



ThreatConnect® Release Notes

Software Version 7.4

January 10, 2024



ThreatConnect® is a registered trademark, and CAL™ and TC Exchange™ are trademarks, of ThreatConnect, Inc.

DomainTools® is a registered trademark of DomainTools, LLC.

VirusTotal™ is a trademark of Google, Inc.

RiskIQ® is a registered trademark of Microsoft Corporation.

Java® is a registered trademark of Oracle Corporation.

Python® is a registered trademark of Python Software Foundation.

Quad9® is a registered trademark of Quad9 Foundation.

Redis® is a registered trademark of Redis Ltd.

Shodan® is a registered trademark of Shodan.

MITRE ATT&CK® and ATT&CK® are registered trademarks, and STIX™ is a trademark, of The MITRE Corporation.



Table of Contents

New Features and Functionality	4
ATT&CK Visualizer Version 3	5
Map Your Security Coverage for Techniques and Sub-techniques	5
Step 1: Assign Security Coverage	6
Step 2: Visualize Coverage and Identify Gaps	8
Identify Alike Threat Actor Groups	10
Import MITRE ATT&CK Navigator JSON Files	11
Intelligence Requirements Version 2	14
Keyword Query Exact Matches	14
AI Insights Version 1	16
AI-Generated Summaries in the CAL Automated Threat Library	16
New Text Editor for Reports	17
Built-In Enrichment	19
RiskIQ Enrichment	19
Built-In Enrichment Import Functionality Enhancement	22
Improvements	24
Threat Intelligence	24
Intelligence Requirements	24
Playbooks	24
System Settings	24
Notifications	25
Search and Analyze	25
Workflow	26
API & Under the Hood	26
Bug Fixes	27
Dashboards	27
Threat Graph	27
Intelligence Requirements	27
Playbooks	27
API & Under the Hood	27
Dependencies & Library Changes	28
Maintenance Releases Changelog	29
2024-02-07 7.4.1 [Latest]	29



Improvements	29
Bug Fixes	29



New Features and Functionality

ATT&CK Visualizer Version 3

In our latest release of ATT&CK® Visualizer, we're thrilled to unveil three impactful features designed to elevate your organization's security posture:

1. **Map Your Security Coverage for Techniques and Sub-techniques:** You can gain a comprehensive understanding of your security landscape by visualizing your coverage for each MITRE ATT&CK® technique and its sub-techniques. This feature enables you to evaluate the strengths and weaknesses for the specific techniques you're concerned about, while also helping you identify security gaps by overlaying any ATT&CK view with your existing coverage. This feature is a powerful tool for enhancing your defense strategies with precision.
2. **Identify Alike Threat Actor Groups:** You can make threat analysis more targeted and efficient by quickly identifying Groups using similar techniques and sub-techniques. This focused approach helps you find similar threat groups, keeping you ahead of potential threats.
3. **Import MITRE ATT&CK Navigator JSON Files:** This feature enables you to import JSON files for views built in the MITRE ATT&CK Navigator into the ThreatConnect ATT&CK Visualizer. By using ThreatConnect as a centralized platform for ATT&CK views, your security teams will be able to collaborate more effectively. Imported ATT&CK views also provide native support for **Technique Prevalence** and **Security Coverage**, simplifying the analysis and management of the imported data in the ThreatConnect ATT&CK Visualizer.

Map Your Security Coverage for Techniques and Sub-techniques

In ThreatConnect 7.4, we introduce a powerful feature that gives Organization Administrators the ability to map their Organization's security coverage in our ATT&CK Visualizer. Once an Organization Administrator has assigned levels of coverage across techniques and sub-techniques, you can seamlessly overlay the security coverage map onto any ATT&CK view, allowing you to identify which techniques are covered and which ones may need attention. This visualization will help you strategically enhance your defense strategies,



ensuring solid coverage for the techniques that are most critical to your organization's security.

Let's break down the process of assigning and visualizing security coverage into two straightforward steps.

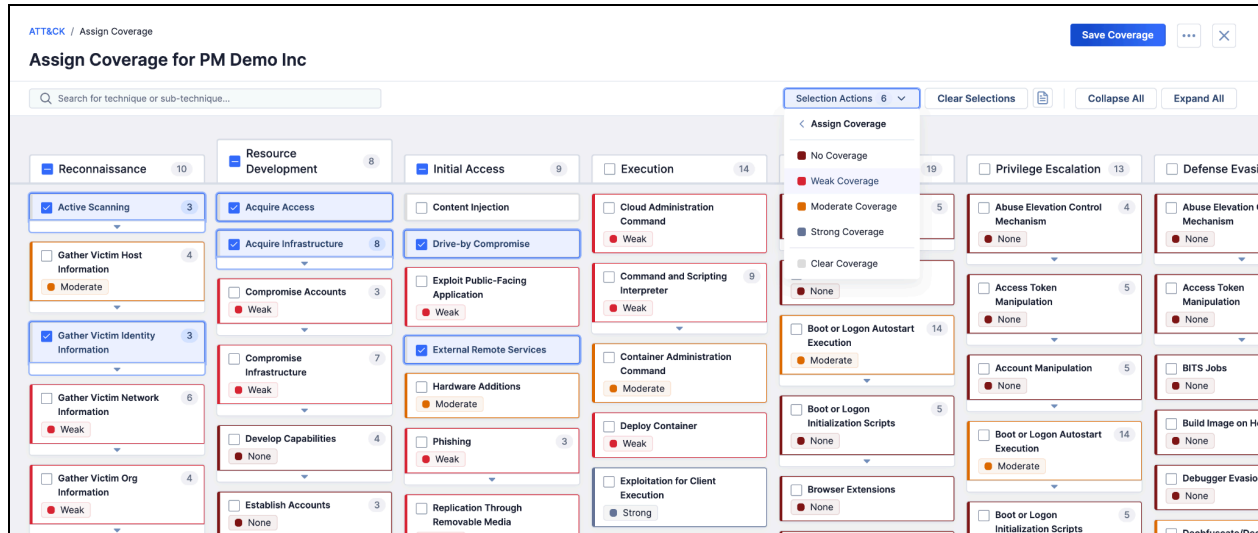
Step 1: Assign Security Coverage

Important: Only Organization Administrators can assign security coverage in the ATT&CK Visualizer. Other users may utilize their Organization's security coverage by overlaying it on their ATT&CK views.

To assign security coverage for your Organization, click **ATT&CK** on the top navigation bar to view the **ATT&CK** landing page. Then click the **Assign Coverage** button at the upper right, which will direct you to the **Assign Coverage** screen for your Organization. This screen displays all ATT&CK techniques and sub-techniques. To assign security coverage for one or more techniques, simply select the techniques, click the **Selection Actions** dropdown, select **Assign Coverage**, and choose the coverage level that best describes the techniques' security strength in your Organization:

- **Strong Coverage** if your organization's security defenses are well equipped to detect, mitigate, and respond effectively to the techniques
- **Moderate Coverage** if your organization has a reasonable amount of coverage of the techniques
- **Weak Coverage** if your organization is equipped to provide only limited coverage for the techniques
- **No coverage** if your organization's security defenses are not addressing or detecting the techniques

Each coverage level is shown in its own color, effectively giving you a heat map of security coverage across all techniques and sub-techniques in your Organization.

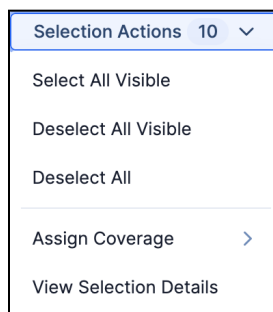


Assign security coverage for techniques and sub-techniques in your Organization

To quickly locate and assign coverage to a specific technique or sub-technique, use the search bar at the upper left to isolate the view to techniques that match your entered text.

The **Selection Actions** menu provides several other handy options:

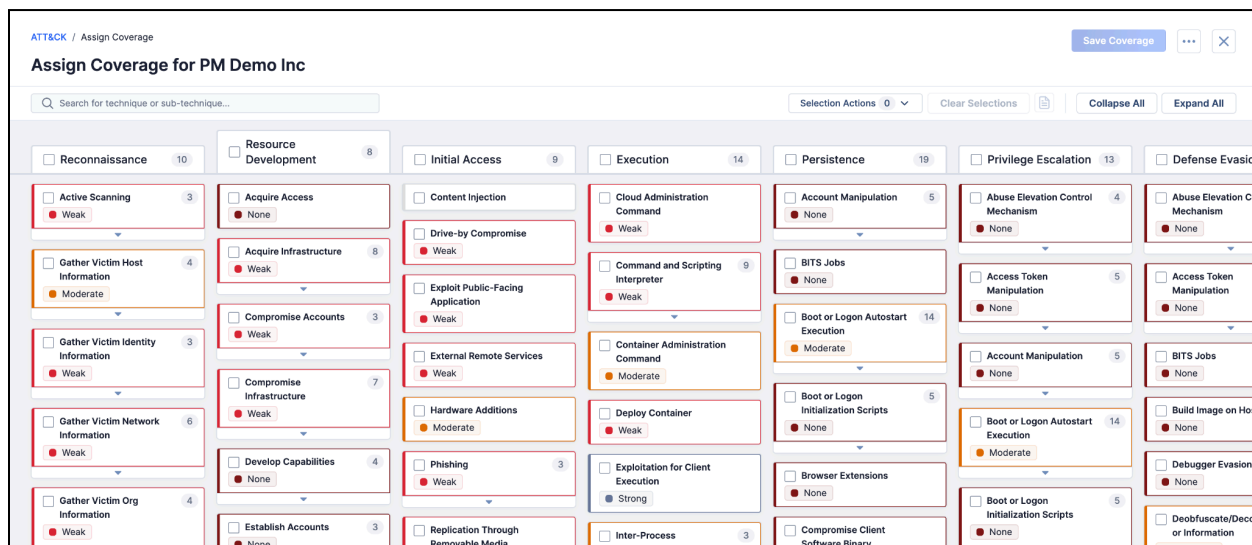
- **Select All Visible** lets you select all the techniques and sub-techniques currently visible (i.e., not collapsed) on your screen, including items that are scrolled off to the side, top, or bottom.
- **Deselect All Visible** clears selections among the visible (i.e., not collapsed) techniques and sub-techniques, including items that are scrolled off to the side, top, or bottom.
- **Deselect All** removes selections for all techniques and sub-techniques, giving you a fresh slate to work with.
- **View Selection Details** opens a drawer with details of all selected techniques and sub-techniques.



Selection options for assigning security coverage



If you do not have coverage details for a particular technique, you can choose to leave it without any assigned coverage. This ensures that your coverage assignments remain accurate and relevant. After you have mapped all of your coverage, click the **Save Coverage** button at the upper right to apply your coverage assignments in the ATT&CK Visualizer for read-only viewing for all users in your Organization.

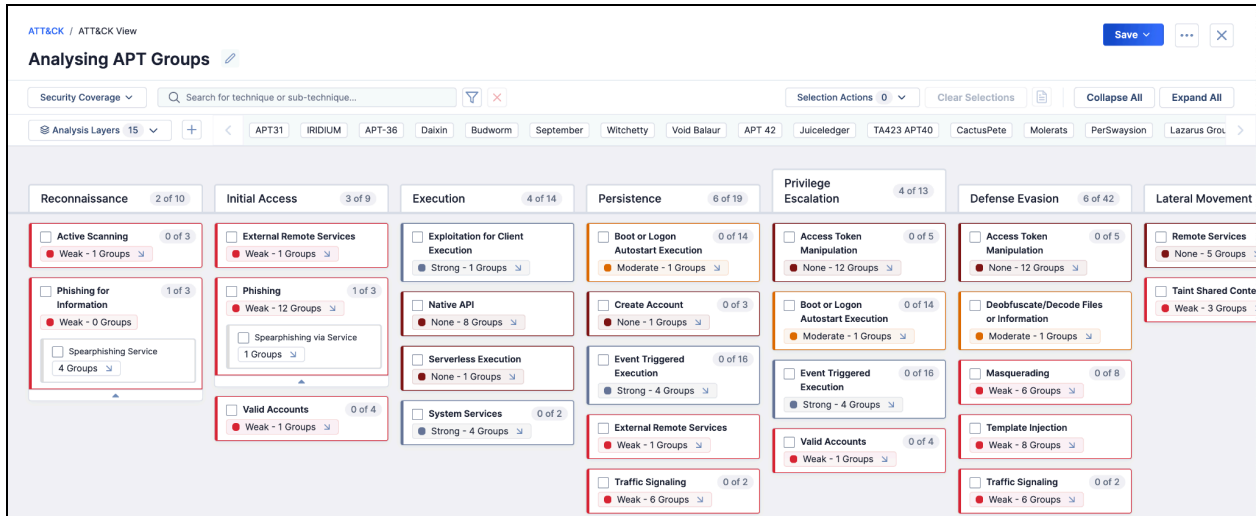


Sample security coverage assignments in ATT&CK Visualizer

Step 2: Visualize Coverage and Identify Gaps

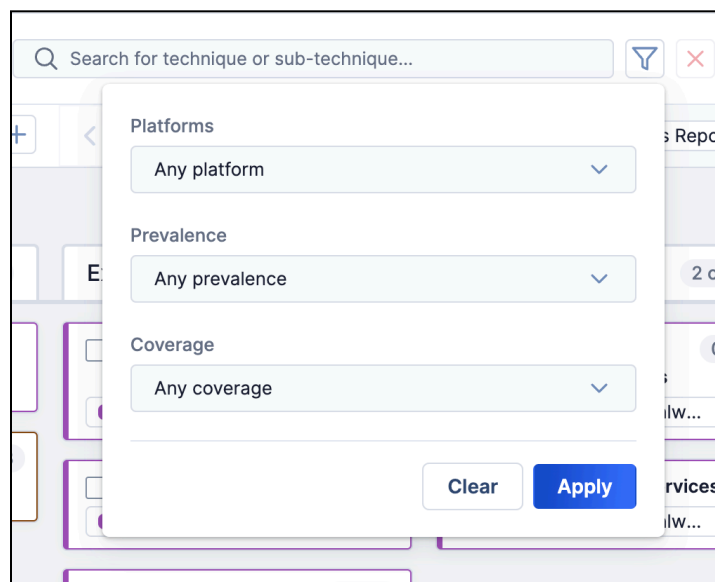
Once you have successfully assigned security coverage in your Organization, it's time to evaluate the effectiveness of your Organization's security measures. To begin, click the **+ Create ATT&CK View** button and choose **Standard View**. Once the new ATT&CK view is displayed, toggle the **Threat Group Comparison** dropdown to **Security Coverage**. Then add analysis layers to build the ATT&CK view. Once you have added all threat groups that are of interest to your analysis, this view will provide you with a detailed breakdown of your Organization's coverage for each technique, including the number of Groups actively utilizing each technique. You can also click on the field containing the number of Groups for a particular technique to view the Groups' names.

Just like on the **Assign Coverage** screen, the coverage levels are color coded, allowing you to view a heat map of the security coverage across techniques, sub-techniques, and all of your added analysis layers (Groups). You can view a legend for the color assignments in the **Analysis Layers** dropdown.



Overlay security coverage on an ATT&CK view to identify techniques and Groups with weak or no coverage

We also offer powerful new filtering options to further enhance your analysis. In ThreatConnect 7.4, you can filter your ATT&CK view data based on [platform](#), security coverage, and technique prevalence. This feature enables you to tailor your view and focus on the specific information that matters most to your organization's security assessment. You can also take advantage of this filter option to pinpoint techniques that are highly prevalent, but have weak or no coverage, enabling you to focus your efforts on strengthening your defenses for these specific techniques.



Filter by platform, prevalence, and coverage to more accurately target the areas where your organization can strengthen its defenses



Identify Alike Threat Actor Groups

In this release, we introduce a valuable feature within the ATT&CK Visualizer that allows you to identify threat groups that share similar techniques. In previous releases, we offered **ATT&CK Technique** and **ATT&CK Sub-technique** drawers containing details on shared Groups for an individual technique or sub-technique (that is, Groups across all of the ThreatConnect owners to which you have access that contain an ATT&CK Tag representing that technique or sub-technique). In ThreatConnect 7.4, you can select multiple techniques and sub-techniques to open your analysis to Groups using specific combinations of techniques and view a **Selection Details** drawer containing a list of all selected techniques and a list of all of the shared Groups.

Imagine that you are investigating a particular threat group, and you notice it uses a set of techniques. If you're curious about other threat groups that employ the same set of techniques, all you have to do is select all the relevant techniques in the ATT&CK Visualizer and view the **Selection Details** drawer. You will then be able to view all threat groups in your owners that employ those techniques.

This feature not only simplifies your analysis, but also empowers you to make more informed decisions by uncovering the full scope of threat actor groups utilizing a specific set of techniques. With the ability to easily create technique combinations and derive comprehensive threat group insights, this version of the ThreatConnect ATT&CK Visualizer enhances your threat intelligence capabilities, ensuring you stay one step ahead in the ever-evolving landscape of cybersecurity.

The screenshot displays the ATT&CK Visualizer interface. On the left, the 'New ATT&CK View' section shows a search bar and a list of techniques categorized by phase: Initial Access (1 of 9), Execution (1 of 14), Discovery (6 of 31), and Lateral Movement. Two techniques are selected: 'Phishing' (0 of 3) and 'Native API' (0 of 3), both associated with the 'Royal' group. On the right, the '2 Selections' drawer shows the selected techniques: 'T1586 - Phishing' and 'T1106 - Native API'. Below this, the 'Shared Groups' drawer lists 44 groups, including Malware (Royal, metaMain), Adversary (Daixin, September), Incident (Erbium Stealer, a new info stealer enters the scene), Adversary (Void Balaur), Adversary (CactusPete), and Adversary (Molerats), all associated with the 'Royal' group.

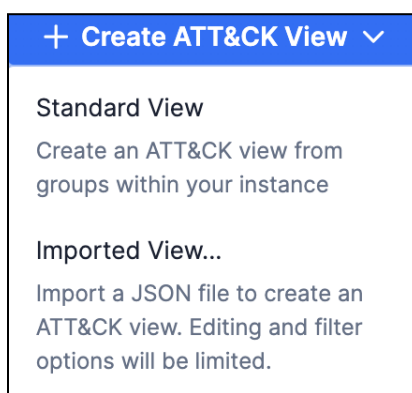
Identify similar threat groups by selecting a set of techniques and subtechniques



Import MITRE ATT&CK Navigator JSON Files

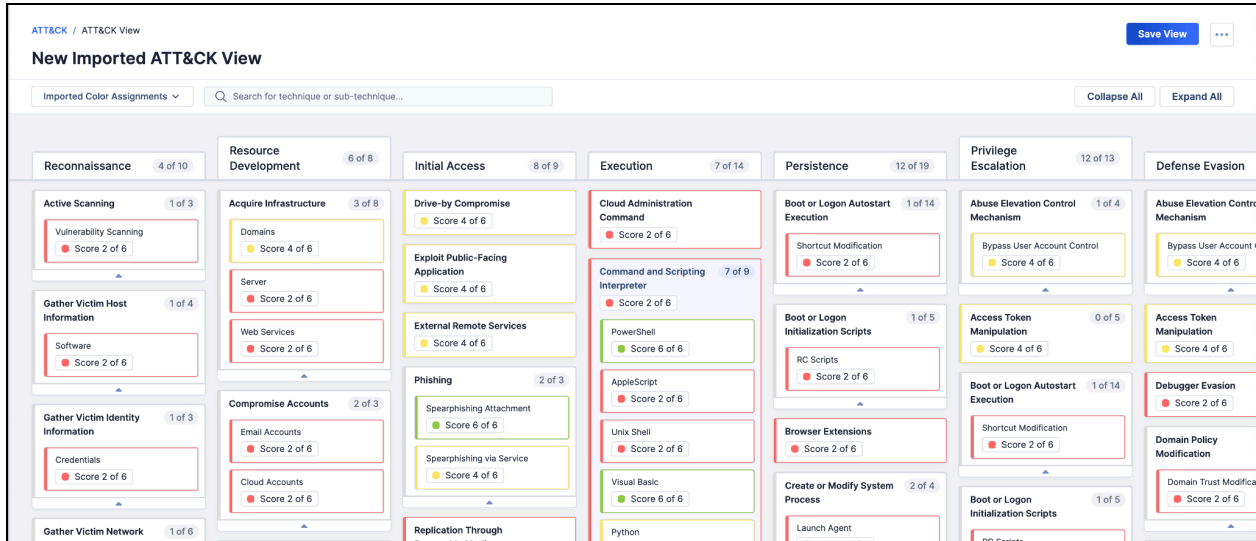
Finally, we are thrilled to introduce the ability to import external MITRE ATT&CK Navigator views into our platform. This capability empowers you to seamlessly integrate external threat intelligence within our system and provides a centralized location for collaboration.

Now that you can import external views, we have renamed the native ATT&CK views built using the Groups in ThreatConnect as standard views. Views imported as JSON files from the MITRE ATT&CK Navigator are called imported views. To import a view, first ensure that you have downloaded a JSON file from the MITRE ATT&CK Navigator. Then click **+ Create ATT&CK View** at the upper right of the **ATT&CK** screen, select **Imported View...**, and choose the JSON file to import.



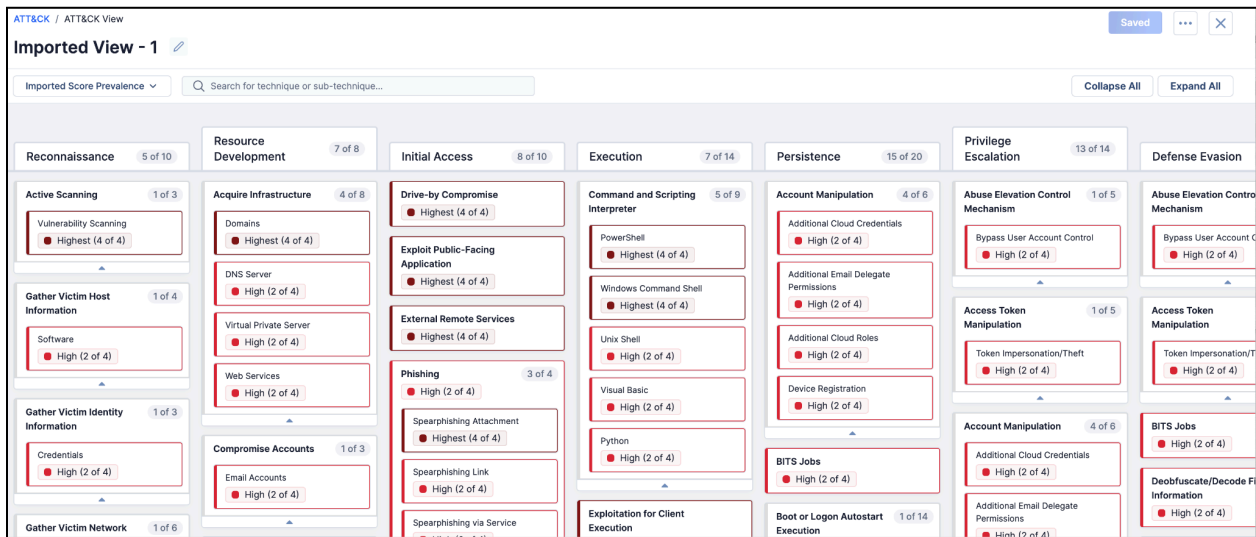
*Select **Imported View...** to import a JSON file from MITRE ATT&CK Navigator*

Imported views include the same color selections and technique scores as in the MITRE ATT&CK Navigator. To see this information, keep the default selection of **Imported Color Assignments** in the dropdown at the upper left of the ATT&CK Visualizer. This functionality allows you to easily bring externally created views into ThreatConnect, saving you time and effort by leveraging the work you have already done in the MITRE ATT&CK Navigator.



Imported view in ATT&CK Visualizer, showing MITRE ATT&CK Navigator color selections

Furthermore, our imported view also enables you to see the range of scores assigned to techniques in the ATT&CK view, as well as your Organization's security coverage across each technique. To see the score range associated with each technique that has been assigned a score in an imported view, select **Imported Score Prevalence** from the dropdown at the upper left. This view will help you identify the score range in which each technique's assigned score falls, providing you with crucial information for improving your defense strategies.



View score prevalence for imported ATT&CK views



Alternatively, you can select **Security Coverage** from the dropdown to evaluate each technique's security coverage, giving you the information you need to optimize your organization's cybersecurity strategy.

The screenshot displays the 'Imported View - 1' interface for ATT&CK Security Coverage. It features a search bar and a dropdown menu set to 'Security Coverage'. The main area is a grid of technique cards, each showing the technique name, its count, and its security coverage status. The cards are organized into columns representing different phases of the attack lifecycle: Reconnaissance, Resource Development, Initial Access, Execution, Persistence, and Privilege Escalation. Each card includes a color-coded indicator for its coverage level: Weak (red), None (grey), Moderate (orange), and Strong (blue).

Phase	Technique	Count	Coverage
Reconnaissance	Active Scanning	1 of 3	Weak
	Gather Victim Host Information	1 of 4	Weak
	Gather Victim Identity Information	1 of 3	Weak
	Gather Victim Network Information	1 of 6	Weak
	Phishing for Information	1 of 3	Weak
Resource Development	Acquire Infrastructure	4 of 8	None
	Compromise Accounts	1 of 3	None
	Compromise Infrastructure	3 of 7	None
	Develop Capabilities	2 of 4	None
	Establish Accounts	0 of 3	None
Initial Access	Drive-by Compromise	8 of 9	Weak
	Exploit Public-Facing Application	1 of 3	Weak
	External Remote Services	3 of 3	Weak
	Phishing	3 of 3	Weak
	Replication Through Removable Media	1 of 3	Weak
Execution	Command and Scripting Interpreter	5 of 9	None
	Exploitation for Client Execution	1 of 3	Strong
	Inter-Process Communication	1 of 3	Moderate
	Scheduled Task/Job	2 of 5	Strong
	System Services	1 of 2	Strong
Persistence	Account Manipulation	4 of 5	None
	BITS Jobs	1 of 14	Moderate
	Boot or Logon Autostart Execution	1 of 14	Moderate
	Boot or Logon Initialization Scripts	1 of 5	None
	Create Account	2 of 3	None
Privilege Escalation	Abuse Elevation Control Mechanism	1 of 4	None
	Access Token Manipulation	1 of 5	None
	Boot or Logon Autostart Execution	1 of 14	Moderate
	Boot or Logon Initialization Scripts	1 of 5	None
	Create or Modify System Process	1 of 4	Strong

View security coverage for imported ATT&CK views

You can also save imported views for future reference. Saved imported views can be easily accessed from the **ATT&CK** screen on the **Imported Views** tab.

Just like with standard ATT&CK views, you can switch between imported views, export the views as a JSON or PNG file, and delete views you no longer need by clicking on the **Options**

 menu at the upper right.



Intelligence Requirements Version 2

Keyword Query Exact Matches

In ThreatConnect version 7.3, we introduced our market-changing Intelligence Requirement (IR) capability. This feature allows you not only to capture your requirements in a central location, but also to automatically identify information that is likely related to your requirements. Version 2 of Intelligence Requirements builds upon the foundation set in version 1, adding the ability to quickly see the fields (e.g., part of the name of a Workflow Case) or exact information (e.g., text in a name or in a Description Attribute of an Indicator or Group) that matched an IR keyword query.

The screenshot displays the ThreatConnect interface for an Intelligence Requirement (IR) titled "What do we know about APT34?". The main view shows the "Overview" tab with "Keyword Tracking & Results" expanded. A "Keyword Tracking" drawer is open, showing a list of keywords: "helix kitten", "cobalt gypsy", "apt34", "oilrig", "evasive serpents", and "irn2". The "apt34" keyword is highlighted in blue. Below the keywords, there is a section for "Excludes Any of the Following" which is currently empty. The "Result Details" drawer is also open, showing the "Matched" information: "2023-11-24 08:05:00 GMT | SIDETWIST". Below this, there is a table with columns "Name", "Type", and "Owner". The table contains one row: "SIDETWIST" with Type "Malware". Below the table, there is a section for "Keyword Tracking" with a sub-section "Includes Any of the Following" and "Section 1". The keywords "helix kitten", "cobalt gypsy", "apt34", "oilrig", "evasive serpents", and "irn2" are listed. Below this, there is a section for "Excludes Any of the Following" which is currently empty. At the bottom of the "Result Details" drawer, there is a table with columns "Attribute Type" and "Description". The table contains one row: "Security Labels" with value "No security labels". Below this, there is a section for "Value" with the text: "SideTwist (https://attack.mitre.org/software/S0610) is a C-based backdoor that has been used by oilrig (https://attack.mitre.org/groups/G0049) since at least 2021.(Citation: Check Point (apt34) April 2021)".

*Keyword matches are highlighted in the **Result Details** drawer*

The matched information is highlighted in the new **Result Details** drawer, which can be viewed from the **Details** screen for an IR and in step 3 (**View Results**) when creating an IR, showing you exactly where each matching keyword was found. This update removes the need to dig for exactly what matched your keywords to determine whether a result is accurate. Our goal is to enable you to spend more time analyzing and taking action on what is important and less time verifying the accuracy of the matches ThreatConnect provides.

Finally, in addition to the **Result Details** drawer, you will find that we added a couple of “creature comforts” to IRs in 7.4. First, the **Get Suggestions** button now provides suggestions for industry-related words and phrases to make sure that you are able to cover



all of your bases when looking for information relevant to a particular industry. Second, associations to IRs are now shown in a new **Intelligence Requirements** card on the **Associations** tab of the **Details** screen for Groups and Indicators.



AI Insights Version 1

AI-Generated Summaries in the CAL Automated Threat Library

With the availability of generative AI technology, ThreatConnect is looking at ways we can leverage this technology in the platform for the benefit of our customers. Our first foray into AI is part of the 7.4 release of ThreatConnect, which includes AI-generated summaries for Report Groups in the CAL™ Automated Threat Library (ATL) Source.

The screenshot displays a report titled "Navy Federal Credit Union Profile Restricted Scam Email" within the ThreatConnect interface. The report is categorized as a "Report Group" and originates from the "Source: CAL Automated Threat Library". The interface includes navigation tabs for "Overview", "Associations 5", and "Activity". The "Overview" tab is active, showing an "AI Insights" section. This section contains an "AI Generated Summary" with a list of bullet points and a corresponding summary paragraph. The bullet points describe the nature of the scam emails, the urgency they convey, and the advice given to recipients. The summary paragraph provides a concise overview of the threat. A "Show Less" button is visible at the bottom of the summary section.

Navy Federal Credit Union Profile Restricted Scam Email

Report Group | Source: CAL Automated Threat Library

Follow Item | Notification Priority

Intel Rating: 0

Overview | Associations 5 | Activity

Overview | Collapse All | Expand All

AI Insights

AI Generated Summary

- Cybercriminals are sending fake emails to Navy Federal Credit Union members with the subject line "Important Account Notice" to steal their online banking account credentials, personal and financial information.
- The emails claim that the recipient's Navy Federal Credit Union profile has been restricted for security reasons and ask them to click on a link to restore their account.
- The fake emails may contain a sense of urgency, such as a warning that the recipient's account will be suspended if they don't take action.
- The emails may also contain a form requesting sensitive information, such as banking credentials and personal information.
- The Navy Federal Credit Union will never send emails requesting banking credentials, personal and financial information.
- Members are advised to delete these fake emails and never click on links in suspicious emails.
- If there is something wrong or they need to do with their accounts, they should go directly to the Navy Federal Credit Union website and sign in from there.

Navy Federal Credit Union members are being targeted by cybercriminals through fake emails that claim their profile has been restricted for security reasons. The emails ask the recipients to click on a link to restore their account, but the link is actually a phishing website designed to steal sensitive information. Members are advised to delete these fake emails and never click on links in suspicious emails. Instead, they should go directly to the Navy Federal Credit Union website and sign in from there to avoid falling victim to these scams.

Show Less ▲

AI Insights give you a quick way to understand if a Report in the CAL ATL is relevant

This feature provides a short, easy-to-understand set of bullet points that summarize the high points of the report or blog and a summary of the report itself. With this feature, you can get a high-level understanding of the contents of the report and quickly decide whether that report needs more analysis or attention or if it's not relevant to your organization.



New Text Editor for Reports

We are excited to introduce a powerful new text editor in our Reporting **Text Block** section that enhances your report creation experience. This innovative text editor comes equipped with a host of key features to make your reporting tasks more efficient and user friendly. You can access this new text editor in the **Report Editor** section under **Basic Elements** → **Text Block**.

Some of the key features of the new text editor are as follows:

- **Rich Text Formatting:** The new text editor provides an intuitive rich text formatting experience. You can apply formatting such as bold, italics, underlines, and more to your text with just a few clicks.
- **Inline Image Support:** You can enhance your reports by directly inserting images into them, making your reports more visually appealing and informative.
- **Text Highlighting:** You can make key information pop with text highlighting, enabling you to emphasize critical points in your reports.
- **Text Alignment:** The new text editor offers text alignment options, ensuring your content looks polished and well structured.
- **Font Color Customization:** You can add a personal touch to your documents by customizing font colors to match your branding or preferences.
- **Font Selection:** You can choose from a range of fonts to find the perfect style for your documents.
- **Improved Text Formatting:** You can now structure your reports with support for six heading levels and normal text, ensuring clarity and organization.



Built-In Enrichment

RiskIQ Enrichment

We're thrilled to unveil a robust new enrichment tool in our 7.4 update, powered by RiskIQ®. With this integration, you can leverage RiskIQ's host insights directly within ThreatConnect, providing you with essential information for evaluating potential dangers linked to a domain.

System Administrators can enable this built-in enrichment by adding their RiskIQ username and API key to the **Enrichment Tools** section of the **Indicators** tab of **System Settings**, validating these parameters, and then selecting the **Host** Indicator type.

Edit Vendor [X]

Vendor Name: RiskIQ

Enable Vendor: Enabled

Enable Automatic Retrieval: Enabled

RiskIQ User Name: user@threatconnect.com

API Key: [Masked]

VALIDATE

Lookup / Retrieve: Host

CANCEL **SAVE**

*Configure the RiskIQ enrichment in **System Settings***

Once the configuration for this enrichment has been completed, you can view enrichment details for Host Indicators on the **Enrichment** tab of the Indicator's **Details** screen.



The screenshot shows the 'yolenny.com' Host Indicator details page. The 'Enrichment' tab is active, displaying several enrichment cards: 'Farsight Passive DNS', 'VirusTotal', and 'DomainTools'. The 'RiskIQ' card is expanded, showing an 'Overview' section with the following data:

Overview		Retrieve Data
Last retrieved 2023-12-01 20:00:41 GMT		
Reputation Score	19	
Classification	UNKNOWN	
Rule Link	https://community.riskiq.com/search?query=104.166.93.146	
Rule Severity	1	
Whois Server	N/A	
Expires At	2024-02-14	
Registered On	2023-02-14	
Registrar	Key-Systems GmbH	
Registrant Country	Redacted For Privacy	
Organization	REDACTED FOR PRIVACY	
Domain Status	null	

At the bottom of the RiskIQ card, there is a link: [Open Detailed View](#).

View RiskIQ enrichment data on the **Enrichment** tab of a Host Indicator's **Details** screen

When you navigate to a Host Indicator's **Enrichment** tab for the first time, information from RiskIQ is pulled and cached. Every time you revisit the **Enrichment** tab for the Indicator, cached data will be displayed until a new RiskIQ lookup is made after the caching time limit expires. To get the latest enrichment data from RiskIQ before the caching time limit expires, you can always click the **Retrieve Data** button on the **RiskIQ** card.

To delve further into the information RiskIQ has about a Host, click the **Open Detailed View** link at the lower left of the **RiskIQ** card. This will open the **RiskIQ Detailed View** drawer, where you can view comprehensive details about what RiskIQ knows about the Host Indicator.

The **RiskIQ Detailed View** drawer can display the following types of information, depending on availability for the particular Indicator:

- **IP Resolutions:** This card displays the IP addresses to which the investigated domain resolves and provides information regarding their initial and most recent sightings.
- **Passive DNS Details:** This card provides information about historical DNS data related to specific domains. This information helps in identifying patterns of malicious



behavior, tracking the evolution of threats, and understanding the infrastructure used by cybercriminals.

- **Subdomains:** This card displays the subdomains associated with the domain under investigation, helping to identify all publicly accessible subdomains and assess potential entry points for attackers.
- **Name Server Details:** This card displays the domain's associated name servers, helping you gain insights into hosting providers and providing you with a comprehensive view of the domain's ecosystem.
- **SSL Certificates:** This card displays information about the SSL certificates linked to the domain, including SHA-1, common name (CN), and dates establishing the time window during which the certificate is valid.
- **Articles:** This card displays articles associated with the domain, offering a historical perspective on the domain's behavior, affiliations, and any prior occurrences or inquiries related to it.
- **Components:** This card displays the components associated with the domain and provides information on the components' type, version, and first- and last-seen dates.

The screenshot shows the 'RiskIQ Detailed View' drawer. At the top right, there are 'Collapse All' and 'Expand All' buttons. Below these are several expandable sections: 'IP Resolutions', 'Passive DNS Details', 'Subdomains', 'Name Server Details', 'SSL Certificates', and 'Components'. The 'SSL Certificates' section is expanded, showing a table with the following data:

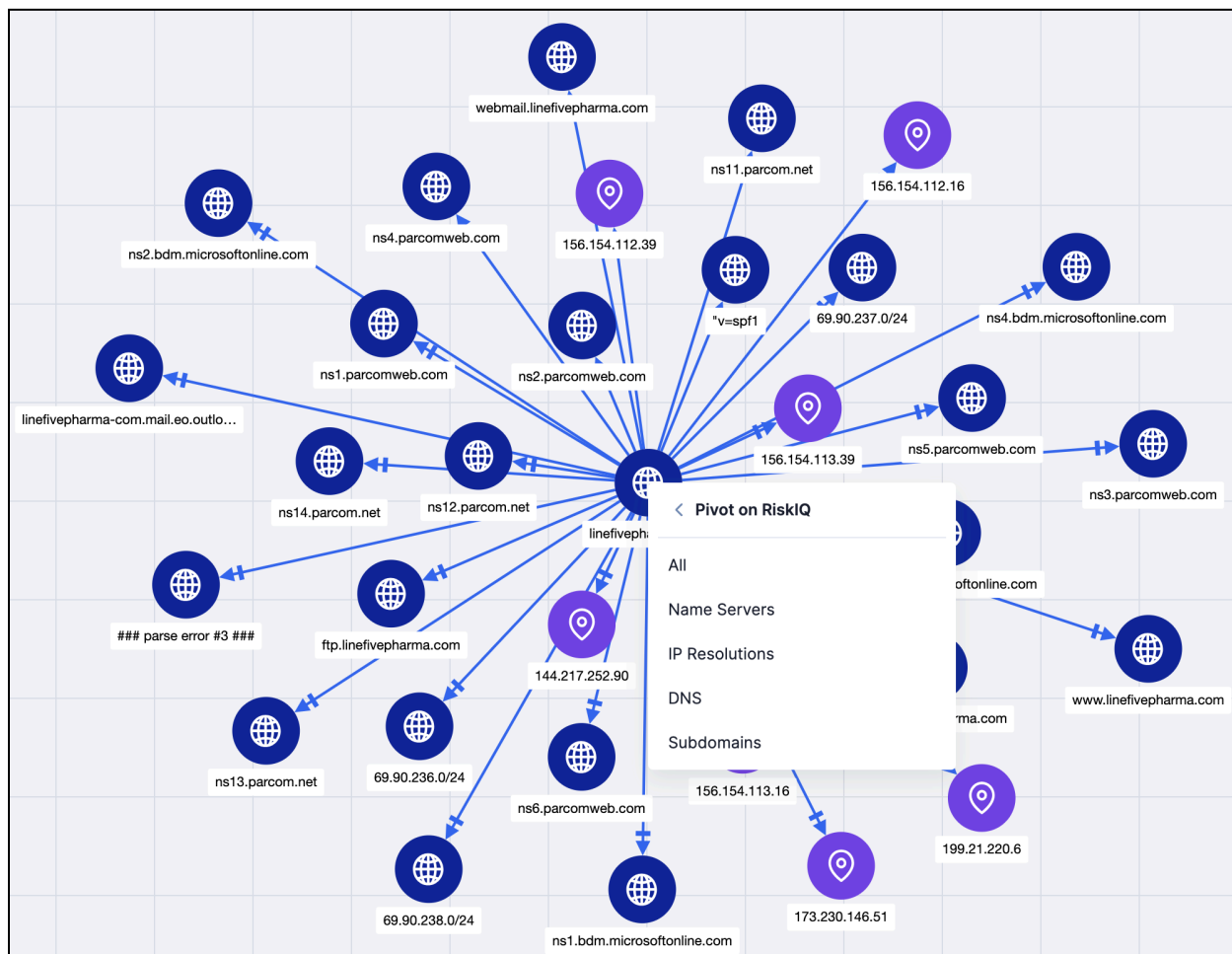
SHA1 ↑↓	Common Name (CN) ↑↓	Issued ↑↓	Expiration ⌵
f141636fb78e612b520f9ff51f4...	GTS CA 1P5	2023-07-04	2023-10-02

Below the table, there is a pagination control showing '1 - 1 of 1' and a dropdown menu set to '10'.

The RiskIQ Detailed View drawer provides information RiskIQ has on a Host Indicator



The relationships identified through the RiskIQ enrichment can also be visualized in Threat Graph.



Pivoting on RiskIQ enrichment data in Threat Graph gives you insight into an Indicator's Name Servers, IP Resolutions, DNS, and Subdomains

We have also made the RiskIQ enrichment data points available in the UI accessible via the v3 API. This allows you to leverage the existing `/v3/indicators/enrich` and `/v3/indicators/{id or summary}/enrich` v3 API endpoints to enrich Indicators with RiskIQ automatically, eliminating the need to navigate to the **Enrichment** tab in the UI and making the enrichment process more efficient and streamlined.

Built-In Enrichment Import Functionality Enhancement

Over the past several releases, we have continually enhanced our platform by incorporating information from leading enrichment vendors such as VirusTotal™, Shodan®, urlscan.io, DomainTools®, and now RiskIQ. These vendors provide valuable information about associated



Indicators related to the parent Indicators under investigation, which is accessible in the **Detailed View** drawer for each enrichment vendor.

In previous releases, you had the option to import these Indicators into a Group that was then associated to the parent Indicator. However, this arrangement did not provide the ability to directly associate related Indicators with the parent Indicator. In this release, we are introducing a new capability that allows you to import these Indicators as direct associations to the parent Indicator. You can now import relationship information from VirusTotal, Shodan, urlscan.io, DomainTools, and RiskIQ into ThreatConnect by selecting the Indicators from the vendor's **Detailed View** window on the **Enrichment** tab and then choosing to import them via the **As an Indicator** option in order to bring them in as direct associations to the parent Indicator.

VirusTotal Detailed View [Close]

[Collapse All] [Expand All]

▶ Categories ⓘ

▼ Passive DNS Replication ⓘ

Import ▼

- To New Group
- To Existing Group
- As an Indicator

	Detections	Resolver	IP	
	14/88	VirusTotal	104.166.93.146	
	14/88	VirusTotal	160.202.79.226	
<input checked="" type="checkbox"/>	2017-03-01	14/88	VirusTotal	107.149.130.144
<input checked="" type="checkbox"/>	2016-02-24	14/88	VirusTotal	97.74.228.84
<input checked="" type="checkbox"/>	2015-12-13	14/88	VirusTotal	192.254.187.108

[<] [<] 1 - 5 of 5 [>] [>] [10 ▼]

▶ URLs

Import and associate related Indicators to the Indicator under investigation



Improvements

Threat Intelligence

- A new Signature Group type was added: STIX Pattern.
- A new **CAL™ - Quad9 Observed Attempted Resolutions** section has been added to the **DNS Resolutions** card on the **Details** screen for Address and Host Indicators, showing location and count information for computers that attempted to access suspicious domains captured by Quad9® infrastructure within the last 90 days.
- Formatting improvements were made to the **Attributes** card on the new **Details** screen, with all fields expanded when you first navigate to the **Details** screen.

Intelligence Requirements

- When creating an IR or viewing an IR's **Details** screen, the **Excludes** section of the **Keyword Tracking** section now says "Excludes Any of the Following" instead of "Excludes All of the Following." As such, OR logic is now being used between keywords instead of AND logic in the "Excludes" part of the resulting query.

Playbooks

- A new **Intel Requirement** Trigger type for Playbooks was added, enabling you to Trigger Playbooks based on actions for IRs. In addition, UserAction Triggers now have an **Intel Requirement** type, enabling you to run Playbooks on demand from the **Details** screen for an IR.

System Settings

- The following new system settings were added:
 - **playbooksDbCredentialsEnabled**: This setting determines whether a username and password are required to interact with the Playbooks database on Redis®. If **playbooksDbUsername** and **playbooksDbPassword** both have values, ThreatConnect will use them to authenticate to the Playbooks Redis database.



- **potentialAssociationMode**: This setting enables System Administrators to configure how potential associations are suggested on their ThreatConnect instance. The setting provides a dropdown with three options:
 - **Matched**: Potential associations will be based on matching Artifacts to Indicators on your ThreatConnect instance.
 - **Associated**: Potential associations will be based on second-degree associations to objects on your ThreatConnect instance.
 - **Both**: Potential associations will be based on matching Artifacts to Indicators on your ThreatConnect instance AND on second-degree associations to objects on your ThreatConnect instance.
- **v3ApiTurboMode**: This setting activates a performance-improved algorithm for fetching large numbers of certain types of child objects (e.g., Attributes, Tags, associations, etc.) within the context of a v3 API request. You can enable this setting for threat intelligence only, Workflow only, or both.
- **v3ApiTurboModeBatchSize**: This setting determines the number of unique child items fetched per batch within a turbo-enabled lookup.
- **v3ApiTurboModeExemptionLimit**: This setting determines the maximum number of child items per batch for which turbo lookups will be performed. Turbo lookups for child items that exceed this limit will be skipped and performed separately. This setting may be disabled by setting its value to -1.
- The **Configuration / Organization** category has been removed from **System Settings** → **Info** → **System Health**.

Notifications

- Previously, the **Notifications Center** was displaying notifications regarding updates to the TC Exchange™ catalog for all users. Now, those notifications will be displayed only for System Administrators.

Search and Analyze

- In the **Search** drawer, strings containing one or more periods (.) or an at-sign (@) character will be treated as a single search term. As such, the search results will return only matches to the entire string.



Workflow

- The Workflow **Cases** screen now auto-refreshes to provide near-real-time updates made by other users in your Organization.

API & Under the Hood

- Performance upgrades for batching linked data were made to the v3 API.
- The `/v3/indicators/enrich` endpoint now supports enriching Indicators with data retrieved from RiskIQ.
- When using the `/v3/groups` endpoint, API users can assign the `fields` query parameter a value of `insights` to return AI insights for Report Groups in the CAL Automated Threat Library (ATL) Source.
- The `/v3/tags` endpoint has been updated to allow API users with an Organization role of Organization Administrator to assign security coverage to ATT&CK Tags.
- When creating a batch job with the V2 Batch API, you can now assign the `attributeWriteType` field a value of `Singleton` to have the batch job replace existing Attributes added to an Indicator or Group only if the incoming data include Attributes with the same Attribute Type(s) as the existing Attributes. Otherwise, existing Attributes added to an Indicator or Group will remain unchanged.



Bug Fixes

Dashboards

- An issue causing dates instead of Group types to be displayed on the y-axis of **Heat Map** cards in dashboards was resolved.

Threat Graph

- The styling of the **Selected** button and the **Selected Actions** menu in the Threat Graph **Details** drawer was improved to provide more intuitive functionality.

Intelligence Requirements

- Attributes, associations, Security Labels, and other data were not being displayed on the **Details** drawer for IR results. This issue has been corrected.

Playbooks

- An issue causing Playbooks configured to execute automatically upon creation of a Workflow Case to execute twice was fixed.

API & Under the Hood

- An issue causing duplicate Indicators to be included in the **customAssociations** object when retrieving an Indicator's custom associations with the v3 API was fixed.
- An issue causing a Group's Attributes and associations to be deleted when using the v3 API to associate a Victim Asset to the Group has been fixed.



Dependencies & Library Changes

For instances running ThreatConnect version 7.2.0 or later, it is recommended that signed certificates be used in place of self-signed certificates. This change is related to Python® 3.11 and Java® functionality, because some vendors of plugins used in Playbooks and other Apps that interact with ThreatConnect may have more stringent requirements for security measures.



Maintenance Releases Changelog

2024-02-07 7.4.1 [Latest]

Improvements

- Two new configuration options were added to the **Data** tab of the **Contribute to Community/Source** window:
 - **Limit Depth**: Selecting the **Yes** option enables you to set a limit for the number of association levels copied during the contribute operation.
 - **Max Depth**: Enter the maximum number of association levels to be copied during the contribute operation. An entry of **1** indicates that only the primary Group and Groups directly associated to it will be contributed.
- A new system setting, **userMaxSessions**, was added. This setting, which has a default value of **2**, determines how many simultaneous browser sessions a user may have at one time. This setting resolves an issue that was causing out-of-memory errors due to multiple user sessions being created and remaining active when users close and re-open browsers running ThreatConnect.
- Trace logging was added to the search cluster health check.
- On instances with a proxy configured in the system settings, Playbook App logs using the TRACE log level were exposing user credentials. These credentials will now be obfuscated.

Bug Fixes

- API users with an Organization role of Organization Administrator were able to use the v3 API to create users with a System role of Operations Administrator. This issue was corrected.
- An issue causing an error to occur when clicking in the **Name** column for an IR category in **System Settings > Categories** was resolved.
- An issue causing an error when opening a new tab with the **Details** screen for an object whose owner has parentheses in its name was fixed.
- An issue causing mismatched file hashes uploaded via batch import to have incorrect **CommonIndicator** records was fixed. All affected data have been repaired.



- When editing an IR, selecting the **Reset All Archived and False Results** checkbox was causing the IR's results list, including all associated results, to reset. This issue has been fixed.
- When creating or editing a user through the **/v3/security/users** endpoint, the **logoutIntervalMinutes** field's value will default to 30 if you do not provide a value for this field in the body of your POST or PUT request.
- An issue causing unstructured Indicator imports to fail when a URL in the data set contains commas has been fixed.
- Adding an association between a Group and an IR and then contributing the Group to a Community or Source was resulting in corrupt data showing up in the data logs and preventing the IR from being re-created after being deleted if the contributed copy still exists. This issue has been resolved.
- An issue causing an error to occur when downloading published Groups was fixed.
- When uploading a new Attribute Type into ThreatConnect, Validation Rule updates included in the JSON file for the Attribute Type were being ignored unless at least one Attribute Type using the Validation Rule was also updated. This issue has been corrected.
- An issue causing an error to occur on the ContentPackService component when starting up the **tc-mon** server was resolved.
- An issue causing SAML-enabled ThreatConnect instances to redirect to favicon.ico upon first login has been resolved.