

ThreatQuotient



Cisco Umbrella Action Bundle User Guide

Version 1.0.0

July 25, 2023

ThreatQuotient

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Support

This integration is designated as **ThreatQ Supported**.

Support Email: 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	1.0.0
Compatible with ThreatQ Versions	>= 5.17.0
ThreatQ TQO License Required	Yes
Support Tier	ThreatQ Supported

Introduction

The Cisco Umbrella actions for ThreatQ enables analysts to use Cisco Umbrella's APIs for enrichment. Analysts will be able to enrich IOCs from their Threat Library with context from the Cisco Umbrella Investigate API, including but not limited to, the categorization, risk scores, hash samples, and WHOIS information.

The bundle provides the following actions:

- **Cisco Umbrella Investigate - Get Security Context** - fetches security context from Cisco Umbrella such as a domain's threat type and scores.
- **Cisco Umbrella Investigate - Get Risk Scores** - returns the risk score for a given domain.
- **Cisco Umbrella Investigate - Get Categorization** - fetches a domain's disposition as well as its security and content categories.
- **Cisco Umbrella Investigate - Get Samples** - retrieves related sample hashes for a given IOC, as well as some other contextual information.
- **Cisco Umbrella Investigate - Get WHOIS** - retrieves a domain's WHOIS records.

The action is compatible with the following system indicator types:



Individual actions may only be compatible with a subset of these types.

- IP Address
- FQDN
- MD5
- SHA-1
- SHA-256

The action returns the following enriched indicator types:



Individual actions may only return a subset of these types.

- IP Address
- FQDN
- MD5
- SHA-1
- SHA-256



This action is intended for use with ThreatQ TDR Orchestrator (TQO). An active TQO license is required for this feature.

Prerequisites

- A Cisco Umbrella Investigate License & API Key.
- An active ThreatQ TDR Orchestrator (TQO) license.
- A data collection containing the following indicator object types:
 - IP Address
 - FQDN
 - MD5
 - SHA-1
 - SHA-256

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



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

You will still need to [configure](#) the action.

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 **Actions** option from the *Category* dropdown (optional).
3. Click on the action entry to open its details page.
4. Enter the following parameters under the **Configuration** tab:



The configurations set on this page will be used as the default settings when inserting this action into a new workflow. Updating the configurations on this page will not update any instances of this action that have already been deployed to a workflow. In that scenario, you must update the action's configurations within the workflow itself.

All Actions

PARAMETER	DESCRIPTION
API Key	Enter your Umbrella Investigate API Key.
Objects Per Run	The number of objects to process per run of the workflow.

Get Categorization - Additional Parameters

PARAMETER	DESCRIPTION
Disposition Filter	Only ingest categorization for domains with the selected dispositions. Options include: ◦ Unknown ◦ Benign (default) ◦ Malicious (default)
Attribution Filter	Select the pieces of context to ingest into ThreatQ when a record is found. Options include: ◦ Disposition (default) ◦ Content Category (default) ◦ Security Category (default)

Get Risk Scores - Additional Parameters

PARAMETER	DESCRIPTION
Risk Score Threshold	Only ingest risk scores for domains with a risk score greater than or equal to this value.

Get Samples - Additional Parameters

PARAMETER	DESCRIPTION
Max Samples	Enter the maximum number of samples to return. The default value is 10 .
Sort Samples By	Select how you want to sort the samples. Options include: ◦ Score (default) ◦ Last Seen ◦ First Seen
Minimum Threat Score Threshold	Enter the minimum threat score threshold for samples to be ingested. The default value is 75 . You can set this to 0 to ingest all samples.
Hash Type Filter	Select the hash types you want to bring into ThreatQ when samples are found. Options include: ◦ MD5 (default) ◦ SHA-1 ◦ SHA-256
Attribution Filter	Select the pieces of context you want ingested into ThreatQ when a record is found. Options include: ◦ Threat Score (default) ◦ File Type (default) ◦ File Size (in bytes) ◦ Detection (per AV Engine)

Get Security Content - Additional Parameters

PARAMETER	DESCRIPTION
Only Ingest Records Found in Cisco Umbrella	Only ingest records found in Cisco Umbrella's database (i.e. found = true). If a record is not found, some scores are still populated such as DGA Score & Entropy. This option is enabled by default.
Only Ingest Records Associated with an Attack	Only ingest records that are associated with an attack (i.e. Emotet). This option is disabled by default.
Attribution Filter	Select the pieces of general context you want ingested into ThreatQ when a record is found. Options include: • Attack (default) • Threat Type (default) • Is Found • ASN Score • DGA Score • Entropy • Geodiversity Score • Page Rank • Perplexity • Popularity (default) • Prefix Score • RIP Score • Securerank • Flastflux (default)

Get WHOIS - Additional Parameters

PARAMETER	DESCRIPTION
Ingest Redacted Values	Enabling this will ingest values that are labeled as redacted. The default value is False .
Ingest Nameservers As...	Enabling this option will ingest nameservers as the selected type. Options include ◦ Do Not Ingest (default) ◦ Indicators (FQDN) ◦ Attributes (Nameserver)
General Attribution Filter	Select the pieces of general context you want ingested into ThreatQ when a record is found. Options include: • Registrar Name (default) • Created At (default) • Status • Is Expired • Expires At
WHOIS Attribution Filter	Select the pieces of WHOIS context you want ingested into ThreatQ when a record is found. Options include: ◦ Admin Contact Name ◦ Admin Contact Email ◦ Admin Contact Organization ◦ Admin Contact City ◦ Admin Contact Country ◦ Admin Contact State ◦ Admin Contact Street ◦ Admin Contact Postal Code ◦ Admin Contact Telephone ◦ Registrant Name ◦ Registrant Email ◦ Technical Contact Name ◦ Technical Contact Email ◦ Technical Contact Organization ◦ Technical Contact City ◦ Technical Contact Country ◦ Technical Contact State ◦ Technical Contact Street ◦ Technical Contact Postal Code

PARAMETER	DESCRIPTION
	◦ Registrant Organization ◦ Registrant City ◦ Registrant Country ◦ Registrant State ◦ Registrant Street ◦ Registrant Postal Code ◦ Registrant Telephone ◦ Technical Contact Telephone ◦ Billing Contact Name ◦ Billing Contact Email ◦ Billing Contact Organization ◦ Billing Contact City ◦ Billing Contact Country ◦ Billing Contact State ◦ Billing Contact Street ◦ Billing Contact Postal Code ◦ Billing Contact Telephone

5. Review any additional settings, make any changes if needed, and click on **Save**.

Action

The following actions are included with the bundle:

FUNCTION	DESCRIPTION	OBJECT TYPE	OBJECT SUBTYPE
Cisco Umbrella Investigate - Get Security Context	Get threat types or associated attacks for domains	Indicator	FQDN
Cisco Umbrella Investigate - Get Risk Scores	Get the risk scores for domains	Indicator	FQDN
Cisco Umbrella Investigate - Get Categorization	Get dispositions and content/ security categories for domains	Indicator	FQDN
Cisco Umbrella Investigate - Get Samples	Get related samples (hashes) or sample information for a set of indicators	Indicator	IP Address, FQDN, MD5, SHA-1, SHA-256
Cisco Umbrella Investigate - Get WHOIS	Get WHOIS records for domains	Indicator	FQDN

Get Security Context

The Get Security Context action will fetch security context from Cisco Umbrella such as a domain's threat type and scores.

GET `https://investigate.api.umbrella.com/security/name/{{ domain }}`

Sample Response:

```
{
  "dga_score": 38.301771886101335,
  "perplexity": 0.4540313302593146,
  "entropy": 2.5216406363433186,
  "securerank2": -1.3135141095601992,
  "pagerank": 0.0262532,
  "asn_score": -29.75810625887133,
  "prefix_score": -64.9070502788884,
  "rip_score": -75.64720536038982,
  "popularity": 25.335450495507196,
  "fastflux": false,
  "geodiversity": [0.24074075, 0.018518519],
  "geodiversity_normalized": [0.3761535390278368, 0.0005015965168831449],
  "tld_geodiversity": [0],
  "geoscore": 0,
  "ks_test": 0,
  "attack": "WannaCry",
  "threat_type": "Ransomware",
  "found": true
}
```

ThreatQuotient provides the following default mapping for this action:



All scores are rounded to 5 decimal places. All mapped fields are subject to user-configured filtering options

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.attack	Indicator.Attribute	Attack	N/A	WannaCry	N/A
.threat_type	Indicator.Attribute	Threat Type	N/A	Ransomware	N/A
.asn_score	Indicator.Attribute	ASN Score	N/A	-29.75810	The attribute value is updated at ingestion
.dga_score	Indicator.Attribute	DGA Score	N/A	38.30177	The attribute value is updated at ingestion
.entropy	Indicator.Attribute	Entropy	N/A	2.52164	The attribute value is updated at ingestion
.geoscore	Indicator.Attribute	Geodiversity Score	N/A	0	The attribute value is updated at ingestion
.pagerank	Indicator.Attribute	Page Rank	N/A	0.02625	N/A
.perplexity	Indicator.Attribute	Perplexity	N/A	0.45403	The attribute value is updated at ingestion
.popularity	Indicator.Attribute	Popularity	N/A	25.33545	The attribute value is updated at ingestion
.prefix_score	Indicator.Attribute	Prefix Score	N/A	-64.90705	The attribute value is updated at ingestion
.rip_score	Indicator.Attribute	RIP Score	N/A	-75.64720	The attribute value is updated at ingestion
.securerank2	Indicator.Attribute	Securerank	N/A	-1.31351	N/A
.fastflux	Indicator.Attribute	Fastflux	N/A	false	N/A
.found	Indicator.Attribute	Is Found	N/A	true	N/A

Get Risk Scores

The Get Risk Scores action retrieves the risk score for a given domain.

GET <https://investigate.api.umbrella.com/domains/risk-score/{{ domain }}>

Sample Response:

```
{
  "indicators": [
    {
      "indicator": "Geo Popularity Score",
      "indicator_id": "Geo Popularity Score",
      "normalized_score": 50,
      "score": 0
    },
    {
      "indicator": "Keyword Score",
      "indicator_id": "Keyword Score",
      "normalized_score": 15,
      "score": 0.15823231832454354
    },
    {
      "indicator": "Lexical",
      "indicator_id": "Lexical",
      "normalized_score": 13,
      "score": 0.136
    },
    {
      "indicator": "Popularity 1 Day",
      "indicator_id": "Popularity 1 Day",
      "normalized_score": null,
      "score": null
    },
    {
      "indicator": "Popularity 30 Day",
      "indicator_id": "Popularity 30 Day",
      "normalized_score": null,
      "score": null
    },
    {
      "indicator": "Popularity 7 Day",
      "indicator_id": "Popularity 7 Day",
      "normalized_score": null,
      "score": null
    },
    {
      "indicator": "Popularity 90 Day",
      "indicator_id": "Popularity 90 Day",
      "normalized_score": null,

```

```

    "score": null
  },
  {
    "indicator": "TLD Rank Score",
    "indicator_id": "TLD Rank Score",
    "normalized_score": 1,
    "score": 0.01983927366419238
  },
  {
    "indicator": "Umbrella Block Status",
    "indicator_id": "Umbrella Block Status",
    "normalized_score": 100,
    "score": true
  }
],
"risk_score": 100
}

```

ThreatQuotient provides the following default mapping for this action:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.risk_score	Indicator.Attribute	Risk Score	N/A	100	The attribute value is updated at ingestion.

Get Categorization

The Get Categorization action retrieves a domain's disposition as well as its security and content categories.

GET <https://investigate.api.umbrella.com/domains/categorization/{{ domain }}>

Sample Response:

```
{
  "esoskraadami.shop": {
    "status": -1,
    "security_categories": ["Malware"],
    "content_categories": ["Hacking"]
  }
}
```

ThreatQuotient provides the following default mapping for this action:



Feed data paths are based on the keys after selecting the domain name key.

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.status	Indicator.Attribute	Disposition	N/A	Malicious	Mapped from the integer value to a human-readable value. The attribute value is updated at ingestion
.security_categories[]	Indicator.Attribute	Security Category	N/A	Malware	N/A
.content_categories[]	Indicator.Attribute	Content Category	N/A	Hacking	N/A

Get Samples

The Get Samples action retrieves related sample hashes for a given IOC, as well as some other contextual information.

If the input IOC is a hash, the following endpoint is used:

GET `https://investigate.api.umbrella.com/sample/{{ hash }}`

If the input IOC is *not* a hash, the following endpoint is used:

GET `https://investigate.api.umbrella.com/samples/{{ domain }}`

Sample Response:

```
{
  "query": "google.com",
  "totalResults": 10,
  "moreDataAvailable": true,
  "limit": 10,
  "offset": 0,
  "samples": [
    {
      "sha256":
"e9d3470c37dada28d5a32fb53a243c5b20def35bb01abf8f5403182cc2b91fdd",
      "sha1": "de182fdcc3c0d473b90a0df0ad14c2074d1e7c50",
      "md5": "282f80e8a2cf9e0e0dd72093787d99c6",
      "magicType": "PE32 executable (GUI) Intel 80386, for MS Windows",
      "threatScore": 100,
      "size": 192512,
      "firstSeen": "1460108539000",
      "lastSeen": "1460108539000",
      "visible": true,
      "avresults": [
        {
          "signature": "Win.Trojan.Ramnit",
          "product": "ClamAV"
        },
        {
          "signature": "Win.Trojan.Parite",
          "product": "ClamAV"
        }
      ]
    }
  ]
}
```

ThreatQuotient provides the following default mapping for this action:



All mapped fields are subject to user-configured filtering options.

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
<code>.samples[].threatScore</code>	Indicator/Related Indicator.Attribute	Threat Score	<code>.samples[].firstSeen</code>	100	The attribute value is updated at ingestion
<code>.samples[].magicType</code>	Indicator/Related Indicator.Attribute	File Type	<code>.samples[].firstSeen</code>	PE32 executable (GUI) Intel 80386, for MS Windows	N/A
<code>.samples[].size</code>	Indicator/Related Indicator.Attribute	File Size	<code>.samples[].firstSeen</code>	192512	N/A
<code>.samples[].avresults[].signature</code>	Indicator/Related Indicator.Attribute	Detection	<code>.samples[].firstSeen</code>	Win.Trojan.Ramnit	N/A
<code>.samples[].md5</code>	Related Indicator.Value	MD5	<code>.samples[].firstSeen</code>	282f80e8a2cf9e0e0d72093787d99c6	N/A
<code>.samples[].sha1</code>	Related Indicator.Value	SHA-1	<code>.samples[].firstSeen</code>	de182fdcc3c0d473b90a0df0ad14c2074d1e7c50	N/A
<code>.samples[].sha256</code>	Related Indicator.Value	SHA-256	<code>.samples[].firstSeen</code>	e9d3470c37dada28d5a32fb53a243c5b20def35bb01abf8f5403182cc2b91fdd	N/A

Get WHOIS

The Get WHOIS action retrieves a domain's WHOIS records.

GET <https://investigate.api.umbrella.com/whois/{{ domain }}>

Sample Response:

```
{
  "administrativeContactFax": null,
  "whoisServers": "whois.corporatedomains.com",
  "addresses": ["1355 market street"],
  "administrativeContactName": "Domain Admin",
  "zoneContactEmail": null,
  "billingContactFax": null,
  "administrativeContactTelephoneExt": null,
  "administrativeContactEmail": "domains@twitter.com",
  "technicalContactEmail": "domains-tech@twitter.com",
  "technicalContactFax": "14152220922",
  "nameServers": [
    "a.r06.twtrdns.net",
    "b.r06.twtrdns.net",
    "c.r06.twtrdns.net",
    "d.r06.twtrdns.net",
    "d01-01.ns.twtrdns.net",
    "d01-02.ns.twtrdns.net",
    "ns3.p34.dynect.net",
    "ns4.p34.dynect.net"
  ],
  "zoneContactName": null,
  "billingContactPostalCode": null,
  "zoneContactFax": null,
  "registrantTelephoneExt": null,
  "zoneContactFaxExt": null,
  "technicalContactTelephoneExt": null,
  "billingContactCity": null,
  "zoneContactStreet": [],
  "created": "2000-01-21",
  "administrativeContactCity": "San Francisco",
  "registrantName": "Twitter, Inc.",
  "zoneContactCity": null,
  "domainName": "twitter.com",
  "zoneContactPostalCode": null,
  "administrativeContactFaxExt": null,
  "technicalContactCountry": "UNITED STATES",
  "registrarIANAID": "299",
  "updated": "2023-01-17",
  "administrativeContactStreet": ["1355 market street"],
  "billingContactEmail": null,
  "status": [
```

```

    "clientTransferProhibited serverDeleteProhibited serverTransferProhibited
serverUpdateProhibited"
  ],
  "registrantCity": "San Francisco",
  "billingContactCountry": null,
  "expires": "2024-01-21",
  "technicalContactStreet": ["1355 market street"],
  "registrantOrganization": "Twitter, Inc.",
  "billingContactStreet": [],
  "registrarName": "CSC CORPORATE DOMAINS, INC.",
  "registrantPostalCode": "94103",
  "zoneContactTelephone": null,
  "registrantEmail": "domains@twitter.com",
  "technicalContactFaxExt": null,
  "technicalContactOrganization": "Twitter, Inc.",
  "emails": ["domains-tech@twitter.com", "domains@twitter.com"],
  "registrantStreet": ["1355 market street"],
  "technicalContactTelephone": "14152229670",
  "technicalContactState": "CA",
  "technicalContactCity": "San Francisco",
  "registrantFax": "14152220922",
  "registrantCountry": "UNITED STATES",
  "billingContactFaxExt": null,
  "timestamp": null,
  "zoneContactOrganization": null,
  "administrativeContactCountry": "UNITED STATES",
  "billingContactName": null,
  "registrantState": "CA",
  "registrantTelephone": "14152229670",
  "administrativeContactState": "CA",
  "registrantFaxExt": null,
  "technicalContactPostalCode": "94103",
  "zoneContactTelephoneExt": null,
  "administrativeContactOrganization": "Twitter, Inc.",
  "billingContactTelephone": null,
  "billingContactTelephoneExt": null,
  "zoneContactState": null,
  "administrativeContactTelephone": "14152229670",
  "billingContactOrganization": null,
  "technicalContactName": "Tech Admin",
  "administrativeContactPostalCode": "94103",
  "zoneContactCountry": null,
  "billingContactState": null,
  "auditUpdatedDate": "2023-01-20 12:03:17 UTC",
  "recordExpired": false,
  "timeOfLatestRealtimeCheck": 1674270179742,
  "hasRawText": true
}

```

ThreatQuotient provides the following default mapping for this action:



All mapped fields are subject to user-configured filtering options

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.nameServers[]	Related Indicator.Value	FQDN	N/A	a.r06.twtrdns.netz	If nameservers are ingested as Indicators
.nameServers[]	Indicator.Attribute	Nameserver	N/A	a.r06.twtrdns.net	If nameservers are ingested as Attributes
.registrarName	Indicator.Attribute	Registrar Name	N/A	CSC CORPORATE DOMAINS, INC.	N/A
.created	Indicator.Attribute	Created At	N/A	2000-01-21	N/A
.status	Indicator.Attribute	Status	N/A	clientTransferProhibited serverDeleteProhibited serverTransferProhibited serverUpdateProhibited	N/A
.recordExpired	Indicator.Attribute	Is Expired	N/A	false	N/A
.expires	Indicator.Attribute	Expires At	N/A	2024-01-21	N/A
.administrativeContactName	Indicator.Attribute	Admin Contact Name	N/A	Domain Admin	N/A
.administrativeContactOrganization	Indicator.Attribute	Admin Contact Organization	N/A	Twitter, Inc.	N/A
.administrativeContactEmail	Indicator.Attribute	Admin Contact Email	N/A	domains@twitter.com	N/A
.administrativeContactCity	Indicator.Attribute	Admin Contact City	N/A	San Francisco	N/A
.administrativeContactState	Indicator.Attribute	Admin Contact State	N/A	CA	N/A
.administrativeContactCountry	Indicator.Attribute	Admin Contact Country	N/A	UNITED STATES	N/A
.administrativeContactPostalCode	Indicator.Attribute	Admin Contact Postal Code	N/A	94103	N/A
.administrativeContactStreet	Indicator.Attribute	Admin Contact Street	N/A	1355 market street	N/A
.administrativeContactTelephone	Indicator.Attribute	Admin Contact Telephone	N/A	14152229670	N/A

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.registrantName	Indicator.Attribute	Registrant Name	N/A	Twitter, Inc.	N/A
.registrantOrganization	Indicator.Attribute	Registrant Organization	N/A	Twitter, Inc.	N/A
.registrantEmail	Indicator.Attribute	Registrant Email	N/A	domains@twitter.com	N/A
.registrantCity	Indicator.Attribute	Registrant City	N/A	San Francisco	N/A
.registrantState	Indicator.Attribute	Registrant State	N/A	CA	N/A
.registrantCountry	Indicator.Attribute	Registrant Country	N/A	UNITED STATES	N/A
.registrantPostalCode	Indicator.Attribute	Registrant Postal Code	N/A	94103	N/A
.registrantStreet	Indicator.Attribute	Registrant Street	N/A	1355 market street	N/A
.registrantTelephone	Indicator.Attribute	Registrant Telephone	N/A	14152229670	N/A
.technicalContactName	Indicator.Attribute	Technical Contact Name	N/A	Tech Admin	N/A
.technicalContactOrganization	Indicator.Attribute	Technical Contact Organization	N/A	Twitter, Inc.	N/A
.technicalContactEmail	Indicator.Attribute	Technical Contact Email	N/A	domains-tech@twitter.com	N/A
.technicalContactCity	Indicator.Attribute	Technical Contact City	N/A	San Francisco	N/A
.technicalContactState	Indicator.Attribute	Technical Contact State	N/A	CA	N/A
.technicalContactCountry	Indicator.Attribute	Technical Contact Country	N/A	UNITED STATES	N/A
.technicalContactPostalCode	Indicator.Attribute	Technical Contact Postal Code	N/A	94103	N/A
.technicalContactStreet	Indicator.Attribute	Technical Contact Street	N/A	1355 market street	N/A
.technicalContactTelephone	Indicator.Attribute	Technical Contact Telephone	N/A	14152229670	N/A
.billingContactName	Indicator.Attribute	Billing Contact Name	N/A	Billing Admin	N/A
.billingContactOrganization	Indicator.Attribute	Billing Contact Organization	N/A	Twitter, Inc.	N/A

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.billingContactEmail	Indicator.Attribute	Billing Contact Email	N/A	N/A	N/A
.billingContactCity	Indicator.Attribute	Billing Contact City	N/A	San Francisco	N/A
.billingContactState	Indicator.Attribute	Billing Contact State	N/A	CA	N/A
.billingContactCountry	Indicator.Attribute	Billing Contact Country	N/A	UNITED STATES	N/A
.billingContactPostalCode	Indicator.Attribute	Billing Contact Postal Code	N/A	94103	N/A
.billingContactStreet	Indicator.Attribute	Billing Contact Street	N/A	1355 market street	N/A
.billingContactTelephone	Indicator.Attribute	Billing Contact Telephone	N/A	14152229670	N/A

Enriched Data



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

Get Security Context

METRIC	RESULT
Run Time	2 minutes
Indicators	395
Indicator Attributes	1,265

Get Risk Scores

METRIC	RESULT
Run Time	1 minute
Indicators	25
Indicator Attributes	22

Get Categorization

METRIC	RESULT
Run Time	1 minute
Indicators	25
Indicator Attributes	54

Get Samples

METRIC	RESULT
Run Time	2 minutes
Indicators	52
Indicator Attributes	191

Get WHOIS

METRIC	RESULT
Run Time	3 minutes
Indicators	52
Indicator Attributes	524

Known Issues / Limitations

- Rate Limits may effect the ability to enrich large sets of IOCs, depending on your Cisco Umbrella Investigate license tier.
 - More information can be found here: <https://developer.cisco.com/docs/cloud-security/#!investigate-getting-started/rate-limits>
 - Each action implements a 0.6 second delay between each request to partially mitigate this.



It is highly advised that you check your license tier and adjust the `Objects Per Run` user configuration field for each action accordingly.

Change Log

- Version 1.0.0
 - Initial release