

ThreatQuotient



FireEye Intelligence Reports Feed Implementation Guide

Version 1.3.0

Tuesday, June 16, 2020

ThreatQuotient

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Versioning

- Current integration version: 1.3.0
- 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.
Ingest CPEs	When checked, the feed will ingest CPEs.  This parameter is unchecked by default.

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.-	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 con-	The object description is formatted from <code>.message.report.overview</code> , as well as <code>.message.report.reportType</code> , <code>.message.re-</code>

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
	description			tact the Vulnerability & Exploitation Team at analystaccess@isightpartners.com.	<pre> port.vul- nerabilityTypes, .mes- sage.re- port.analysis, .mes- sage.re- port.threatDetail, .mes- sage.re- port.- threatDescription, .mes- sage.re- port.vendorFix, .mes- sage.re- </pre>

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
					port.vul- nerableProducts, and .mes- sage.re- port.mit- igationDetails (when these fields are present).
.message.report.publishDate	report.at- tribute	Pub- lished At	N/A	March 24, 2020 05:44:00 AM	N/A
.message.report.ThreatScape.product[]	report.at- tribute	Threat- Scape	.mes- sage.re- port.pub- lishDate	ThreatScape Cyber Crime	N/A
.message.report.execSummary	report.at-	Exec-	.mes-	Smoke Loader (aka Smoke Bot or Dofail) is a mod-	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
	tribute	utive Summary	sage.report.publishDate	ular 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 plugins. 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 high-	If <code>.message.report.execSummary</code> contains any MITRE

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
				lights 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).	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 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

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
.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 Link	.message.report.publishDate	https://api.isightpartners.com/report/19-00019601	API URL of the report, generated from the Report ID
(see Notes column)	report.attribute	Web Link	.message.report.publishDate	https://intelligence.fireeye.com/reports/19-00019601	Web URL of the report, generated from the Report ID

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
			lishDate		
.message.report.-previousVersionSection.previousVersion [].versionNumber	report.attribute	Previous Version Number	.message.report.publishDate	1.0	If multiple <code>previousVersion</code> objects exist, only the most recent <code>previousVersion</code> object is reported.
.message.report.-previousVersionSection.previousVersion [].title	report.attribute	Previous Version Title	.message.report.publishDate	Indicator Report: Smoke Loader Activity Report (Mar 23, 2020)	N/A
.message.report.-previousVersionSection.previousVersion	report.attribute	Previous Version Date	.message.report.publishDate	March 24, 2020 05:44:00 AM	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
[].publishDate					
.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 / adversary.attribute / malware.attribute	CPE	.message.report.publishDate	cpe:2.3:a:ibm:websphere_extreme_scale:8.5.0:.....*	Ingestion is conditional, depending on whether the Ingest CPEs user field is checked.

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
.message.report.vulnerableProducts	report.attribute / indicator.attribute / adversary.-attribute / malware.attribute	Vulnerable Products	.message.report.publishDate	IBM reports that WebSphere eXtreme Scale versions 7.1.0, 7.1.1, 8.5 and 8.6 are vulnerable.	N/A
.message.report.mitigations.mitigation[]	report.attribute / indicator.attribute / adversary.-	Mitigation	.message.report.publishDate	Patch	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
	attribute / malware.attribute				
.message.report.mitigationDetails	report.attribute / indicator.attribute / adversary.-attribute / malware.attribute	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
.message.re-	report.attribute /	Vulner-	.message.re-	Authentication Issues	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
port.vulnerabilitytypes.vulnerabilityType	indicator.attribute / adversary.attribute / malware.attribute	ability Type	port.publishDate		
.message.report.vendorFix	report.attribute / indicator.attribute / adversary.attribute / malware	Vendor Fix	.message.report.publishDate	IBM released a fix that reportedly addresses this vulnerability. The fix, or information on obtaining the fix, can be retrieved from the following location:	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
	ware.at-tribute				
.mes-sage.report.vendorFixUrls.VendorFixUrl[].name	report.at-tribute / indicator.at-tribute / adversary.-attribute / malware.at-tribute	Vendor Fix Name	.mes-sage.re-port.pub-lishDate	IBM WebSphere eXtreme Scale (1966045) Security Update Information	N/A
.mes-sage.report.vendorFixUrls.VendorFixUrl[].url	report.at-tribute / indicator.at-	Vendor Fix URL	.mes-sage.re-port.pub-lishDate	https://www-304.ibm.com/support/docview.wss?uid=swg21966045	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
	tribute / adversary.- attribute / mal- ware.at- tribute				
.message.report.confidentialityImpact	report.at- tribute / indic- ator.at- tribute / adversary.- attribute / mal- ware.at- tribute	Con- fid- enti- ality Impact	.mes- sage.re- port.pub- lishDate	C:N	N/A

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

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

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
	ware.attribute				
.message.report.exploitability	report.attribute / indicator.attribute / adversary.attribute / malware.attribute	Exploitability	.message.report.publishDate	E:U	N/A
.message.report.remediationLevel	report.attribute / indicator.attribute	Remediation Level	.message.report.publishDate	RL:OF	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
	tribute / adversary.- attribute / mal- ware.at- tribute				
.message.report.reportConfidence	report.at- tribute / indic- ator.at- tribute / adversary.- attribute / mal- ware.at- tribute	Report Con- fidence	.mes- sage.re- port.pub- lishDate	RC:C	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
.message.report.cvssBaseScore	report.attribute / indicator.attribute / adversary.-attribute / malware.attribute	CVSS Base Score	.message.report.publishDate	5	N/A
.message.report.cvssBaseVector	report.attribute / indicator.attribute / adversary.-	CVSS Base Vector	.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
	attribute / malware.attribute				
.message.report.cvssBaseScoreLink	report.attribute / indicator.attribute / adversary.-attribute / malware.attribute	CVSS Base Score Link	.message.report.publishDate	http://nvd.nist.gov/cvss.cfm?version=2&name=&vector=(AC:L/A:N/Au:N/I:P/C:N/AV:N)	N/A
.message.report.cvssTemporalScore	report.attribute /	CVSS Temp-	.message.re-	3.7	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 Score	port.publishDate		
.message.report.cvssTemporalVector	report.attribute / indicator.attribute / adversary.attribute / malware	CVSS Temporal Vector	.message.report.publishDate	(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.attribute				
.message.report.cvssTemporalScoreLink	report.attribute / indicator.attribute / adversary.-attribute / malware.attribute	CVSS Temporal Score Link	.message.report.publishDate	http://nvd.nist.gov/cvss.cfm?version=2&name=&vector=(AC:L/A:N/Au:N/I:P/C:N/AV:N/RL:OF/RC:C/E:U)	N/A
.message.report.riskRating	report.attribute / indicator.attribute	Risk Rating	.message.report.publishDate	LOW	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
	tribute / adversary.- attribute / mal- ware.at- tribute				
.message.report.exploitRating	report.at- tribute / indic- ator.at- tribute / adversary.- attribute / mal- ware.at- tribute	Exploit Rating	.mes- sage.re- port.pub- lishDate	No Known	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
.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.attribute / malware.attribute	Date Of Disclosure	.message.report.publishDate	September 07, 2015 01:00:00 AM	N/A
.message.report.attackingEase	report.attribute /	Attacking	.message.re-	Easy	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
	indicator.attribute / adversary.-attribute / malware.attribute	Ease	port.publishDate		
.message.report.exploitationConsequence	report.attribute / indicator.attribute / adversary.-attribute / mal-	Exploitation Consequence	.message.report.publishDate	Security Bypass	N/A

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

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
	tribute / adversary.- attribute / malware.attribute	ce			
.message.report.exploitation.zeroDay	report.attribute / indicator.attribute / adversary.- attribute / malware.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
.message.report.exploitation.inTheWild	report.attribute / indicator.attribute / adversary.-attribute / malware.attribute	Exploitation: In The Wild	.message.report.publishDate	false	N/A
.message.report.copyright	report.attribute / indicator.attribute / adversary.-	Copyright	.message.report.publishDate	Copyright 2016 FireEye, Inc. All rights reserved.	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
	attribute / malware.attribute				
.message.report.intelligenceType	report.attribute / indicator.attribute / adversary.-attribute / malware.attribute	Intelligence Type	.message.report.publishDate	malware	N/A
.message.re-	report.attribute /	Language	.message.re-	English	N/A

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

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
	tribute / adversary.- attribute / mal- ware.at- tribute				
.mes- sage.report.tagSection.main.intents.intent []	report.at- tribute / indic- ator.at- tribute / adversary.- attribute / mal- ware.at- tribute	Intent	.mes- sage.re- port.pub- lishDate	Disruption	N/A

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

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
	attribute / malware.attribute				
.message.report.tagSection.-main.targetGeographies.targetGeography []	report.attribute / indicator.attribute / adversary.-attribute / malware.attribute	Target Geography	.message.report.publishDate	Global	N/A
.message.re-	report.attribute /	Target Inform-	.message.re-	Information Assets >> Email Lists / Archives	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
port.tagSection.- main.targetInformations.targetInformation []	indicator.attribute / adversary.- attribute / malware.attribute	action	port.publishDate		
.message.report.tagSection.main.ttps.ttp []	report.attribute / indicator.attribute / adversary.- attribute / mal-	TTP	.message.report.publishDate	Social Engineering	N/A

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

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
main.operatingSystems.operatingSystem []	tribute / adversary.- attribute / malware.at-tribute				
.message.report.tagSection.main.roles.role[]	report.at-tribute / indicator.at-tribute / adversary.- attribute / malware.at-tribute	Role	.message.re- port.pub- lishDate	Backdoor	N/A

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

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
	attribute / malware.attribute				
.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, 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 ZXSHELL documentation is Simplified Chinese.	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
.message.report.abstract	report.attribute / indicator.attribute / adversary.-attribute / malware.attribute	Abstract	.message.report.publishDate	Sality 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 Sality-infected machines, including credential theft malware, fake anti-virus, spam tools and ransomware.	N/A
.message.report.analysis	report.attribute / indicator.attribute / adversary.-	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	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
	attribute / malware.attribute			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 "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.	

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
.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 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.	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
				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 analysis. Please rate this product by taking a short four question survey	
.mes-	adversary.-	N/A	.mes-	APT28	Adversary objects are

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
sage.report.tagSection.main.actors.actor [].name	name		sage.report.publishDate		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.
.message.re-	malware.at-	ID	.message.re-	ab06ecb9-cd4b-4232-852c-21daa187b8e7	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
port.tagSection.- main.malwareFamilies.malwareFamily[].id	tribute		port.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.re-	8c31fdeb-22e2-4e6b-99a7-cfb87392537b	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
			port.publishDate		
.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.pub-	Viper	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
			lishDate		
.message.report.tagSection.networks.network [].ip	indicator.value	N/A	.message.report.publishDate	114.8.133.71	Indicator type is IP Address or IPv6 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.

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
.message.report.tagSection.networks.network [].url	indicator.value	N/A	.message.report.publishDate	https://114.8.133.71:449	Indicator type is <code>URL</code> . Indicator objects are 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 <code>CIDR Block</code> . 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	.message.report.publishDate	1371573858	Value represented as epoch date time.

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
		Lookup	lishDate		
.message.report.tagSection.networks.network [].malwareFamily	indicator.attribute	Malware Family	.message.report.publishDate	smokeloader	N/A
.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	indicator.attribute	Port Num-	.message.re-	8834	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
[].port	tribute	ber	port.publishDate		
.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 Report object.
.message.report.tagSection.emails.email [].sourceDomain	indicator.value	N/A	.message.report.publishDate	samyongonc.com	Indicator type is FQDN . 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 IP Address or IPv6 Address depending on the value of sourceIp . Indicator objects are

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
					related to the primary Report object.
.message.report.tagSection.emails.email [].subject	indicator.value	N/A	.message.report.publishDate	I need more bees	Indicator type is Email Subject . 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 Email Address . 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	indicator	Sender	.mes-	llssddzz	N/A

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
[].senderName	ator.attribute	Name	sage.report.publishDate		
.message.report.tagSection.emails.email [].language	indicator.attribute	Language	.message.report.publishDate	English	N/A
.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

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
.message.report.tagSection.files.file [].fileName	indicator.value	N/A	.message.report.publishDate	info.exe	Indicator type is File-name . Indicator objects are related to the primary Report object.
.message.report.tagSection.files.file [].fuzzyHash	indicator.value	N/A	.message.report.publishDate	1536:RFFgWOBn33zBLLCJ3qp-gAXb84sXyA7oi0kIOEI6toKtdw:9NEJILLzLb4I6toKtdw	Indicator type is Fuzzy Hash . Indicator objects are related to the primary Report object.
.message.report.tagSection.files.file [].sha1	indicator.value	N/A	.message.report.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.report.publishDate	2b09643594918540786500443a68e08d0c272c956f-5091cf319efe430255002c	Indicator type is SHA-256 . Indicator objects are related to the primary

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
			lishDate		Report object
.message.report.tagSection.files.file[] .md5	indicator.value	N/A	.message.report.publishDate	f691231016739d8bf1fb0020b98f06b5	Indicator type is MD5. Indicator objects are related to the primary 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

Feed Data Path	ThreatQ Entity	Threat-Q Object Type or Attribute Key	Published Date	Examples	Notes
			lishDate		
.message.report.tagSection.files.file[].fileType	indicator.attribute	File Type	.message.report.publishDate	PDF document	N/A
.message.report.tagSection.files.file[].malwareFamily	indicator.attribute	Malware Family	.message.report.publishDate	trickbot	N/A
.message.report.tagSection.files.file[].malwareFamilyId	indicator.attribute	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 1.3.0**
 - Added rich formatting to object descriptions
 - Fixed bug where some attributes would sometimes be ingested even if they were not included in the provider response.
 - Added the option to enable/disable the ingestion of CPEs and related indicators.
 - Added relationships between hash indicators that refer to the same file.
- **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