

ThreatQuotient



CrowdStrike Falcon X Sandbox CDF Guide

Version 1.1.1

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ThreatQuotient

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Versioning

- Current integration version: 1.1.1
- Supported on ThreatQ versions $\geq$ 4.43.0

Introduction

The CrowdStrike Falcon X Sandbox CDF ingests Reports, Indicators, Signatures, Malware and Attack Pattern objects based on submissions via the **CrowdStrike Falcon X Sandbox Operation**.

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 integration](#).

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 to open its details page.
4. Enter the following parameters under the **Configuration** tab:



Confirm that you are using the same Host/Credentials for both this feed and its operation counterpart - CrowdStrike Falcon X Sandbox Operation.

PARAMETER

DESCRIPTION

API Hostname

Select the appropriate CrowdStrike host. Options include:

- US-1: `api.crowdstrike.com`
- US-2: `api.us-2.crowdstrike.com` (Default)
- EU-1: `api.eu-1.crowdstrike.com`
- US-GOV-1: `api.laggar.gcw.crowdstrike.com`

Client ID

The CrowdStrike Falcon X Client ID used for authentication.

Client Secret

The CrowdStrike Falcon X Secret used for authentication.

5. Review the **Settings** configuration, 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

Falcon X Sandbox

Main feed used to retrieve report ids which will further on be used in the Falcon X Details supplemental feed.

GET <https://{HOST}/falconx/queries/reports/v1>

```
{
  "meta": {
    "query_time": 0.008275485,
    "pagination": {
      "offset": 0,
      "limit": 10,
      "total": 86
    },
    "powered_by": "falconx-api",
    "trace_id": "02ac753f-e7a5-4d39-a339-ca9080d94860",
    "quota": {
      "total": 100,
      "used": 0,
      "in_progress": 0
    }
  },
  "resources": [
    "ace79a13936f4ec8ad4de36606814bfc_e332f0252af143b89ad44b973c05124b",
    "ace79a13936f4ec8ad4de36606814bfc_43d809df175f4ff9aa4fe47b2e1d3759",
    "ace79a13936f4ec8ad4de36606814bfc_f0f165f79cb4486f8ee0013a82221de5",
    "ace79a13936f4ec8ad4de36606814bfc_0b8a0f0ea902457ca8902afa26c0fa8d",
    "ace79a13936f4ec8ad4de36606814bfc_8815c0c3180d42b18dd202fe5182e757",
    "ace79a13936f4ec8ad4de36606814bfc_133535ec09784a7ea19b155aa1092b77",
    "ace79a13936f4ec8ad4de36606814bfc_cca86b85a5804038826880ac749d3274",
    "ace79a13936f4ec8ad4de36606814bfc_f325aac08bb1415ea0e5fbd35b7dbb39",
    "ace79a13936f4ec8ad4de36606814bfc_bcd04c21f18a44a39a4c44c1cca4a830",
    "ace79a13936f4ec8ad4de36606814bfc_eebc849ccc8646fba61f1580eeb384ec"
  ],
  "errors": []
}
```

Falcon X Details (Supplemental):

Supplemental feed called once per each report id returned by the Falcon X Sandbox feed.

GET <https://{HOST}/falconx/entities/reports/v1?ids={resources}>

```
{
  "meta": {
    "query_time": 0.016763999,
    "powered_by": "falconx-api",
    "trace_id": "b3242eef-8a82-4a70-b66f-6c33a27ef30a",
    "quota": {
      "total": 100,
      "used": 0,
      "in_progress": 0
    }
  },
  "resources": [
    {
      "id": "ace79a13936f4ec8ad4de36606814bfc_f0f165f79cb4486f8ee0013a82221de5",
      "cid": "ace79a13936f4ec8ad4de36606814bfc",
      "created_timestamp": "2020-09-25T17:12:55Z",
      "origin": "apigateway",
      "verdict": "PUP",
      "ioc_report_strict_csv_artifact_id": "75375e10d727841534a6a790eb9cc618221029fb69dd10b435f256af77d7b20c",
      "ioc_report_broad_csv_artifact_id": "314c916e99a07f43b4f5720edabb3593a57134bdb6c922c549a487433cedb4bc",
      "ioc_report_strict_json_artifact_id":
"3f5e8c8325919a4c404cc00059728563f0847e8d3af0b220feafb7bd8b9437a",
      "ioc_report_broad_json_artifact_id": "bfe90e91f5cc8bfbb9e6e9c1d99a7c22ea22b5fb8961eab68e10948dc2619b45",
      "ioc_report_strict_stix_artifact_id":
"b980b6f1f1bc7e3d4b6b30f0ebbb89329691a85a8510c761e2c6c41fbaf77f8f",
      "ioc_report_broad_stix_artifact_id": "6e601826bfc72529358823d3a1768fb23a5d1b5aa4454f80097635a37ca3a956",
      "ioc_report_strict_maec_artifact_id":
"63fbf10af2e88a1ce190e047e79c50316a98f78f5a09c54a6d7854bdd8ebc8e6",
      "ioc_report_broad_maec_artifact_id": "53acc18ad1e6f266eaa395ce0be2b4461815b4588c913db0289bd1b668a80bcd",
      "sandbox": [
        {
          "sha256": "b9079fb0fff9f40d7b5544f29d260b1659d8fcf019deadc72ec2c12882203a66",
          "environment_id": 110,
          "environment_description": "Windows 7 64 bit",
          "file_size": 218112,
          "file_type": "PE32 executable (GUI) Intel 80386, for MS Windows",
          "file_type_short": [
            "peexe",
            "executable"
          ],
          "submit_name": "malware-ransom-cerber",
          "submission_type": "file",
          "verdict": "malicious",
          "threat_score": 61,
          "windows_version_name": "Windows 7",
          "windows_version_edition": "Professional",
          "windows_version_service_pack": "Service Pack 1",
          "windows_version_version": "6.1 (build 7601)",
          "windows_version_bitness": 64,
          "incidents": [
```

```
{
  "name": "Fingerprint",
  "details": [
    "Reads the active computer name"
  ]
},
"file_metadata": {
  "file_compositions": [
    "1 .OBJ Files (COFF) linked with LINK.EXE 10.10 (Visual Studio 2010) (build: 30319)",
    "6 .CPP Files (with LTCG) compiled with CL.EXE 16.00 (Visual Studio 2010) (build: 30319)",
    "152 .C Files compiled with CL.EXE 16.00 (Visual Studio 2010) (build: 30319)",
    "68 .CPP Files compiled with CL.EXE 16.00 (Visual Studio 2010) (build: 30319)",
    "2 .C Files compiled with CL.EXE 15.00 (Visual Studio 2008) (build: 30729)"
  ],
  "imported_objects": [
    "23 .LIB Files generated with LIB.EXE 9.00 (Visual Studio 2008) (build: 30729)",
    "23 .ASM Files assembled with MASM 10.00 (Visual Studio 2010) (build: 30319)",
    "1 .CPP Files compiled with CL.EXE 15.00 (Visual Studio 2008) (build: 30729)"
  ],
  "file_analysis": [
    "File contains C++ code",
    "File appears to contain raw COFF/OMF content",
    "File was optimized using LTCG and/or POGO",
    "File is the product of a large codebase (228 files)"
  ]
},
"classification": [
  "61.7% (.EXE) Win64 Executable (generic)",
  "14.7% (.DLL) Win32 Dynamic Link Library (generic)",
  "10.0% (.EXE) Win32 Executable (generic)",
  "4.5% (.EXE) OS/2 Executable (generic)",
  "4.4% (.EXE) Generic Win/DOS Executable"
],
"contacted_hosts": [
  {
    "address": "54.214.246.97",
    "port": 80,
    "protocol": "TCP",
    "associated_runtime": [
      {
        "name": "malware-ransom-cerber.exe",
        "pid": 2908
      }
    ],
    "country": "United States"
  }
],
"extracted_interesting_strings": [
  {
    "value": ".?AV?$ctype@_W@std@@",
    "type": "Ansi",
    "source": "Memory/File Scan",
    "filename": "b9079fb0fff9f40d7b5544f29d260b1659d8fcf019deadc72ec2c12882203a66.bin"
  },
  {
    "value": "\\Sessions\\1\\Windows\\ApiPort",
    "type": "Unicode",
    "source": "Runtime Data",
```

```
        "process": "malware-ransom-cerber.exe"
      }
    ],
    "signatures": [
      {
        "threat_level_human": "informative",
        "category": "General",
        "identifier": "mutant-0",
        "type": 4,
        "relevance": 3,
        "name": "Creates mutants",
        "description": "\\Sessions\\1\\BaseNamedObjects\\DBWinMutex\\\"\\n \\DBWinMutex\\\"",
        "origin": "Created Mutant"
      },
      {
        "threat_level_human": "informative",
        "category": "General",
        "identifier": "network-1",
        "type": 7,
        "relevance": 1,
        "name": "Contacts server",
        "description": "\"54.214.246.97:80\"",
        "origin": "Network Traffic"
      }
    ],
    "processes": [
      {
        "uid": "00064797-00002908",
        "name": "malware-ransom-cerber.exe",
        "normalized_path": "C:\\malware-ransom-cerber.exe",
        "sha256": "b9079fb0fff9f40d7b5544f29d260b1659d8fcf019deadc72ec2c12882203a66",
        "pid": 2908,
        "icon_artifact_id": "6fc9590b42ff8dcdbd51c4cddf7ec83bad13f08dcfc882dfbfae326a4c4d68e8d",
        "process_flags": [
          {
            "name": "Network Activity"
          }
        ],
        "registry": [
          {
            "operation": "Query",
            "path": "HKLM\\SYSTEM\\CONTROLSET001\\CONTROL\\MUI\\UILANGUAGES\\EN-US\\TYPE",
            "key": "TYPE",
            "value": "00000000040000000400000091000000"
          },
          {
            "operation": "Open",
            "path": "HKLM\\SYSTEM\\CURRENTCONTROLSET\\CONTROL\\MUI\\UILANGUAGES\\PENDINGDELETE\\"
          }
        ],
        "mutants": [
          "\\Sessions\\1\\BaseNamedObjects\\DBWinMutex",
          "DBWinMutex"
        ],
        "handles": [
          {
            "id": 4,
            "type": "KeyHandle",
            "path": "HKLM\\SOFTWARE\\Microsoft\\Windows NT\\CurrentVersion\\Image File
```

Execution Options"

```

    },
    {
      "id": 8,
      "type": "KeyHandle",
      "path": "HKLM\\SYSTEM\\ControlSet001\\Control\\SESSION MANAGER"
    }
  ],
  "file_accesses": [
    {
      "type": "CREATE",
      "path": "\\DEVICE\\NETBT_TCPIP_{C3450F58-7060-4AEA-B0A0-C245927D78D0}",
      "mask": "FILE_READ_DATA"
    }
  ]
},
"screenshots_artifact_ids": [
  "90efed5c7f1ab7d4e7c1c7218ffdc3b97337fb56c7f385f4db6bea97ff1c6971"
],
"file_imports": [
  {
    "module": "ADVAPI32.dll",
    "functions": [
      "ChangeServiceConfigW",
      "CloseServiceHandle",
      "OpenSCManagerW"
    ]
  },
  {
    "module": "KERNEL32.dll",
    "functions": [
      "CloseHandle",
      "CompareStringW",
      "CreateDirectoryW",
      "CreateFileW"
    ]
  }
],
"architecture": "32 Bit",
"packer": "VC8 -> Microsoft Corporation",
"sample_flags": [
  "Network Traffic"
],
"mitre_attacks": [
  {
    "tactic": "Persistence",
    "technique": "Kernel Modules and Extensions",
    "attack_id": "T1215",
    "informative_identifiers": [
      "Opens the Kernel Security Device Driver (KsecDD) of Windows"
    ]
  },
  {
    "tactic": "Persistence",
    "technique": "Hooking",
    "attack_id": "T1179",
    "suspicious_identifiers": [
      "Installs hooks/patches the running process"
    ]
  }
]
}

```

```

    ],
    "pcap_report_artifact_id": "9c4e58f37151e40b7ffc262fa21c94c90cfdaaf92605a2eae155ae12ff5103a8",
    "memory_strings_artifact_id": "39d08bfb8a113aca310b617922aa68024eae730f3248d0f5ddf0af983c4b2b6"
  }
],
"malquery": [
  {
    "verdict": "pua",
    "input": "b9079fb0fff9f40d7b5544f29d260b1659d8fcf019deadc72ec2c12882203a66",
    "type": "sha256",
    "resources": [
      {
        "sha256": "89fd45344d44ebf2062a5c7052f1293a0d1ae148818528cd64ab63914c3d8e71",
        "md5": "054973ed2d69bdc969ff018e3bb3d610",
        "sha1": "5583c5c0435dae9807966294ac8809d32c3a9fbb",
        "family": "Adload",
        "label": "malware",
        "file_size": 245248,
        "file_type": "PE32",
        "first_seen_timestamp": "2019-11-01T00:00:00Z"
      },
      {
        "sha256": "49ef703699d7ebcdff63c2108c0b9ab3b4ff8cc18c53d4acd50345ca1a6f1207",
        "md5": "a5a58df030caf79ed2a476a7c5586d04",
        "sha1": "b4d9d9b38b3d417bc2174d73bd5c9d38dc95cf4f",
        "family": "Adload",
        "label": "malware",
        "file_size": 245248,
        "file_type": "PE32",
        "first_seen_timestamp": "2019-10-25T00:00:00Z"
      }
    ]
  }
],
"threat_graph": {
  "indicators": [
    {
      "type": "sha256",
      "value": "b9079fb0fff9f40d7b5544f29d260b1659d8fcf019deadc72ec2c12882203a66",
      "global_prevalence": "common"
    }
  ]
},
"tags": [
  "adload"
]
},
"errors": []
}

```

ThreatQ provides the following default mapping for this feed:

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	EXAMPLES	NOTES
resources[].sandbox[].submit_name	Report.Name	N/A	'malware-ransom-cerber'	To create the Report Name we add 'Falcon X Report' before the key ('Falcon X Report malware-ransom-cerber').
resources[].created_timestamp	Report.published_at	N/A	'2020-09-25T17:12:55Z'	
resources[].sandbox[].sha256	Related.Indicator	SHA-256	'b9079fb0fff9f40d7b5544f29d260b1659d8fc019dead72ec2c12882203a66'	
resources[].sandbox[].environment_description	Report.Attribute	Environment Description	'Windows 7 64 bit'	
resources[].sandbox[].file_size	Report.Attribute	File Size	'218112'	
resources[].sandbox[].file_type	Report.Attribute	File Type	'PE32 executable (GUI) Intel 80386, for MS Windows'	
resources[].sandbox[].file_type_short[]	Report.Attribute	File Type Short	'peexe'	
resources[].sandbox[].submission_type	Report.Attribute	Submission Type	'file'	
resources[].sandbox[].verdict	Report.Attribute	Verdict	'malicious'	
resources[].sandbox[].threat_score	Report.Attribute	Threat Score	'61'	
resources[].sandbox[].incidents[].name	Report.Attribute	Incident Name	'Fingerprint'	
resources[].sandbox[].incidents[].details	Report.Attribute	Incident Detail	'Reads the active computer name'	
resources[].sandbox[].classification[]	Report.Attribute	Classification	'"61.7% (.EXE) Win64 Executable (generic)'"	
resources[].sandbox[].contacted_hosts[].country	Report.Attribute and Related Indicator.Attribute	Host Country	'United States'	
resources[].sandbox[].contacted_hosts[].address	Related Indicator	IP Address	'54.214.246.97'	
resources[].sandbox[].contacted_hosts[].port	Related Indicator.Attribute	Port	'80'	
resources[].sandbox[].contacted_hosts[].protocol	Related Indicator.Attribute	Protocol	'TCP'	
resources[].sandbox[].contacted_hosts.associated_runtime.name	Related Indicator.Indicator	Filename	'malware-ransom-cerber.exe'	
resources[].sandbox[].extracted_interesting_strings[].filename	Related Indicator	Filename	'b9079fb0fff9f40d7b5544f29d260b1659d8fc019dead72ec2c12882203a66.bin'	
resources[].sandbox[].extracted_interesting_strings[].process	Related Indicator	Filename	'malware-ransom-cerber.exe'	

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	EXAMPLES	NOTES
resources[],sandbox[],signatures.name	Related Signature.Name	Custom	'Creates mutants'	
resources[],sandbox[],signatures.description	Related Signature.Value and Related Signature.Description	N/A	""Sessions\1\BaseNamedObjects\DBWinMutex""\n "DBWinMutex"	
resources[],sandbox[],signatures.category	Related Signature.Attribute	Category	'General'	
resources[],sandbox[],signatures.identifier	Related Signature.Attribute	Identifier	'mutant-0'	
resources[],sandbox[],signatures.type	Related Signature.Attribute	Type	'4'	
resources[],sandbox[],signatures.relevance	Related Signature.Attribute	Relevance	'3'	
resources[],sandbox[],signatures.origin	Related Signature.Attribute	Origin	'Created Mutant'	
resources[],sandbox[],processes.name	Related Indicator	Filename	'malware-ransom-cerber.exe'	
resources[],sandbox[],processes.process_flags[],name	Related Indicator.Attribute	Name	'Network Activity'	
resources[],sandbox[],processes.sha256	Related Indicator.Indicator	SHA-256	'b9079fb0fff9f40d7b5544f29d260b1659d8fcf019deadc72ec2c12882203a66'	
resources[],sandbox[],processes.registry[],path	Related Indicator.Registry	Registry Key	'HKLM\SYSTEM\CONTROLSET001\CONTROL\MUI\UILANGUAGES\EN-US\TYPE'	
resources[],sandbox[],processes.registry[],key	Related Indicator.Registry.Attribute	Key	'TYPE'	
resources[],sandbox[],processes.registry[],value	Related Indicator.Registry.Attribute	Value	'00000000040000000400000091000000'	
resources[],sandbox[],processes.file_accesses[],path	Related Indicator.Indicator	File Path	'\DEVICE\NETBT_TCPIP_{C3450F58-7060-4AEA-B0A0-C245927D78D0}'	
resources[],sandbox[],mitre_attacks[],attack_id	Related Attack_pattern	Attack Pattern	'T1179'	
resources[],malquery[],resources[],family	Related Malware	Malware	'Adload'	
resources[],malquery[],resources[],file_size	Related Malware.Attribute	File Size	'245248'	
resources[],malquery[],resources[],file_type	Related Malware.Attribute	File Type	'PE32'	
resources[],malquery[],input	Related Malware.Indicator	SHA-256 or URL	'b9079fb0fff9f40d7b5544f29d260b1659d8fcf019deadc72ec2c12882203a66'	Type determined based on '.type'.
resources[],malquery[],resources[],sha256	Related Malware.Indicator	SHA-256	'89fd45344d44ebf2062a5c7052f1293a0d1ae148818528cd64ab63914c3d8e71'	
resources[],malquery[],resources[],md5	Related Malware.Indicator	MD5	'054973ed2d69bdc969ff018e3bb3d610'	
resources[],malquery[],resources[],sha1	Related Malware.Indicator	SHA-1	'5583c5c0435dae9807966294ac8809d32c3a9fbb'	

FEED DATA PATH	THREATQ ENTITY	THREATQ OBJECT TYPE OR ATTRIBUTE KEY	EXAMPLES	NOTES
resources[].threat_graph.indicators[].value	Related Indicator	SHA-256	'b9079fb0fff9f40d7b5544f29d26 0b1659d8fcf019deadc72ec2c128 82203a66'	
resources[].tags[]	Report.Tags	N/A	'adload'	

Average Feed Run

Average Feed Run results for Falcon X Sandbox:

METRIC	RESULT
Run Time	6 minutes
Reports	41
Report Attributes	530
Indicators	2,104
Indicator Attributes	1,261
Attack Patterns	15
Malwares	15
Malware Attributes	91
Signatures	329
Signature Attributes	1,597



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.

Change Log

- **Version 1.1.1**
 - Updated the **API Host** configuration parameter to function as dropdown option.
- **Version 1.1.0**
 - Added a new **API Host** configuration parameter that will allow you to enter a CrowdStrike host. See step 4 in the [Configuration](#) chapter for more information.
- **Version 1.0.0**
 - Initial release