

ThreatQuotient

A Securonix Company



DomainTools Action

Version 1.1.0

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ThreatQuotient

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ThreatQ Supported

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Contents

Warning and Disclaimer..... 3

Support..... 4

Integration Details..... 5

Introduction 6

Prerequisites 7

Installation 8

Configuration 9

Actions 13

 DomainTools Iris - Enrich Domains 14

Enriched Data 25

Known Issues / Limitations 26

Change Log 27

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Support

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Support Email: tq-support@securonix.com

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Integration Details

ThreatQuotient provides the following details for this integration:

Current Integration Version	1.1.0
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Compatible with ThreatQ Versions	>= 5.12.1
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ThreatQ TQO License Required	Yes
-------------------------------------	-----

Support Tier	ThreatQ Supported
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Introduction

The DomainTools Action for ThreatQ allows users to perform automated bulk lookups against DomainTools' Iris API. This API provides information such as risk scores, popularity ranks, threats, and more. Ultimately, the enrichment data provided by this action can be used to make more informed decisions when prioritizing the domains for further investigation or blacklisting.

The integration provides the following action:

- **DomainTools Iris - Enrich Domains** - enriches domains using the Iris Enrich/Investigate APIs.

The action is compatible with FQDN type indicators.

The action returns enriched FQDN and IP Address type indicators.



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

Prerequisites

- An active ThreatQ TDR Orchestrator (TQO) license.
- A DomainTools Username and API.
- A DomainTools license for the Iris Enrich/Investigate APIs.
- A data collection containing FQDN indicators.

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.

PARAMETER	DESCRIPTION
API Username	Your DomainTools API Username.
API Key	Your DomainTools API Key.
API Selection	Select which API to enrich from. This will align with the DomainTools package your organization has purchased and what your license allows. Options include: Iris Enrich and Iris Investigate .
Minimum Risk Score Threshold	Enter a number indicating the minimum risk score to return enrichment data for a given IOC. Entering 0 will ingest enrichment for all submitted IOCs. (<i>default: 25</i>)
General Attribute Filtering	Select the attributes to include in the context enrichment of each indicator. Options include:

PARAMETER	DESCRIPTION
	◦ Risk Score ◦ Threat Type ◦ Country Code ◦ Is Active ◦ Alexa Rank ◦ Popularity Rank ◦ Creation Date ◦ Expiration Date ◦ Site Response Code ◦ Site Title ◦ Server Type
Normalize Risk Score	Enable this parameter to convert the overall DomainTools Risk Score into a human-readable Normalized Risk attribute. This option supports ThreatQ scoring policies that use discrete values. This parameter is enabled by default.
Risk Score Normalization	Enter a pipe-delimited CSV mapping containing Minimum, Maximum, and Normalized Value columns. The default value is: <pre>0,39,Low\ 40,79,Medium\ 80,94,High\ 95,100,Critical</pre>
Hosting Attribute Filtering	Select the hosting attributes to include in the context enrichment of each indicator. Options include: MX Hosts and Nameservers .
Relationship Filtering	Select the relationships to include in the context enrichment of each indicator. Associated IPs is the only option available for this configuration parameter.
 Status Options - These options allow you to control the statuses of the ingested indicators. You can set default statuses for them, as well as overrides for when the risk score exceeds a certain threshold. This	

PARAMETER	DESCRIPTION
	will allow you to more dynamically control what becomes Active vs. what still needs to be reviewed.
Default Domain Status	Select the default status to set on Domains that are created by this action. Options include: Review , Active , and Indirect .
Default IP Status	Select the default status to set on IPs that are created by this action. Options include: Review , Active , and Indirect .
Override Default Status if Risk Score is Above Threshold	Enable this option to give indicators a different status if their risk score is above a specific threshold. This option is enabled by default.
Minimum Risk Score to Override Default Status	Enter a number indicating the minimum risk score to set a different status for the ingested indicators. The default value is 50.
Domain Status if Risk Score is Above Threshold	Select the status to set on Domains that are created by this action if their risk score is above the threshold. Options include: Review , Active , and Indirect .
Objects Per Run	The max number of objects to send to this action, per run. This number should scale with your API rate limit. The default value is 10000.

< DomainTools Iris - Enrich Domains



Uninstall

Additional Information

Integration Type: Action

Version:

Action ID: 1

Accepted Data Types:

☒ Indicators

☐ FQDN

Configuration

Authentication

API Username

DomainTools API Username

API Key

DomainTools API Key

API Options

API Selection

Iris Enrich

Select which API to enrich from. This will align with the DomainTools package your organization has purchased and what your license allows.

Data Filtering

Minimum Risk Score Threshold

25

Enter a number indicating the minimum risk score to return enrichment data for a given IOC. Entering 0 will ingest enrichment for all submitted

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

Actions

The following action is available:

ACTION	DESCRIPTION	OBJECT TYPE	OBJECT SUBTYPE
DomainTools Iris - Enrich Domains	This action enriches domains using the Iris Enrich/Investigate APIs.	Indicators	FQDN

DomainTools Iris - Enrich Domains

The DomainTools Iris - Enrich Domains action enriches the input domains using the Iris Enrich/Investigate APIs. Context such as the domain's risk score, popularity rank, and threats will be returned into ThreatQ as attributes. You also can configure the integration to bring in additional context such as MX records, NS records, reverse IPs, and more.

GET <https://api.domaintools.com/v1/iris-enrich/> GET <https://api.domaintools.com/v1/iris-investigate/>

Sample Response:

```
{
  "response": {
    "limit_exceeded": false,
    "has_more_results": false,
    "message": "Enjoy your data.",
    "results_count": 1,
    "total_count": 1,
    "results": [
      {
        "domain": "kscupdate.com",
        "whois_url": "https://whois.domaintools.com/kscupdate.com",
        "adsense": {
          "value": "",
          "count": 0
        },
        "alexa": "",
        "popularity_rank": "",
        "active": false,
        "google_analytics": {
          "value": "",
          "count": 0
        },
        "ga4": [],
        "gtm_codes": [],
        "fb_codes": [],
        "hotjar_codes": [],
        "baidu_codes": [],
        "yandex_codes": [],
        "matomo_codes": [],
        "statcounter_project_codes": [],

```

```

"statcounter_security_codes": [],
"admin_contact": {
  "name": {
    "value": "Redacted for Privacy",
    "count": 13976556
  },
  "org": {
    "value": "Privacy service provided by Withheld for
Privacy ehf",
    "count": 26541364
  },
  "street": {
    "value": "Kalkofnsvegur 2",
    "count": 15606008
  },
  "city": {
    "value": "Reykjavik",
    "count": 15635545
  },
  "state": {
    "value": "Capital Region",
    "count": 27979376
  },
  "postal": {
    "value": "101",
    "count": 15635860
  },
  "country": {
    "value": "is",
    "count": 28039803
  },
  "phone": {
    "value": "3544212434",
    "count": 15598476
  },
  "fax": {
    "value": "",
    "count": 0
  },
  "email": [
    {
      "value":

```

```
"3b3d95bb9f3d4706ab96070d181619d6.protect@withheldforprivacy.com",
    "count": 1
  }
]
},
"billing_contact": {
  "name": {
    "value": "",
    "count": 0
  },
  "org": {
    "value": "",
    "count": 0
  },
  "street": {
    "value": "",
    "count": 0
  },
  "city": {
    "value": "",
    "count": 0
  },
  "state": {
    "value": "",
    "count": 0
  },
  "postal": {
    "value": "",
    "count": 0
  },
  "country": {
    "value": "",
    "count": 0
  },
  "phone": {
    "value": "",
    "count": 0
  },
  "fax": {
    "value": "",
    "count": 0
  },
  "email": []
}
```

```

    },
    "registrant_contact": {
      "name": {
        "value": "Redacted for Privacy",
        "count": 13976556
      },
      "org": {
        "value": "Privacy service provided by Withheld for
Privacy ehf",
        "count": 26541364
      },
      "street": {
        "value": "Kalkofnsvegur 2",
        "count": 15606008
      },
      "city": {
        "value": "Reykjavik",
        "count": 15635545
      },
      "state": {
        "value": "Capital Region",
        "count": 27979376
      },
      "postal": {
        "value": "101",
        "count": 15635860
      },
      "country": {
        "value": "is",
        "count": 28039803
      },
      "phone": {
        "value": "3544212434",
        "count": 15598476
      },
      "fax": {
        "value": "",
        "count": 0
      },
      "email": [
        {
          "value":

```

```

"3b3d95bb9f3d4706ab96070d181619d6.protect@withheldforprivacy.com",
    "count": 1
  }
]
},
"technical_contact": {
  "name": {
    "value": "Redacted for Privacy",
    "count": 13976556
  },
  "org": {
    "value": "Privacy service provided by Withheld for
Privacy ehf",
    "count": 26541364
  },
  "street": {
    "value": "Kalkofnsvegur 2",
    "count": 15606008
  },
  "city": {
    "value": "Reykjavik",
    "count": 15635545
  },
  "state": {
    "value": "Capital Region",
    "count": 27979376
  },
  "postal": {
    "value": "101",
    "count": 15635860
  },
  "country": {
    "value": "is",
    "count": 28039803
  },
  "phone": {
    "value": "3544212434",
    "count": 15598476
  },
  "fax": {
    "value": "",
    "count": 0
  },
},

```

```

    "email": [
      {
        "value":
"3b3d95bb9f3d4706ab96070d181619d6.protect@withheldforprivacy.com",
        "count": 1
      }
    ],
    "create_date": {
      "value": "2023-09-25",
      "count": 268640
    },
    "expiration_date": {
      "value": "2024-09-25",
      "count": 764604
    },
    "email_domain": [
      {
        "value": "withheldforprivacy.com",
        "count": 14959106
      }
    ],
    "soa_email": [
      {
        "value": "dns@cloudflare.com",
        "count": 62959786
      }
    ],
    "ssl_email": [],
    "additional_whois_email": [
      {
        "value": "abuse@namecheap.com",
        "count": 44723965
      }
    ],
    "ip": [
      {
        "address": {
          "value": "172.67.175.217",
          "count": 1359
        },
        "asn": [

```

```

        {
          "value": 13335,
          "count": 47095995
        }
      ],
      "country_code": {
        "value": "us",
        "count": 197000302
      },
      "isp": {
        "value": "CloudFlare Inc.",
        "count": 40175752
      }
    }
  ],
  "mx": [],
  "name_server": [
    {
      "host": {
        "value": "donna.ns.cloudflare.com",
        "count": 150627
      },
      "domain": {
        "value": "cloudflare.com",
        "count": 50465465
      },
      "ip": [
        {
          "value": "108.162.192.151",
          "count": 126242
        }
      ]
    }
  ],
  "domain_risk": {
    "risk_score": 100,
    "components": [
      {
        "name": "proximity",
        "risk_score": 100
      },
      {

```

```

        "name": "threat_profile",
        "risk_score": 72,
        "threats": ["phishing"],
        "evidence": ["domain name", "name server", "registrar"]
    }
]
},
"redirect": {
    "value": "www.kaspersky.ru",
    "count": 11
},
"redirect_domain": {
    "value": "kaspersky.ru",
    "count": 14
},
"registrant_name": {
    "value": "Redacted for Privacy",
    "count": 13985389
},
"registrant_org": {
    "value": "Privacy service provided by Withheld for Privacy
ehf",
    "count": 26623684
},
"registrar": {
    "value": "NAMECHEAP INC",
    "count": 16839368
},
"registrar_status": ["clienttransferprohibited"],
"spf_info": "",
"ssl_info": [
    {
        "hash": {
            "value": "ce2ac7c0ec5413e5a5e3e38deb06a7c8829af6c5",
            "count": 1
        },
        "subject": {
            "value": "CN=kscupdate.com",
            "count": 1
        },
        "organization": {
            "value": "",

```

```

        "count": 0
    },
    "email": [],
    "alt_names": [
        {
            "value": "kscupdate.com",
            "count": 0
        }
    ],
    "sources": {
        "active": 1698129700000
    },
    "common_name": {
        "value": "kscupdate.com",
        "count": 1
    },
    "issuer_common_name": {
        "value": "GTS CA 1P5",
        "count": 17564085
    },
    "not_after": {
        "value": 20231224,
        "count": 572340
    },
    "not_before": {
        "value": 20230925,
        "count": 755678
    },
    "duration": {
        "value": 90,
        "count": 128018286
    }
}
],
"tld": "com",
"website_response": 200,
"data_updated_timestamp": "2023-12-12T22:07:01.792000",
"website_title": {
    "value": "Защитные решения кибербезопасности для дома и
бизнеса | Лаборатория Касперского",
    "count": 2
},

```

```

    "server_type": {
      "value": "nginx",
      "count": 15449368
    },
    "first_seen": {
      "value": "2023-09-25T17:33:31Z",
      "count": 0
    },
    "tags": []
  }
],
"missing_domains": []
}
}

```

ThreatQuotient provides the following default mapping for this action:



Mapping is based on each item within the results array.

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.domain_risk.risk_score	Attribute	Risk Score	.create_date	100	Updatable; User-configurable
.domain_risk.risk_score	Attribute	Normalized Risk	.create_date	Critical	Updatable; User-configurable; Derived using the Risk Score Normalization Mapping
.domain_risk.components[].risk_score	Attribute	Malware Risk Score	.create_date	71	Updatable; User-configurable; When the component name is threat_profile_malware
.domain_risk.components[].risk_score	Attribute	Phishing Risk Score	.create_date	71	Updatable; User-configurable; When the component name is threat_profile_phishing
.domain_risk.components[].risk_score	Attribute	Spam Risk Score	.create_date	71	Updatable; User-configurable; When the component name is threat_profile_spam
.domain_risk.risk_score	Attribute	Risk Score	.create_date	100	Updatable; User-configurable
.domain_risk.components[].threats[]	Attribute	Threat Type	.create_date	phishing	User-configurable
.server_type.value	Attribute	Server Type	.create_date	phishing	User-configurable
.ip[].country_code[].value	Attribute	Country Code	.create_date	US	User-configurable
.expiration_date.value	Attribute	Expiration Date	.create_date	N/A	Updatable; User-configurable

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	PUBLISHED DATE	EXAMPLES	NOTES
.create_date.value	Attribute	Creation Date	.create_date	N/A	User-configurable
.website_response	Attribute	Site Response Code	.create_date	200	Updatable; User-configurable
.website_title.value	Attribute	Site Title	.create_date	N/A	User-configurable
.alexa	Attribute	Alexa Rank	.create_date	5121	Updatable; User-configurable
.popularity_rank	Attribute	Popularity Rank	.create_date	5121	Updatable; User-configurable
.mx[].host.value	Attribute	MX Host	.create_date	N/A	User-configurable
.name_server[].host.value	Attribute	Nameserver	.create_date	N/A	User-configurable
.ip[].address.value	Indicator	IP Address	.create_date	N/A	User-configurable
.active	Attribute	Is Active	.create_date	false	Updatable; User-configurable

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.

METRIC	RESULT
Run Time	1 minute
Indicators	12
Indicator Attributes	72

Known Issues / Limitations

- Rate limits are automatically applied by the action depending on which API endpoint is used.
 - **If Iris Enrich is selected**, the action will rate limit to 60 requests per minute (in batches of 100), which will result in a maximum of 6,000 enriched indicators per minute.
 - **If Iris Investigate is selected**, the action will rate limit to 10 requests per minute (in batches of 100), which will result in a maximum of 1,000 indicators being enriched per minute.

Change Log

- **Version 1.1.0**
 - Added optional risk score normalization, allowing the overall DomainTools Risk Score to be converted into a `Normalized Risk` attribute for use with ThreatQ scoring policies.
 - Added the following configuration parameters:
 - **Normalize Risk Score** — Enables the conversion of the overall DomainTools Risk Score into a human-readable `Normalized Risk` attribute.
 - **Risk Score Normalization** — Defines the normalization ranges using a pipe-delimited CSV mapping with `Minimum`, `Maximum`, and `Normalized Value` columns.
- **Version 1.0.0**
 - Initial release