link (1 link)

https://nvd.nist.gov/800-53/Rev-4/control/SI-4

Remove

Add Another Link

+ Add another Reference

Close

Save

Section Details on Event Details Page

For better customer experience, we have made the following enhancements to the Event Details page:

- To adhere to the compliance standards, we now display the section details on the Event Details page. This information will help you know:
 - The Rule and Profile for which the event is generated.
 - The Section and Section Details mapped to the rule.

The screenshot displays the 'View Details: WINDLPSTATE.DLL' page. The main content area shows an 'Event Alert: File Create' for the file 'windlp.state.dll'. The file was created 18 hours ago on Oct 28, 2020, at 4:21:17 AM. It is categorized as 'PCI' and was created by user '1511-TEST-197-7\Administrator'. The file path is 'C:\Windows\SoftwareDistribution\Download\239bedc9be5cfa090fe64cc1b5196154\windlp.state.dll' and the process is 'C:\Device\HarddiskVolume2\Users\Public\Documents\profiles'. A green box highlights the file name 'windlp.state.dll' with the status 'was Created'. Below this, the 'Triggers' section shows 'Monitoring Profile: Profile 568576' and 'Section and Rules: Common section: Another rule for testing'. A red circle highlights the 'Common section' link. A tooltip for 'Common section' is visible, showing the date 'Apr 27, 2020 by H...' and a description 'Now bringing the unified power of the Qualys Cloud Platform to Endpoint'. The right sidebar contains 'ABOUT ASSET' for 'WIN10-122' (Microsoft Windows 10 Pro 10.0.10586) and 'Identification' details including DNS Hostname, NetBIOS Name, IPv4 Address, IPv6 Address, Agent ID, and Host ID. The 'Activity' section shows 'Last User Login: \Administrator'.

Profile Type Displayed on Profiles Tab

To help you identify the operating system of the profile upfront, we now display the operating system under each profile name.

PROFILE NAME	STATUS	LAST UPDATED	CATEGORY	ASSETS	TAGS
Windows Tag based Windows Profile	Active	19 days ago Created: Jul 21, 2020	Tag Based Assignment	0	1
Linux New profile Linux Profile	Active	20 days ago Created: Sep 18, 2020	LINUX_System	0	1

Tokens on Assets Tab

With this release, you will see the following sub-set of tokens on the Assets tab. These tokens will help you filter assets based on different criteria:

- activated: This token will help you find assets based on the activation status.
- activationDate: This token will help you find assets based on the activation date.
- agentService.httpStatus: This token will help you find Linux assets based on the http status.
- agentService.osStatus: This token will help you find Linux assets based on the operating system (OS) status.
- agentService.status: This token will help you find assets based on the agent service status. (Accepted values: FIM_DRIVER_LOADED, FIM_DRIVER_LOADED_FAILURE, FIM_DRIVER_UNLOADED, FIM_DRIVER_UNLOADED_FAILURE, FIM_EVENTS_UPLOADED, FIM_EVENTS_UPLOADED_FAILURE, FIMC_RUNNING, FIMC_STOPPED).
- agentService.statusCode: This token will help you find assets based on the agent service code (Accepted values: 2001, 2002, 2003, 2004, 2007, 2008, 2009, 2010).
- agentService.updatedDate: This token will help you find assets based on the agent updated.
- agentUuid: This token will help you find assets based on agent UUID.
- agentVersion: This token will help you find assets based on agent version you're interested in.
- assetId: This token will help you find assets based on by agent ID.
- assetType: This token will help you find assets based on asset type.
- created: This token will help you find assets based on the date created.
- netbiosName: This token will help you find assets based on the netbios name.
- ec2.region: This token will help you find assets based on the EC2 region.
- ec2.instanceId: This token will help you find assets based on the EC2 instance ID.
- ec2.hostname: This token will help you find assets based on the EC2 hostname.
- ec2.availabilityZone: This token will help you find assets based on the EC2 availability zone of assets.
- interfaces.macAddress: This token will help you find assets based on the MAC address.
- interfaces.address: This token will help you find assets based on the IP address.
- interfaces.hostname: This token will help you find assets based on the hostname.
- interfaces.interfaceName: This token will help you find assets based on the interface name.
- lastLoggedInUser: This token will help you find assets based on the last logged in user.

- lastCheckedIn: This token will help you find assets based on the last check-in.
- operatingSystem: This token will help you find assets based on the operating system.
- manifest.status: This token will help you find assets based on manifest status. (Accepted values: FIM ACTIVATION REQUEST RECEIVED, NO FIM MONITORING PROFILE FOUND, QUEUED FOR MANIFEST GENERATION, FIM MANIFEST PUBLISHED, FIM MANIFEST DOWNLOADED, FIM MANIFEST DECOMMISSIONED).
- manifest.id: This token will help you find assets based on manifest ID.
- manifest.updatedDate: This token will help you find assets based on manifest updated date.
- name: This token will help you find assets based on name.
- system.boot: This token will help you find assets based on the last boot date.
- tags.name: This token will help you find assets based on the tag name.

Issues addressed in this release

- We have fixed an issue for QQL query in Correlation Rules creation where 'and' and 'or' operands keywords within a profile name caused the misinterpretation of the query.
- We have fixed the issue where IPv4 Address and IPv6 Address for an asset were not displayed on the Event Details page.
- We have fixed the discrepancy issue in DNS Hostname on the Events Details page.
- The dateTime on the Incident Review page will be displayed in the browser time zone.
- The FIM MANIFEST DOWNLOADED option for manifest.status token is now renamed to FIM MANIFEST ASSIGNED on Assets tab.
- We have now added the Add new review option to the View Details page of the reopened incident.
- You can now create incidents from the events that are generated from QQL search of a partial file path and image path.
- The Advanced Option on the Edit Rule page now displays the excluded and included files and directories.