

# ThreatQuotient



## Recorded Future Operation

Version 1.4.0

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### ThreatQuotient

20130 Lakeview Center Plaza Suite 400  
Ashburn, VA 20147

 ThreatQ Supported

### Support

Email: [support@threatq.com](mailto:support@threatq.com)

Web: [support.threatq.com](https://support.threatq.com)

Phone: 703.574.9893

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# Support

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**Support Email:** [support@threatq.com](mailto:support@threatq.com)

**Support Web:** <https://support.threatq.com>

**Support Phone:** 703.574.9893

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# Integration Details

ThreatQuotient provides the following details for this integration:

Current Integration Version	1.4.0
Compatible with ThreatQ Versions	>= 4.35.0
Support Tier	ThreatQ Supported

# Introduction

The ThreatQuotient for Recorded Future Operation allows a ThreatQ user to submit system objects to Recorded Future for enrichment.

The operation provides the following actions:

- **Enrich** - provides enrichment of the selected object.
- **Find Entity Links** - fetches relationships for a given entity.
- **Intel Card Link** - links to the Recorded Future Intel Card.

The operation is compatible with the following object types:

- Adversaries
- Attack Patterns
- Indicators



See the [Actions table](#) for specific compatible indicator types.

- Malware

# 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 whl file.
3. Navigate to the integrations management page on your ThreatQ instance.
4. Click on the **Add New Integration** button.
5. Upload the integration whl file using one of the following methods:
  - Drag and drop the whl file into the dialog box
  - Select **Click to Browse** to locate the integration whl file on your local machine



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

The operation is now installed and will be displayed in the ThreatQ UI. You will still need to [configure](#) and then [enable](#) the operation.

# Configuration



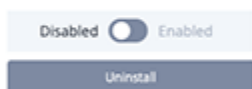
ThreatQuotient does not issue API keys for third-party vendors. Contact the specific vendor to obtain API keys and other integration-related credentials.

To configure the integration:

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

PARAMETER	DESCRIPTION
Hostname	The hostname for the API.
Port	The port for the Recorded Future host.
API Key	The API Access Key provided by Recorded Future.
Automatically Create Related Objects	When enabled, the integration will create related objects during the operation run.

## < Recorded Future



**Additional Information**  
 Integration Type: Operation  
 Author: ThreatQ  
 Description: Enrichment data plugin for Recorded Future.

### Configuration

Hostname  
  
Enter the hostname for the Recorded Future API (Do not change the default value unless you have received a different host)

Port  
  
Enter the port for the Recorded Future host

API Key  
  
Enter the API key provided by Recorded Future

☐ Automatically create related objects  
Check this to automatically create related objects during operation run

☐ Bypass system proxy configuration for this operation

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.



# Actions

The operation provides the following actions:

ACTION	DESCRIPTION	OBJECT TYPE	OBJECT SUBTYPE
<a href="#">Enrich</a>	Provides enrichment of the selected object.	Indicator	Indicator Types: IP Address, FQDN, CVE, MD5, SHA-1, SHA-256, SHA-384, SHA-512, URL
<a href="#">Find Entity Links</a>	Fetches relationships for a given entity	Indicator, Malware, Adversary, Attack Pattern	Indicator Types: IP Address, FQDN, CVE, MD5, SHA-1, SHA-256, SHA-384, SHA-512
<a href="#">Intel Card Link</a>	Links to the Recorded Future Intel Card.	Indicator	Indicator Types: IP Address, FQDN, CVE, MD5, SHA-1, SHA-256, SHA-384, SHA-512

## Enrich

The Enrich action provides enrichment from Recorded Future on the selected object.

GET <https://api.recordedfuture.com:443/v2/ip/{indicator}?fields=risk,entity,intelCard,location,metrics,relatedEntities,timestamps>

### Sample Response:

```
{
  "data": {
    "location": {
      "organization": "DIGITALOCEAN-ASN",
      "cidr": {
        "id": "ip:192.241.192.0/19",
        "name": "192.241.192.0/19",
        "type": "IpAddress"
      },
      "location": {
        "continent": "North America",
        "country": "United States",
        "city": "San Francisco"
      },
      "asn": "AS14061"
    },
    "timestamps": {
      "lastSeen": "2022-02-20T20:19:49.836Z",
      "firstSeen": "2020-07-09T09:24:18.846Z"
    },
    "risk": {
      "criticalityLabel": "Suspicious",
      "riskString": "9/77",
      "rules": 9,
      "criticality": 2,
      "riskSummary": "9 of 77 Risk Rules currently observed.",
      "score": 39,
      "evidenceDetails": [
        {
          "mitigationString": "",
          "evidenceString": "4 sightings on 1 source: AbuseIP Database. Most recent link (Jul 9, 2020): https://www.abuseipdb.com/check/192.241.212.32",
          "rule": "Historical Multicategory Blocklist",
          "criticality": 1,
          "timestamp": "2020-07-09T09:24:09.046Z",
          "criticalityLabel": "Unusual"
        }
      ]
    },
    "intelCard": "https://app.recordedfuture.com/live/sc/entity/"
  }
}
```

```
ip%3A192.241.212.32",
  "entity": {
    "id": "ip:192.241.212.32",
    "name": "192.241.212.32",
    "type": "IpAddress"
  },
  "metrics": [
    {
      "type": "unusualIPSightings",
      "value": 6
    }
  ],
  "relatedEntities": []
}
```

ThreatQuotient provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.data.relatedEntities[]	Related Indicator	IP Address/FQDN/HASH/URL	N/A	N/A	If .data.relatedEntities[].type in RelatedIpAddress, RelatedInternetDomainName, RelatedHash, RelatedURL
.data.relatedEntities[]	Indicator Attribute	.data.relatedEntities[].name	N/A	N/A	If .data.relatedEntities[].type in RelatedMalwareCategory, RelatedAttackVector, RelatedMalware, RelatedProduct
.data.risk.score	Indicator Attribute	Risk Score	N/A	39	N/A
.data.risk.criticalityLabel	Indicator Attribute	Criticality	N/A	Suspicious	N/A
.data.risk.riskSummary	Indicator Attribute	Risk Summary	N/A	9 of 77 Risk Rules currently observed.	N/A
.data.risk.evidenceDetails[].rule	Indicator Attribute	Rule	N/A	Historical Multicategory Blocklist	N/A
.data.metrics.type/ .data.metrics.value	Indicator Attribute	Unusual IP Sightings	N/A	6	.data.metric.type is processed as title
.data.timestamps.firstSeen	Indicator Attribute	First Seen	N/A	2020-07-09T09:24:18.846Z	N/A
.data.timestamps.lastSeen	Indicator Attribute	Last Seen	N/A	2022-02-20T20:19:49.836Z	N/A

## Find Entity Links

The Find Entity Links action fetches relationships for a given entity.

POST <https://api.recordedfuture.com/links/search>

### Sample Request:

```
{
  "entities": ["ip:192.241.212.32"],
  "limits": {
    "search_scope": "medium",
    "per_entity_type": 100
  },
  "filters": {
    "entity_types": [
      "type:Malware",
      "type:Person",
      "type:MitreAttackIdentifier",
      "type:AttackVector",
      "type:Organization",
      "type:IpAddress",
      "type:InternetDomainName",
      "type:Hash",
      "type:CyberVulnerability",
      "type:Username"
    ],
    "sources": ["technical", "insikt"],
    "sections": ["iU_ZsE", "iU_ZsG", "iU_ZsI"]
  }
}
```

### Sample Response:

```
{
  "data": [
    {
      "entity": {
        "type": "type:IpAddress",
        "id": "ip:192.241.212.32",
        "name": "192.241.212.32"
      },
      "links": [
        {
          "type": "type:Hash",
          "id": "hash:470de980ea57e5cbaaf82ffd66229a9c59fbc1ab43b41fa4ba092adcbc305dba",
          "name": "470de980ea57e5cbaaf82ffd66229a9c59fbc1ab43b41fa4ba092adcbc305dba",
          "source": "technical",
          "section": "iU_ZsG",
          "attributes": [
            {
              "id": "criticality",
              "value": "Malicious"
            },
            {
              "id": "risk_score",
              "value": 70
            },
            {
              "id": "risk_level",

```

```

        "value": 3
      }
    ]
  },
  {
    "type": "type:Malware",
    "id": "YuDlCN",
    "name": "WARZONE RAT",
    "source": "technical",
    "section": "iU_ZsE",
    "attributes": []
  },
  {
    "type": "type:MitreAttackIdentifier",
    "id": "mitre:T1584",
    "name": "T1584",
    "source": "technical",
    "section": "iU_ZsE",
    "attributes": [
      {
        "id": "display_name",
        "value": "T1584 (Compromise Infrastructure)"
      }
    ]
  },
  {
    "type": "type:MitreAttackIdentifier",
    "id": "mitre:TA0011",
    "name": "TA0011",
    "source": "technical",
    "section": "iU_ZsE",
    "attributes": [
      {
        "id": "display_name",
        "value": "TA0011 (Command and Control)"
      }
    ]
  }
]
}

```

ThreatQuotient provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.data.links[].name	Related Indicator	.data.link[].type	N/A	470de980ea57e5cb aaf82ffd66229a9c5 9fbc1ab43b41fa4ba 092adcbc305dba	If .data.links[].type in see Entity IOC type map table. If Indicators & Detection Rules is checked and if corresponding .data.links[].type from Entity IOC type map is checked
.data.links[].attributes[].value	Related Indicator Attribute	Criticality	N/A	Malicious	If .data.links[].attributes[].id is criticality
.data.links[].attributes[].value	Related Indicator Attribute	Risk Score	N/A	70	If .data.links[].attributes[].id is risk_score
.data.links[].attributes[].value	Related Indicator Attribute	Risk Level	N/A	3	If .data.links[].attributes[].id is risk_level
.data.links[].attributes[].value	Related Attack Pattern	N/A	N/A	T1584 (Compromise Infrastructure)	If .data.links[].type is type:MitreAttackIdentifier and .data.link[].attributes[].id is display_name
.data.links[].attributes[].value	Indicator Attribute	Tactic	N/A	Command and Control	If .data.links[].type is type:MitreAttackIdentifier and .data.link[].attributes[].id is display_name and .data.link[].name starts with TA
.data.links[].name	Related Malware	N/A	N/A	WARZONE RAT	If .data.links[].type is type:Malware and Malware is checked
.data.links[].name	Related Adversary	N/A	N/A	N/A	If .data.links[].type is type:Person or type:Organization and Actors is checked
.data.links[].name	Indicator Attribute	Attack Vector	N/A	N/A	If .data.links[].type is type:AttackVector and Attack Vector is checked

## Find Entity Links Run Parameters

The follow run parameters are available when you select the Find Entity Links action:

PARAMETER	DESCRIPTION
<b>Metadata Sections</b>	Select which metadata sections to fetch from the Recorded Future Links API. Options include: <ul style="list-style-type: none"> <li>• Actors, Tools &amp; TTPs</li> <li>• Indicators &amp; Detection Rules</li> <li>• Victims &amp; Exploit Targets</li> </ul>
<b>IOC Types</b>	Select which IOC types to fetch from the Recorded Future Links API. Options include: <ul style="list-style-type: none"> <li>• IP Addresses</li> <li>• FQDNs</li> <li>• Hashes</li> <li>• CVEs</li> <li>• Usernames</li> </ul>
<b>Entity Types</b>	Select which entity types to fetch from the Recorded Future Links API. Options include: <ul style="list-style-type: none"> <li>• Malware</li> <li>• Actors</li> <li>• MITRE Techniques / Tactics</li> <li>• Attack Vectors</li> </ul>
<b>Sources</b>	Select which sources to use for fetching entity info from the Recorded Future Links API. Options include: <ul style="list-style-type: none"> <li>• Technical</li> <li>• Insikt Group</li> </ul>

Select An Operation

 **Recorded Future: Find Entity Links**

## Configuration Parameters

### Metadata Sections

Select which metadata sections to fetch from the Recorded Future Links API.

- ☒ Actors, Tools & TTPs
- ☐ Indicators & Detection Rules
- ☐ Victims & Exploit Targets

### IOC Types

Select which IOC types to fetch from the Recorded Future Links API.

- ☒ IP Addresses
- ☒ FQDNs
- ☒ Hashes
- ☒ CVEs
- ☐ Usernames

### Entity Types

Select which entity types to fetch from the Recorded Future Links API.

- ☒ Malware
- ☒ Actors
- ☒ MITRE Techniques / Tactics
- ☒ Attack Vectors

### Sources

Select which sources to use for fetching entity info from the Recorded Future Links API.

- ☒ Technical
- ☒ Insikt Group

Run



## Entity IOC Type Mapping

The following table describes the Recorded Future to ThreatQ IOC Type mapping.

RECORDED FUTURE VALUE	THREATQ IOC TYPE
type:IpAddress	IP Address
type:InternetDomainName	FQDN
type:Hash	MD5
type:Hash	SHA-2
type:Hash	SHA-256
type:Hash	SHA-384
type:Hash	SHA-512
type:CyberVulnerability	CVE
type:Username	Username

## Entity Object Type Mapping

The following table describes the Recorded Future Entity to ThreatQ Object Type mapping.

RECORDED FUTURE VALUE	THREATQ IOC TYPE
type:Malware	Malware
type:Person	Adversary
type:Organization	Adversary
type:MitreAttackIdentifier	Attack Pattern-2

## Intel Card Link

The Intel Card Link action provides a link to the Recorded Future Intel Card.

GET <https://api.recordedfuture.com:443/v2/ip/{indicator}?fields=intelCard>

**Sample Response:**

```
{
  "data": {
    "intelCard": "https://app.recordedfuture.com/live/sc/entity/
ip%3A192.241.212.32"
  }
}
```

---

# Change Log

- **Version 1.4.0**
  - Added URL-type indicator support to the Enrich action.
  - Added new action: **Find Entity Links**. This action fetches relationships for a given entity.
  - Added new configuration parameter: **Automatically Create Related Objects**. This new parameter is only applicable to the **Find Entity Links** action.
- **Version 1.3.0**
  - Removed the ability to pull related vulnerabilities due to some vulnerabilities not having a proper value. This would cause an error when ThreatQ attempted to ingest the information.
- **Version 1.2.0**
  - Added enrichment of CVE objects.
  - Added the ability to pull related vulnerabilities from Recorded Future
- **Version 1.0.0**
  - Initial release