IPQualityScore Enrichment App User Guide for the ThreatConnect Platform

Version 1.0.0

Support

For assistance with this App, to report a bug, or feature requests please contact us via the following.

Support Portal	https://www.ipqualityscore.com/contact-us
Email	Support@IPQualityScore.com
Phone	(800) 713-2618

Version History

Date	Version	Description
08th June 2021	1.0.0	User Guide for the IPQualityScore Enrichment App.

Contents

1. Introduction

IPQualityScore offers a variety of different risk analysis APIs designed to detect and mitigate online threats and abusive behaviour from even the most sophisticated bad actors. Whether its websites of all sizes or enterprise companies, IPQS has the right solutions to solve your challenges. These solutions include online fraud prevention, risk scoring, and threat mitigation. Customizable settings and international data coverage ensures our scoring models perfectly fit your audience.

IP Reputation & Proxy Detection service performs real-time lookups to instantly determine how risky a user, click, or transaction is based on an IP address and optional device information. In addition to analysing if the IP address is a proxy or VPN, the API returns over 20 relevant data points such as:

- Geo location data
- ISP
- Connection type
- Device details
- Recent reputation activity
- Overall fraud score
- Status as a proxy
- VPN
- Tor connection
- Other similar data points to classify reputation and risk

Email Validation & Reputation API provides real-time email address reputation scoring and validation with hundreds of syntax & DNS checks. The API can be leveraged to determine if the email address exists with the mail service provider and is able to accept new messages. In addition, users are also able to determine if the email address has a poor reputation and associated with any current threats. Lastly, users are able to detect disposable or temporary mail services as well as emails with a history of fraudulent behaviour online.

Malicious URL Scanner API scans links and domains in real-time to detect suspicious URLs using trusted machine learning models. These machine learning models can accurately identify phishing links, malware URLs, viruses, parked domains, and suspicious URLs with real-time risk scores. In addition, the machine learning models can confidently classify poor reputation domains, suspicious links, and phishing URLs with a real-time API integration.

Features such as parking domain detection, domain spam scores, reputation checks, and domain age, elevates URL intelligence to a whole new level.

This document describes how to configure the IPQualityScore Enrichment App provided by IPQualityScore in the ThreatConnect Platform. The IPQualityScore Enrichment Playbook App enables ThreatConnect Platform users to perform On-Demand Enrichment of IP Address Reputation, Email Address Reputation, Domain and URL Reputation using the IPQualityScore Enrichment source.

2. Configuration

2.1. Pre-Requisites

To configure the **IPQualityScore Enrichment** App in your ThreatConnect Playbooks, the following requirements need to be fulfilled:

- Access to ThreatConnect instance.
- Permission to execute ThreatConnect Playbooks.
- IPQualityScore API Key provisioned by IPQualityScore to authenticate requests to IPQualityScore API.
- IPQualityScore Enrichment app installed in ThreatConnect Instance.
- IPQualityScore Playbook Templates installed in ThreatConnect Instance.
- IPQualityScore specific Custom Attributes imported in ThreatConnect Instance.

2.2. IPQualityScore App Installation

IPQualityScore Enrichment App for ThreatConnect is available on ThreatConnect Marketplace at: https://go.threatconnect.market
Download the App package with tcx extension and install it in your ThreatConnect instance. For installation instructions, refer to the “Install an App” in the ThreatConnect System Administration Guide. For more information, contact your ThreatConnect Customer representatives.

2.3. IPQualityScore App Configuration

IPQualityScore Enrichment App has the following configuration.

- **IPQualityScore API Key - String**
  - API Key provisioned by IPQualityScore.

- **Enrichment Type - Dropdown**
  - Dropdown containing “IP Address”, “Email Address” and URL.
  - Depending on which enrichment type is chosen, different configurations will populate. A full list of configuration options are presented below.

- **IP Address/Email Address/URL - String**
  - **Note:** URL accepts both URL and Domain as inputs

- **Strictness for IP Address – Dropdown, visible when IP Address Enrichment Type is selected (default to 0)**

  - How in depth (strict) do you want this query to be? Higher values take longer to process and may provide a higher false-positive rate. We recommend starting at "0", the lowest strictness setting, and increasing to "1" or "2" depending on your levels of fraud.

- **User Agent - String, visible when IP Address Enrichment Type is selected**
  - You can optionally provide the user agent string (browser). This enables the app to run additional checks to see if the user is a bot or running an invalid browser. This allows the app to evaluate the risk of the user as judged in the "fraud_score".

- **User Language - String, visible when IP Address Enrichment Type is selected**
  - You can optionally provide the app with the user's language header. This allows the app to evaluate the risk of the user as judged in the "fraud_score".

- **Fast for IP Address - Boolean Dropdown, visible when IP Address Enrichment Type is selected**
  - When this parameter is enabled the API will not perform certain forensic checks that take longer to process. Enabling this feature greatly increases the API speed without much impact on accuracy. This option is intended for services that require decision making in a time sensitive manner and can be used for any strictness level.

- **Mobile - Boolean Dropdown, visible when IP Address Enrichment Type is selected**
  - You can optionally specify that this lookup should be treated as a mobile device. Recommended for mobile lookups that do not have a user agent attached to the request.
    - NOTE: This can cause unexpected and abnormal results if the device is not a mobile device.

- **Allow Public Access Points - Boolean Dropdown, visible when IP Address Enrichment Type is selected**
  - Bypasses certain checks for IP addresses from education and research institutions, schools, and some corporate connections to better accommodate audiences that frequently use public connections.

- **Lighter Penalties- Boolean Dropdown, visible when IP Address Enrichment Type is selected**
  - Is your scoring too strict? Enable this setting to lower detection rates and Fraud Scores for mixed quality IP addresses. If you experience any false positives with your traffic then enabling this feature will provide better results.

- **Strictness for Email Address - Dropdown, visible when Email Address Enrichment Type is selected (default to 0)**
  - Sets how strictly spam traps and honeypots are detected by our system, depending on how comfortable you are with identifying emails suspected of

being a spam trap. 0 is the lowest level which will only return spam traps with high confidence. Strictness levels above 0 will return increasingly more strict results, with level 2 providing the greatest detection rates.

- **Fast for Email Address - Boolean Dropdown, visible when Email Address Enrichment Type is selected**
  - ➢ When this parameter is enabled the API will not perform an SMTP check with the mail service provider, which greatly increases the API speed. Syntax and DNS checks are still performed on the email address as well as our disposable email detection service. This option is intended for services that require decision making in a time sensitive manner.

- **Timeout in seconds (1-60) - String, visible when Email Address Enrichment Type is selected**
  - ➢ Possible Values (1-60), Maximum number of seconds to wait for a reply from a mail service provider. If your implementation requirements do not need an immediate response, we recommend bumping this value to 20. Any results which experience a connection timeout will return the "timed_out" variable as true. Default value is 7 seconds.

- **Suggest Domain - Boolean Dropdown, visible when Email Address Enrichment Type is selected**
  - ➢ Force analyzes if the email address's domain has a typo and should be corrected to a popular mail service. By default, this test is currently only performed when the email is invalid or if the "recent abuse" status is true.

- **Abuse Strictness - Dropdown, visible when Email Address Enrichment Type is selected**
  - ➢ Set the strictness level for machine learning pattern recognition of abusive email addresses with the "recent_abuse" data point. Default level of 0 provides good coverage, however if you are filtering account applications and facing advanced fraudsters then we recommend increasing this value to level 1 or 2.

- **Strictness for URL - Dropdown, visible when URL Enrichment Type is selected (default to 0)**
  - ➢ How strict should we scan this URL? Stricter checks may provide a higher false-positive rate. We recommend defaulting to level "0", the lowest strictness setting, and increasing to "1" or "2" depending on your levels of abuse.

- **Fast for URL - Boolean Dropdown, visible when URL Enrichment Type is selected**
  - ➢ When enabled, the API will provide quicker response times using lighter checks and analysis. This setting defaults to false.

- **Fail on Error - Checkbox (default to True)**

- Fails the App when an error occurs, if set to True.

- **Fail on no results – Checkbox (default to False)**
  - Fails the App when there are no results returned by the IPQualityScore API, if set to True.

3. Outputs

Output Name	Data Type	Possible Values	Notes
ipqs.ipreputation.json.raw	String	Response String object	Raw response object from IPQualityScore API for debugging purposes.
ipqs.ipreputation.results.data	String	Processed Response String object	Processed Response String object of IP reputation object.
ipqs.emailreputation.json.raw	String	Response String object	Raw response object from IPQualityScore API for debugging purposes.
ipqs.emailreputation.results.data	String	Processed Response String object	Processed Response String object of IP reputation object.
ipqs.urlreputation.json.raw	String	Response String object	Raw response object from IPQualityScore API for debugging purposes.
ipqs.urlreputation.results.data	String	Response String object	Raw response object from IPQualityScore API for debugging purposes.

ipqs.ipreputation.json.raw , this output variable contains the JSON object containing the IP Address reputation data, that can be extracted using JMESPath App.

Attribute Name	Attribute Type	Attribute Description

proxy	boolean	Is this IP address suspected to be a proxy? (SOCKS, Elite, Anonymous, VPN, Tor, etc.)
host	string	The certificate name for passive DNS record
ISP	string	ISP if one is known. Otherwise "N/A".
Organization	string	Organization if one is known. Can be parent company or sub company of the listed ISP. Otherwise "N/A".
ASN	integer	Autonomous System Number if one is known. Null if nonexistent.
country_code	string	Two character country code of IP address or "N/A" if unknown.
city	string	City of IP address if available or "N/A" if unknown.
region	string	Region (state) of IP address if available or "N/A" if unknown.
timezone	string	Timezone of IP address if available or "N/A" if unknown.
latitude	float	Latitude of IP address if available or "N/A" if unknown.
longitude	float	Longitude of IP address if available or "N/A" if unknown.
is_crawler	boolean	Is this IP associated with being a confirmed crawler from a mainstream search engine such as Googlebot, Bingbot, Yandex, etc. based on hostname or IP address verification.
connection_type	string	Classification of the IP address connection type as "Residential", "Corporate", "Education", "Mobile", or "Data Center".
recent_abuse	boolean	This value will indicate if there has been any recently verified abuse across our network for this IP address. Abuse could be a confirmed chargeback, compromised device, fake app install, or similar malicious

		behavior within the past few days.
abuse_velocity	string	Premium Account Feature - How frequently the IP address is engaging in abuse across the IPQS threat network. Values can be "high", "medium", "low", or "none". Can be used in combination with the **Fraud Score** to identify bad behavior.
bot_status	boolean	Premium Account Feature - Indicates if bots or non-human traffic has recently used this IP address to engage in automated fraudulent behavior. Provides stronger confidence that the IP address is suspicious.
vpn	boolean	Is this IP suspected of being a VPN connection? This can include data center ranges which can become active VPNs at any time. The "proxy" status will always be true when this value is true.
tor	boolean	Is this IP suspected of being a TOR connection? This can include previously active TOR nodes and exits which can become active TOR exits at any time. The "proxy" status will always be true when this value is true.
active_vpn	boolean	Premium Account Feature - Identifies active VPN connections used by popular VPN services and private VPN servers.
active_tor	boolean	Premium Account Feature - Identifies active TOR exits on the TOR network.

mobile	boolean	Is this user agent a mobile browser? (will always be false if the user agent is not passed in the API request)
fraud_score	float	The overall fraud score of the user based on the IP, user agent, language, and any other optionally passed variables. Fraud Scores **>= 75** are suspicious, but not necessarily fraudulent. We recommend flagging or blocking traffic with Fraud Scores **>= 85**, but you may find it beneficial to use a higher or lower threshold.
request_id	string	A unique identifier for this request that can be used to lookup the request details or send a postback conversion notice.
operating_system	string	Operating system name and version or "N/A" if unknown. Requires the "user_agent" variable in the API Request.
browser	string	Browser name and version or "N/A" if unknown. Requires the "**user_agent**" variable in the API Request.
device_brand	string	Brand name of the device or "N/A" if unknown. Requires the "**user_agent**" variable in the API Request.
device_model	string	Model name of the device or "N/A" if unknown. Requires the "**user_agent**" variable in the API Request.
transaction_details	object	Additional scoring variables for risk analysis are available when transaction scoring data is passed through the API request. These variables are also useful for scoring user data such as physical addresses, phone numbers, usernames, and transaction

		details. The data points below are populated when at least 1 transaction data parameter is present in the initial API request. The following transaction variables are "null" when the necessary transaction parameters are not passed with the initial API request. For instance, not passing the "billing_email" will return "valid_billing_email" as null.
message	string	A generic status message, either success or some form of an error notice.
success	boolean	Was the request successful?
errors	String Array	Array of errors which occurred while attempting to process this request.

ipqs.ipreputation.results.data , this output variable contains the JSON object containing the processed IP Address reputation data, that can be extracted using JMESPath App.

Attribute Name	Attribute Type	Attribute Description
IPQS_Reputation	string	This value provides the IP reputation based on Fraud Score. Possible Values are: 1) Critical 2) High Risk 3) Moderate Risk 4) Suspicious 5) Clean
TC_Threat_Rating	String	This Value provides Threat Connect Threat Rating Information Possible Values are: 1) Critical Threat 2) High Threat 3) Moderate Threat 4) Suspicious

proxy	boolean	Is this IP address suspected to be a proxy? (SOCKS, Elite, Anonymous, VPN, Tor, etc.)
host	string	The certificate name for passive DNS record
ISP	string	ISP if one is known. Otherwise "N/A".
Organization	string	Organization if one is known. Can be parent company or sub company of the listed ISP. Otherwise "N/A".
ASN	integer	Autonomous System Number if one is known. Null if nonexistent.
country_code	string	Two character country code of IP address or "N/A" if unknown.
city	string	City of IP address if available or "N/A" if unknown.
region	string	Region (state) of IP address if available or "N/A" if unknown.
timezone	string	Timezone of IP address if available or "N/A" if unknown.
latitude	float	Latitude of IP address if available or "N/A" if unknown.
longitude	float	Longitude of IP address if available or "N/A" if unknown.
is_crawler	boolean	Is this IP associated with being a confirmed crawler from a mainstream search engine such as Googlebot, Bingbot, Yandex, etc. based on hostname or IP address verification.
connection_type	string	Classification of the IP address connection type as "Residential", "Corporate", "Education", "Mobile", or "Data Center".
recent_abuse	boolean	This value will indicate if there has been any recently verified abuse across our network for this IP address. Abuse could be a confirmed chargeback, compromised device, fake app install, or similar malicious

		behavior within the past few days.
abuse_velocity	string	Premium Account Feature - How frequently the IP address is engaging in abuse across the IPQS threat network. Values can be "high", "medium", "low", or "none". Can be used in combination with the **Fraud Score** to identify bad behavior.
bot_status	boolean	Premium Account Feature - Indicates if bots or non-human traffic has recently used this IP address to engage in automated fraudulent behavior. Provides stronger confidence that the IP address is suspicious.
vpn	boolean	Is this IP suspected of being a VPN connection? This can include data center ranges which can become active VPNs at any time. The "proxy" status will always be true when this value is true.
tor	boolean	Is this IP suspected of being a TOR connection? This can include previously active TOR nodes and exits which can become active TOR exits at any time. The "proxy" status will always be true when this value is true.
active_vpn	boolean	Premium Account Feature - Identifies active VPN connections used by popular VPN services and private VPN servers.
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mobile	boolean	Is this user agent a mobile browser? (will always be false if the user agent is not passed in the API request)
fraud_score	float	The overall fraud score of the user based on the IP, user agent, language, and any other optionally passed variables. Fraud Scores **>= 75** are suspicious, but not necessarily fraudulent. We recommend flagging or blocking traffic with Fraud Scores **>= 85**, but you may find it beneficial to use a higher or lower threshold.
request_id	string	A unique identifier for this request that can be used to lookup the request details or send a postback conversion notice.
operating_system	string	Operating system name and version or "N/A" if unknown. Requires the "user_agent" variable in the API Request.
browser	string	Browser name and version or "N/A" if unknown. Requires the "**user_agent**" variable in the API Request.
device_brand	string	Brand name of the device or "N/A" if unknown. Requires the "**user_agent**" variable in the API Request.
device_model	string	Model name of the device or "N/A" if unknown. Requires the "**user_agent**" variable in the API Request.
transaction_details	object	Additional scoring variables for risk analysis are available when transaction scoring data is passed through the API request. These variables are also useful for scoring user data such as physical addresses, phone numbers, usernames, and transaction

		details. The data points below are populated when at least 1 transaction data parameter is present in the initial API request. The following transaction variables are "null" when the necessary transaction parameters are not passed with the initial API request. For instance, not passing the "billing_email" will return "valid_billing_email" as null.
message	string	A generic status message, either success or some form of an error notice.
success	boolean	Was the request successful?
errors	String Array	Array of errors which occurred while attempting to process this request.

ipqs.emailreputation.json.raw , this output variable contains the JSON object containing the Email Address reputation data, that can be extracted using JMESPath App.

Attribute Name	**Attribute Type**	**Attribute Description**
valid	boolean	Does this email address appear valid?
disposable	boolean	Is this email suspected of belonging to a temporary or disposable mail service? Usually associated with fraudsters and scammers.
timed_out	boolean	Did the connection to the mail service provider timeout during the verification? If so, we recommend increasing the **"timeout"** variable above the default 7 second value. Lookups that timeout with a **"valid"** result as false are most likely false and should be not be trusted.
deliverability	string	How likely is this email to be delivered to the user and land

		in their mailbox. Values can be "high", "medium", or "low".
catch_all	boolean	Is this email likely to be a "catch all" where the mail server verifies all emails tested against it as valid? It is difficult to determine if the address is truly valid in these scenarios, since the email's server will not confirm the account's status.
leaked	boolean	Was this email address associated with a recent database leak from a third party? Leaked accounts pose a risk as they may have become compromised during a database breach.
suspect	boolean	This value indicates if the mail server is currently replying with a temporary error and unable to verify the email address. This status will also be true for "catch all" email addresses as defined below. If this value is true, then we suspect the **"valid"** result may be tainted and there is not a guarantee that the email address is truly valid.
smtp_score	integer	Validity score of email server's SMTP setup. Range: "-1" - "3". Scores above "-1" can be associated with a valid email. • **-1** = invalid email address • **0** = mail server exists, but is rejecting all mail • **1** = mail server exists, but is showing a temporary error • **2** = mail server exists, but accepts all email

		- **3** = mail server exists and has verified the email address
overall_score	integer	Overall email validity score. Range: "0" - "4". Scores above "1" can be associated with a valid email. - **0** = invalid email address - **1** = dns valid, unreachable mail server - **2** = dns valid, temporary mail rejection error - **3** = dns valid, accepts all mail - **4** = dns valid, verified email exists
first_name	string	Suspected first name based on email. Returns "CORPORATE" if the email is suspected of being a generic company email. Returns "UNKNOWN" if the first name was not determinable.
common	boolean	Is this email from a common email provider? ("gmail.com", "yahoo.com", "hotmail.com", etc.)
generic	boolean	Is this email suspected as being a catch all or shared email for a domain? ("admin@", "webmaster@", "newsletter@", "sales@", "contact@", etc.)

dns_valid	boolean	Does the email's hostname have valid DNS entries? Partial indication of a valid email.
honeypot	boolean	Is this email believed to be a "honeypot" or "SPAM trap"? **Bulk mail** sent to these emails increases your risk of being blacklisted by large ISPs & ending up in the spam folder.
spam_trap_score	string	Confidence level of the email address being an active SPAM trap. Values can be "high", "medium", "low", or "none". We recommend scrubbing emails with "high" or "medium" statuses. Avoid "low" emails whenever possible for any promotional mailings.
recent_abuse	boolean	This value will indicate if there has been any recently verified abuse across our network for this email address. Abuse could be a confirmed chargeback, fake signup, compromised device, fake app install, or similar malicious behavior within the past few days.
fraud_score	float	The overall Fraud Score of the user based on the email's reputation and recent behavior across the IPQS threat network. Fraud Scores **>= 75** are suspicious, but not necessarily fraudulent.
frequent_complainer	boolean	Indicates if this email frequently unsubscribes from marketing lists or reports email as SPAM.
suggested_domain	string	Default value is "N/A". Indicates if this email's domain should in fact be corrected to a popular mail service. This field is useful for catching user typos. For

		example, an email address with "gmai.com", would display a suggested domain of "gmail.com". This feature supports all major mail service providers.
first_seen	object	This object contains human, timestamp, iso values
domain_age	object	This object contains human, timestamp, iso values
sanitized_email	string	Sanitized email address with all aliases and masking removed, such as multiple periods for Gmail.com.
request_id	string	A unique identifier for this request that can be used to lookup the request details or send a postback conversion notice.
success	boolean	Was the request successful?
message	string	A generic status message, either success or some form of an error notice.
errors	array of strings	Array of errors which occurred while attempting to process this request.

ipqs.emailreputation.results.data, this output variable contains the JSON object containing the Processed Email Address reputation data, that can be extracted using JMESPath App.

Attribute Name	Attribute Type	Attribute Description
IPQS_Reputation	string	This value provides the IP reputation based on Fraud Score. Possible Values are: 1) Critical 2) High Risk 3) Moderate Risk 4) Low Risk 5) Invalid 6) Clean

TC_Threat_Rating	String	This Value provides Threat Connect Threat Rating Information Possible Values are: 1) Critical Threat 2) High Threat 3) Moderate Threat 4) Low Threat 5) Suspicious
valid	boolean	Does this email address appear valid?
disposable	boolean	Is this email suspected of belonging to a temporary or disposable mail service? Usually associated with fraudsters and scammers.
timed_out	boolean	Did the connection to the mail service provider timeout during the verification? If so, we recommend increasing the **"timeout"** variable above the default 7 second value. Lookups that timeout with a **"valid"** result as false are most likely false and should be not be trusted.
deliverability	string	How likely is this email to be delivered to the user and land in their mailbox. Values can be "high", "medium", or "low".
catch_all	boolean	Is this email likely to be a "catch all" where the mail server verifies all emails tested against it as valid? It is difficult to determine if the address is truly valid in these scenarios, since the email's server will not confirm the account's status.
leaked	boolean	Was this email address associated with a recent database leak from a third party? Leaked accounts pose a

		risk as they may have become compromised during a database breach.
suspect	boolean	This value indicates if the mail server is currently replying with a temporary error and unable to verify the email address. This status will also be true for "catch all" email addresses as defined below. If this value is true, then we suspect the **"valid"** result may be tainted and there is not a guarantee that the email address is truly valid.
smtp_score	integer	Validity score of email server's SMTP setup. Range: "-1" - "3". Scores above "-1" can be associated with a valid email. • **-1** = invalid email address • **0** = mail server exists, but is rejecting all mail • **1** = mail server exists, but is showing a temporary error • **2** = mail server exists, but accepts all email • **3** = mail server exists and has verified the email address
overall_score	integer	Overall email validity score. Range: "0" - "4". Scores above "1" can be associated with a valid email. • **0** = invalid email address • **1** = dns valid, unreachable mail server • **2** = dns valid, temporary mail rejection error

		• **3** = dns valid, accepts all mail • **4** = dns valid, verified email exists
first_name	string	Suspected first name based on email. Returns "CORPORATE" if the email is suspected of being a generic company email. Returns "UNKNOWN" if the first name was not determinable.
common	boolean	Is this email from a common email provider? ("gmail.com", "yahoo.com", "hotmail.com", etc.)
generic	boolean	Is this email suspected as being a catch all or shared email for a domain? ("admin@", "webmaster@", "newsletter@", "sales@", "contact@", etc.)
dns_valid	boolean	Does the email's hostname have valid DNS entries? Partial indication of a valid email.
honeypot	boolean	Is this email believed to be a "honeypot" or "SPAM trap"? **Bulk mail** sent to these emails increases your risk of being blacklisted by large ISPs & ending up in the spam folder.
spam_trap_score	string	Confidence level of the email address being an active SPAM trap. Values can be "high", "medium", "low", or "none". We recommend scrubbing emails with "high" or "medium" statuses. Avoid "low" emails whenever possible for any promotional mailings.

recent_abuse	boolean	This value will indicate if there has been any recently verified abuse across our network for this email address. Abuse could be a confirmed chargeback, fake signup, compromised device, fake app install, or similar malicious behavior within the past few days.
fraud_score	float	The overall Fraud Score of the user based on the email's reputation and recent behavior across the IPQS threat network. Fraud Scores **>= 75** are suspicious, but not necessarily fraudulent.
frequent_complainer	boolean	Indicates if this email frequently unsubscribes from marketing lists or reports email as SPAM.
suggested_domain	string	Default value is "N/A". Indicates if this email's domain should in fact be corrected to a popular mail service. This field is useful for catching user typos. For example, an email address with "gmai.com", would display a suggested domain of "gmail.com". This feature supports all major mail service providers.
first_seen	object	This object contains human, timestamp, iso values
domain_age	object	This object contains human, timestamp, iso values
sanitized_email	string	Sanitized email address with all aliases and masking removed, such as multiple periods for Gmail.com.
request_id	string	A unique identifier for this request that can be used to lookup the request details or send a postback conversion notice.
success	boolean	Was the request successful?

message	string	A generic status message, either success or some form of an error notice.
errors	array of strings	Array of errors which occurred while attempting to process this request.

ipqs.urlreputation.json.raw , this output variable contains the JSON object containing the Malicious URL data, that can be extracted using JMESPath App.

Attribute Name	Attribute Type	Attribute Description
unsafe	boolean	Is this domain suspected of being unsafe due to phishing, malware, spamming, or abusive behavior? View the confidence level by analyzing the "risk_score"
domain	boolean	Domain name of the final destination URL of the scanned link, after following all redirects.
ip_address	string	The IP address corresponding to the server of the domain name.
server	string	The server banner of the domain's IP address. For example: "nginx/1.16.0". Value will be "N/A" if unavailable.
content_type	string	MIME type of URL's content. For example "text/html; charset=UTF-8". Value will be "N/A" if unavailable.
risk_score	integer	The IPQS risk score which estimates the confidence level for malicious URL detection. Risk Scores 85+ are high risk, while Risk Scores = 100 are confirmed as accurate
status_code	integer	HTTP Status Code of the URL's response. This value should be

		"200" for a valid website. Value is "0" if URL is unreachable.
page_size	integer	Total number of bytes to download the URL's content. Value is "0" if URL is unreachable.
domain_rank	integer	Estimated popularity rank of website globally. Value is "0" if the domain is unranked or has low traffic.
dns_valid	boolean	The domain of the URL has valid DNS records.
suspicious	boolean	Is this URL suspected of being malicious or used for phishing or abuse? Use in conjunction with the "risk_score" as a confidence level.
phishing	boolean	Is this URL associated with malicious phishing behavior?
malware	boolean	Is this URL associated with malware or viruses?
parking	boolean	Is the domain of this URL currently parked with a for sale notice?
spamming	boolean	Is the domain of this URL associated with email SPAM or abusive email addresses?
adult	boolean	Is this URL or domain hosting dating or adult content?
domain_age	object	This object contains human, timestamp, iso values
message	string	A generic status message, either success or some form of an error notice.
success	boolean	Was the request successful?
Errors	array of strings	Array of errors which occurred while attempting to process this request.

ipqs.urlreputation.results.data , this output variable contains the JSON object containing the Processed Malicious URL data, that can be extracted using JMESPath App.

Attribute Name	**Attribute Type**	**Attribute Description**

IPQS_Reputation	string	This value provides the IP reputation based on Fraud Score. Possible Values are: 1) Critical 2) High Risk 3) Moderate Risk 4) Low Risk 5) Suspicious 6) Clean
TC_Threat_Rating	String	This Value provides Threat Connect Threat Rating Information Possible Values are: 1) Critical Threat 2) High Threat 3) Moderate Threat 4) Low Threat 5) Suspicious
unsafe	boolean	Is this domain suspected of being unsafe due to phishing, malware, spamming, or abusive behavior? View the confidence level by analyzing the "risk_score"
domain	boolean	Domain name of the final destination URL of the scanned link, after following all redirects.
ip_address	string	The IP address corresponding to the server of the domain name.
server	string	The server banner of the domain's IP address. For example: "nginx/1.16.0". Value will be "N/A" if unavailable.
content_type	string	MIME type of URL's content. For example "text/html; charset=UTF-8". Value will be "N/A" if unavailable.

risk_score	integer	The IPQS risk score which estimates the confidence level for malicious URL detection. Risk Scores 85+ are high risk, while Risk Scores = 100 are confirmed as accurate
status_code	integer	HTTP Status Code of the URL's response. This value should be "200" for a valid website. Value is "0" if URL is unreachable.
page_size	integer	Total number of bytes to download the URL's content. Value is "0" if URL is unreachable.
domain_rank	integer	Estimated popularity rank of website globally. Value is "0" if the domain is unranked or has low traffic.
dns_valid	boolean	The domain of the URL has valid DNS records.
suspicious	boolean	Is this URL suspected of being malicious or used for phishing or abuse? Use in conjunction with the "risk_score" as a confidence level.
phishing	boolean	Is this URL associated with malicious phishing behavior?
malware	boolean	Is this URL associated with malware or viruses?
parking	boolean	Is the domain of this URL currently parked with a for sale notice?
spamming	boolean	Is the domain of this URL associated with email SPAM or abusive email addresses?
adult	boolean	Is this URL or domain hosting dating or adult content?
domain_age	object	This object contains human, timestamp, iso values
message	string	A generic status message, either success or some form of an error notice.
success	boolean	Was the request successful?

Errors	array of strings	Array of errors which occurred while attempting to process this request.

4. IPQualityScore Playbook Templates

4.1. IPQualityScore Playbook Templates Installation

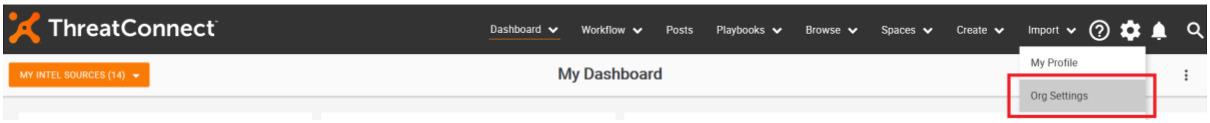
IPQualityScore provides three Playbook Templates **IPQualityScore IP Address Reputation Playbook Template.pbx**, **IPQualityScore Email Reputation Playbook Template.pbx** and **IPQualityScore URL Reputation Playbook Template.pbx** which are available on GitHub at: GitHub Link. These templates provide a basic understanding on how to use the IPQualityScore Enrichment App in the playbooks.

To install these Playbook Templates, go to the Playbooks tab within the ThreatConnect Platform. Select New > Import and locate the .pbx file you wish to add to your ThreatConnect Platform. Follow the on-screen instructions to complete the Playbook Template import.

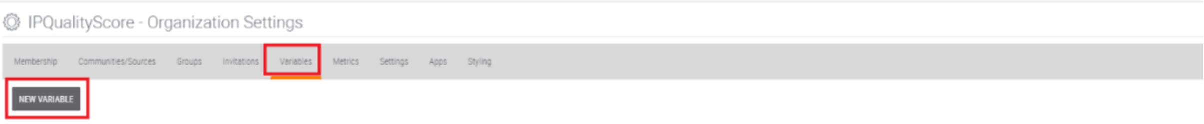
4.2. IPQualityScore API Key Variable Set Up

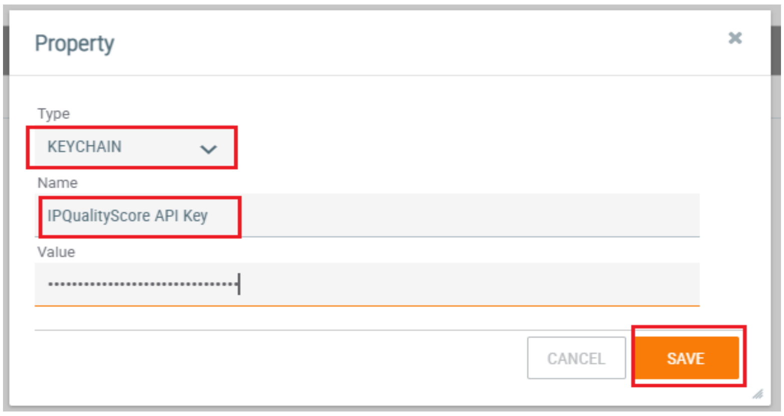
Note: This step is required, if not Playbook Templates will not work as expected. If you want to skip this step, you need to provide IPQualityScore API Key in each of the Playbook Template.

- Click on the settings (gear icon) in the top right corner in the ThreatConnect platform to select Org Settings and then Variables.



- Go to Variables.
  1. Click on New Variable
  2. Type = KEYCHAIN
  3. Name = IPQualityScore API Key
  4. Value = API Key provided by IPQualityScore
  5. Click on Save.





Property

Type: KEYCHAIN

Name: IPQualityScore API Key

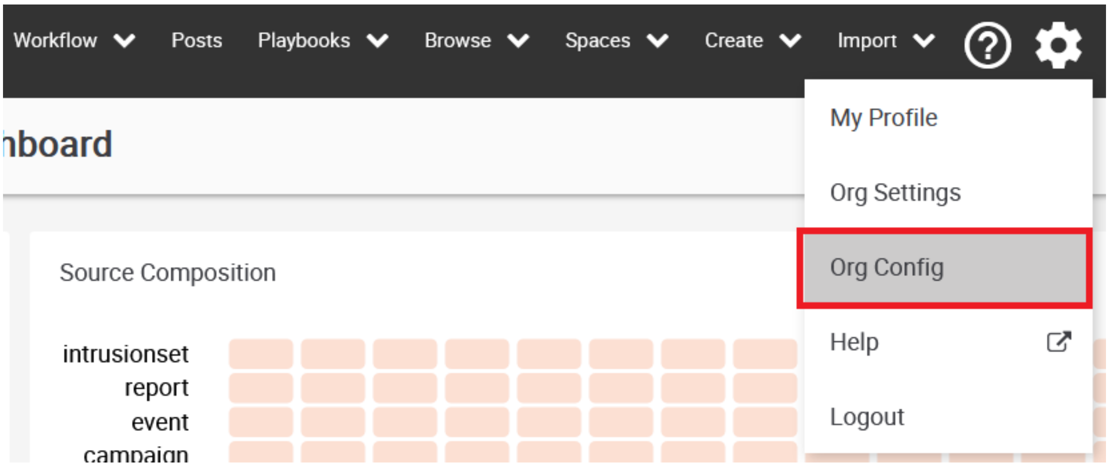
Value: ································

4.3. IPQualityScore Custom Attributes Set Up

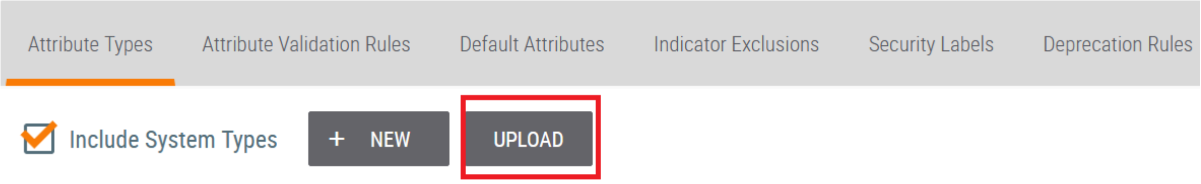
Note: This step is required, if not Playbook Templates will not work as expected.

You can find the **IPQualityScore_Attributes.json** file available on GitHub at: GitHub Link., please download it.

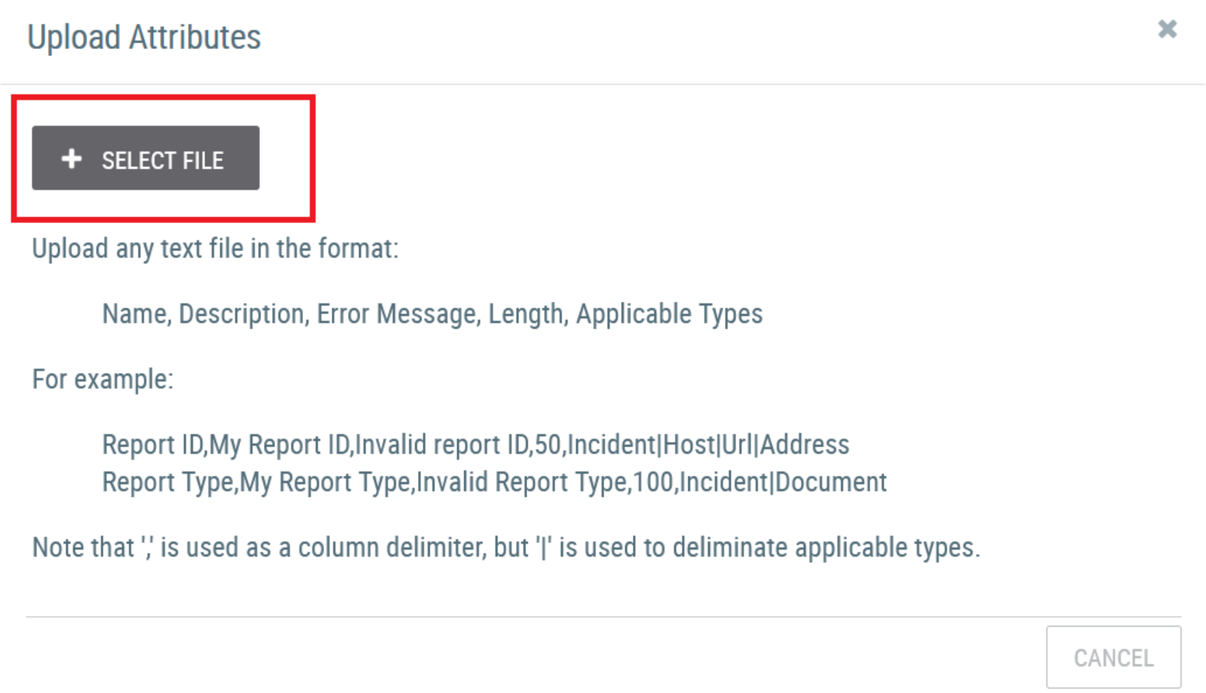
Step 1: Click on the settings (gear icon) in the top right to get to your Org Config page as shown below.



Step 2: Click on the Upload button as shown below.



Step 3: Click on the Select File button and navigate to the **IPQualityScore_Attributes.json** file, which was downloaded previously.



Upload Attributes

Upload any text file in the format:

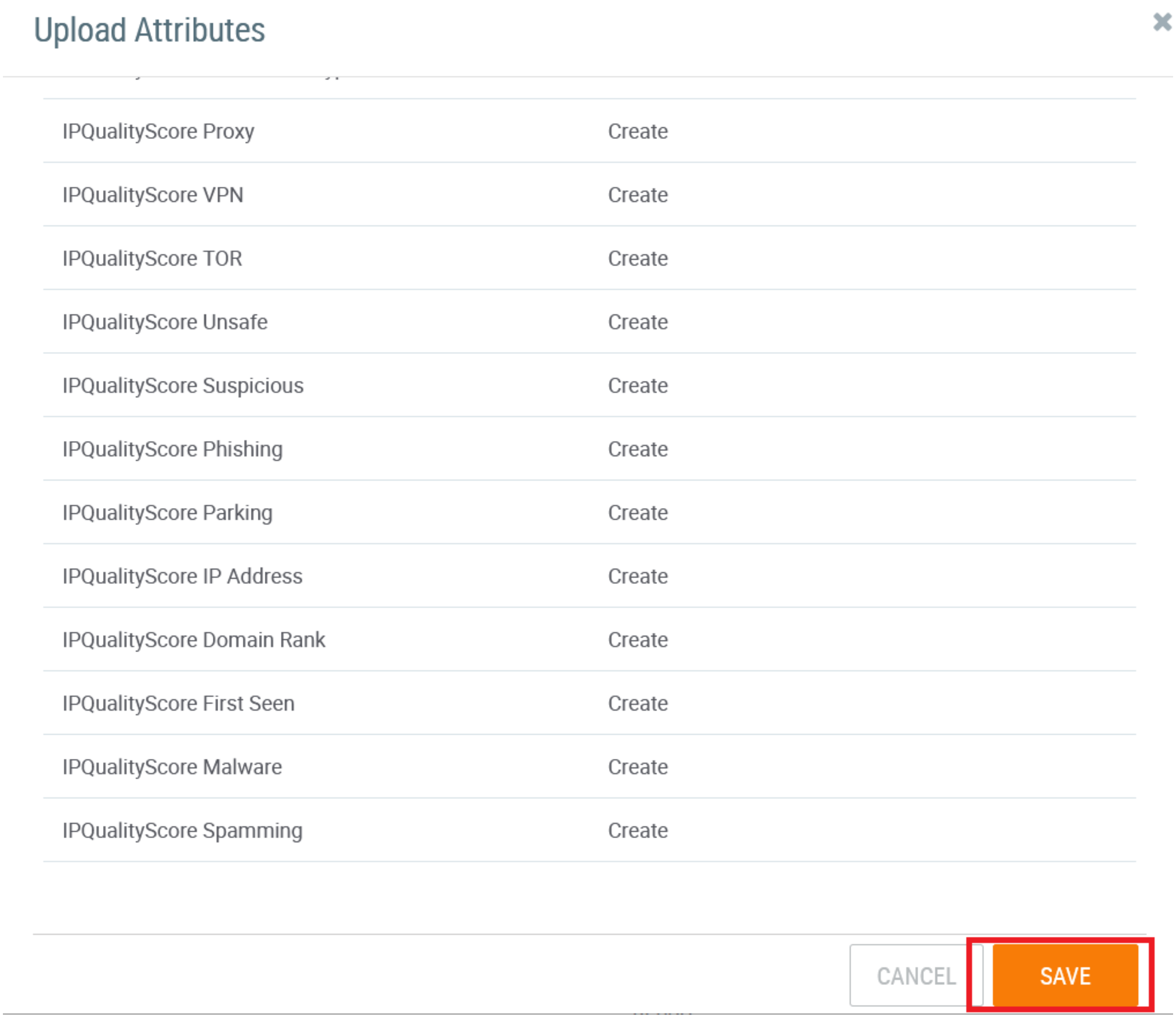
Name, Description, Error Message, Length, Applicable Types

For example:

```
Report ID,My Report ID,Invalid report ID,50,Incident|Host|Url|Address
Report Type,My Report Type,Invalid Report Type,100,Incident|Document
```

Note that ',' is used as a column delimiter, but '|' is used to deliminate applicable types.

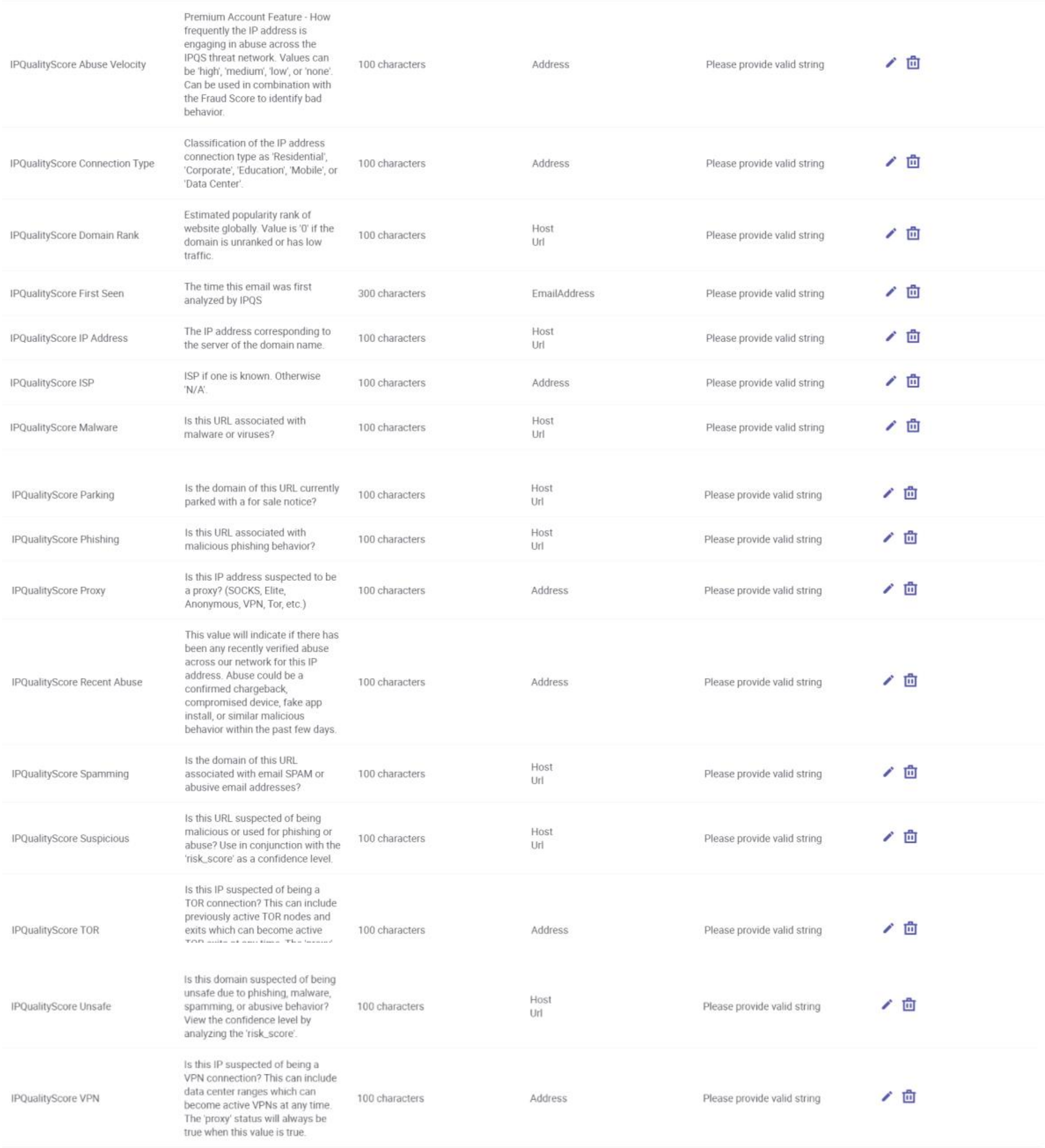
Step 4: Click on Save to create the IPQualityScore Custom Attributes.



Upload Attributes

IPQualityScore Proxy	Create
IPQualityScore VPN	Create
IPQualityScore TOR	Create
IPQualityScore Unsafe	Create
IPQualityScore Suspicious	Create
IPQualityScore Phishing	Create
IPQualityScore Parking	Create
IPQualityScore IP Address	Create
IPQualityScore Domain Rank	Create
IPQualityScore First Seen	Create
IPQualityScore Malware	Create
IPQualityScore Spamming	Create

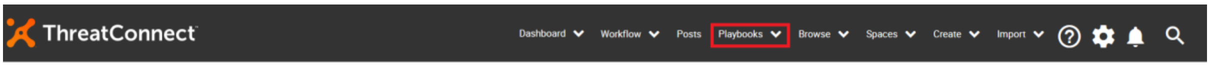
Step 5: After saving the IPQualityScore custom attributes will be created as shown below.



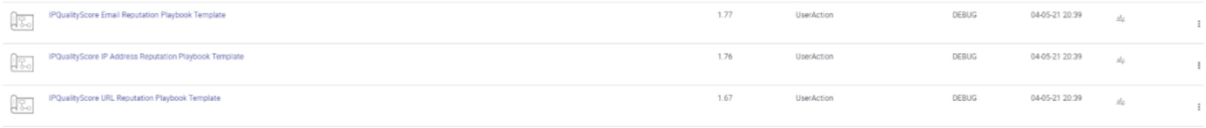
IPQualityScore Abuse Velocity	Premium Account Feature - How frequently the IP address is engaging in abuse across the IPQS threat network. Values can be 'high', 'medium', 'low', or 'none'. Can be used in combination with the Fraud Score to identify bad behavior.	100 characters	Address	Please provide valid string	✎ 🗑
IPQualityScore Connection Type	Classification of the IP address connection type as 'Residential', 'Corporate', 'Education', 'Mobile', or 'Data Center'.	100 characters	Address	Please provide valid string	✎ 🗑
IPQualityScore Domain Rank	Estimated popularity rank of website globally. Value is '0' if the domain is unranked or has low traffic.	100 characters	Host Url	Please provide valid string	✎ 🗑
IPQualityScore First Seen	The time this email was first analyzed by IPQS	300 characters	EmailAddress	Please provide valid string	✎ 🗑
IPQualityScore IP Address	The IP address corresponding to the server of the domain name.	100 characters	Host Url	Please provide valid string	✎ 🗑
IPQualityScore ISP	ISP if one is known. Otherwise 'N/A'.	100 characters	Address	Please provide valid string	✎ 🗑
IPQualityScore Malware	Is this URL associated with malware or viruses?	100 characters	Host Url	Please provide valid string	✎ 🗑
IPQualityScore Parking	Is the domain of this URL currently parked with a for sale notice?	100 characters	Host Url	Please provide valid string	✎ 🗑
IPQualityScore Phishing	Is this URL associated with malicious phishing behavior?	100 characters	Host Url	Please provide valid string	✎ 🗑
IPQualityScore Proxy	Is this IP address suspected to be a proxy? (SOCKS, Elite, Anonymous, VPN, Tor, etc.)	100 characters	Address	Please provide valid string	✎ 🗑
IPQualityScore Recent Abuse	This value will indicate if there has been any recently verified abuse across our network for this IP address. Abuse could be a confirmed chargeback, compromised device, fake app install, or similar malicious behavior within the past few days.	100 characters	Address	Please provide valid string	✎ 🗑
IPQualityScore Spamming	Is the domain of this URL associated with email SPAM or abusive email addresses?	100 characters	Host Url	Please provide valid string	✎ 🗑
IPQualityScore Suspicious	Is this URL suspected of being malicious or used for phishing or abuse? Use in conjunction with the 'risk_score' as a confidence level.	100 characters	Host Url	Please provide valid string	✎ 🗑
IPQualityScore TOR	Is this IP suspected of being a TOR connection? This can include previously active TOR nodes and exits which can become active TOR exits at any time. The 'proxy'	100 characters	Address	Please provide valid string	✎ 🗑
IPQualityScore Unsafe	Is this domain suspected of being unsafe due to phishing, malware, spamming, or abusive behavior? View the confidence level by analyzing the 'risk_score'.	100 characters	Host Url	Please provide valid string	✎ 🗑
IPQualityScore VPN	Is this IP suspected of being a VPN connection? This can include data center ranges which can become active VPNs at any time. The 'proxy' status will always be true when this value is true.	100 characters	Address	Please provide valid string	✎ 🗑

4.4. IPQualityScore Playbook Templates Activation

Step1: Go to the playbook menu in the top banner area to select the IPQualityScore playbook Templates as shown below.

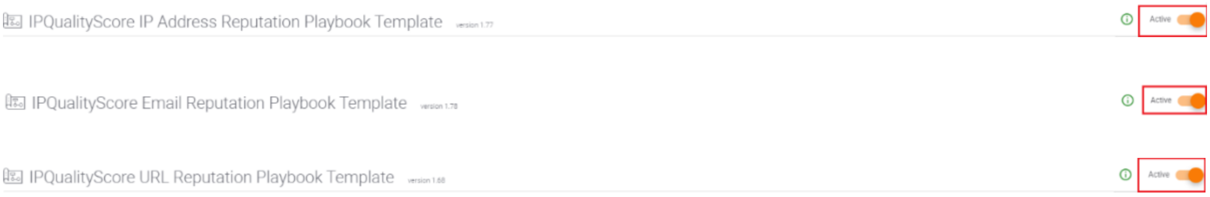


Step2: Click and open each of the IPQualityScore playbook Templates.



IPQualityScore Email Reputation Playbook Template	1.77	UserAction	DEBUG	04-05-21 20:39
IPQualityScore IP Address Reputation Playbook Template	1.76	UserAction	DEBUG	04-05-21 20:39
IPQualityScore URL Reputation Playbook Template	1.67	UserAction	DEBUG	04-05-21 20:39

Step3: Toggle the switch to mark the playbook as active.



IPQualityScore IP Address Reputation Playbook Template version 1.77 Active

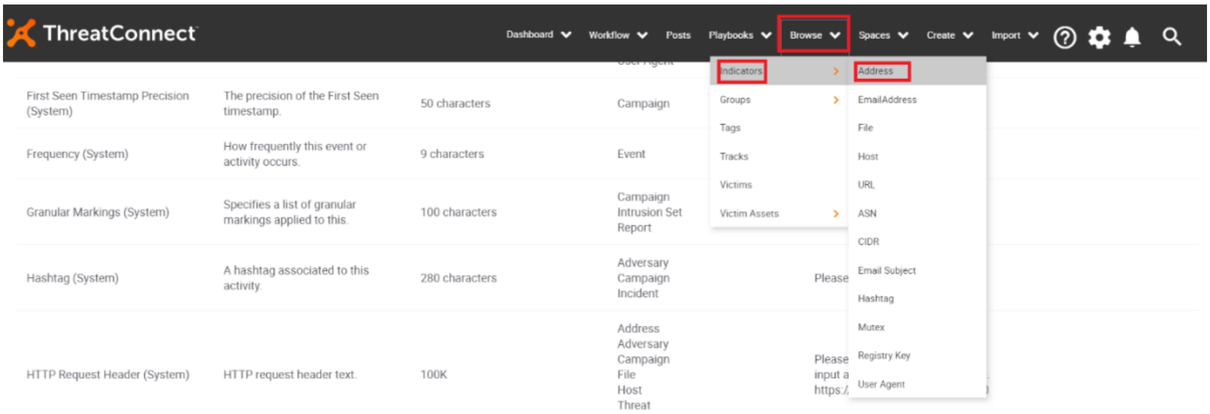
IPQualityScore Email Reputation Playbook Template version 1.78 Active

IPQualityScore URL Reputation Playbook Template version 1.68 Active

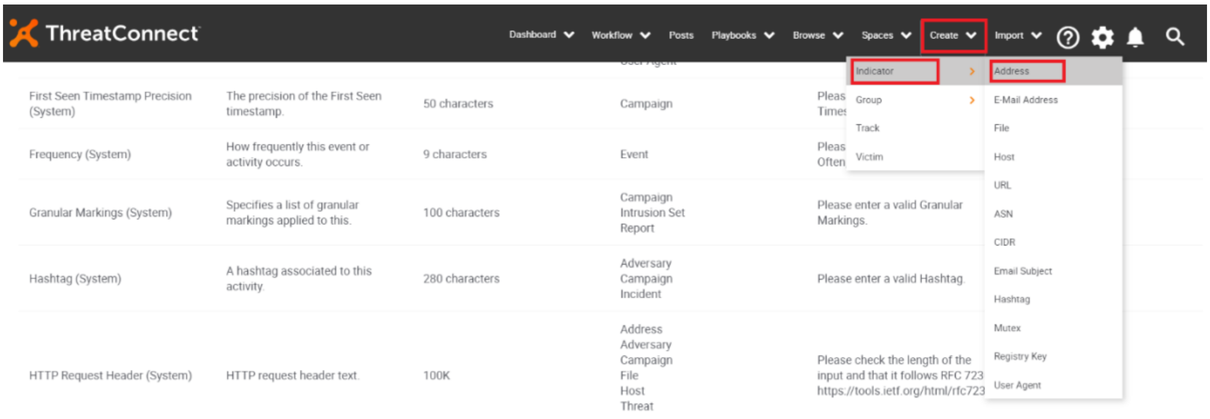
5. Running IP Address Reputation Playbook Template

This Playbook Template provides the Reputation (Critical, High Risk, Moderate Risk, Suspicious, Clean) and Threat Rating (Critical Threat, High Threat, Moderate Threat, Suspicious) for the provided IP Address based on recent reputation and risk analysis across the IPQS threat network. The Playbook also enriches the IP address with reputation details such as Fraud Score, Abuse Velocity, Connection Type, ISP, Recent Abuse, and Proxy/VPN & TOR status as custom attributes and other important data points such as location and organization in the description attribute.

Step1: Browse to the existing Address Indicator (or) Create a new Address Indicator as shown below.

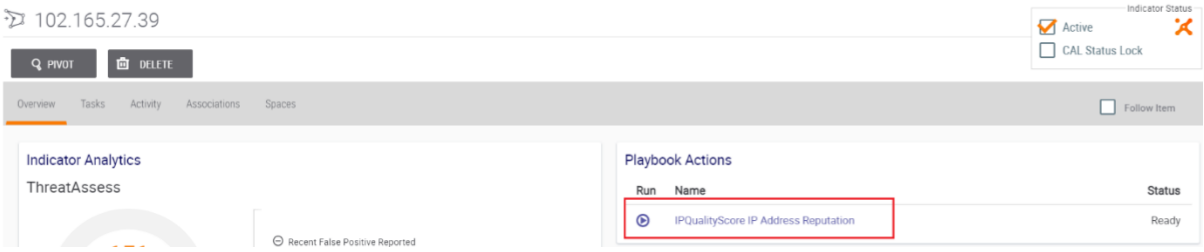


First Seen Timestamp Precision (System)	The precision of the First Seen timestamp.	50 characters	Campaign	
Frequency (System)	How frequently this event or activity occurs.	9 characters	Event	
Granular Markings (System)	Specifies a list of granular markings applied to this.	100 characters	Campaign Intrusion Set Report	
Hashtag (System)	A hashtag associated to this activity.	280 characters	Adversary Campaign Incident	Please
HTTP Request Header (System)	HTTP request header text.	100K	Address Adversary Campaign File Host Threat	Please input a https:/



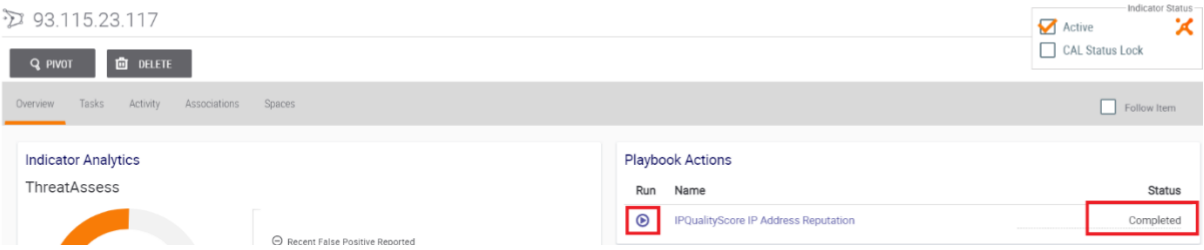
First Seen Timestamp Precision (System)	The precision of the First Seen timestamp.	50 characters	Campaign	Pleas Times
Frequency (System)	How frequently this event or activity occurs.	9 characters	Event	Pleas Often
Granular Markings (System)	Specifies a list of granular markings applied to this.	100 characters	Campaign Intrusion Set Report	Please enter a valid Granular Markings.
Hashtag (System)	A hashtag associated to this activity.	280 characters	Adversary Campaign Incident	Please enter a valid Hashtag.
HTTP Request Header (System)	HTTP request header text.	100K	Address Adversary Campaign File Host Threat	Please check the length of the input and that it follows RFC 723 https://tools.ietf.org/html/rfc723

Step2: You can see the “IPQualityScore IP Address Reputation” Playbook Action in the Address Indicator details page.



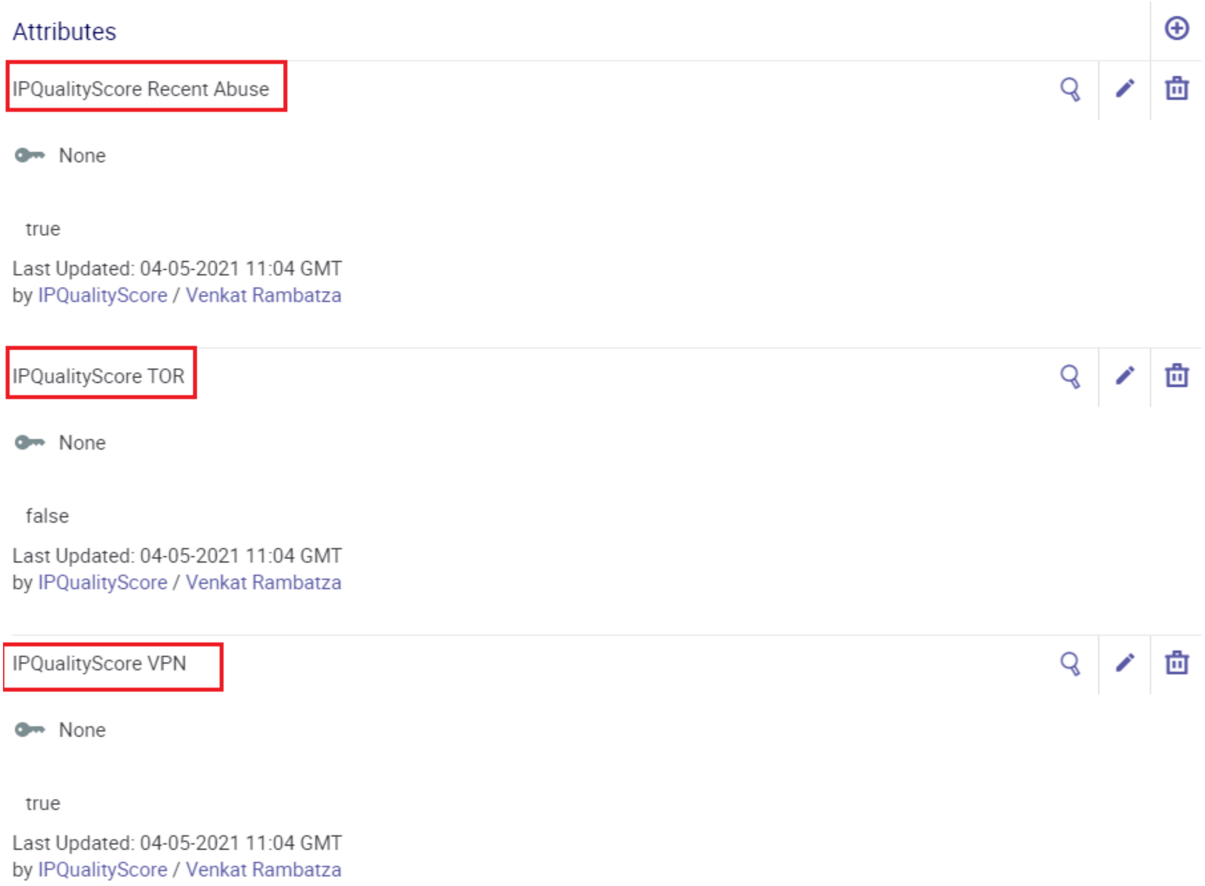
Run	Name	Status
▶	IPQualityScore IP Address Reputation	Ready

Step3: Run the playbook by clicking on the Play button. The Status for the playbook Action will change to Completed when done.



Run	Name	Status
▶	IPQualityScore IP Address Reputation	Completed

Step4: Now, refresh the Indicator Details page. You will see the following Custom attributes are created.



Attributes

IPQualityScore Recent Abuse

None

true

Last Updated: 04-05-2021 11:04 GMT
by IPQualityScore / Venkat Rambatza

IPQualityScore TOR

None

false

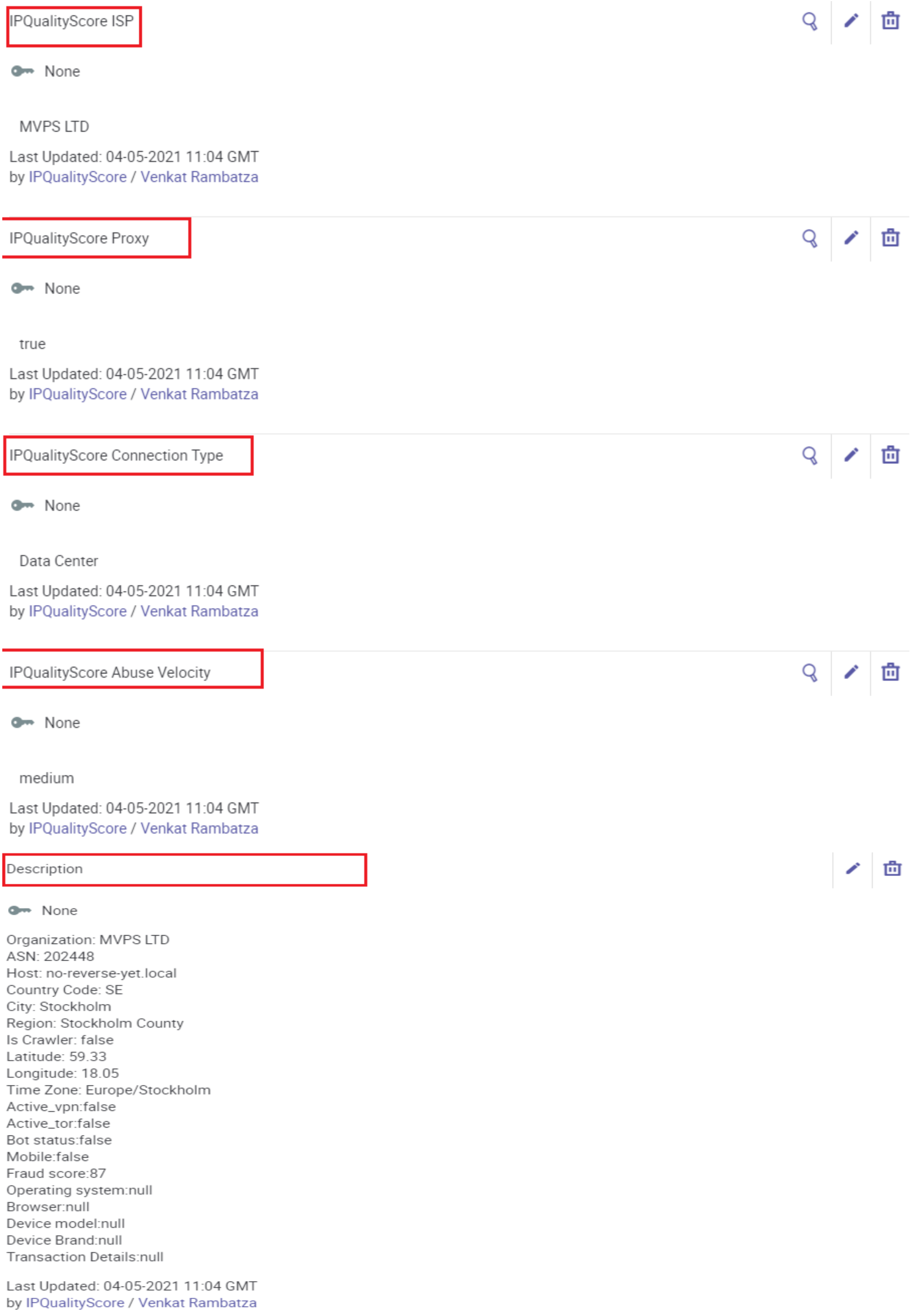
Last Updated: 04-05-2021 11:04 GMT
by IPQualityScore / Venkat Rambatza

IPQualityScore VPN

None

true

Last Updated: 04-05-2021 11:04 GMT
by IPQualityScore / Venkat Rambatza



IPQualityScore ISP

None

MVPS LTD

Last Updated: 04-05-2021 11:04 GMT
by IPQualityScore / Venkat Rambatza

IPQualityScore Proxy

None

true

Last Updated: 04-05-2021 11:04 GMT
by IPQualityScore / Venkat Rambatza

IPQualityScore Connection Type

None

Data Center

Last Updated: 04-05-2021 11:04 GMT
by IPQualityScore / Venkat Rambatza

IPQualityScore Abuse Velocity

None

medium

Last Updated: 04-05-2021 11:04 GMT
by IPQualityScore / Venkat Rambatza

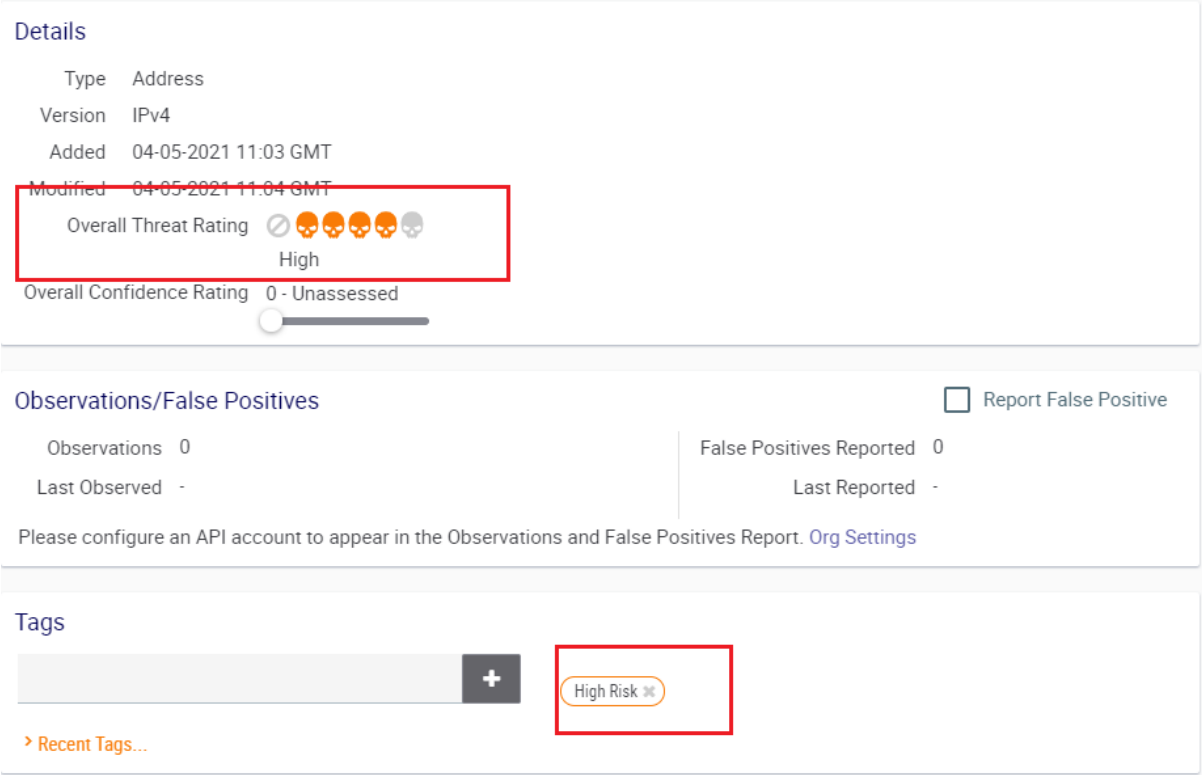
Description

None

Organization: MVPS LTD
ASN: 202448
Host: no-reverse-yet.local
Country Code: SE
City: Stockholm
Region: Stockholm County
Is Crawler: false
Latitude: 59.33
Longitude: 18.05
Time Zone: Europe/Stockholm
Active_vpn:false
Active_tor:false
Bot status:false
Mobile:false
Fraud score:87
Operating system:null
Browser:null
Device model:null
Device Brand:null
Transaction Details:null

Last Updated: 04-05-2021 11:04 GMT
by IPQualityScore / Venkat Rambatza

Step5: You will see IPQualityScore Tag and Threat Rating will be updated based on API Response. For detailed Mapping, please refer Threat Rating Metrics Table.



Details

Type Address
Version IPv4
Added 04-05-2021 11:03 GMT
Modified 04-05-2021 11:04 GMT
Overall Threat Rating High
Overall Confidence Rating 0 - Unassessed

Observations/False Positives

□ Report False Positive

Observations 0
Last Observed -
False Positives Reported 0
Last Reported -

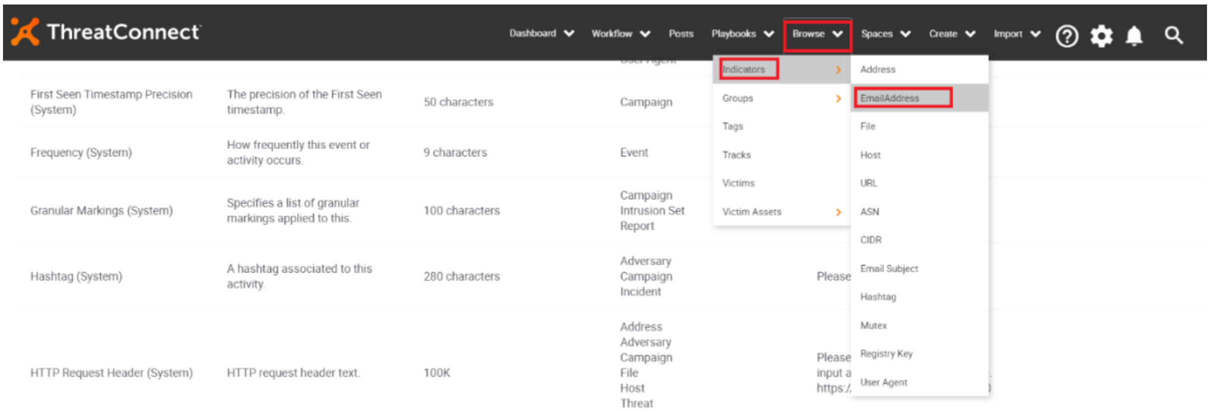
Please configure an API account to appear in the Observations and False Positives Report. Org Settings

Tags

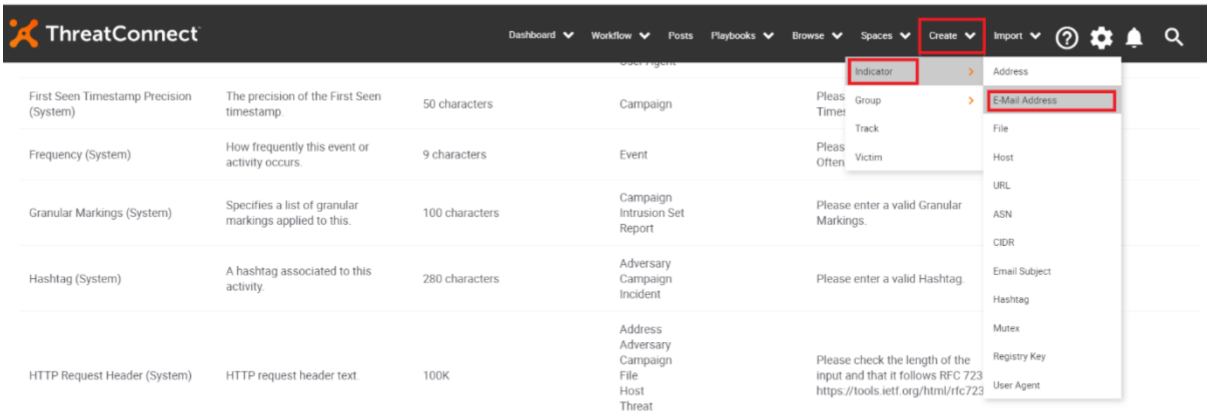
6. Running Email Address Reputation Playbook Template

This Playbook Template provides the Reputation (Critical, High Risk, Moderate Risk, Low Risk, Invalid, Clean) and Threat Rating (Critical Threat, High Threat, Moderate Threat, Low Threat, Suspicious) for the provided Email Address based on the status of email's inbox (validation check) and recent reputation across the IPQS threat network. It also adds First Seen information as a custom attribute and other important information such as Fraud Score, Recent Abuse, Deliverability, and more in the description attribute for the provided Email Address.

Step1: Browse to the existing Email Address Indicator (or) Create a new Email Address Indicator as shown below.

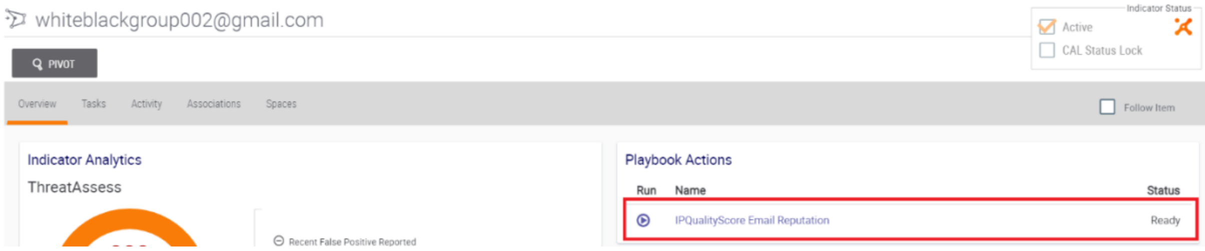


First Seen Timestamp Precision (System)	The precision of the First Seen timestamp.	50 characters	Campaign	
Frequency (System)	How frequently this event or activity occurs.	9 characters	Event	
Granular Markings (System)	Specifies a list of granular markings applied to this.	100 characters	Campaign Intrusion Set Report	
Hashtag (System)	A hashtag associated to this activity.	280 characters	Adversary Campaign Incident	Please
HTTP Request Header (System)	HTTP request header text.	100K	Address Adversary Campaign File Host Threat	Please input a https:/



First Seen Timestamp Precision (System)	The precision of the First Seen timestamp.	50 characters	Campaign	Pleas Times
Frequency (System)	How frequently this event or activity occurs.	9 characters	Event	Pleas Often
Granular Markings (System)	Specifies a list of granular markings applied to this.	100 characters	Campaign Intrusion Set Report	Please enter a valid Granular Markings.
Hashtag (System)	A hashtag associated to this activity.	280 characters	Adversary Campaign Incident	Please enter a valid Hashtag.
HTTP Request Header (System)	HTTP request header text.	100K	Address Adversary Campaign File Host Threat	Please check the length of the input and that it follows RFC 723 https://tools.ietf.org/html/rfc723

Step2: You can see the "IPQualityScore Email Address Reputation" Playbook Action in the Address Indicator details page.



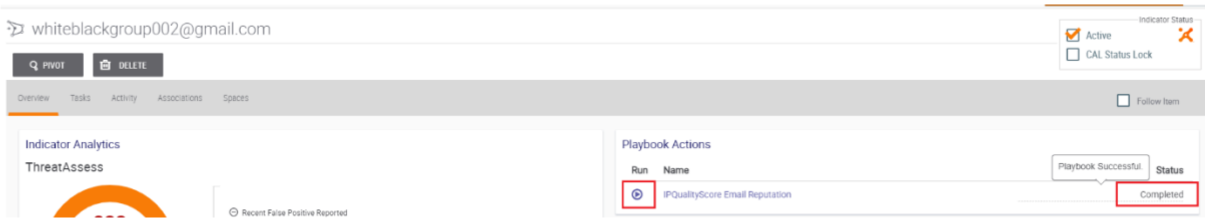
whiteblackgroup002@gmail.com

☑ Active
☐ CAL Status Lock

Playbook Actions

Run	Name	Status
⊙	IPQualityScore Email Reputation	Ready

Step3: Run the playbook by clicking on the Play button. The Status for the playbook Action will change to Completed when done.



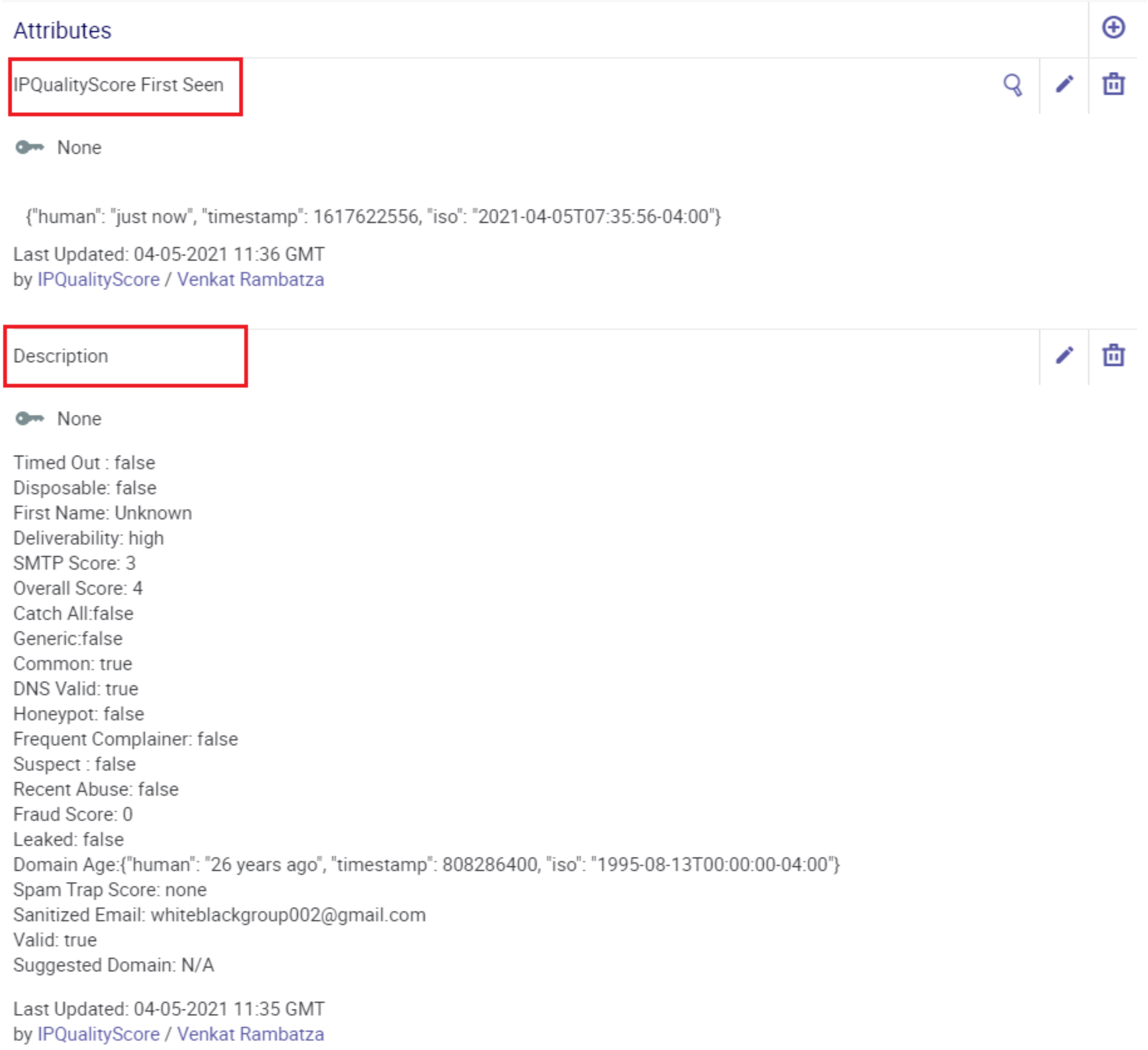
whiteblackgroup002@gmail.com

☑ Active
☐ CAL Status Lock

Playbook Actions

Run	Name	Status
⊙	IPQualityScore Email Reputation	Completed

Step4: Now, refresh the Email Address Indicator Details page. You will see the following Custom attributes are created.



Attributes

IPQualityScore First Seen

None

{"human": "just now", "timestamp": 1617622556, "iso": "2021-04-05T07:35:56-04:00"}

Last Updated: 04-05-2021 11:36 GMT
by IPQualityScore / Venkat Rambatza

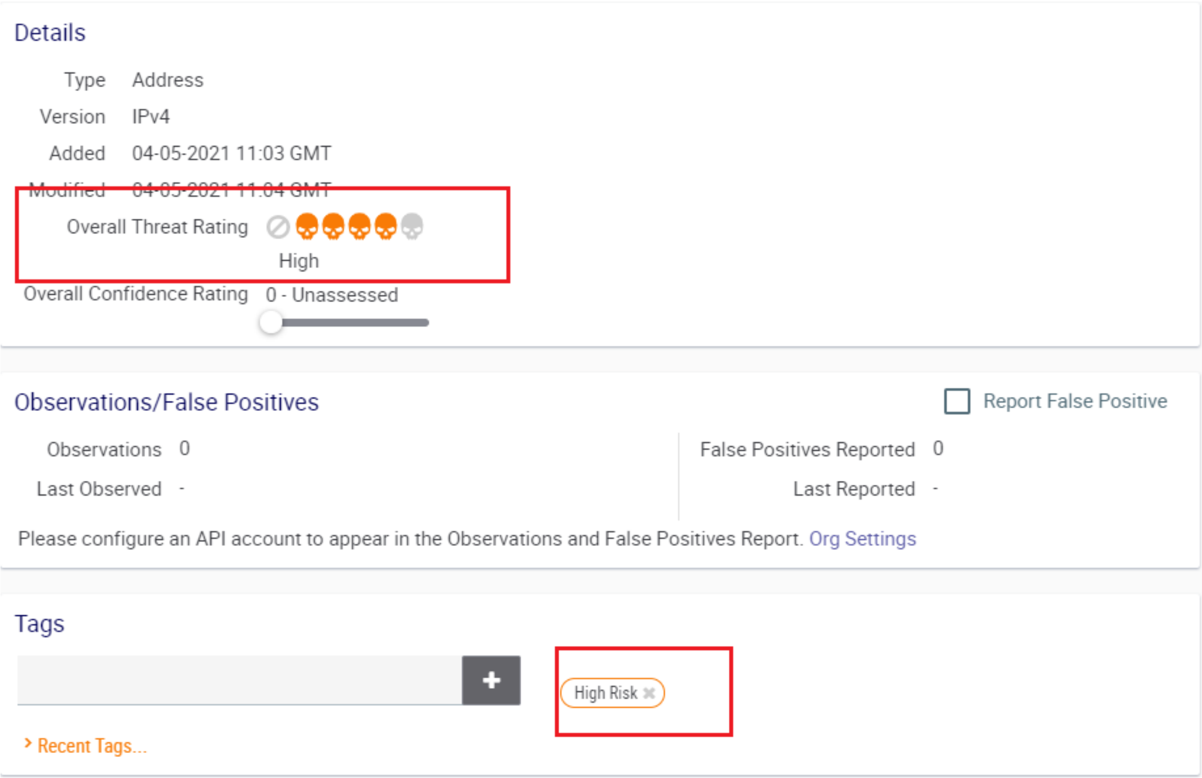
Description

None

Timed Out : false
Disposable: false
First Name: Unknown
Deliverability: high
SMTP Score: 3
Overall Score: 4
Catch All:false
Generic:false
Common: true
DNS Valid: true
Honeypot: false
Frequent Complainer: false
Suspect : false
Recent Abuse: false
Fraud Score: 0
Leaked: false
Domain Age:{"human": "26 years ago", "timestamp": 808286400, "iso": "1995-08-13T00:00:00-04:00"}
Spam Trap Score: none
Sanitized Email: whiteblackgroup002@gmail.com
Valid: true
Suggested Domain: N/A

Last Updated: 04-05-2021 11:35 GMT
by IPQualityScore / Venkat Rambatza

Step5: You will see IPQualityScore Tag and Threat Rating will be updated based on API Response. For detailed Mapping, please refer Threat Rating Metrics Table.



Details

Type	Address
Version	IPv4
Added	04-05-2021 11:03 GMT
Modified	04-05-2021 11:04 GMT
Overall Threat Rating	High
Overall Confidence Rating	0 - Unassessed

Observations/False Positives

□ Report False Positive

Observations	0	False Positives Reported	0
Last Observed	-	Last Reported	-

Please configure an API account to appear in the Observations and False Positives Report. Org Settings

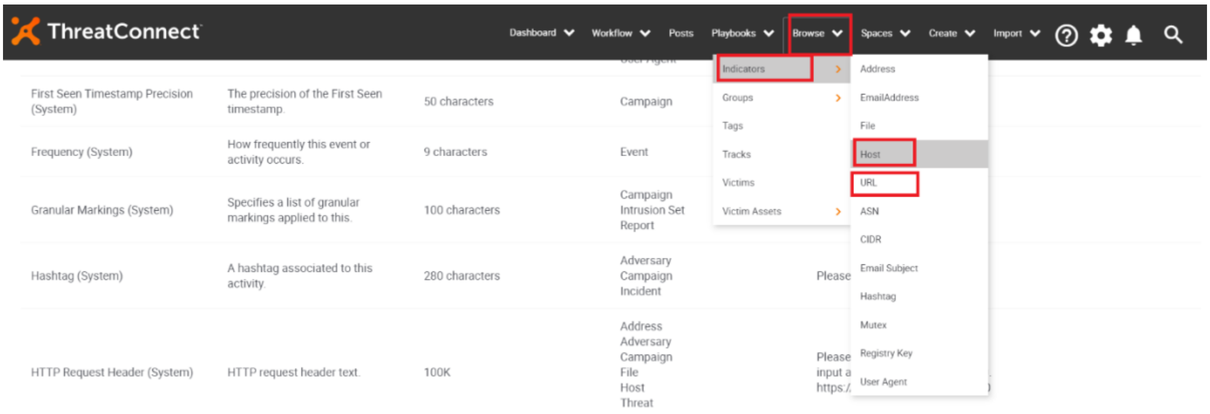
Tags

.

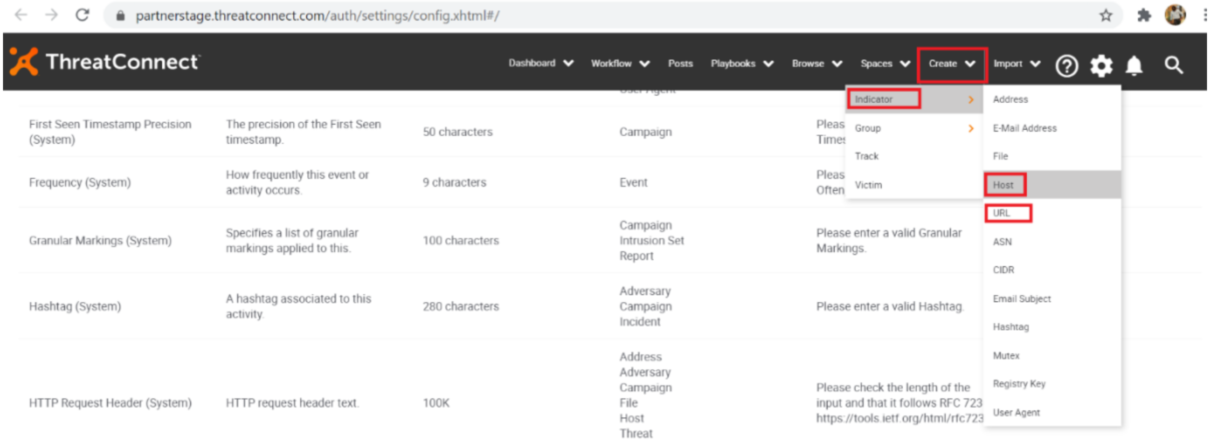
7. Running URL/Domain Reputation Playbook Template

This Playbook Template provides the Reputation (Critical, High Risk, Moderate Risk, Low Risk, Suspicious, Clean) and Threat Rating (Critical Threat, High Threat, Moderate Threat, Low Threat, Suspicious) for the provided URL/Domain based on Risk Score. It also adds Domain Rank, IP Address, and Status for Malware, Parking, Phishing, Spamming, and Suspicious or Unsafe behavior as custom attributes, and other important information in the description attribute for the provided URL/Domain.

Step1: Browse to the existing URL or Host Indicator (or) Create a new URL or Host Indicator as shown below.

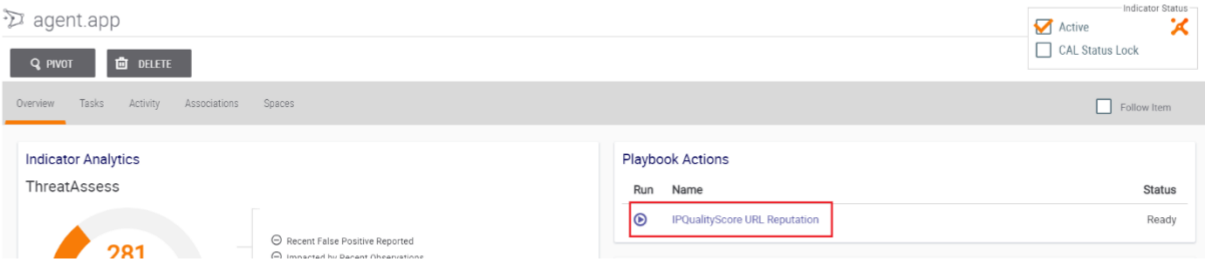


First Seen Timestamp Precision (System)	The precision of the First Seen timestamp.	50 characters	Campaign	
Frequency (System)	How frequently this event or activity occurs.	9 characters	Event	
Granular Markings (System)	Specifies a list of granular markings applied to this.	100 characters	Campaign Intrusion Set Report	
Hashtag (System)	A hashtag associated to this activity.	280 characters	Adversary Campaign Incident	Please
HTTP Request Header (System)	HTTP request header text.	100K	Address Adversary Campaign File Host Threat	Please input a https:/



First Seen Timestamp Precision (System)	The precision of the First Seen timestamp.	50 characters	Campaign	Pleas Times
Frequency (System)	How frequently this event or activity occurs.	9 characters	Event	Pleas Often
Granular Markings (System)	Specifies a list of granular markings applied to this.	100 characters	Campaign Intrusion Set Report	Please enter a valid Granular Markings.
Hashtag (System)	A hashtag associated to this activity.	280 characters	Adversary Campaign Incident	Please enter a valid Hashtag.
HTTP Request Header (System)	HTTP request header text.	100K	Address Adversary Campaign File Host Threat	Please check the length of the input and that it follows RFC 723 https://tools.ietf.org/html/rfc723

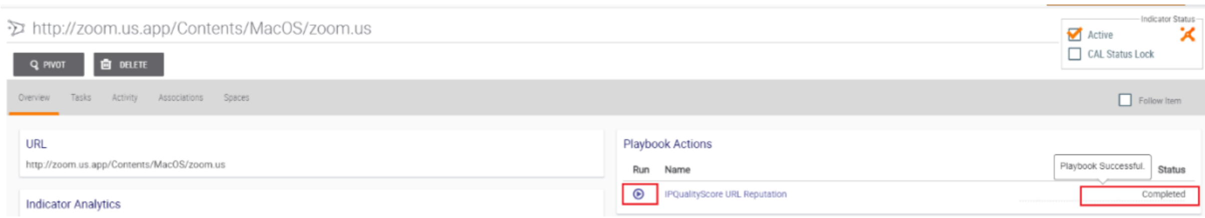
Step2: You can see the “IPQualityScore URL Reputation” Playbook Action in the Address Indicator details page.



Playbook Actions

Run	Name	Status
⊙	IPQualityScore URL Reputation	Ready

Step3: Run the playbook by clicking on the Play button. The Status for the playbook Action will change to Completed when done.

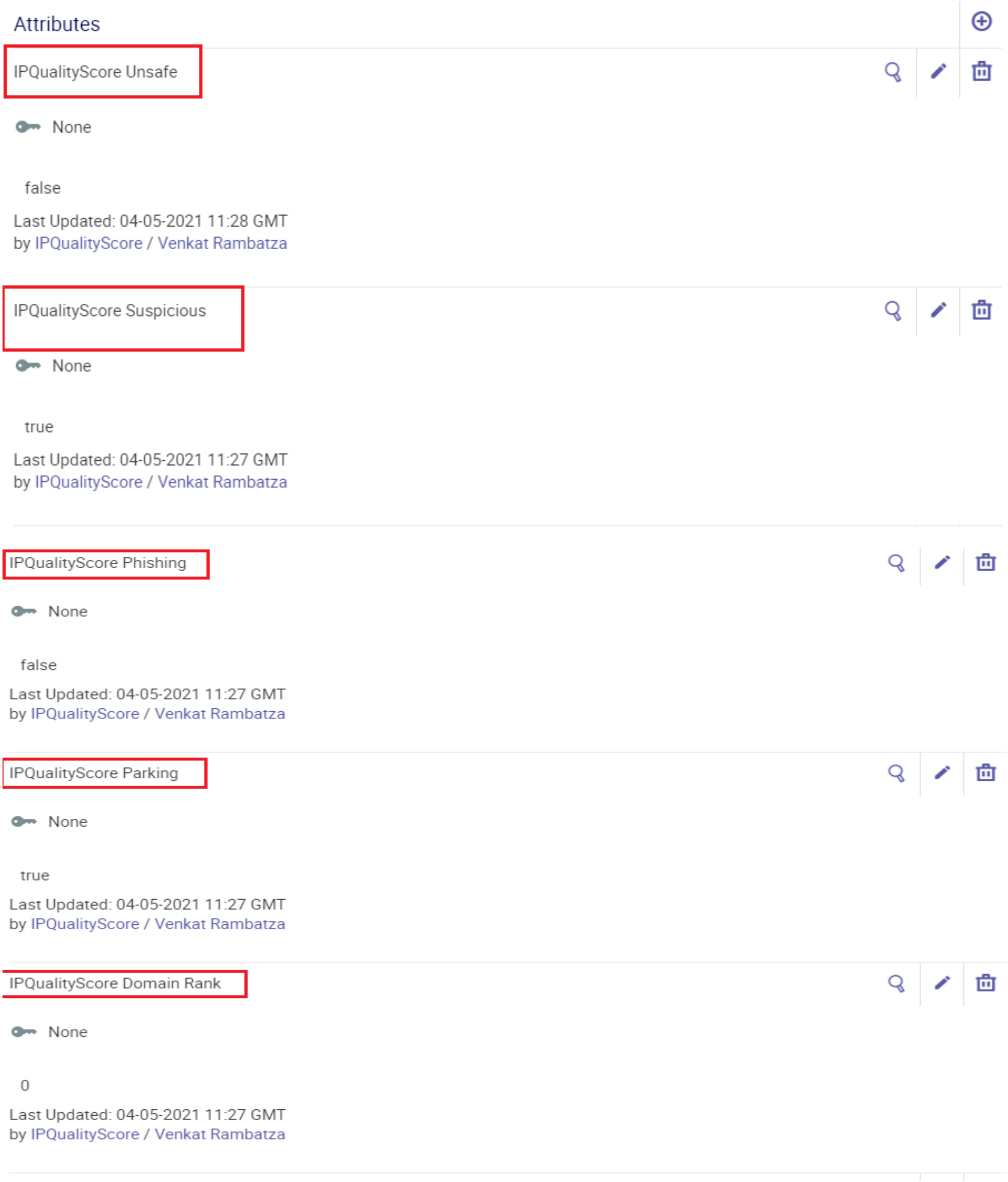


URL
http://zoom.us.app/Contents/MacOS/zoom.us

Playbook Actions

Run	Name	Status
⊙	IPQualityScore URL Reputation	Completed

Step4: Now, refresh the Indicator Details page. You will see the following Custom attributes are created.



Attributes

IPQualityScore Unsafe

None

false

Last Updated: 04-05-2021 11:28 GMT
by IPQualityScore / Venkat Rambatza

IPQualityScore Suspicious

None

true

Last Updated: 04-05-2021 11:27 GMT
by IPQualityScore / Venkat Rambatza

IPQualityScore Phishing

None

false

Last Updated: 04-05-2021 11:27 GMT
by IPQualityScore / Venkat Rambatza

IPQualityScore Parking

None

true

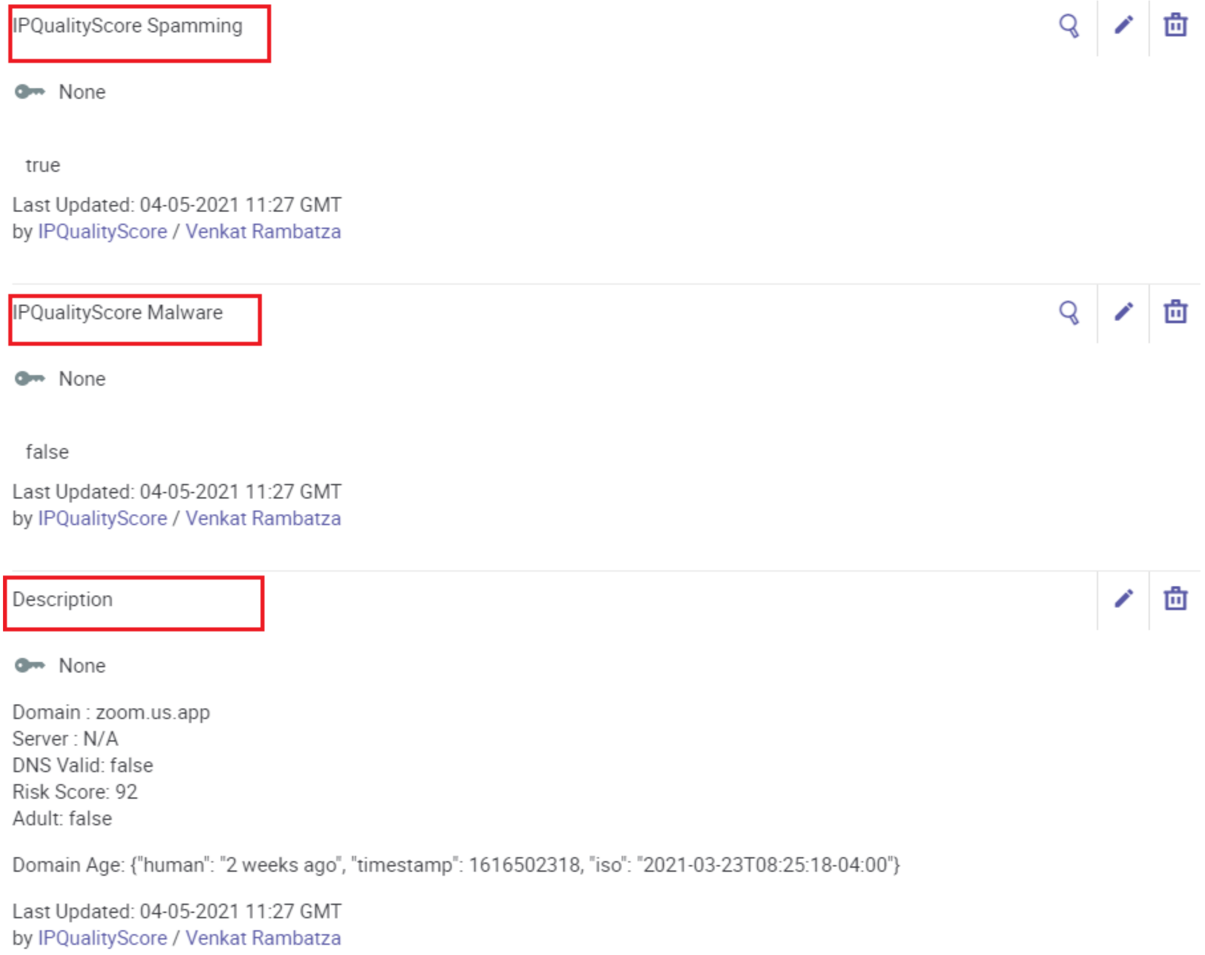
Last Updated: 04-05-2021 11:27 GMT
by IPQualityScore / Venkat Rambatza

IPQualityScore Domain Rank

None

0

Last Updated: 04-05-2021 11:27 GMT
by IPQualityScore / Venkat Rambatza



IPQualityScore Spamming

None

true

Last Updated: 04-05-2021 11:27 GMT
by IPQualityScore / Venkat Rambatza

IPQualityScore Malware

None

false

Last Updated: 04-05-2021 11:27 GMT
by IPQualityScore / Venkat Rambatza

Description

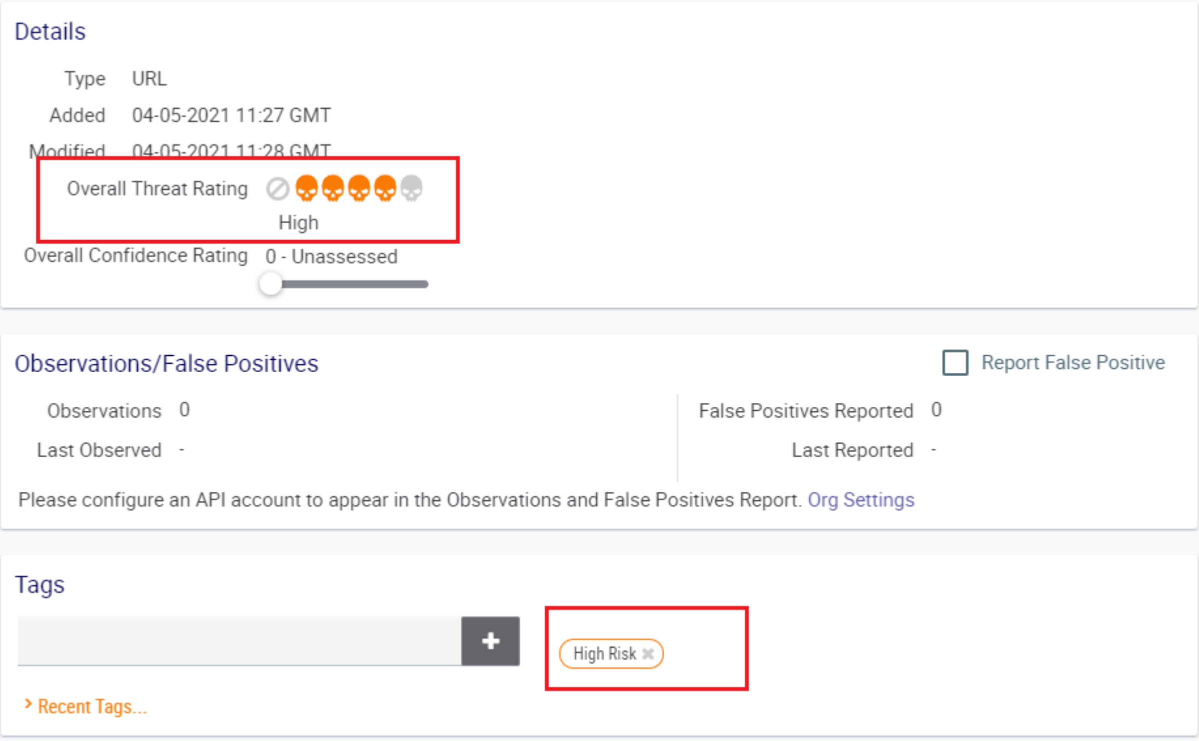
None

Domain : zoom.us.app
Server : N/A
DNS Valid: false
Risk Score: 92
Adult: false

Domain Age: {"human": "2 weeks ago", "timestamp": 1616502318, "iso": "2021-03-23T08:25:18-04:00"}

Last Updated: 04-05-2021 11:27 GMT
by IPQualityScore / Venkat Rambatza

Step5: You will see IPQualityScore Tag and Threat Rating will be updated based on API Response. For detailed Mapping, please refer Threat Rating Metrics Table.



Details

Type URL

Added 04-05-2021 11:27 GMT

Modified 04-05-2021 11:28 GMT

Overall Threat Rating High

Overall Confidence Rating 0 - Unassessed

Observations/False Positives

□ Report False Positive

Observations 0

Last Observed -

False Positives Reported 0

Last Reported -

Please configure an API account to appear in the Observations and False Positives Report. Org Settings

Tags

8. Threat Rating Metrics Table

	Fraud Score	Risk Score	Other Data Point	IPQS Reputation Tag	THREAT RATING
IP Address	== 100			Critical	Critical Threat
	>= 85 & <=99			High Risk	High Threat
	>=75 & <=84			Moderate Risk	Moderate Threat
	>=60 & <=74			Suspicious	Suspicious
	<=59			Clean	N/A
Email Address			Disposable = true	Critical	Critical Threat
	== 100			High Risk	High Threat
	>=88 & <=99			Moderate Risk	Moderate Threat
	>=80 & <=87			Low Risk	Low Threat
			valid = false	Invalid	Suspicious
	<=79			Clean	N/A

URL					
			malware=true	Critical	Critical Threat
			phishing=true	Critical	Critical Threat
		>=90		High Risk	High Threat
		>=80 & <=89		Moderate Risk	Moderate Threat
		>=70 & <=79		Low Risk	Low Threat
		>=55 & <= 69		Suspicious	Suspicious
		<= 54		Clean	N/A