ThreatQuotient

ThreatQuotient for FireEye AX Operation

Version 1.0.0

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ThreatQuotient

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Introduction

1.1 Application Function

The ThreatQuotient for FireEye AX Operation provides a ThreatQ user with the ability to interact with their FireEye AX appliance. Users can submit files for analysis, as well as retrieve the reports back so the results can be added to ThreatQ as context. ThreatQ users can also query their FireEye AX appliance using indicators from ThreatQ to find any alerts related to those indicators. Lastly, this operation allows ThreatQ users to seamlessly add and remove YARA rules from their FireEye AX appliance.

1.2 Preface

This guide provides the information necessary to implement the ThreatQuotient for FireEye AX Operation. This document is not specifically intended as a site reference guide. It is assumed that the implementation engineer has experience installing and commissioning the ThreatQuotient Apps and integrations covered within the document, as well as the experience necessary to troubleshoot at a basic level.

1.3 Audience

This document is intended for use by the following parties:

1. ThreatQ and Security Engineers
2. ThreatQuotient Professional Services Project Team & Engineers

1.4 Scope

This document covers the implementation of the application only.

Table 1: ThreatQuotient Software & App Version Information

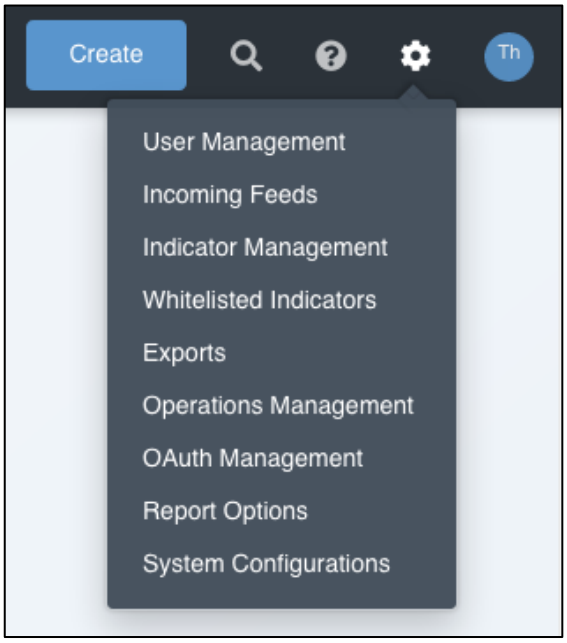
Software/App Name	File Name	Version
ThreatQ	Version 3.6.x or greater	
ThreatQuotient for FireEye AX Operation	Version 1.0.0	

1.5 Setting up the Integration

Ensure the file `tq_op_fireeye_ax-1.0.0-py3-none-any.whl` is available on the device being used to administer the ThreatQ instance in which the ThreatQuotient for FireEye AX Operation is being installed or upgraded.

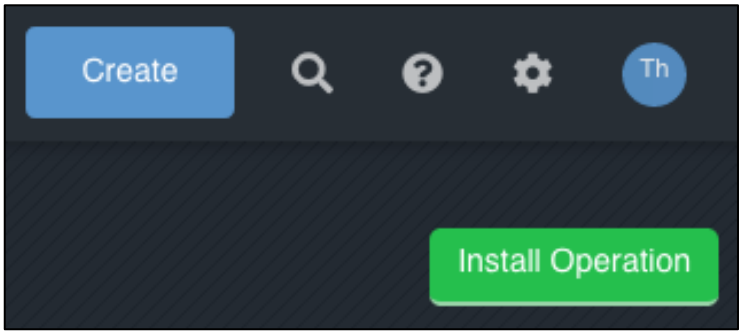
1. Navigate to the **Settings icon** > **Operations Management**.

Figure 1: Operations Management – Install



2. Click **Install Operation** in the upper right corner.

Figure 2: Install Operation



3. Drag the `tq_op_fireeye_ax-1.0.0-py3-none-any.whl` to the Add Operation Popup or **Click to Browse** and browse to the required file.

Figure 3: Add Operation

4. Click **Install** or **Upgrade**.

You may be presented with OPERATION ALREADY INSTALLED as shown below.

Figure 4: Add Operation

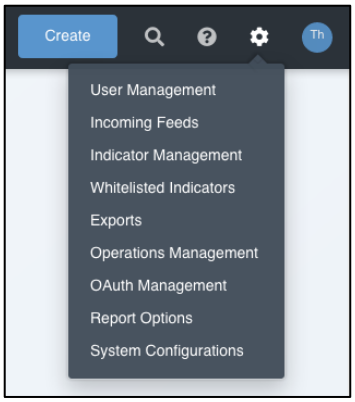
5. Installation / Upgrade is now complete.

1.6 Configuring the Operation

The following section covers the configuration of the ThreatQuotient for FireEye AX Operation.

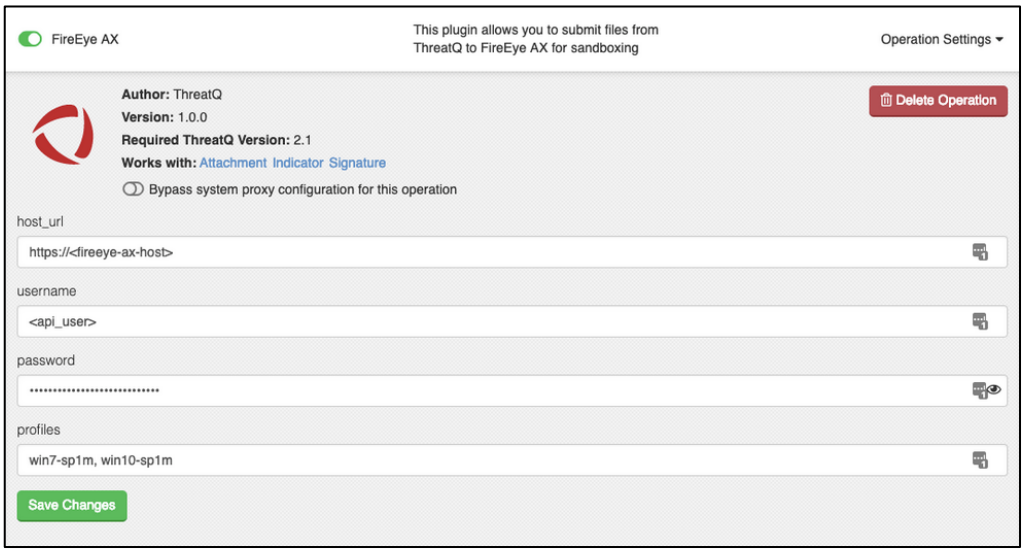
1. Navigate to the **Settings icon** > **Operations Management**.

Figure 5: Operations Management – Configuration



2. Expand the **Operations Settings** configuration.

Figure 6: Operation Configuration



3. Input the **host_url**: Your FireEye AX Host IP or FQDN.
4. Input your FireEye AX **Username**: the username associated with your FireEye AX host.
5. Input your FireEye AX **password:** the password associated with your username for the FireEye AX host account above.
6. Input the **Profiles**: The sandboxing profiles to use to sandbox the samples.
    - Example: win7-sp1m (see FireEye AX UI for more options).
    - Multiple profiles can be specified by making a comma-separated list in this field.
    - This can be overridden when using the operation (as a parameter).
7. Click **Save Changes**. The operation is now ready for use.

1.7 Using the Operation

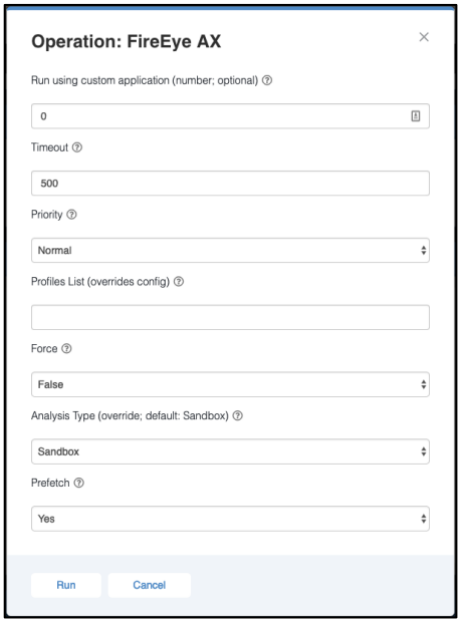
The following section covers the use of the ThreatQuotient for FireEye AX Operation.
There are 5 actions that can be carried out with this operation.

- Submit
- Get Reports
- Add a YARA Rule
- Remove a YARA Rule
- Query Alerts

1.7.1 Submit

This action will submit a file (attachment) or a URL/FQDN to FireEye AX for sandboxing parameters.

Figure 7: Operation Submit Parameters Use

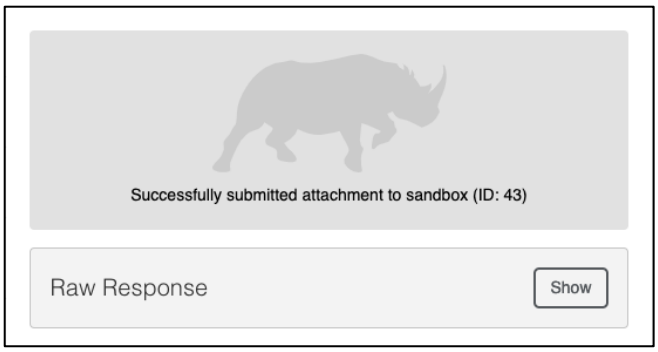


- **Run using custom application (number; optional)**: This option allows you to run the sample with a specific application within the sandbox profile.
    - This is a number corresponding to the custom application.
    - The default is '0', which basically asks FireEye AX to determine the application to use.
- **Timeout**: This option determines how long the sandbox will take to "timeout" after inactivity (default: 500).
- **Priority**: This option allows you to prioritize the task.
    - Options: Normal (default) or Urgent
- **Profiles List (overrides config)**: This is a list of profiles to use to sandbox the sample. The action will use the profiles set in the UI configuration if this is left blank. Otherwise, this will override the profiles listed in the UI configuration.
- **Force**: This option allows you to force resubmit a sample. If this is set to False, it will mark the sample as a duplicate and will not resubmit it.
- **Analysis Type (override; default: Sandbox)**: This allows you to set the analysis type. The default is Sandbox.

- **Prefetch**: Specifies whether to determine the file target based on an internal determination rather than browsing to the target location.
    - If you are using the Sandbox analysis type, this must be set to 1.

An example output can be seen below:

Figure 8: Submit Operation Example Result



1.7.2 Get Reports

This action will get all the reports for the sample, with the only condition being that the sample (in ThreatQ) has an attribute with the name "FireEye AX Submission ID" and the value will be the submission ID. For each of these attributes, it will fetch a report correlating to the submission ID. If submission results are found, results will be shown and the full JSON report will be uploaded and related to the sample in ThreatQ.

Figure 9: Get Report Operation Example

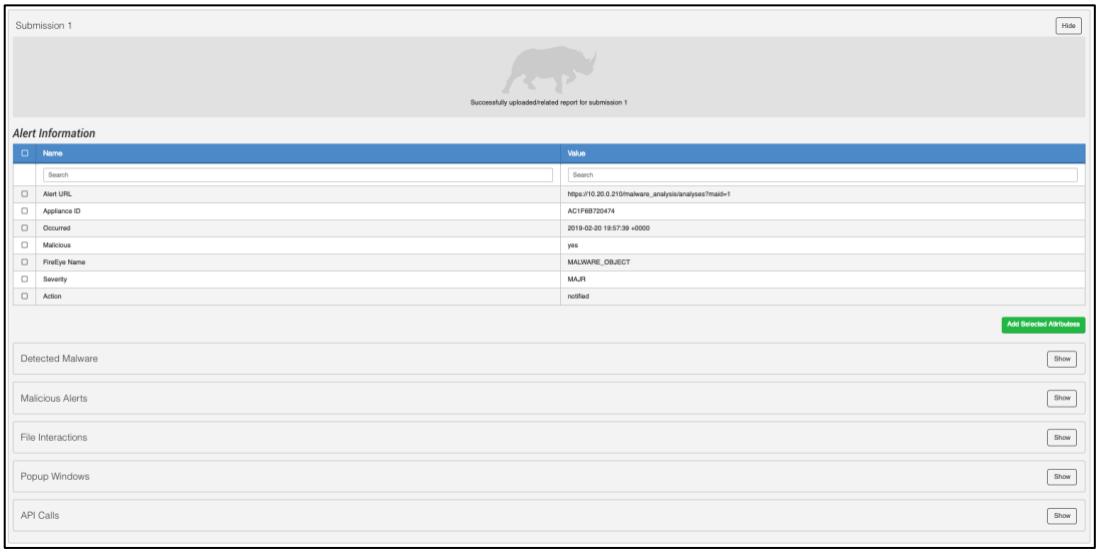


Figure 10: Get Report Operation Related Report Example

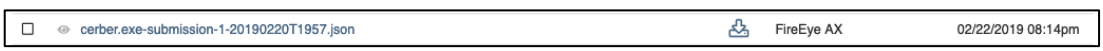


Figure 11: Get Report Operation Detected Malware Example

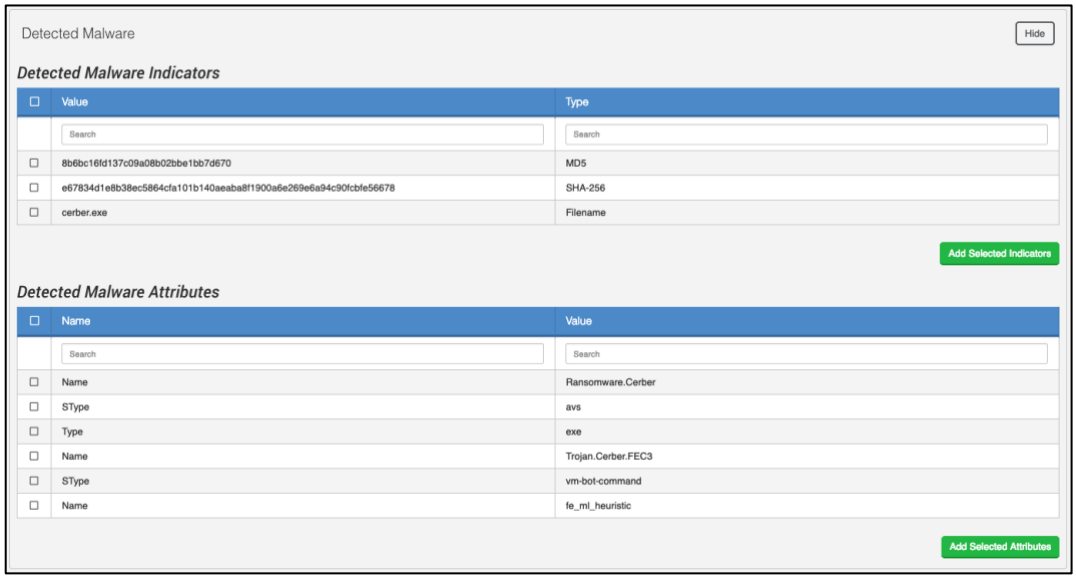


Figure 12: Get Report Operation Malicious Alerts Example

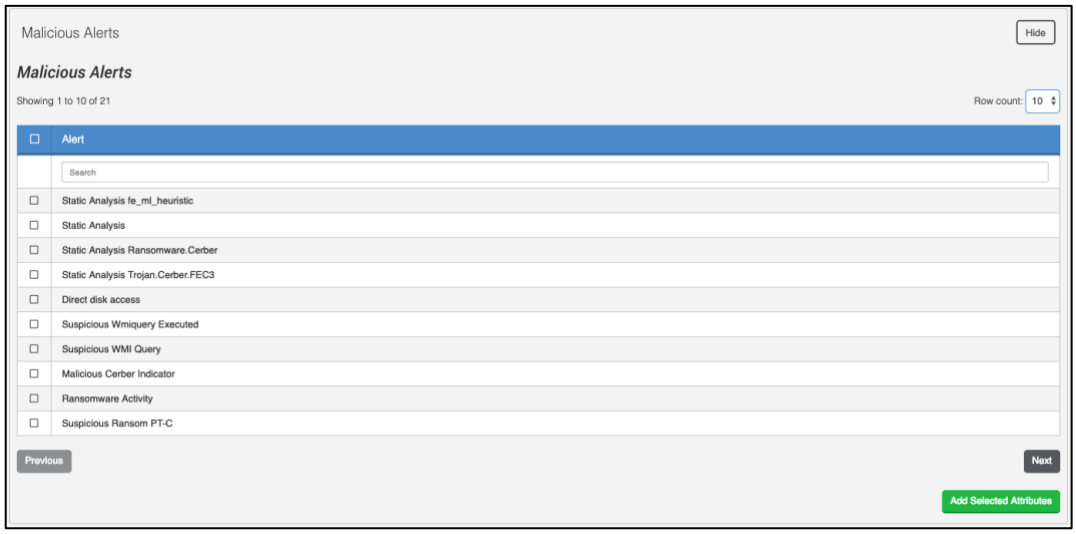
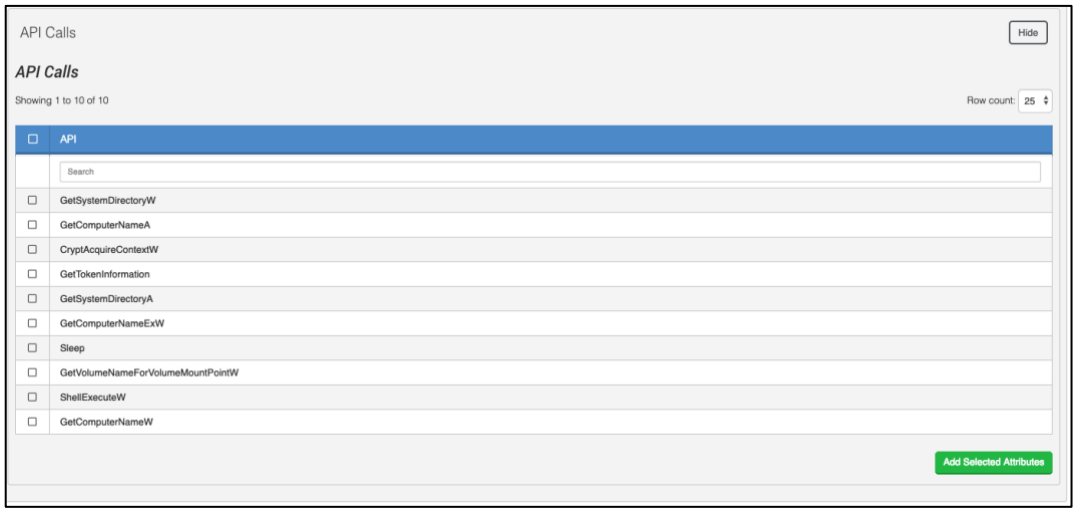


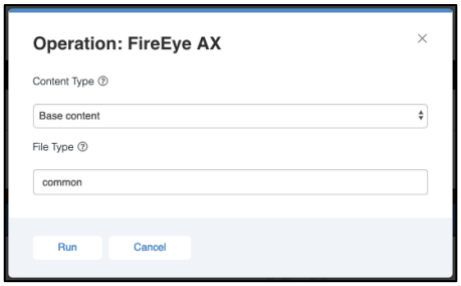
Figure 13: Get Report Operation API Calls Example



1.7.3 Add a YARA Rule

This action will allow you to add YARA rules from ThreatQ to FireEye AX.

Figure 14: Operation Add Yara Parameters Use Example



- **Content Type**: Specifies which content type the new YARA rule should be applied to.
  - Active content: Extracts the macros from files and executes special YARA rules on them.
  - Base (default): If file contains a macro, do not extract and analyse macros; only analyse the base file.
  - All: Does both
- **File Type**: The file type of the YARA rules file being submitted, such as exe, pdf, or ppt.
  - Default: `common`

Examples of both a successful addition of a YARA rule and an Unsuccessful addition.

Figure 15: Operation Add Yara Parameters Success Example

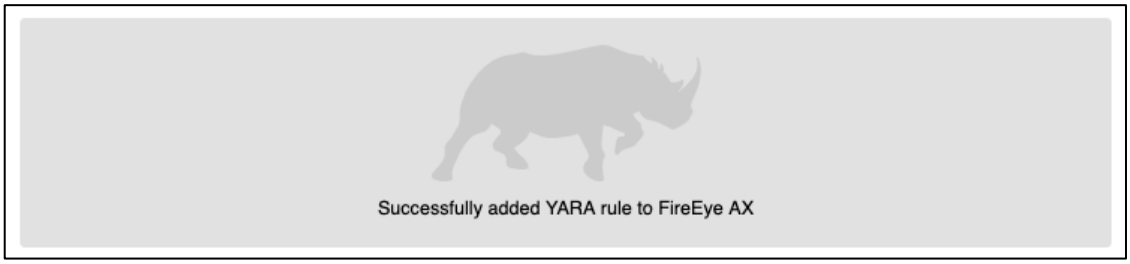
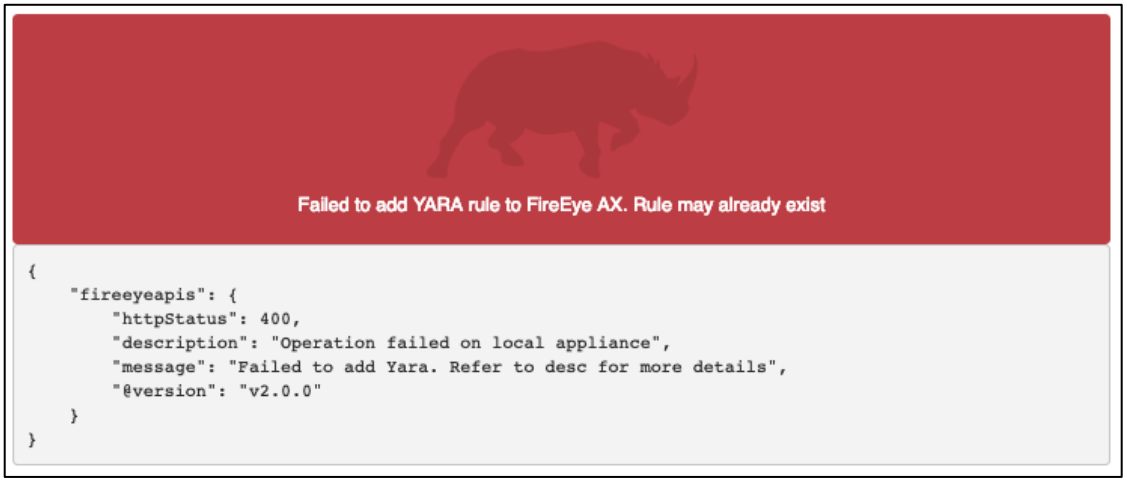


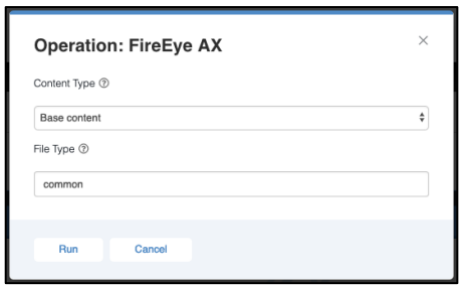
Figure 16: Operation Add Yara Parameters Unsuccessful Example



1.7.4 Remove a YARA Rule

This action will allow you to remove YARA rules from ThreatQ to FireEye AX.

Figure 17: Operation Remove Yara Parameters Use Example



- **Content Type**: Specifies which content type where the new YARA rule should be applied.
  - Active content: Extracts the macros from files and executes special YARA rules on them.
  - Base (default): If file contains a macro, do not extract and analyze macros; only analyze the base file.
  - All: Does both
- **File Type**: The file type of the YARA rules file being submitted, such as exe, pdf, or ppt.
  - Default: `common`

Examples of both a successful removal of a YARA rule and an Unsuccessful removal.

Figure 18: Operation Remove Yara Parameters Success Example

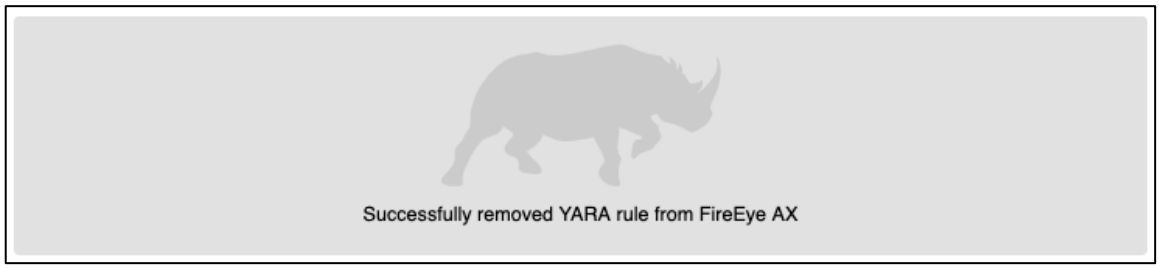
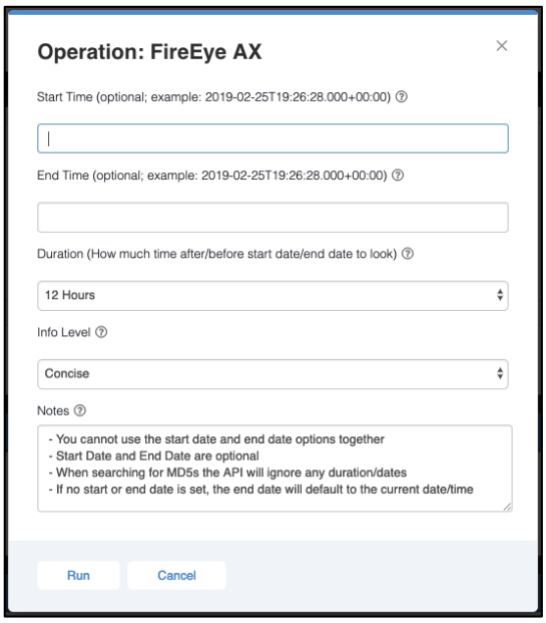


Figure 19: Operation Remove Yara Parameters Unsuccessful Example

1.7.5 Query Alerts

This action allows you to query alerts in FireEye AX. This action only applies to FQDNs, Filenames, Emails, and IP Addresses.

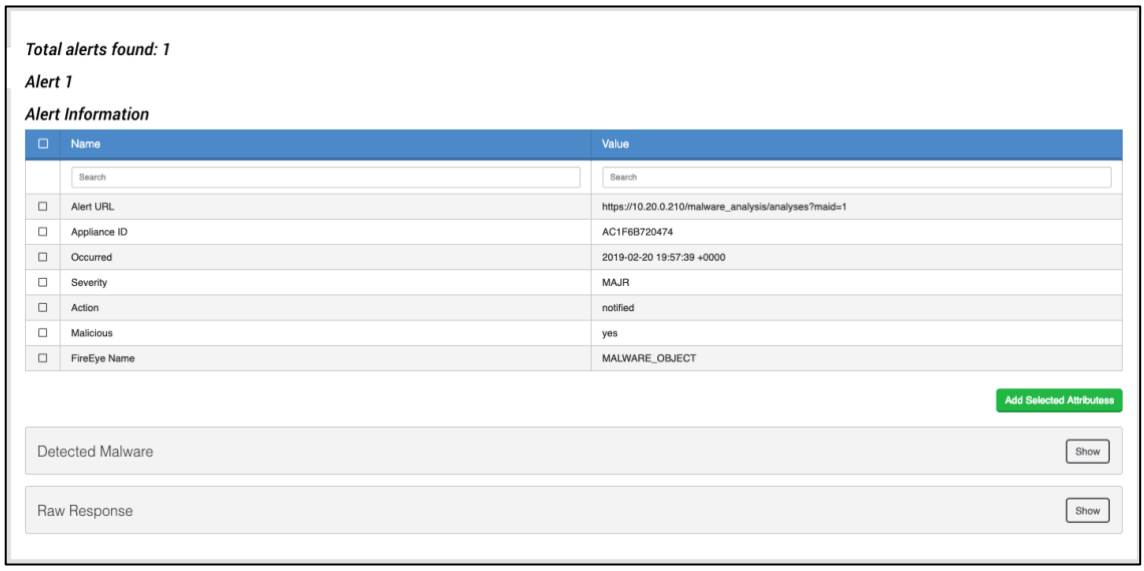
Figure 20: Operation Query Alerts Parameters Use



- **Start Time (optional)**: This allows you to set the start time to search for alerts. This is used in conjunction with the Duration parameter. You cannot use this at the same time as using the End Time parameter.
    - Format: YYYY-MM-DDTHH:mm:ss.sss-OH:om
    - Example: 2019-02-21T16:30:00.000-07:00
- **End Time (optional)**: This allows you to set the end time to search for alerts. This is used in conjunction with the Duration parameter. You cannot use this at the same time as using the Start Time parameter.
    - Format: YYYY-MM-DDTHH:mm:ss.sss-OH:om
    - Example: 2019-02-21T16:30:00.000-07:00
    - If no end time or start time is provided, the end time will be set to the current date/time.
- **Duration (How much time after/before start date/end date to look)**: This option allows you to set the amount of time you want to either look after a start time or before an end time. This field defaults to 12 hours.
- **Info Level**: This field allows you to set the detail level of the alerts.
    - Choices: Concise (default), Normal, Extended
    - Normal and Extended will provide a very large alert and may take longer to download.
- **Notes**: This field can be ignored. It is just some notes to give you more information/context.

An example of a successful query request can be seen below.

Figure 21: Operation Query Alerts Success Example



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