

HXTool

Technical Documentation
Release 4.0

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HXTool Technical Documentation

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Chapter 1: Introduction

What is HXTool

HXTool is an extended user interface for the FireEye HX Endpoint product. HXTool can be installed on a dedicated server or on your physical workstation. HXTool provides additional features and capabilities over the standard FireEye HX web user interface. HXTool uses the fully documented REST API that comes with the FireEye HX for communication with the endpoint security environment.

HXTool features

HXTool current set of features

- Dashboard
 - Inactive hosts per host-set
 - Alert distribution graph and timeline
 - Host provision timeline
 - Hosts with the most alerts
 - Recent alerts
 - Hosts with anti-virus content version
 - Hosts with anti-virus engine version
 - Anti-virus status
 - Recent anti-virus alerts
- Alerts
 - Chronological alerts listing with selectable time range
 - Alert investigation panel
view alerts per endpoint and access acquisitions
 - Event annotation and state
- Hosts
 - Find a host search bar
 - Contain, approve containment, stop containment
 - Triage and File acquisitions
 - Custom Data acquisition (based on script xml/json)
- Enterprise Search
 - Run a search based on OpenIOC 1.1
 - Store OpenIOC 1.1 indicators in HXTool
 - Run searches based on schedule
 - Run now
 - Run at specific time/date
 - Run on an interval
- Script builder
 - Build acquisition scripts using all available xAgent audit modules
 - Improve set of parameters

- Parameter descriptions
- Bulk acquisition
 - Run acquisitions against all hosts in a host-set
 - Background downloading of acquisitions to directory
 - Run bulk acquisitions on a schedule
 - Run now
 - Run at specific time/date
 - Run on an interval
 - Post processing modules for forwarding of collected data
 - File writer module to store data in local files
 - IP sender to stream collected data using TCP/UDP
 - Use script stored in HXTool or from file
- Post-download handlers
 - Data stacking
 - Services
 - Processes
 - Scheduled tasks
 - Driver modules
 - Driver signature
 - Ports
 - Master boot record
 - Linux Ports
 - Multi-file acquisition
 - List files on all endpoints in a host-set using path and regular expression
 - Download selected files from listing results in one click
- Real-time indicators
 - Build new real-time indicators of compromise using full set of events and fields
 - View indicators
 - Clone indicators
 - Edit indicators
 - Export and import indicators
 - Manage indicator groups
- Custom configuration channel
 - Manage custom configuration channels (view, add, remove)
- Scheduler
 - View scheduler queue and status
 - Remove tasks from scheduler

Chapter 2: Before you start

Things to consider

HXTool is a Python application that requires an installation of Python on the machine where you want to run the application. You also need to install several libraries in Python so choose an install location where you are in control of the Python configuration. Also keep in mind that Python shipped with several operating systems may be used by the operating system itself so the safest choice is to manage a separate environment for your download Python application such as HXTool. HXTool also supports Docker for easy installation

Requirements

HXTool software requirements

- Python 2.7 or 3.x
- Python library: Flask
- Python library: Requests
- Python library: Pycryptodome
- Python library: TinyDB
- Python library: Pandas

HXTool hardware requirements

- 1 core
- 2Gb of RAM
- 1Gb of disk

Please note that hardware requirements differ greatly depending on how HXTool is used. The following capabilities will greatly increase the hardware requirements

- Bulk acquisition downloader
- Data stacking
- Multi-file acquisition
- Task processor
- A very high number of alerts that has to be processed (Dashboard, Alerts and alert investigation panel)

When heavily using these features in a shared environment a dedicated physical or virtual server is recommended. The number HXTool background processing threads can be configured to a greater amount when you use HXTool on a powerful server with many cores. See next chapter.

Chapter 3: Installation

Installing Python

Python can be installed and used with many operating systems. This guide does not give you all the information that might be required in order to install Python on your workstation or server but please refer to the documentation available on the python website for further assistance.

Linux

Many distributions come with a built-in Python installation. If the version of Python shipped with your operating system is sufficient and you are sure that installing additional Python libraries won't affect other software on the operating system you can go ahead and install the HXTool dependencies using the operating system utility to install software packages. These operating systems usually refers to this as "package-managers". Examples of these are "apt", "aptitude" and "yum".

As an alternative, you can install a separate Python installation on your operating system. Instructions how to do this is available on www.python.org. Please also note that PYENV might be useful in these situations. More information on PYENV here:

<https://github.com/pyenv/pyenv>

Microsoft Windows

Python is not shipped with Microsoft windows so you have to install it by downloading the software package from www.python.org. After download simply run the installer and install Python into a directory on your harddrive.

After installation of Python you sometimes need to acquire the additional tool called "pip" in order to install libraries in Python. The "pip" application is usually found in the "scripts" subfolder of your Python installation but can also be acquired by downloading this Python script:

<https://pip.pypa.io/en/stable/installing/>

After 'pip' has been installed you can install the additional libraries by running the following command:

```
"pip install <libraryname>"
```

Apple MacOS

Apple MacOS comes shipped with Python 2.7. Our recommendation on MacOS is to install a separate Python environment and use that for HXTool.

Head on over to: <https://brew.sh/> and read up on “Homebrew” which allows you to install both Python2 and Python3 and manage them as separate environments on your Mac.

Acquiring HXTool software

HXTool can be downloaded from the FireEye Market. Go to the following URL:

<https://fireeye.market/apps/211931>

Download the latest HXTool zip-file.

Installing HXTool

Once you have the HXTool zip-file we can go ahead and install HXTool into its destination directory.

1. Create a new directory on your hard drive
2. Unzip the contents of the HXTool zip-file into this directory

Configuring HXTool

Before you run HXTool for the first time you need to review the configuration and also make sure your machine can communicate with the FireEye Endpoint Security console properly.

You should be able to access the FireEye Endpoint Security Web user interface from the machine you are installing HXTool on. The address to the Endpoint Security WebUI is usually <https://<hostname>:3000>. Please note that if you are using a proxy server there might be additional configuration required in the HXTool configuration file.

Now we need to review the settings in the HXTool configuration file. Open the file conf.json in a text-editor.

Example HXTool conf.json

```
{
  "log_handlers":{
    "rotating_file_handler":{
      "file":"log/hxtool.log",
      "max_bytes":50000,
      "backup_count":5,
      "level":"info",
      "format":"[%](asctime)s} {%(module)s} {%(threadName)s}
%(levelname)s - %(message)s"
    }
  },
}
```

```

"network":{
  "ssl":"enabled",
  "port":8080,
  "listen_address":"0.0.0.0"
},
"ssl":{
  "cert":"hxtool.crt",
  "key":"hxtool.key"
},
"background_processor":{
  "poll_interval":30,
  "poll_threads":4
},
"headers":{
},
"cookies":{
}
}

```

HXTool configuration file reference

Module	Item	Description
log_handlers	rotating_file_handler	Default log mechanism, stores logs to files
	file	Name of the master log file
	max_bytes	Max size of the log file until its archived
	backup_count	The number of archived files to store
	level	The HXTool log level
	format	The log format used by the logging mechanism
network	ssl	Enabled for HTTPS and disabled for HTTP
	port	The TCP port HXTool will listen on
	listen_address	The interface HXTool will listen on (0.0.0.0 = all interfaces)
ssl	cert	The name of the certificate file used when you have ssl enabled
	key	The name of the key file used when you have ssl enabled
background_processor	poll_interval	The number of seconds between each poll done by the background processor threads
	poll_threads	The number of simultaneous background processor threads. Set this to the number of CPU cores you have on the system

Module	Item	Description
headers	<header>	If you need to pass specific headers in the API requests add them here
cookies	<cookie>	If you need to pass specific cookies in the API requests add them here

Running HXTool

After configuration and installation is completed you can go ahead and start HXTool.

“python hxtool.py”

Please note that the name of the Python application can be different depending on operating system and how you installed Python. Common names are “python2” and “python3”

Make sure HXTool works by pointing your web-browser to the URL of HXTool:

https://<hostname>:<configured port>/

You should see the HXTool login screen.

Recommended web browsers

- Goole Chrome
- Firefox
- Safari

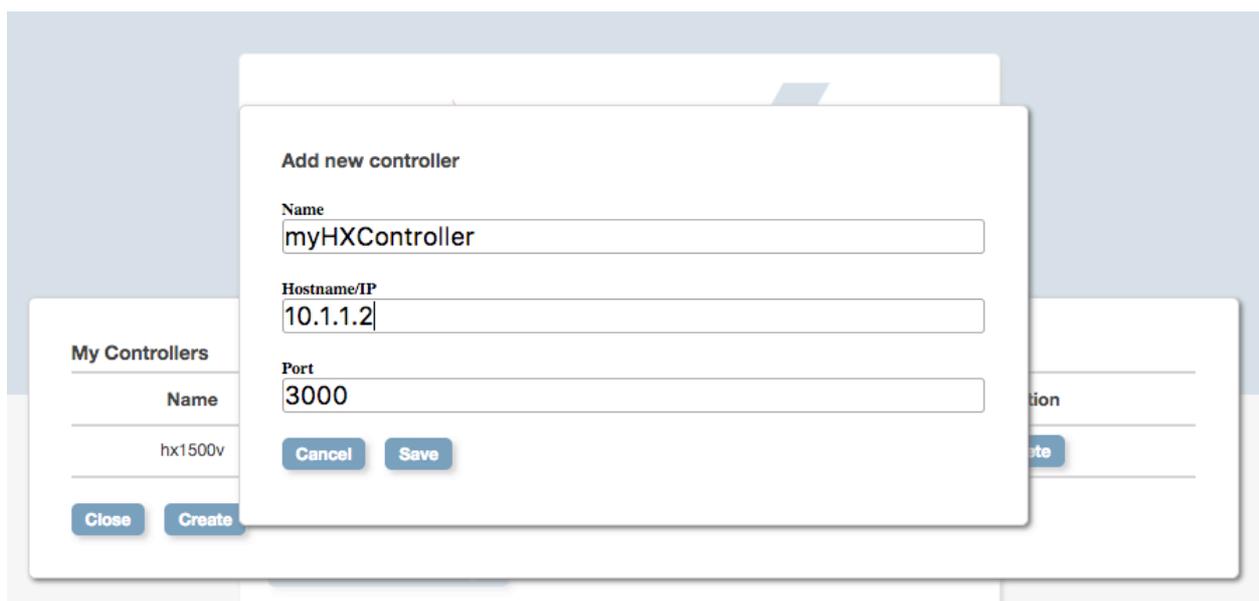
Chapter 4: Account management

Adding Endpoint Security consoles to HXTool

In order to use HXTool you must configure a profile on the HXTool login page to tell HXTool where to connect to. HXTool supports several profiles but you can only login to one profile at a time.

How to add a new profile

1. Go to the HXTool login page.
2. Click “Controller profile manager”
3. Click “Create”
4. Enter name, hostname/ip and port in the dialogue
5. The default port for endpoint security API is always 3000, this might be different if endpoint security is located behind a proxy server/reverse proxy or if you are using the cloud version of endpoint security or Helix. Cloud endpoint security and Helix uses port 443.
6. Click “Save”



HXTool “Add new controller profile”

Setting up accounts in Endpoint Security

In order to login you need credentials for the Endpoint Security Controller you have selected on the login page. Only two account roles are valid for HXTool and those are

- API Analyst
 - API Analysts has access to all HXTool features except full containment and custom configuration channels
- API Admin
 - API Admins can access all HXTool capabilities. When an API admin contains a host both the request and approval happens at the same time

To setup a new account login as an administrator to the endpoint security web user interface and follow these steps:

- Click “Admin->Appliance settings”
- Click “User accounts”
- Add a new user and choose the role “api analyst” or “api admin”
- Set a password and click “add user”

Add New User

User Name:

Role:

Create Password:

Confirm Password:

FireEye Endpoint Security “Add new user”

Logging in

To login simply provide the username and password and select the proper controller profile in the drop-down list and click “Login”

FireEye™
HXTool™ v4.0
Extended user interface for FireEye HX

USERNAME
apia

PASSWORD
.....

CONTROLLER PROFILE
hxlocal - 172.16.30.200:3000

Controller Profile Manager

Login

Use HX API Credentials to login
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HXTool login dialogue

Setting background processing credentials

In order to utilize the following features, you have to set credentials to allow HXTool to communicate with the endpoint security profile/controller when you are not logged into HXTool. We recommend creating a service account for this task.

To set the background processing credentials

- Login to the controller in HXTool
- Click Admin->HXTool settings
- Provide a username and password valid for the controller (api_analyst role)
- Save the credentials

Background processing credentials

Enter HX API credentials to use for background processing. This feature requires a username and password, you will need to unset and reset these credentials.

Username

Password

Setting background processing credentials in HXTool

Chapter 5: Using HXTool

Dashboard

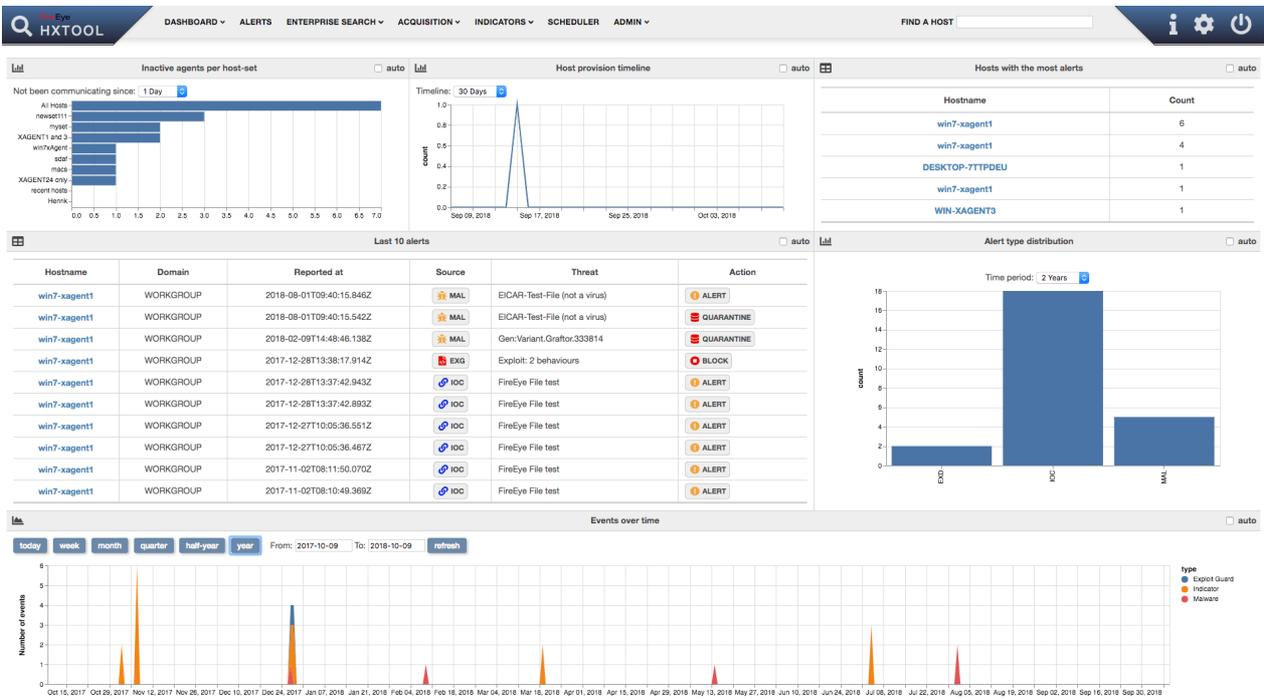
The dashboard can be accessed by clicking the dashboard link on the menu or clicking the FireEye logo.

The dashboard shows you information and statistics in your FireEye Endpoint Security environment.

Some panels allow interaction where you can choose time periods and other settings. When changing this the panels update automatically.

By selecting the checkbox “auto” that panel will auto-refresh

By clicking on the host-name you will navigate to the alert investigation panel for that host



HXTool Dashboard

Alerts

The alerts feature can be accessed by clicking the alerts link on the menu.

The alerts feature shows you an alert feed from the FireEye Endpoint Security sorted in chronological order with descending timestamp.

Alerts can be annotated with a specific status. To annotate an alert click the “annotate” button, type in your text and select either “investigating” or “completed” as status.

Annotated alerts will have another background color to them.

Yellow: Alert is under investigation

Green: Investigation completed.

The button “HX” will open a new tab in your browser and navigate to the host investigation view of the agent that reported the alert.

By clicking on the host-name you will navigate to the alert investigation panel for that host.

The buttons at the top of the page controls which time-period that is to be shown. A user defined time period can also be chosen by inputting values in the from and to boxes and then selecting “refresh”

Filtering is available for hostname/ip, threat name, MD5 hash, alert type and resolution.

The copy button allows you to copy all alerts shown to the clipboard and CSV/Excel downloads the information in CSV or Excel file formats.

Alerts	Hostname	Domain	Containment	Event at	Age	Source	Resolution	Threat	State	Annotations	Action
	win7-xagent1	WORKGROUP	Normal	2018-08-01 08:13:13	2 months ago	MAL	ALERT	EICAR-Test-File (not a virus)	New	show (0)	annotate
	win7-xagent1	WORKGROUP	Normal	2018-08-01 08:12:40	2 months ago	MAL	QUARANTINE	EICAR-Test-File (not a virus)	New	show (0)	annotate
	win7-xagent1	WORKGROUP	Normal	2018-07-04 09:13:10	3 months ago	IOC	ALERT	FireEye File test	Investigating	show (2)	annotate
	win7-xagent1	WORKGROUP	Normal	2018-07-04 09:12:14	3 months ago	IOC	ALERT	FireEye File test	Completed	show (1)	annotate
	win7-xagent1	WORKGROUP	Normal	2018-07-04 09:12:09	3 months ago	IOC	ALERT	FireEye File test	New	show (0)	annotate
	win7-xagent1	WORKGROUP	Normal	2018-05-14 15:54:13	5 months ago	MAL	QUARANTINE	Gen:Heur.Zard.1	New	show (0)	annotate

HXTool alerts view

HXTool “find a host”

Enterprise search

The enterprise search feature can be accessed by clicking the Enterprise Search link on the menu.

Please note that you need to set background processing credentials to use this feature.

This feature allows you to start an Enterprise Search in Endpoint Security based on an OpenIOC file instead of ad-hoc query. To use this feature, you need an OpenIOC 1.1 file.

- Click “From file” and select your OpenIOC file or select an indicator from the drop-down menu “From HXTool”
- The option “skip unsupported terms” will be available if you are using FireEye Endpoint Security 4.5 or later. This feature allows the system to filter out non-supported terms from your indicator automatically.
- Select the target host-set
- Choose if you want the search to start immediately, in the future or run on an interval.
- Click the “Start Enterprise search” button
- A new Enterprise Search will now start and it will be listed in the table below
- To view the results of the enterprise search, click the line in the table or access the endpoint security WebUI and view it there.

Search based on OpenIOC

From HXTool

From file
 No file chosen

Skip unsupported terms

Hostset

Run now
 Run at specific date/time
 Run on an interval
 Every

Please note that the OpenIOC indicator must be in OpenIOC 1.1 format and use UTF-8 encoding without BOM.

Start Enterprise Search

HXTool OpenIOC 1.1 Enterprise search

To show the results of an acquisition hover over a row in the table and click the row.

Searches on the controller

id	state	mode	created	updated	user	type	hostset	hosts	skipped	new	queued	failed	complete	aborted	cancelled
255	RUNNING	HOST	2018-07-05 09:13:46	2018-10-09 11:17:32	apia	api	all_hosts	7	1	0	0	5	2	0	0
248	RUNNING	HOST	2018-06-05 08:41:37	2018-10-09 11:17:32	apia	api	all_hosts	8	0	0	0	6	2	0	0
247	RUNNING	HOST	2018-06-05 08:40:13	2018-10-09 11:17:32	apia	api	all_hosts	8	0	0	0	6	2	0	0

The results will then be showed in a drill-down view.

File on Disk Search:

hostname	type	File Name	File Full Path	Size in bytes	File Attributes	Username	Timestamp - Created	Timestamp - Modified	Timestamp - Accessed	Timestamp - Changed
DESKTOP-7TTPDEU	File on Disk	calc.exe	C:\Windows\System32\calc.exe	27568	Archive	NT SERVICE\TrustedInstaller	2018-07-15T19:14:23Z	2018-07-15T19:14:23Z	2018-07-15T19:14:23Z	2018-07-15T19:14:23Z
win7-xagent1	File on Disk	calc.exe	C:\Windows\System32\calc.exe	918528	Archive	NT SERVICE\TrustedInstaller	2017-10-24T21:47:54Z	2017-10-24T21:47:54Z	2017-10-24T21:47:54Z	2017-10-24T21:47:54Z

Manage OpenIOC 1.1

This feature allows the user to upload OpenIOC 1.1 indicators to HXTool for future use.

1. Choose a name for the indicator
2. Click on “choose file” and select the indicator you want to upload and store within HXTool
3. Click “Upload IOC”

The screenshot shows the HXTool web interface. At the top, there is a navigation bar with the HXTool logo and several menu items: DASHBOARD, ALERTS, ENTERPRISE SEARCH, ACQUISITION, INDICATORS, SCHEDULER, and ADMIN. Below the navigation bar, there is a section titled 'Upload new OpenIOC 1.1 indicator'. This section contains a form with an 'IOC name' input field, a 'Choose file' button (with 'No file chosen' text next to it), a descriptive text: 'An OpenIOC 1.1 file is an indicator which can be used by Enterprise search as the source of your conditions.', and an 'Upload IOC' button. Below the form is a section titled 'My OpenIOCs' which contains a table with the following data:

Name	Created By	Created
Calc IOC	apia	2018-10-09 11:15:11

From this page you can also view and delete indicators by clicking on their respective buttons

The screenshot shows a detailed view of the 'My OpenIOCs' table. It includes a search bar at the top right. The table has columns for 'Modified' and 'Action'. The 'Modified' column shows the date and time '2018-10-09 11:15:11'. The 'Action' column contains two buttons: 'view' and 'delete'.

Bulk acquisition

The bulk acquisition feature can be accessed by clicking the “Bulk Acquisition” link on the menu.

Please note that you need to set background processing credentials to use this feature.

This feature allows you to start a data acquisition for an entire host-set in HX.

1. Click “From file” and select a valid acquisition script for FireEye HX. You can download these in the FireEye Endpoint Security WebUI by accessing “Data acquisition scripts” under the admin tab, create them manually or build them in HXTool by accessing the script builder.
2. Provide a comment so others can easily identify your bulk acquisition
3. Select a target host-set
4. Choose to run the bulk acquisition now, in the future or on an interval

5. If desired check the “use task-processor profile” checkbox and choose a task-processor profile. These profiles allow post-processing of acquired results such as store all acquired data in a file or stream the data to another destination. See task-processor profiles.
6. Click Start bulk acquisition

New bulk acquisition

From HXTool
 From file

No file chosen

Comment

Hostset

Run now
 Run at specific date/time 2018-10-09 12:00:00
 Run on an interval

Every

Use task-processor profile

You can monitor the acquisition progress in the table below and also drill-down into the results by clicking the corresponding line in the table to your acquisition.

To download acquisition results, click the “Download acquisition” link.

ed at	state	actions
1T08:59:00.056Z	COMPLETE	<input type="button" value="Download acquisition"/>
0T20:35:06.464Z	COMPLETE	<input type="button" value="Download acquisition"/>
0T20:33:41.454Z	COMPLETE	<input type="button" value="Download acquisition"/>

Download individual bulk acquisition results

Bulk Acquisition actions

- If you want to download all acquisitions results in the background click on the “download” button next to the bulk acquisition
- If you want to stop the bulk acquisition and cancel all acquisition jobs not completed click the “stop” button
- If you want to stop the bulk acquisition and remove all results from the controller click the “remove button”

tasksize max	new	queued	failed	complete	aborted	cancelled	completerate	downloadrate	action
0.01	0	0	0	1	0	0	100%	100%	stop remove download
0.56	0	0	0	1	0	0	100%	100%	stop remove download
0.01	0	7	0	1	0	0	12%	16%	stop remove download

HXTool bulk acquisitions

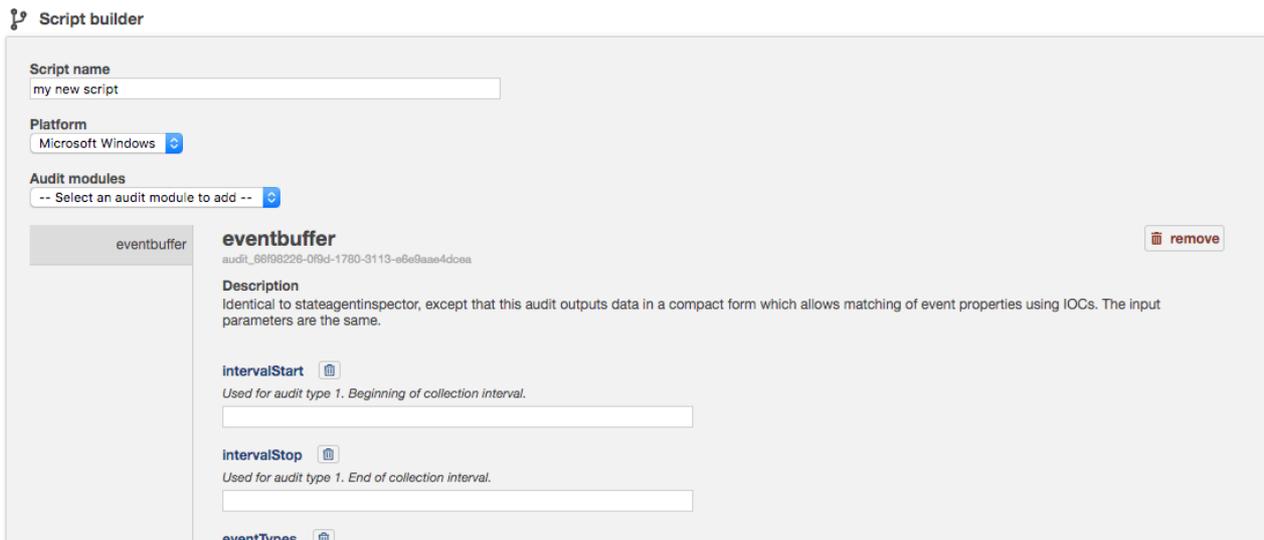
When you click download the background processor will place all your files in the bulkdownload/ directory. Each bulk acquisition has its own directory indicated by the name of the profile and the ID of the acquisition

Script builder

This feature allows you to construct and build acquisitions scripts that can be used with the feature Bulk acquisition.

To build a new acquisition script:

1. Enter a name for your script in the “script name” field
2. Choose the platform you want to create a script for
3. Click the drop-down menu “audit modules” and select the audit module you want to add to your script. This action can be repeated to add more than one audit module to your script
4. Enter values into each parameter of your script
5. Optional values can be removed if desired. This is done by clicking the trashcan icon next to the parameter name
6. Some parameters can be repeated. When this is available you will see the “repeat” button appear.
7. Click “create script”. Your script will now be stored in the HXTool script store.

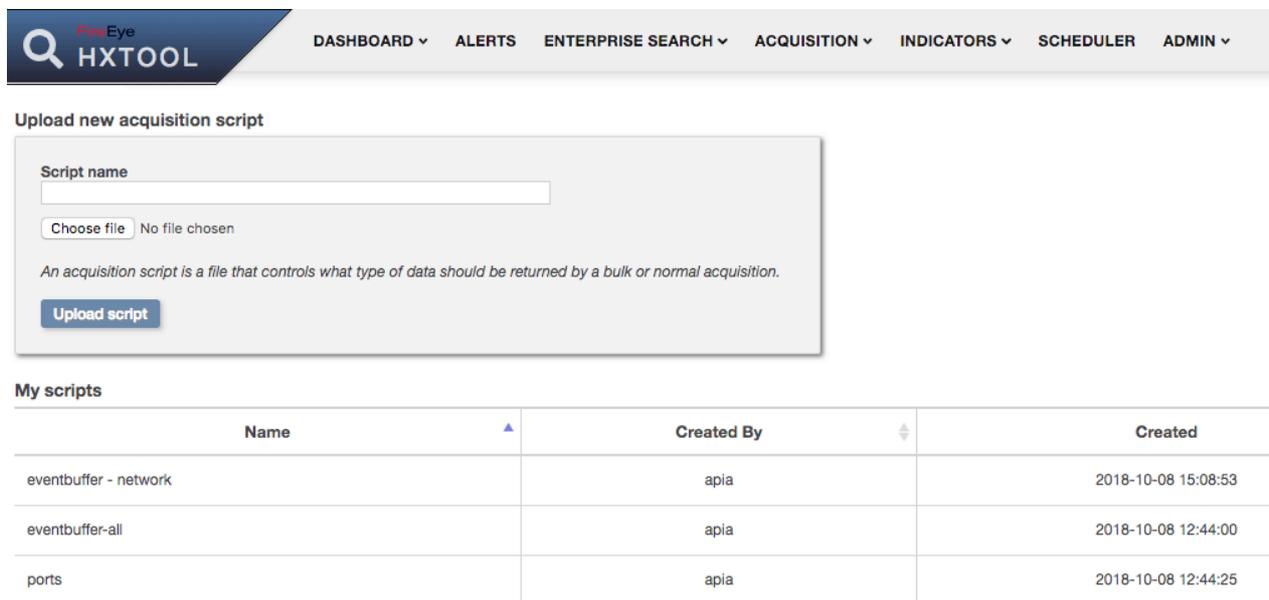


Manage scripts

This feature allows you to manage and upload new acquisition scripts to HXTool.

To upload a new acquisition script

1. Provide a script name
2. Click the “choose file” button and select a valid Endpoint Security acquisition script file
3. Click “upload script”



You can also delete and view scripts from here by using each respective button

Search:

Modified	Action
2018-10-08 15:08:53	<input type="button" value="view"/> <input type="button" value="delete"/>
2018-10-08 12:44:00	<input type="button" value="view"/> <input type="button" value="delete"/>
2018-10-08 12:44:25	<input type="button" value="view"/> <input type="button" value="delete"/>

Task profiles

This feature allows you to create the profile definitions that can be used with bulk acquisitions. These definitions will determine what scheduler / background processing does with the acquired results within a bulk acquisition.

To build a new task profile:

1. Enter a profile name
2. In the drop-down menu for “core task profile module” select one of the available ones. This operation can be repeated several times

Create new task profile

Profile name

Core task profile module
 

File writer

File writer stores all acquired data in a single file on the filesystem. The “local file” option allows you to enter a file location on the filesystem that will be used. If the file does not exist it will be created.

Event mode allows the user to choose if collected events will be stored in a single JSON object (batch mode) or in several JSON objects (per-event mode)

File Writer remove

Local file

Event mode

IP Sender

IP Sender allows the collected results to be streamed to another destination over the network.

1. Protocol allows you to choose TCP or UDP. Keep in mind that when using UDP information loss might occur if the packets never reach their destination
2. Target IP is the ip address you wish to send the results to
3. Target Port is the port of the Target IP you want to use

Event mode allows the user to choose if collected events will be stored in a single JSON object (batch mode) or in several JSON objects (per-event mode)

IP Sender remove

Protocol

Target IP

Target port

Event mode

Multi-file acquisition

Please note that you need to set background processing credentials to use this feature

The multi-file acquisition allows you to list and acquire files on endpoints directly. To use the feature, do the following:

Construct a new file listing request using a name, target path, regular expression (RE2) and select a target host-set.

Multi-file Listing Acquisition Request

Request a file listing by providing a file path, regex, and a set of hosts to acquire from. Once acquired, you will be able to selectively acquire files from the hosts.

Name

File Listing Path

File Listing Regex

Host set
 Use Raw Mode?

Default is API mode. Raw mode should not be used when disk encryption is enabled on endpoint.

Get File Listing

Note: The download feature is only available once you have set the background processing credentials on the ["settings"](#) page.

New multi-file acquisition

As results start to come in you notice that the progress bar on the view to the top-right increases. When there are results to display the “view” button appears (you have to reload the page). Click the “view” button to review the findings

File Listing

Path: c:\UnxUtils
 Regex:
 Host Set:
 Depth: -1

File Acquisition Name

Use Raw Mode?

Default is API mode. Raw mode should not be used when disk encryption is enabled on endpoint.

	Copy	CSV	Download Selected		Hostname	FullPath	Username	SizeInBytes	Modified
<input type="checkbox"/>					AAAAAAAAA01	C:\UNXUTILS\bin\sh.exe	AAAAAAAAA01\victim	426256	2015-10-06T06:57:40Z
<input type="checkbox"/>					AAAAAAAAA01	C:\UNXUTILS\StdDisclaimer.html	AAAAAAAAA01\victim	1037	2015-10-06T06:57:47Z
<input type="checkbox"/>					AAAAAAAAA01	C:\UNXUTILS\UnxUtilsDist.html	AAAAAAAAA01\victim	26170	2015-10-06T06:57:47Z
<input type="checkbox"/>					AAAAAAAAA01	C:\UNXUTILS\usr\local\include\FlexLexer.h	AAAAAAAAA01\victim	5749	2015-10-06T06:57:40Z
<input type="checkbox"/>					AAAAAAAAA01	C:\UNXUTILS\usr\local\lib\libfl.a	AAAAAAAAA01\victim	4014	2015-10-06T06:57:40Z
<input type="checkbox"/>					AAAAAAAAA01	C:\UNXUTILS\usr\local\lib\libfl.lib	AAAAAAAAA01\victim	1174	2015-10-06T06:57:40Z
<input type="checkbox"/>					AAAAAAAAA01	C:\UNXUTILS\usr\local\md5sum	AAAAAAAAA01\victim	5480	2015-10-06T06:57:40Z
<input type="checkbox"/>					AAAAAAAAA01	C:\UNXUTILS\usr\local\share\bison.hairy	AAAAAAAAA01\victim	6477	2015-10-06T06:57:40Z
<input checked="" type="checkbox"/>					AAAAAAAAA01	C:\UNXUTILS\usr\local\share\bison.simple	AAAAAAAAA01\victim	19223	2015-10-06T06:57:40Z
<input checked="" type="checkbox"/>					AAAAAAAAA01	C:\UNXUTILS\usr\local\wbin\agrep.exe	AAAAAAAAA01\victim	147456	2015-10-06T06:57:40Z
<input checked="" type="checkbox"/>					AAAAAAAAA01	C:\UNXUTILS\usr\local\wbin\ansi2knr.exe	AAAAAAAAA01\victim	5632	2015-10-06T06:57:40Z
<input checked="" type="checkbox"/>					AAAAAAAAA01	C:\UNXUTILS\usr\local\wbin\basename.exe	AAAAAAAAA01\victim	7680	2015-10-06T06:57:40Z

Review multi-file acquisition results

Select the files that you wish to acquire and give the acquisition a name to the left hand side. Then click the “download selected” button on the top.

Multi-File Acquisitions

	ID	state	Name	Mode	ListingID	User	Created	Progress	Actions
	1	RUNNING	myAcquisition	API	1	henrik	2017-10-23 13:05:03.108293	<div style="width: 100px; height: 10px; background: linear-gradient(to right, #4CAF50 75%, #ccc 75%);"></div> 75%	<input type="button" value="stop"/> <input type="button" value="remove"/>

Hostname	FullPath	
AAAAAAAAA01	C:\UNXUTILS\usr\local\share\bison.simple	
AAAAAAAAA01	C:\UNXUTILS\usr\local\wbin\agrep.exe	
AAAAAAAAA01	C:\UNXUTILS\usr\local\wbin\ansi2knr.exe	
AAAAAAAAA01	C:\UNXUTILS\usr\local\wbin\basename.exe	

Search:

Select file to download to your workstation

A new job will now be shown on the multi-file acquisition landing page where you can download and access all the files you selected in the previous step.

Please note that for this acquisition API mode acquisition is standard but RAW can be chosen if required.

Data stacking

Please note that you need to set background processing credentials to use this feature

Data stacking is a proactive hunting mechanism in HXTool. It will automatically create bulk acquisitions, run them against a specific host-set, download and post-process the results making them available for you to review on the analysis page.

There are several stacking jobs that you can choose from for Microsoft windows endpoints:

- Services md5
- Driver modules
- Driver signature
- Ports
- Process
- Scheduled task
- Master boot record
- Linux: Ports

To start a stacking job, select the job type you want to run and select the target host-set. Be careful to make sure there are no unsupported platforms within the host-set.

Data Stacking

Stack type: windows.Services MD5 Host set: 20191019_CA

This feature allows you to acquire artifacts from all the endpoints of a host set and do frequency analysis on captured data to find potential deviations among your endpoints. This feature is not available unless you have set the background processing credentials on the "Settings" page.

Please Note: This initial release of stacking only supports Microsoft Windows and Linux platforms, make sure your host-set does not contain any MacOS endpoints.

[Start stacking data](#)

ID	Created	Last updated	Stack Type	State	Profile ID	HX Bulk ID	Hostset ID	Completion rate	Actions
2	2017-10-23 13:03:56.874963	2017-10-23 13:04:44.048379	windows-services	RUNNING	a37aa32a-fff4-4921-9c14-ad1cc830254e	108	1052	<div style="width: 62%;"><div style="width: 62%;"></div></div> 62%	stop remove analyze

When initial results start coming in you can review them by clicking on the “analyze” button.

name	path	pathmd5sum	serviceDLL	serviceDLLmd5sum	hostname	count
wmiApSrv	C:\Windows\System32\wbem\WmiApSrv.exe	118135cd5ede6d152bdc93e1782f68c			victim-35c50103	1
xagt	C:\Program Files (x86)\FireEye\vaagt\vaagt.exe	f98d0d37c2445ee794439a112bdfc3b			AAAAAAAAAA01	1
ose	C:\Program Files\Common Files\Microsoft Shared\Source Engine\OSE.EXE	9d1099a6712e28f8acd5641e3a7ea6b			victim-PC	1
BALLOON	C:\Windows\System32\drivers\balloon.sys	aca8140b906f7b3ec34b05b63a55d28			victim-35c50103	1
fe_avk	C:\ProgramData\FireEye\vaagt\exts\MalwareProtection\isandbox\fe_avk.sys	e8fa723222848551af999aba96343c3			victim-PC	1
wuauerv	C:\Windows\System32\wuaueng.exe	54a47f65e09a77e61649109ca08866	C:\Windows\System32\wuaueng.dll	d9b0134913e5e007af82a418c503322	victim-35c50103	1
aspnet_state	C:\Windows\Microsoft.NET\Framework\v4.0.30319\aspnet_state.exe	778acaf0ca9d0fa51a5fb2435705			victim-PC	1
wuauerv	C:\Windows\System32\wuaueng.exe	54a47f65e09a77e61649109ca08866	C:\Windows\System32\wuaueng.dll	3026418a50c5b4761bfa8f32caeb7406	victim-PC	1
wlidsvc	C:\Program Files\Common Files\Microsoft Shared\Windows Live\WLIDSVC.EXE	5e7c10398475c4289847d15e129c207			victim-35c50103	1
AdobeFlashPlayerUpdateSvc	C:\Windows\System32\Macromed\Flash\FlashPlayerUpdateService.exe	7c58046aceaf10525077bd586a740e9f			victim-35c50103	1
clr_optimization_v4.0.30319_32	C:\Windows\Microsoft.NET\Framework\v4.0.30319\mscorsvw.exe	6d7c8a951af9a9835c029b3cbb88d333			victim-35c50103	1
xagt	C:\Program Files\FireEye\vaagt\vaagt.exe	e986d7ed928f1f89f25c9b815ed2a1a			victim-PC	1
wmiApSrv	C:\Windows\System32\wbem\WmiApSrv.exe	6e6b66517b048087dc1856cdf114c3f			victim-PC	1
osppsvc	C:\Program Files\Common Files\Microsoft Shared\OfficeSoftwareProtectionPlatform\OSPPSVC.EXE	358a9cca612c08a62d707d5d4ce1d8d7			victim-PC	1
fe_avk	C:\ProgramData\FireEye\vaagt\exts\MalwareProtection\isandbox\fe_avk.sys	da842652852ec422f98225631aa335			AAAAAAAAAA01	1
NetTopActivator	C:\Windows\Microsoft.NET\Framework\v4.0.30319\SMSSvcHost.exe	5243cfc2e7161c91c2b355240035b9e4			victim-35c50103	1

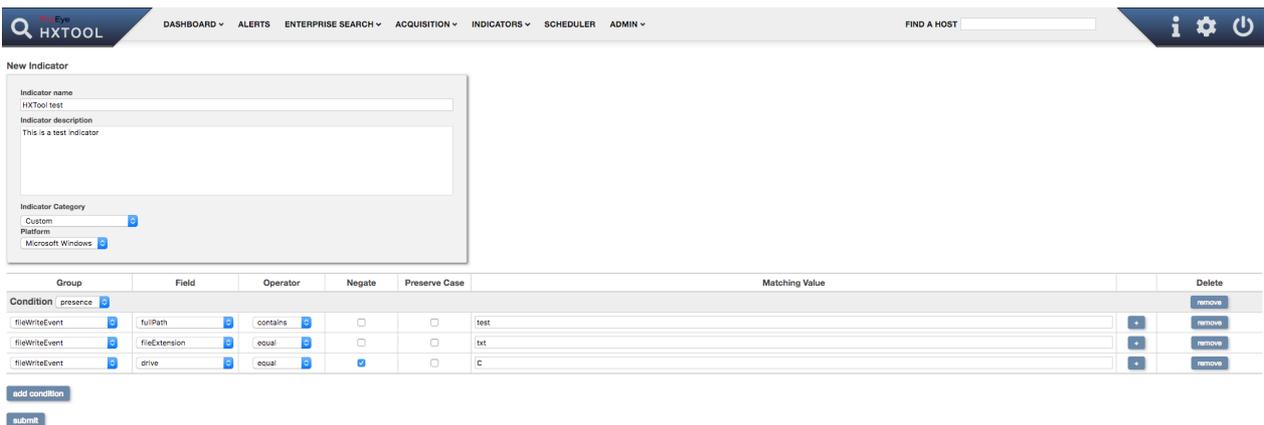
Items will be shown grouped and sorted in ascending mode based on count.

Indicators

Build

This feature allows you to build real-time indicators of compromise for FireEye HX. To build a new indicator:

1. Choose a name for the new indicator and type it into the Indicator name box
2. Provide a description for your indicator
3. Select the desired indicator category
4. Select the desired platform
5. Add a new endpoint security condition by clicking the “Add condition”.
6. Select the condition type in the dropdown menu (presence / execution)
7. Add elements to the condition by clicking on the “+” buttons
8. Select group, field, operator, negate status, preserve case status and enter a matching condition into each element
9. Click “submit” when you are done



HXTool: Build an indicator

Manage

This feature allows you to view, clone, edit, import and export indicators.

The table will show you all the visible indicators in FireEye HX. Clicking them will show you the conditions that make up the indicator.

To export indicators, click one or several indicators and then click the “Export selected” button. Indicators will be stored in the HXTOOL indicator format (JSON)

To import indicators, click the “Import indicators...” button, select a valid HXTOOL export file and then click “Import indicators”.

Export Selected Import Indicators Create new Indicator

Search:

Name	Active since	Created by	Category	Platforms	Conditions	Hosts	Action
<input type="checkbox"/> FireEye File test	2017-04-13 11:49:50	admin	Custom	win	1	3	edit view delete
<input type="checkbox"/> henriks	2017-04-25 11:38:52	apia	Custom	win osx	2	0	edit view delete
<input type="checkbox"/> Kaka IOC	2017-05-09 08:12:26	apia	Custom	win osx	1	0	edit view delete
<input type="checkbox"/> test_dns	2017-05-09 08:18:42	apia	Custom	win osx	2	0	edit view delete
<input type="checkbox"/> New User Created	2017-05-11 09:08:43	apia	Custom	win osx	1	0	edit view delete
<input type="checkbox"/> New User created	2017-05-11 09:21:43	apia	Custom	win osx	1	0	edit view delete

Manage indicators

Categories

This feature allows you to view and create new categories in FireEye Endpoint Security.

The table will show you a full list of all the available categories.

To add a new category, click the “Create category” button, supply a name for the new category and click “Create”. The new category will now be available for real-time indicators.

The screenshot shows the FireEye HXTool interface. At the top, there is a navigation bar with the HXTool logo and several menu items: DASHBOARD, ALERTS, ENTERPRISE SEARCH, ACQUISITION, INDICATORS, SCHEDULER, and ADMIN. Below the navigation bar, there is a button labeled 'Create new category'. Underneath, the 'Indicator categories' section is displayed as a table with three columns: Name, Retention policy, and Edit policy.

Name	Retention policy	Edit policy
3e4345gdfgdfg	manual	full
asdqewqeqweqweqweq	auto	delete
Custom	manual	full

Custom configuration channel

Custom configuration channel is a capability in FireEye Endpoint Security that allows administrators to customize the agent configuration file for agents that belong to a specific host-set. To use this feature, you need to build a host-set that contains the hosts you want to affect and also build/acquire a json configuration file with the configuration you wish to use.

The feature allows you to view, list and add configuration channels. For more information read up on the topic in the FireEye Endpoint Security administration guide.

New custom configuration channel

Name

Description

Priority

Host sets

Not Included	Included
All Hosts	
All Hosts	
EmptySet	
Henrik	
XAGENT1 and 3	
XAGENT24 only	
macs	
myset	
newset111	
recent hosts	

Configuration JSON

Custom configuration channels allows you to use separate configuration settings for host-sets. Refer to the HX API guide on how to use this functionality.

Custom configuration channels

Name	Description	Created	Created by	Priority
No data available in table				

Manage custom configuration channels

Logging out

To logout of HXTool simply click the blue power button on the top-right corner of your screen.



Chapter 6: License

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