

ThreatQuotient



FireEye Intelligence Reports Feed Implementation Guide

Version 1.2.0

Wednesday, June 3, 2020

ThreatQuotient

11400 Commerce Park Dr., Suite 200

Reston, VA 20191

Support

Email: support@threatq.com

Web: support.threatq.com

Phone: 703.574.9893

Warning and Disclaimer

ThreatQuotient, Inc. provides this document “as is”, without representation or warranty of any kind, express or implied, including without limitation any warranty concerning the accuracy, adequacy, or completeness of such information contained herein. ThreatQuotient, Inc. does not assume responsibility for the use or inability to use the software product as a result of providing this information.

Copyright © 2020 ThreatQuotient, Inc.

All rights reserved. This document and the software product it describes are licensed for use under a software license agreement. Reproduction or printing of this document is permitted in accordance with the license agreement.

Last Updated: Wednesday, June 3, 2020

Contents

FireEye Intelligence Reports Feed Implementation Guide	1
Warning and Disclaimer	2
Contents	3
Versioning	4
Introduction	5
Installation	6
Configuration	7
ThreatQ Mapping	8
FireEye Intelligence Reports (Feed)	8
FireEye Reports Index (Supplemental)	9
Report Download (Supplemental)	12
Known Issues/Limitations	73
Change Log	74

Versioning

- Current integration version: 1.1.0
- Supported on ThreatQ versions $\geq$ 4.34.0

Introduction

The FireEye Intelligence Reports integration allows a FireEye user to ingest threat intelligence reports from FireEye's API using the following endpoints:

- <https://api.isightpartners.com/help/settings>
- <https://api.isightpartners.com/report/index>
- <https://api.isightpartners.com/report/{reportID}>

Notes:

- Time constrained data fetching is possible.
- The time range specified should not exceed 90 days.
- API uses HTTP with HMAC.

Installation

Perform the following steps to install the feed:



The same steps can be used to upgrade the feed to a new version.

1. Log into <https://marketplace.threatq.com/>.
2. Locate and download the **FireEye Intelligence** feed file.
3. Navigate to your ThreatQ instance.
4. Click on the **Settings** icon and select **Incoming feeds**.
5. Click on the **Add New Feed** button.
6. Upload the feed file using one of the following methods:
 - Drag and drop the file into the dialog box
 - Select **Click to Browse** to locate the feed file on your local machine



ThreatQ will inform you if the feed already exists on the platform and will require user confirmation before proceeding. ThreatQ will also inform you if the new version of the feed contains changes to the user configuration. The new user configurations will overwrite the existing ones for the feed and will require user confirmation before proceeding.

The feed will be added to the **Commercial** tab for Incoming Feeds. You will still need to [configure and then enable the feed](#).

Configuration



ThreatQuotient does not issue API keys for third-party vendors. Contact the specific vendor to obtain API keys and other feed-related credentials.

To configure the feed:

1. Click on the **Settings** icon and select **Incoming Feeds**.
2. Locate the feed under the **Commercial** tab.
3. Click on the **Feed Settings** link for the feed.
4. Under the **Connection** tab, enter the following configuration parameters:

Parameter	Description
FireEye API Public Key	The FireEye account API Key.
FireEye API Private Key	The FireEye account Secret Key.

5. Click on **Save Changes**.
6. Click on the toggle switch to the left of the feed name to enable the feed.

ThreatQ Mapping

FireEye Intelligence Reports (Feed)

```
GET https://api.isightpartners.com/help/settings
```

For manual runs, the request will contain `startDate` and `endDate` parameters to determine which reports to return for the specified time range. If the time range exceeds 90 days, the `endDate` parameter will automatically be set to 90 days from the `startDate`. Scheduled runs will pull the latest intelligence reports from the past 24 hours.

For every run, this feed makes a call to the [API User Settings endpoint](#) to determine the user's `totalRemainingQueries`. If `totalRemainingQueries` is below 2,000 queries, the feed run will complete without making any additional API calls or ingesting any threat intelligence data to avoid having the user's account blacklisted. If the user's `totalRemainingQueries` is above the threshold, the feed will make a call to the [API Report Index endpoint](#) to retrieve a list of all of the report IDs for the specified time range. A subsequent API call is made to the [Report Download endpoint](#) to retrieve an intelligence report for each report ID in the list.

FireEye Reports Index (Supplemental)

GET <https://api.isightpartners.com/report/index>

JSON response sample:

```
{
  "success": true,
  "message": [
    {
      "reportId": "20-00004785",
      "title": "Adobe Photoshop 2020 21.1 Out-of-Bounds Write Vulnerability",
      "ThreatScape": [
        "Vulnerability"
      ],
      "audience": [
        "Vulnerability"
      ],
      "publishDate": 1584565920,
      "version": "1",
      "version1PublishDate": 1584565920,
      "intelligenceType": "vulnerability",
    }
  ]
}
```

```
    "reportType": "Vulnerability Report",
    "reportLink": "https://api.isightpartners.com/report/20-00004785",
    "webLink": "https://intelligence.fireeye.com/reports/20-00004785"
  },
  {
    "reportId": "19-00017683",
    "title": "Oracle Java SE 13 2D Input Validation Vulnerability",
    "ThreatScape": [
      "Vulnerability"
    ],
    "audience": [
      "Vulnerability"
    ],
    "publishDate": 1584564780,
    "version": "25",
    "version1PublishDate": 1571231760,
    "intelligenceType": "vulnerability",
    "reportType": "Vulnerability Report",
    "reportLink": "https://api.isightpartners.com/report/19-00017683",
    "webLink": "https://intelligence.fireeye.com/reports/19-00017683"
  },

```

```
{
  "reportId": "19-00017679",
  "title": "Oracle Java SE 13 Serialization Uncaught Exception Vulnerability",
  "ThreatScape": [
    "Vulnerability"
  ],
  "audience": [
    "Vulnerability"
  ],
  "publishDate": 1584564780,
  "version": "42",
  "version1PublishDate": 1571231700,
  "intelligenceType": "vulnerability",
  "reportType": "Vulnerability Report",
  "reportLink": "https://api.isightpartners.com/report/19-00017679",
  "webLink": "https://intelligence.fireeye.com/reports/19-00017679"
}
]
```

Report Download (Supplemental)

GET <https://api.isightpartners.com/report/{reportID}>

JSON response sample:

```
{
  "success": true,
  "message": {
    "report": {
      "reportId": "20-00005120",
      "title": "Indicator Report: Smoke Loader Activity Report (Mar 23, 2020)",
      "execSummary": "<p>Smoke Loader (aka Smoke Bot or Dofail) is a modular download
serve a range of malicious purposes for a cyber crime actor. Smoke Loader is widely available on
underground Russian forums by the user \"SmokeLdr\" and has been in distribution since as early
as June 2011. Smoke Loader developers steadily continue to add functionality to the bot, typ-
ically in the form of new modules or plugins. The majority of these modules are focused on steal-
ing information and credentials from infected bots, but there are also plugins designed for
hidden surveillance, loading additional malware and distributed denial-of-service (DDoS) attack-
s.</p>",
      "ThreatScape": {
        "product": [
```

```
        "ThreatScape Cyber Crime"
    ],
    },
    "audience": [
        "Operational"
    ],
    "publishDate": "March 24, 2020 05:44:00 AM",
    "version": "1",
    "reportType": "Indicator Report",
    "analysis": "<div>Smoke Loader builds are offered at varying degrees of function
```

price. Malicious actors can custom-tailor their own Smoke Loader bot with the features they desire most. Since the malware loads all of the plugins dynamically in runtime, the size of the first stage binary remains very small (~8-12kb in size). In many cases over 1MB worth of modules are downloaded and injected into running processes including Rootkit components, Form Grabbers, Keyloggers and more. One of the most recent modules available to purchase by Smoke Loader users is the SOCKS5 Backconnect module, which allows an actor to use an infected node as a proxy for additional malicious activity.</div>\n<div>Smoke Loader indicator reports deliver the metadata surrounding the files that FireEye Intelligence has observed being downloaded by the Smoke Loader bot. The URLs found below represent live Smoke Loader command and control (C&C) servers at the time of the report.</div>\n<div>\n<p>Related Reporting:</p>\n\n15-00014658– Smoke

```
Loader Botnet: Observed Underground Activity and Malware Behavior, Capabilities and Com-
munications (Dec. 23, 2015)</li>\n<li><a href-
f=\"https://mysight.isightpartners.com/report/full/Intel-1063088\">Intel-1063088</a> &ndash;
Smoke DDoS Integrated into Smoke Loader as a Module (March 20, 2014)</li>\n<li><a href-
f=\"https://mysight.isightpartners.com/report/full/13-24500\">13-24500</a> &ndash; Smoke Loader
DDoS Analysis (Feb. 27, 2013)</li>\n<li><a href-
f=\"https://mysight.isightpartners.com/report/full/11-17486\">11-17486</a> &ndash; Smoke Loader
Downloader Trojan (Nov. 7, 2011)</li>\n</ul>\n</div>",
    "previousVersionSection": {
      "previousVersion": [
        {
          "versionNumber": "1.0",
          "title": "Indicator Report: Smoke Loader Activity Report (Mar 23, 2020)",
          "publishDate": "March 24, 2020 05:44:00 AM"
        }
      ]
    },
    "version1PublishDate": "March 24, 2020 05:44:00 AM",
    "tagSection": {
      "main": {
        "targetGeographies": {
```

```
        "targetGeography": [  
            "Mexico",  
            "Peru",  
            "Chile",  
            "Colombia"  
        ],  
    },  
    "intendedEffects": {  
        "intendedEffect": [  
            "Disruption",  
            "Identity Theft",  
            "IP or Business Information Theft",  
            "Degradation"  
        ],  
    },  
    "affectedSystems": {  
        "affectedSystem": [  
            "Users/Application and Software"  
        ],  
    },  
    "ttps": {
```

```
        "ttp": [
            "Malware Propagation and Deployment",
            "Enabling Infrastructures",
            "Distributed Denial-of-Service (DDoS) Attack",
            "Domain Registration/DNS Abuse and Manipulation"
        ],
        "malwareFamilies": {
            "malwareFamily": [
                {
                    "id": "95223862-dbf0-4ad9-b2f0-358c6013f227",
                    "name": "smokeloader"
                }
            ]
        },
        "networks": {
            "network": [
                {
                    "ip": "185.35.137.147",
                    "identifier": "Attacker",
```

```
        "networkType": "network",
        "malwareFamily": "smokeloader",
        "malwareFamilyId": "95223862-dbf0-4ad9-b2f0-358c6013f227"
    },
    {
        "domain": "shopandpop.su",
        "identifier": "Attacker",
        "networkType": "network",
        "malwareFamily": "smokeloader",
        "malwareFamilyId": "95223862-dbf0-4ad9-b2f0-358c6013f227"
    },
    {
        "identifier": "Attacker",
        "networkType": "url",
        "url": "http://185.35.137.147/mlp/",
        "malwareFamily": "smokeloader",
        "malwareFamilyId": "95223862-dbf0-4ad9-b2f0-358c6013f227"
    },
    {
        "identifier": "Attacker",
        "networkType": "url",
```

```
        "url": "http://chuckozeas.com/css/",
        "malwareFamily": "smokeloader",
        "malwareFamilyId": "95223862-dbf0-4ad9-b2f0-358c6013f227"
    }
]
},
"files": {
    "file": [
        {
            "identifier": "Related",
            "type": "fileType",
            "md5": "01d0862ab2b38b3395d255dc34b4a476",
            "malwareFamily": "smokeloader",
            "malwareFamilyId": "95223862-dbf0-4ad9-b2f0-358c6013f227"
        },
        {
            "identifier": "Related",
            "type": "fileType",
            "md5": "06037d2fdb18ab0ad7e9c6ab0b90f6f2",
            "malwareFamily": "smokeloader",
            "malwareFamilyId": "95223862-dbf0-4ad9-b2f0-358c6013f227"
        }
    ]
}
```

```
        },
        {
            "identifier": "Related",
            "type": "fileType",
            "md5": "0d8106afb39f7f49342c68f1e09e6f24",
            "malwareFamily": "smokeloader",
            "malwareFamilyId": "95223862-dbf0-4ad9-b2f0-358c6013f227"
        }
    ]
}

},
"riskRating": "LOW",
"copyright": "© Copyright 2020 FireEye, Inc. All rights reserved.",
"intelligenceType": "malware"
}

},
"user_name": "ThreatQAPI2Dev"
}
```

ThreatQ provides the following default mapping for this feed:

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
.message.report.title	report.value	N/A	.message.report.publishDate	Apache Thrift 0.12.0 Infinite Loop Vulnerability	N/A
.message.report.overview	report.-description / indicator.-description / adversary.-description / malware.-description	N/A	N/A	An authentication issues vulnerability exists within IBM WebSphere eXtreme Scale 8.6 and earlier that, when exploited, allows an attacker to remotely conduct brute force attacks and bypass password security restrictions. Exploit code is not publicly available. Mitigation options include a vendor fix. Exploitation Rating: No Known. iSIGHT Partners considers this a Low-risk vulnerability due to the limited impact of exploitation. Customers with specific questions regarding this vulnerability can contact the Vulnerability & Exploitation Team at ana-	If present, .message.report.-threatDetail is appended to .message.report.overview and included in the Description.

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
				lystaccess@isightpartners.com.	
.message.report.publishDate	report.attribute	Published At	N/A	March 24, 2020 05:44:00 AM	N/A
.message.report.ThreatScape.product[]	report.attribute	ThreatScape	.message.report.publishDate	ThreatScape Cyber Crime	N/A
.message.report.execSummary	report.attribute	Executive Summary	.message.report.publishDate	Smoke Loader (aka Smoke Bot or Dofail) is a modular downloader that can serve a range of malicious purposes for a cyber crime actor. Smoke Loader is widely available on underground Russian forums by the user "SmokeLdr" and has been in distribution since as early as June 2011. Smoke Loader developers steadily continue to add functionality to the bot, typically in the form of new modules or plu-	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
				gins. The majority of these modules are focused on stealing information and credentials from infected bots, but there are also plugins designed for hidden surveillance, loading additional malware and distributed denial-of-service (DDoS) attacks.	
.message.report.execSummary	attack_pattern.value	N/A	N/A	A spear-phishing campaign targeting U.S.-based academics is leveraging a novel technique to deliver a malicious payload (probably BEACON) via an archive hosted on GitHub. The incident highlights the risk to academics and global organizations with relationships or interests in Central Asia, especially Uyghur communities. Please see the Technical Annex for YARA rules and suggested mitigations and detections (MITRE ATT&CK T1002, T1027, T1032, T1035, T1050, T1071, T1038, and T1056).	If <code>.message.report.execSummary</code> contains any MITRE ATT&CK attack pattern IDs for MITRE ATT&CK attack patterns that already exist in the ThreatQ system, the associated attack patterns are related to

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
					the report.
.message.report.audience[]	report.attribute	Audience	.message.report.publishDate	Operational	N/A
.message.report.version	report.attribute	Audience	.message.report.publishDate	1	N/A
.message.report.reportType	report.attribute	Report Type	.message.report.publishDate	Current Intelligence	N/A
.message.report.reportId	report.attribute	Report ID	.message.report.publishDate	19-00019601	N/A
(see Notes column)	report.attribute	Report	.mes-	https://api.isightpartners.com/report/19-00019601	API URL of the report,

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
	tribute	Link	sage.re- port.publishDate		generated from the Report ID
(see Notes column)	report.at- tribute	Web Link	.mes- sage.re- port.publishDate	https://intelligence.fireeye.com/reports/19-00019601	Web URL of the report, generated from the Report ID
.mes- sage.re- port.- previousVersionSection.previousVersion [].versionNumber	report.at- tribute	Pre- vious Version Num- ber	.mes- sage.re- port.publishDate	1.0	If multiple pre- viousVersion objects exist, only the most recent pre- viousVersion object is reported.
.mes- sage.re- port.- previousVersionSection.previousVersion	report.at- tribute	Pre- vious Version Title	.mes- sage.re- port.publishDate	Indicator Report: Smoke Loader Activity Report (Mar 23, 2020)	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
[].title					
.message.report.previousVersionSection.previousVersion [].publishDate	report.attribute	Previous Version Date	.message.report.publishDate	March 24, 2020 05:44:00 AM	N/A
.message.report.sourceSection.source [].urls.url[]	report.attribute / indicator.attribute	Source URL	.message.report.publishDate	https://www-304.ibm.com/support/docview.wss?uid=swg21966045	N/A
.message.report.technologySection.technologies[].cpe	report.attribute / indicator.attribute	CPE	.message.report.publishDate	cpe:2.3:a:ibm:websphere_extreme_scale:8.5.0:.....*	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
	tribute / adversary.a- ttribute / mal- ware.at- tribute				
.message.report.vulnerableProducts	report.at- tribute / indic- ator.at- tribute / adversary.a- ttribute / mal- ware.at- tribute	Vul- nerable Product- s	.mes- sage.re- port.publishDate	IBM reports that WebSphere eXtreme Scale ver- sions 7.1.0, 7.1.1, 8.5 and 8.6 are vulnerable.	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
.message.report.mitigations.mitigation[]	report.attribute / indicator.attribute / adversary.attribute / malware.attribute	Mitigation	.message.report.publishDate	Patch	N/A
.message.report.mitigationDetails	report.attribute / indicator.attribute / adversary.a-	Mitigation Details	.message.report.publishDate	Aside from the available vendor fix, iSIGHT Partners is unaware of any alternate mitigation procedures for this vulnerability.	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
	ttribute / mal-ware.at-tribute				
.mes-sage.re-port.vulnerabilitytypes.vulnerabilityType	report.at-tribute / indic-ator.at-tribute / adversary.a-ttribute / mal-ware.at-tribute	Vul-ner-ability Type	.mes-sage.re-port.publishDate	Authentication Issues	N/A
.message.report.vendorFix	report.at-tribute /	Vendor Fix	.mes-sage.re-	IBM released a fix that reportedly addresses this vul-nerability. The fix, or information on obtaining the fix,	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
	indicator.attribute / adversary.attribute / malware.attribute		port.publishDate	can be retrieved from the following location:	
.message.report.vendorFixUrls.VendorFixUrl[].name	report.attribute / indicator.attribute / adversary.attribute / malware.attribute	Vendor Fix Name	.message.report.publishDate	IBM WebSphere eXtreme Scale (1966045) Security Update Information	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
	ware.attribute				
.message.report.vendorFixUrls.VendorFixUrl[] .url	report.attribute / indicator.attribute / adversary.attribute / malware.attribute	Vendor Fix URL	.message.report.publishDate	https://www-304.ibm.com/support/docview.wss?uid=swg21966045	N/A
.message.report.confidentialityImpact	report.attribute / indicator.attribute	Confidentiality Impact	.message.report.publishDate	C:N	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
	tribute / adversary.a- ttribute / mal- ware.at- tribute				
.message.report.accessVector	report.at- tribute / indic- ator.at- tribute / adversary.a- ttribute / mal- ware.at- tribute	Access Vector	.mes- sage.re- port.publishDate	AV:N	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
.message.report.accessComplexity	report.attribute / indicator.attribute / adversary.attribute / malware.attribute	Access Complexity	.message.report.publishDate	AC:L	N/A
.message.report.authentication	report.attribute / indicator.attribute / adversary.a-	Authentication	.message.report.publishDate	Au:N	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
	tribute / malware.tribute				
.message.report.integrityImpact	report.tribute / indicator.tribute / adversary.tribute / malware.tribute	Integrity Impact	.message.report.publishDate	I:P	N/A
.message.report.availabilityImpact	report.tribute /	Availability	.message.re-	A:N	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
	indicator.attribute / adversary.attribute / malware.attribute	Impact	port.publishDate		
.message.report.exploitability	report.attribute / indicator.attribute / adversary.attribute / mal-	Exploitability	.message.report.publishDate	E:U	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
	ware.at-tribute				
.message.report.remediationLevel	report.at-tribute / indic-ator.at-tribute / adversary.a-ttribute / mal-ware.at-tribute	Remedi-ation Level	.mes-sage.re-port.publishDate	RL:OF	N/A
.message.report.reportConfidence	report.at-tribute / indic-ator.at-	Report Con-fidence	.mes-sage.re-port.publishDate	RC:C	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
	tribute / adversary.a- ttribute / mal- ware.at- tribute				
.message.report.cvssBaseScore	report.at- tribute / indic- ator.at- tribute / adversary.a- ttribute / mal- ware.at- tribute	CVSS Base Score	.mes- sage.re- port.publishDate	5	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
.message.report.cvssBaseVector	report.attribute / indicator.attribute / adversary.attribute / malware.attribute	CVSS Base Vector	.message.report.publishDate	(AC:L/A:N/Au:N/I:P/C:N/AV:N)	N/A
.message.report.cvssBaseScoreLink	report.attribute / indicator.attribute / adversary.a-	CVSS Base Score Link	.message.report.publishDate	(AC:L/A:N/Au:N/I:P/C:N/AV:N)	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
	tribute / malware.attribute				
.message.report.cvssTemporalScore	report.attribute / indicator.attribute / adversary.attribute / malware.attribute	CVSS Temporal Score	.message.report.publishDate	3.7	N/A
.message.report.cvssTemporalVector	report.attribute /	CVSS Temp-	.message.re-	(RL:OF/RC:C/E:U)	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
	indicator.attribute / adversary.attribute / malware.attribute	Temporal Vector	port.publishDate		
.message.report.cvssTemporalScoreLink	report.attribute / indicator.attribute / adversary.attribute / malware.attribute	CVSS Temporal Score Link	.message.report.publishDate	(AC:L/A:N/Au:N/I:P/C:N/AV:N/RL:OF/RC:C/E:U)	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
	ware.at-tribute				
.message.report.riskRating	report.at-tribute / indicator.at-tribute / adversary.a-ttribute / mal-ware.at-tribute	Risk Rating	.mes-sage.re-port.publishDate	LOW	N/A
.message.report.exploitRating	report.at-tribute / indicator.at-	Exploit Rating	.mes-sage.re-port.publishDate	No Known	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
	tribute / adversary.attribute / malware.attribute				
.message.report.cvelDs.cvelD[]	Value	Indicator	.message.report.publishDate	CVE-2015-2030	Indicator type is CVE . Indicator objects are related to the primary Report object.
.message.report.dateOfDisclosure	report.attribute / indicator.attribute / adversary.a-	Date Of Disclosure	.message.report.publishDate	September 07, 2015 01:00:00 AM	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
	tribute / malware.tribute				
.message.report.attackingEase	report.tribute / indicator.tribute / adversary.tribute / malware.tribute	Attacking Ease	.message.report.publishDate	Easy	N/A
.message.report.exploitationConsequence	report.tribute /	Exploitation	.message.re-	Security Bypass	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
	indicator.attribute / adversary.attribute / malware.attribute	Consequence	port.publishDate		
.message.report.exploitationVectors.exploitationVector []	report.attribute / indicator.attribute / adversary.attribute / malware	Exploitation Vector	.message.report.publishDate	General Network Connectivity	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
	ware.attribute				
.message.report.exploitationConsequence	report.attribute / indicator.attribute / adversary.attribute / malware.attribute	Exploitation Consequence	.message.report.publishDate	Security Bypass	N/A
.message.report.exploitation.zeroDay	report.attribute / indicator.attribute	Exploitation: Zero Day	.message.report.publishDate	false	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
	tribute / adversary.a- ttribute / mal- ware.at- tribute				
.message.report.exploitation.inTheWild	report.at- tribute / indic- ator.at- tribute / adversary.a- ttribute / mal- ware.at- tribute	Exploit- ation: In The Wild	.mes- sage.re- port.publishDate	false	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
.message.report.copyright	report.attribute / indicator.attribute / adversary.attribute / malware.attribute	Copyright	.message.report.publishDate	Copyright 2016 FireEye, Inc. All rights reserved.	N/A
.message.report.intelligenceType	report.attribute / indicator.attribute / adversary.a-	Intelligence Type	.message.report.publishDate	malware	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
	tribute / malware.tribute				
.message.report.tagSection.main.languages.language[]	report.tribute / indicator.tribute / adversary.attribute / malware.tribute	Language	.message.report.publishDate	English	N/A
.message.re-	report.tribute /	Affected	.message.re-	Consumer Goods >> Automobiles & Parts >> Automobile & Parts >> Automobiles	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
port.tagSection.- main.affectedIndustries.affectedIndustry[]	indicator.attribute / adversary.attribute / malware.attribute	Industry	port.publishDate		
.message.report.tagSection.main.affectedSystems.affectedSystem []	report.attribute / indicator.attribute / adversary.attribute / mal-	Affected System	.message.report.publishDate	Enterprise System >> Database Layer	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
	ware.attribute				
.message.report.tagSection.main.impacts.impact[]	report.attribute / indicator.attribute / adversary.attribute / malware.attribute	Impact	.message.report.publishDate	Data Breach or Compromise	N/A
.message.report.tagSection.main.intents.intent[]	report.attribute / indicator.attribute	Intent	.message.report.publishDate	Disruption	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
	tribute / adversary.attribute / malware.attribute				
.message-report.tagSection.main.motivations.motivation[]	report.attribute / indicator.attribute / adversary.attribute / malware.attribute	Motivation	.message-report.publishDate	Ideological >> Religious	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
.message.report.tagSection.-main.sourceGeographies.sourceGeography[]	report.attribute / indicator.attribute / adversary.attribute / malware.attribute	Source Geography	.message.report.publishDate	Saudi Arabia	N/A
.message.report.tagSection.-main.targetGeographies.targetGeography[]	report.attribute / indicator.attribute / adversary.a-	Target Geography	.message.report.publishDate	Global	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
	tribute / malware.tribute				
.message.report.tagSection.-main.targetInformations.targetInformation[]	report.tribute / indicator.tribute / adversary.attribute / malware.tribute	Target Information	.message.report.publishDate	Information Assets >> Email Lists / Archives	N/A
.message.report.tagSection.main.ttps.ttp[]	report.tribute /	TTP	.message.re-	Social Engineering	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
	indicator.attribute / adversary.attribute / malware.attribute		port.publishDate		
.message.report.tagSection.main.threatSources.threatSource[]	report.attribute / indicator.attribute / adversary.attribute / malware.attribute	Threat Source	.message.report.publishDate	Hackivist	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
	ware.attribute				
.message.report.tagSection.-main.operatingSystems.operatingSystem[]	report.attribute / indicator.attribute / adversary.attribute / malware.attribute	Operating System	.message.report.publishDate	Linux	N/A
.message.report.tagSection.main.roles.role[]	report.attribute / indicator.attribute	Role	.message.report.publishDate	Backdoor	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
	tribute / adversary.attribute / malware.attribute				
.message-report.tagSection.-main.malwareCapabilities.malwareCapability[]	report.attribute / indicator.attribute / adversary.attribute / malware.attribute	Malware Capability	.message-report.publishDate	Anti-forensic capabilities	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
.message.report.tagSection.main.detectionNames.detectionName[]	report.attribute / indicator.attribute / adversary.attribute / malware.attribute	Detection Name	.message.report.publishDate	Anti-AV capabilities	N/A
.message.report.threatDescription	report.attribute / malware.attribute	Threat Description	.message.report.publishDate	ZXSHELL is a backdoor that can be downloaded from the internet, particularly Chinese hacker websites. The backdoor has features including launching port scans, running a keylogger, capturing screen shots, setting up an HTTP or SOCKS proxy, launching a reverse command shell, causing SYN floods,	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
				and transferring/deleting/running files. The publicly available version of the tool provides a graphical user interface that attackers can use to interact with victim backdoors. The language used for the bundled ZXHELL documentation is Simplified Chinese.	
.message.report.abstract	report.attribute / indicator.attribute / adversary.attribute / malware.attribute	Abstract	.message.report.publishDate	Salinity is a venerable family of malicious software that allows for persistent remote control over a Windows machine. The malware has features to persist on victim systems, evade anti-virus software and spread to additional machines. The malware's primary function is to act as a flexible and resilient platform for other actors in the underground economy to install malware on Salinity-infected machines, including credential theft malware, fake anti-virus, spam tools and ransomware.	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
.message.report.analysis	report.attribute / indicator.attribute / adversary.attribute / malware.attribute	Analysis	.message.report.publishDate	Many similarities between TrickBot and the now-defunct https://mysight.isight-partners.com/report/full/15-00000436 banking Trojan exist, including web-inject types, code structure, and check-in types for command and control communications. Like Dyre, TrickBot also uses compromised infrastructure for some of the communications. Although we believe that the two projects (Dyre and TrickBot) are related, the code for TrickBot has been completely rewritten so we do not believe this is a new variant, but instead its own code family. The TrickBot indicators in the report include controller URLs and nodes. These nodes or controllers are used for command and control communications, downloads, and configuration downloads (including injects). IOCs marked as "Attacker" are purely malicious. Any IOC marked as	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
				"Compromised" has been malicious at one point but may have been remediated. IP addresses marked as "Related" often include controller nodes hosted on legitimate infrastructure, possibly containing hundreds or thousands of additional hosts.	
.message.report.threatDetail	report.attribute / indicator.attribute / adversary.attribute / malware.attribute	Threat Detail	.message.report.publishDate	On March 7, 2020, on the popular Russian-language forum exploit.in, "Buffer" advertised access allegedly to a major U.S. domain registrar. According to the actor, the company operates registries for the top-level domains (TLDs) lol, mom, sexy, link, click, help, photo, and more. The actor also claims to have found domain names containing the words "casino" and "crypto." The starting bid is listed at \$50,000 USD, with \$1,000 USD increments, and \$100,000 USD to purchase immediately. Buffer joined the forum on July 2, 2018, has 96 posts, and 46 points of	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
				reputation. The actor was recently observed advertising data from a UK operator (20-00003545). Reliability: C Credibility: 3 Threat Activity Alerts relay immediate observations of notable activities within the cyber threat environment. Accompanying reliability (A-F) and credibility (1-6) scores are based on the NATO System and reflect source confidence. The scoring is based on various factors, such as historical activities, the strength of technical findings, and reputation of the forum or actor. Unless otherwise specified, we have not verified claims by malicious actors or conducted in-depth analysis of malware or malicious infrastructure. Any indicators of compromise (IOCs) provided may contain only minimal context. Activities continue to be monitored and may result in additional alerts or reports if anything significant occurs, or the issue warrants further	

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
.message.report.tagSection.main.actors.actor[].name	adversary.-name	N/A	.message.report.publishDate	APT28	Adversary objects are related to the primary Report object.
.message.report.tagSection.main.actors.actor[].id	adversary.attribute	ID	.message.report.publishDate	685c8fdd-2ab4-4709-b7fc-29ce2dde4695	N/A
.message.report.tagSection.main.malwareFamilies.malwareFamily[].name	malware.value	N/A	.message.report.publishDate	trickbot	Malware objects are related to the primary Report object and all other Adversary, Malware, and Indicator objects parsed from the Report object.
.mes-	mal-	ID	.mes-	ab06ecb9-cd4b-4232-852c-21daa187b8e7	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
sage.report.tagSection.main.malwareFamilies.malwareFamily[].id	ware.attribute		sage.report.publishDate		
.message.report.tagSection.main.malwareFamilies.malwareFamily[].aliases[]	malware.attribute	Alias	.message.report.publishDate	Silver128	N/A
.message.report.relations.actors[].name	adversary.-name	N/A	.message.report.publishDate	Tailgater Team	Adversary objects are related to the primary Report object.
.message.report.relations.actors[].id	adversary.attribute	ID	.message.report.publishDate	8c31fdeb-22e2-4e6b-99a7-cfb87392537b	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
.message.report.relations.malwareFamilies [].name	malware.value	N/A	.message.report.publishDate	ZXSHELL	Malware objects are related to the primary Report object and all other Adversary, Malware, and Indicator objects parsed from the Report object.
.message.report.relations.malwareFamilies [].id	malware.attribute	ID	.message.report.publishDate	1b2dfdbe-c04e-411a-a46e-517e1fcabf72	N/A
.message.report.relations.malwareFamilies [].aliases[]	malware.attribute	Alias	.message.report.publishDate	Viper	N/A
.message.report.tagSection.networks.network	indicator.value	N/A	.message.re-	114.8.133.71	Indicator type is IP Address or IPv6

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
[].ip			port.publishDate		Address depending on the value of ip. Indicator objects are related to the primary Report object.
.message.report.tagSection.networks.network [].domain	indicator.value	N/A	.message.report.publishDate	comune.villasantostefano.fr.it	Indicator type is FQDN. Indicator objects are related to the primary Report object.
.message.report.tagSection.networks.network [].asn	indicator.value	N/A	.message.report.publishDate	AS24940	Indicator type is ASN. Indicator objects are related to the primary Report object.
.message.report.tagSection.networks.network	indicator.value	N/A	.message.re-	https://114.8.133.71:449	Indicator type is URL. Indicator objects are

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
[].url			port.publishDate		related to the primary Report object.
.message.report.tagSection.networks.network [].cidr	indicator.value	N/A	.message.report.publishDate	1.179.132.0/24	Indicator type is CIDR Block . Indicator objects are related to the primary Report object.
.message.report.tagSection.networks.network [].identifier	indicator.attribute	Identifier	.message.report.publishDate	Compromised	N/A
.message.report.tagSection.networks.network [].domainTimeOfLookup	indicator.attribute	Domain Time of Lookup	.message.report.publishDate	1371573858	Value represented as epoch date time.
.message.report.tagSection.networks.network	indicator.attribute	Malware	.message.re-	smokeloader	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
[].malwareFamily	tribute	Family	port.publishDate		
.message.report.tagSection.networks.network [].malwareFamilyId	indicator.attribute	Malware Family ID	.message.report.publishDate	95223862-dbf0-4ad9-b2f0-358c6013f227	N/A
.message.report.tagSection.networks.network [].networkType	indicator.attribute	Network Type	.message.report.publishDate	url	N/A
.message.report.tagSection.networks.network [].port	indicator.attribute	Port Number	.message.report.publishDate	8834	N/A
.message.report.tagSection.emails.email [].senderAddress	indicator.value	N/A	.message.report.publishDate	celestino@cdmferri.it	Indicator type is Email Address. Indicator objects are related to the primary

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
					Report object.
.message.report.tagSection.emails.email [].sourceDomain	indicator.value	N/A	.message.report.publishDate	samyongonc.com	Indicator type is <code>FQDN</code> . Indicator objects are related to the primary Report object.
.message.report.tagSection.emails.email [].sourceIp	indicator.value	N/A	.message.report.publishDate	184.105.137.110	Indicator type is <code>IP Address</code> or <code>IPv6 Address</code> depending on the value of <code>sourceIp</code> . Indicator objects are related to the primary Report object.
.message.report.tagSection.emails.email [].subject	indicator.value	N/A	.message.re-	I need more bees	Indicator type is <code>Email Subject</code> .

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
			port.publishDate		Indicator objects are related to the primary Report object.
.message.report.tagSection.emails.email [].recipient	indicator.value	N/A	.message.report.publishDate	yeh@cwbgov.tw	Indicator type is <u>Email Address</u> . Indicator objects are related to the primary Report object.
.message.report.tagSection.emails.email [].emailIdentifier	indicator.attribute	Email Identifier	.message.report.publishDate	Attacker	N/A
.message.report.tagSection.emails.email [].senderName	indicator.attribute	Sender Name	.message.report.publishDate	llssddzz	N/A
.message.report.tagSection.emails.email	indicator	Language	.message	English	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
[].language	ator.attribute	guage	sage.report.publishDate		
.message.report.tagSection.emails.email [].malwareFamily	indicator.attribute	Malware Family	.message.report.publishDate	smokeloader	N/A
.message.report.tagSection.emails.email [].malwareFamilyId	indicator.attribute	Malware Family ID	.message.report.publishDate	95223862-dbf0-4ad9-b2f0-358c6013f227	N/A
.message.report.tagSection.files.file [].fileName	indicator.value	N/A	.message.report.publishDate	info.exe	Indicator type is <code>File-name</code> . Indicator objects are related to the primary Report object.
.message.report.tagSection.files.file	indic-	N/A	.mes-	1536:RFFgWOBn33zBLLCJ3qp-	Indicator type is

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
[].fuzzyHash	ator.value		sage.re- port.publishDate	gAXb84sXyA7oi0kIOEI6toKtdw:9NEJILLzLb4I6toKtdw	Fuzzy Hash. Indicator objects are related to the primary Report object.
.message.report.tagSection.files.file[].sha1	indicator.value	N/A	.message.re- port.publishDate	2f2fcfc8f5f23e3e5d7487b656dd9c6c23c79c22	Indicator type is SHA-1. Indicator objects are related to the primary Report object.
.message.report.tagSection.files.file [].sha256	indicator.value	N/A	.message.re- port.publishDate	2b09643594918540786500443a68e08d0c272c956f5- 091cf319efe430255002c	Indicator type is SHA-256. Indicator objects are related to the primary Report object
.message.report.tagSection.files.file[].md5	indicator.value	N/A	.message.re- port.publishDate	f691231016739d8bf1fb0020b98f06b5	Indicator type is MD5. Indicator objects are related to the primary

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
					Report object
.message.report.tagSection.files.file[].description	indicator.attribute	File Description	N/A	Keylogger	N/A
.message.report.tagSection.files.file[].fileSize	indicator.attribute	File Size	.message.report.publishDate	572054	N/A
.message.report.tagSection.files.file[].fileIdentifier	indicator.attribute	File Identifier	.message.report.publishDate	Attacker	N/A
.message.report.tagSection.files.file[].fileType	indicator.attribute	File Type	.message.report.publishDate	PDF document	N/A
.message.report.tagSection.files.file[].mal-	indic-	Mal-	.mes-	trickbot	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
wareFamily	ator.tribute	ware Family	sage.report.publishDate		
.message.report.tagSection.files.file[].malwareFamilyId	indicator.tribute	Malware Family ID	.message.report.publishDate	6ff93884-2004-4696-84e3-3d21e1e918ff	N/A

See the FireEye API and SDK documentation for a [full list of valid values of attributes](#) such as targeted geographies and affected industries.

Known Issues/Limitations

1. It is possible for a user to specify a time range that does not include any intelligence reports. In this case, the feed run will complete, but no threat intelligence will be ingested.
2. MITRE ATT&CK attack patterns must have already been ingested by a previous run of the MITRE ATT&CK feeds in order for MITRE ATT&CK attack pattern extracted from a report's Executive Summary to be related to the report. MITRE ATT&CK attack patterns are ingested from the following feeds:
 - MITRE Enterprise ATT&CK
 - MITRE Mobile ATT&CK
 - MITRE PRE-ATT&CK

Change Log

- **Version 1.2.0**
 - Added support for MITRE ATT&CK Attack Patterns.
- **Version 1.1.0**
 - Fixed possible bug with reports from 2013 and back.
 - Fixed issue with not all HTML tags being stripped from description content.
 - Added new Attributes - Web Link, Report Link, & Report ID.
- **Version 1.0.0**
 - Initial Release