ThreatConnect® Risk Quantifier Release Notes

Software Versions 7.8 and 7.9

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Table of Contents

New Features and Functionality **4**

Side Navigation Bar Updates 4

Heat Map: 5x5 Analysis Matrix 5

Technical Analysis 8

Technical Assets 8

Technical Risks 10

Endpoint Profile 10

Improvements **12**

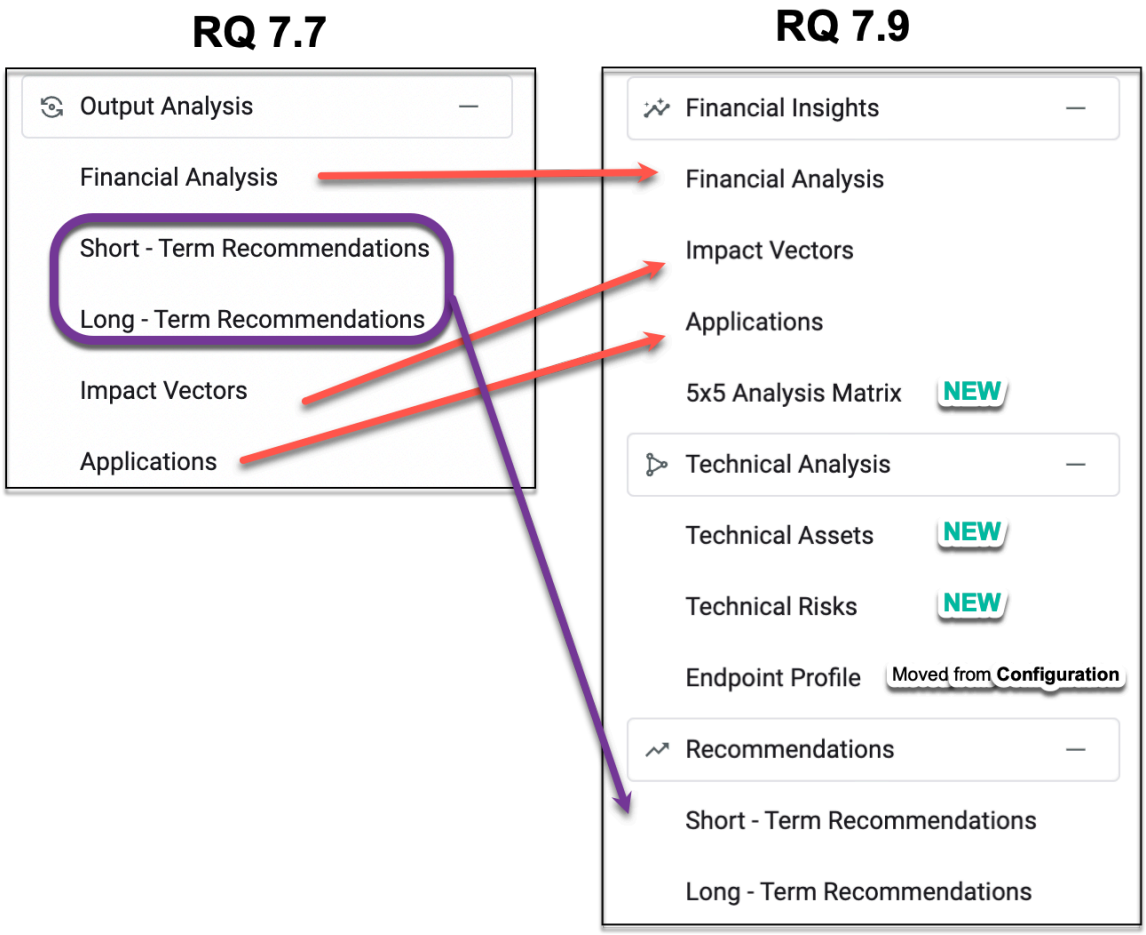
Integrations **14**

Bug Fixes **15**

New Features and Functionality

Side Navigation Bar Updates

In ThreatConnect Risk Quantifier (RQ) version 7.9, we replaced the **Output Analysis** option on the side navigation bar with three new options to help you access the information you are looking for more quickly and to include new features in this release.



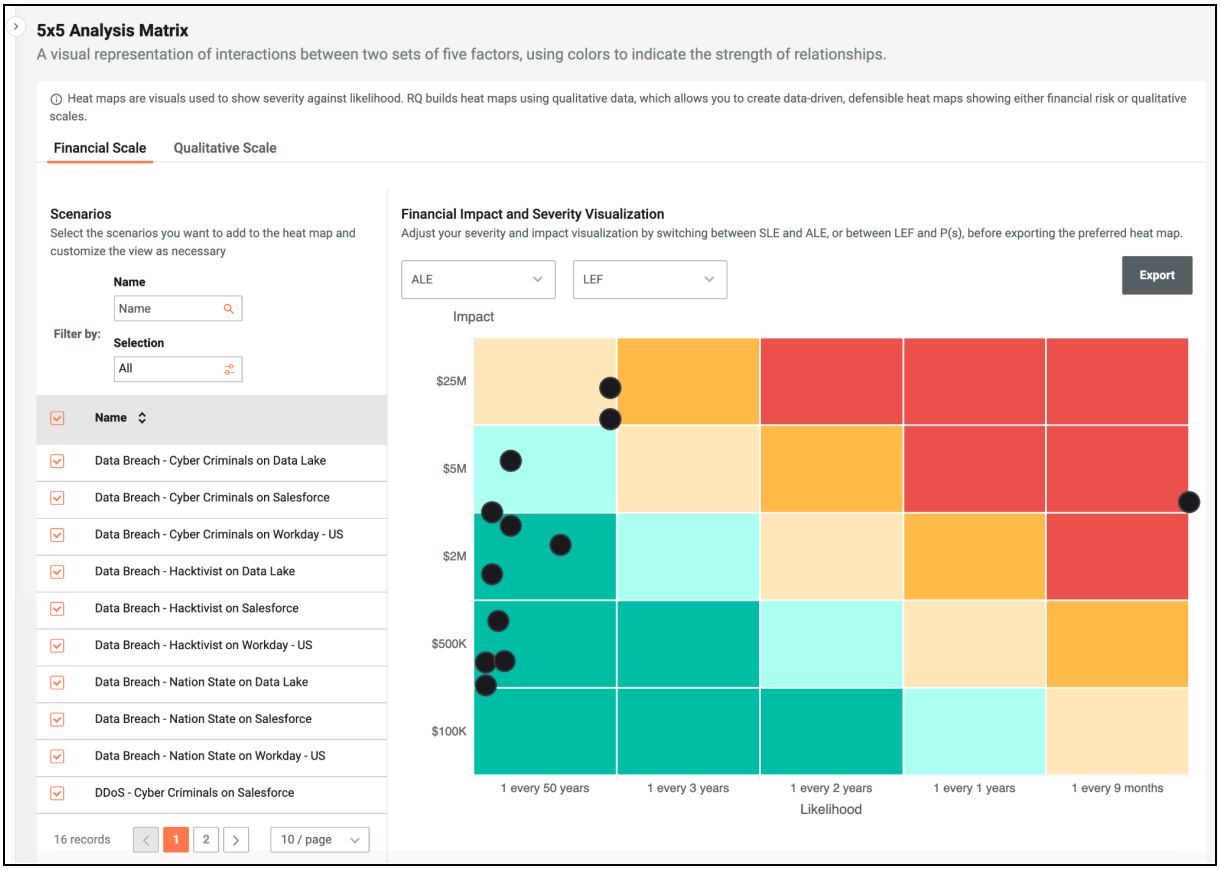
Financial Insights includes the **Financial Analysis**, **Impact Vectors**, and **Applications** options previously found under **Output Analysis** and, for version 7.9, a new **5x5 Analysis Matrix** option. **Technical Analysis** includes two brand-new options—**Technical Assets** and **Technical Risks**—as well as the **Endpoint Profile** option previously found under **Configuration**. Finally, **Recommendations** includes the **Short-Term Recommendations** and **Long-Term Recommendations** options previously found under **Output Analysis**.

Heat Map: 5x5 Analysis Matrix

A common challenge our customers face is how to communicate financial risk to their business when they measure their risk qualitatively. Qualitative risk measures can be visualized in heat maps that show the impact and likelihood of a scenario. Unfortunately, heat maps tend to be subjective and lack data to back up their inputs.

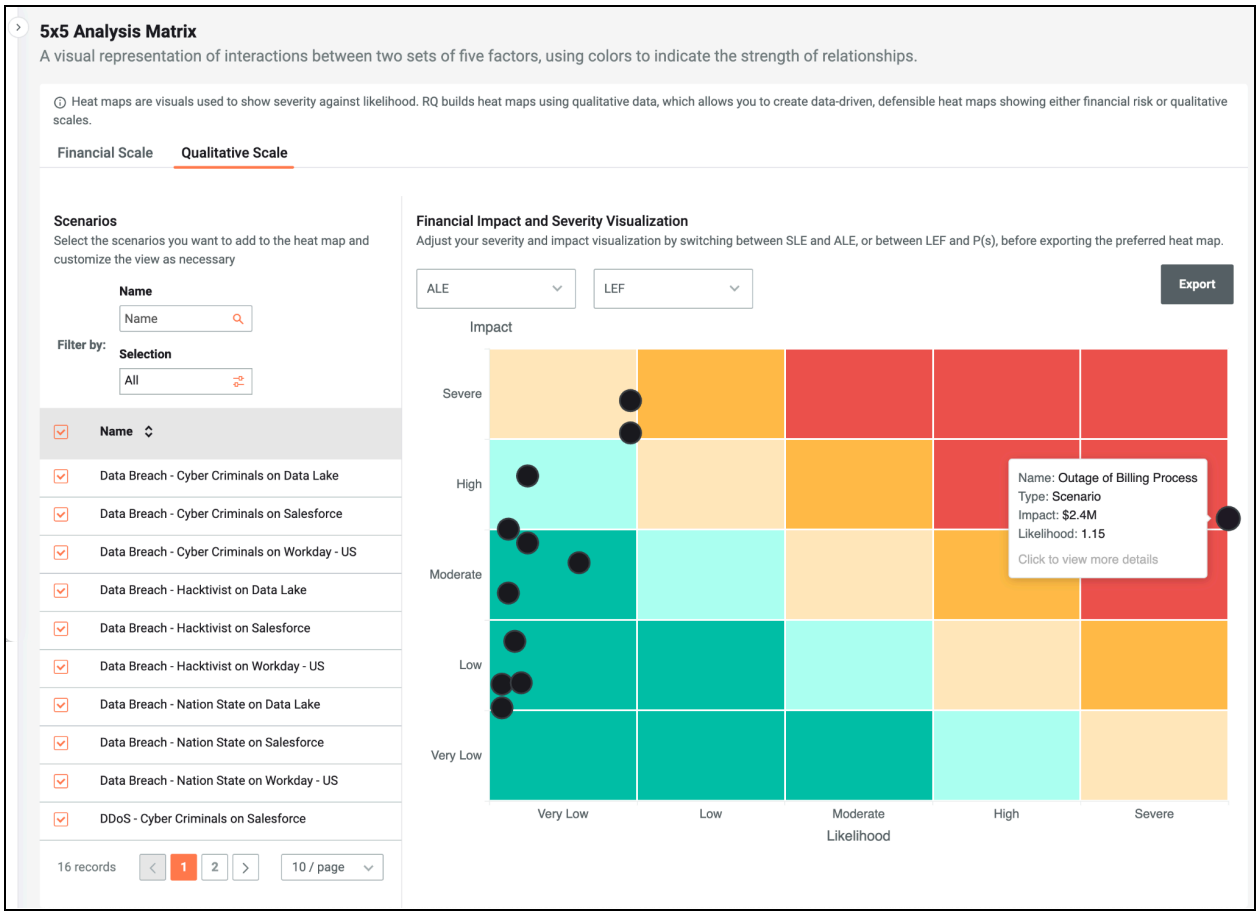
To address this gap, RQ 7.9 adds a data-driven heat map that shows scenarios calculated by RQ. The heat map can display financial scales or qualitative scales. For both scale types, you can choose to show the annualized loss expectancy (ALE) or single loss expectancy (SLE) on the *y*-axis and the P(s) (probability of an attacker succeeding) or loss event frequency (LEF) on the *x*-axis.

From the side navigation bar, select **5x5 Analysis Matrix** from the **Financial Insights** section. You will see a list of all scenarios for your Legal Entity, including Application and 'What If' scenarios, on the left and the heat map on the right. Select the **Financial Scale** or **Qualitative Scale** tab, and choose the scale for the *y*-axis and *x*-axis from the dropdowns above the heat map. Then select the checkbox for each scenario you want to include, or select the checkbox in the row header to add all scenarios. Each scenario is represented by a black dot on the heat map.



Financial-scale heat map

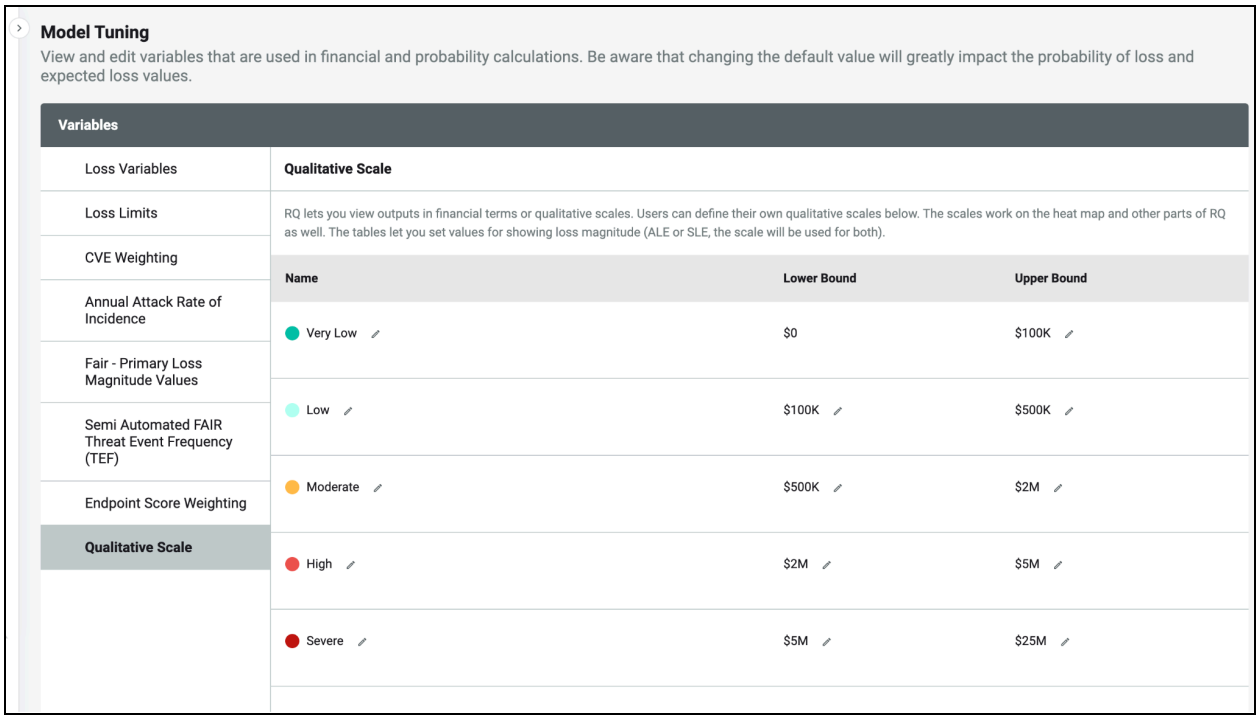
Hover over a dot to display a tooltip with information about its scenario. The tooltip shows the same information, including the scenario's financial impact and the likelihood for the selected axis types, on the **Financial Scale** and **Qualitative Scale** tab, providing a bridge between the two views. Click on the dot to display a window with more details about the scenario.



Qualitative-scale heat map showing a tooltip for one of the scenarios

Once you have built out your heat map, you can export it as a JPEG file by clicking **Export** at the upper right.

You can customize the labels for the qualitative scale and the financial ranges they correspond to in **Settings** → **Model Tuning** → **Qualitative Scale**.



Customize the labels and ranges for the qualitative scale

Technical Analysis

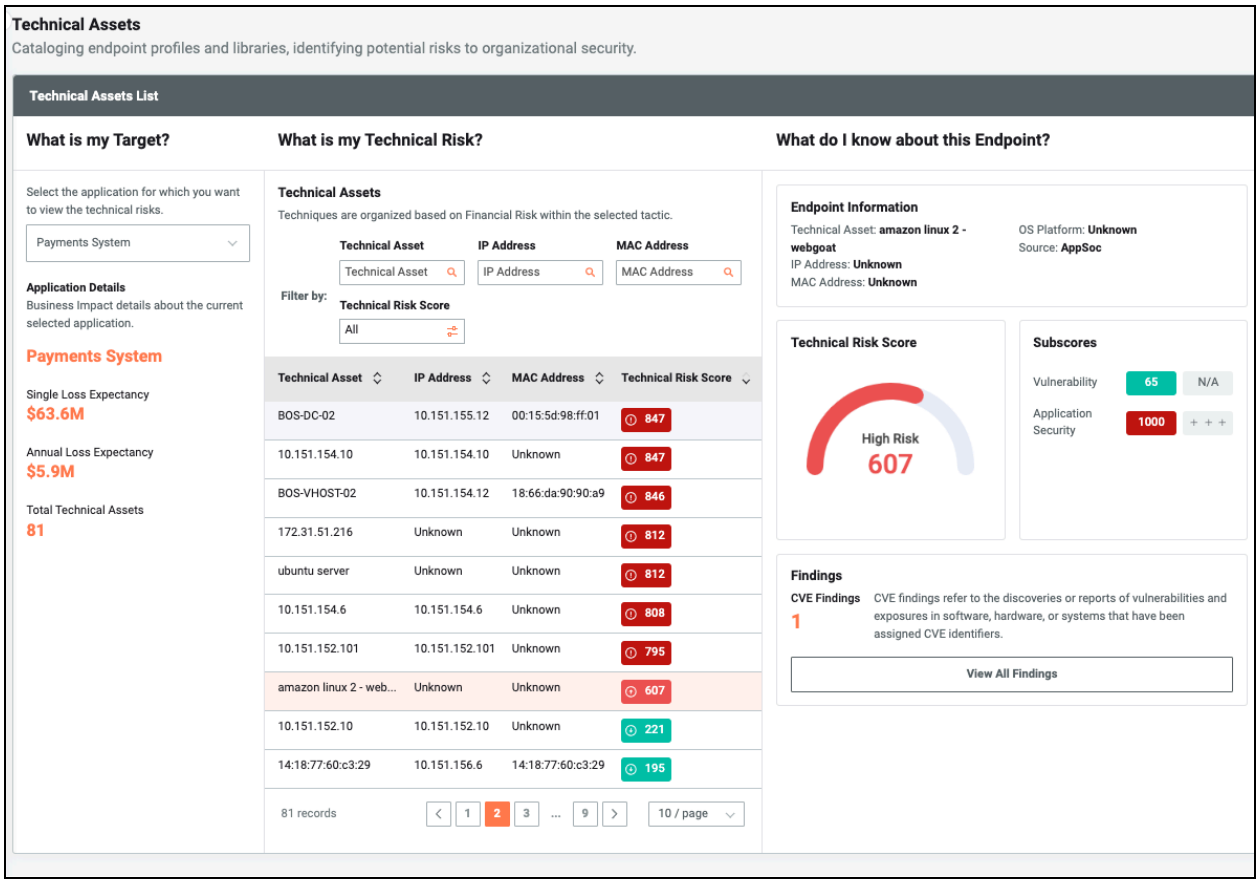
The **Technical Analysis** section of the side navigation bar, introduced in RQ 7.8, includes three options in RQ 7.9:

- **Technical Assets**: Select any of your configured Applications and view technical risk information for each of its endpoints.
- **Technical Risks**: View all the potential Common Vulnerabilities and Exposures (CVE®s) for your enterprise and each CVE's Exploit Prediction Scoring System (EPSS) and Common Vulnerability Scoring System (CVSS) score and related information.
- **Endpoint Profile** (previously found under **Configuration**): View a summary of the endpoint configurations in your Legal Entity.

Technical Assets

A technical asset is a workstation, server, database, container, network device, or other piece of software or hardware that an attacker can latch onto in order to execute an action. In RQ, each technical asset receives a technical risk score from 0 to 1000, with 0 being the most secure and 1000 being the least secure. On the **Technical Assets** screen, you can select any of the Applications you have configured from the dropdown in the **What is my Target?**

section to view a list of the Application's technical assets (endpoints) and the technical risk for each technical asset in the **What is my Technical Risk?** section. Select a technical asset to view a summary of its information, an assessment of its technical risk score, and its CVE findings in the **What do I know about this Endpoint?** section.



View technical risk scores for an Application's technical assets (endpoints)

RQ uses four analysis factors when computing an endpoint's technical risk score:

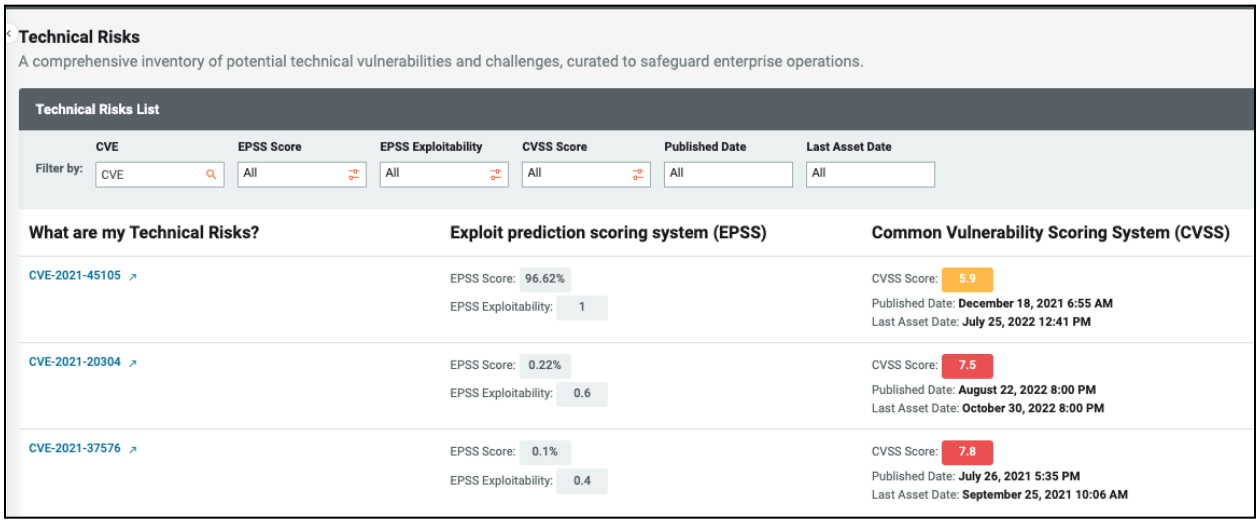
- Vulnerability data
- Application security data
- Subnet analysis
- Partner scoring

Endpoint technical risk scores are used when evaluating CVEs on the **Short-Term Recommendations** screen.

Technical Risks

The **Technical Risks** screen lists the potential CVEs in your enterprise's environment. For each CVE, it provides the following information, which is used to calculate the technical risk score for your Legal Entity's technical assets:

- The CVE's EPSS score and exploitability ranking
- The CVE's CVSS score, date of publication, and last asset date as provided by the National Institute of Standards and Technology's National Vulnerability Database (NVD)

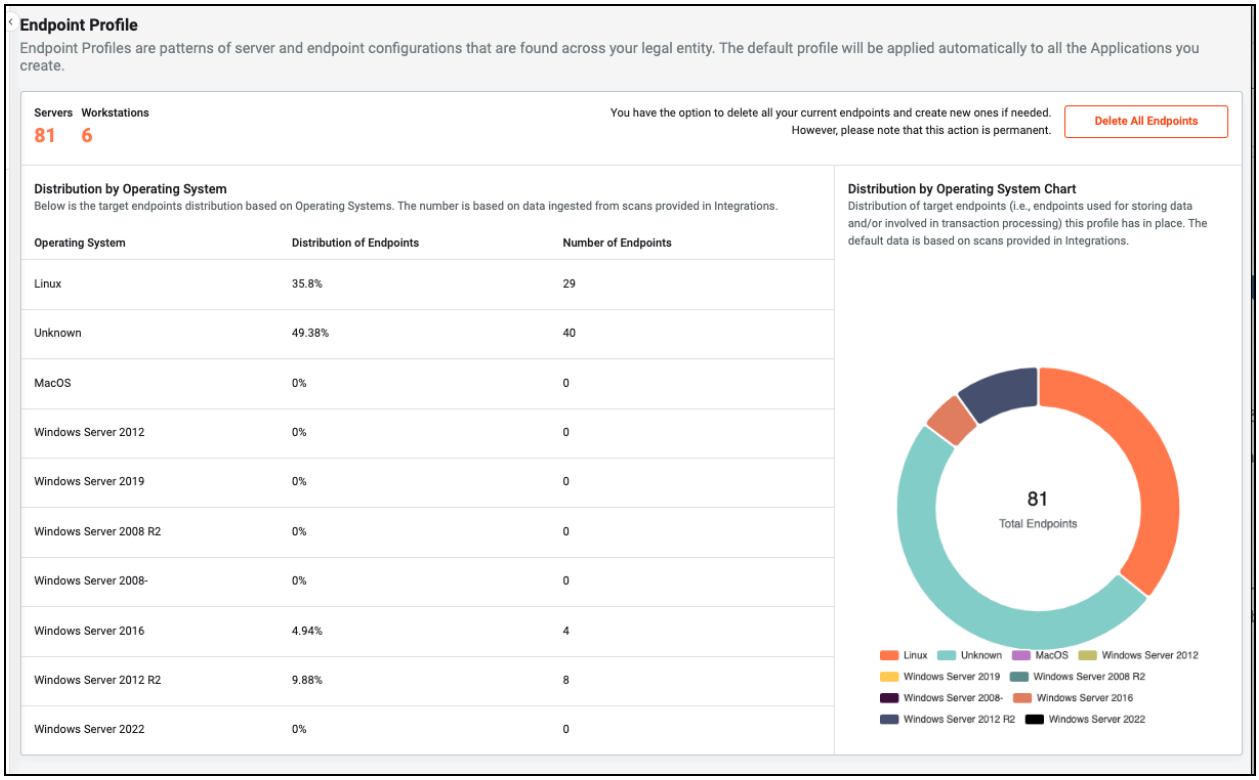


View CVE data used to calculate technical risk scores for your technical assets

You can click on a CVE to view its details in the NVD. You can also view more information about each CVE on MITRE®'s CVE Program website.

Endpoint Profile

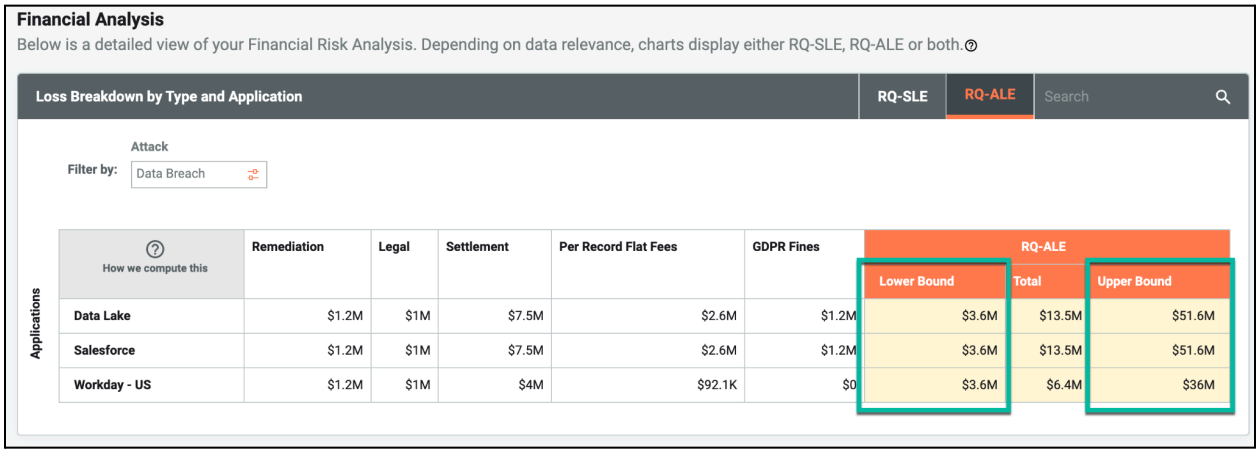
The **Endpoint Profile** screen, previously found under **Configuration**, displays an analysis of the endpoints for the Applications configured in your Legal Entity.



View an analysis of the endpoint configurations in your Legal Entity

Improvements

- On the **Financial Analysis** screen in RQ 7.9, **Lower Bound** and **Upper Bound** columns were added to the **RQ-ALE** section of the **Loss Breakdown by Type and Application** table.



Financial Analysis

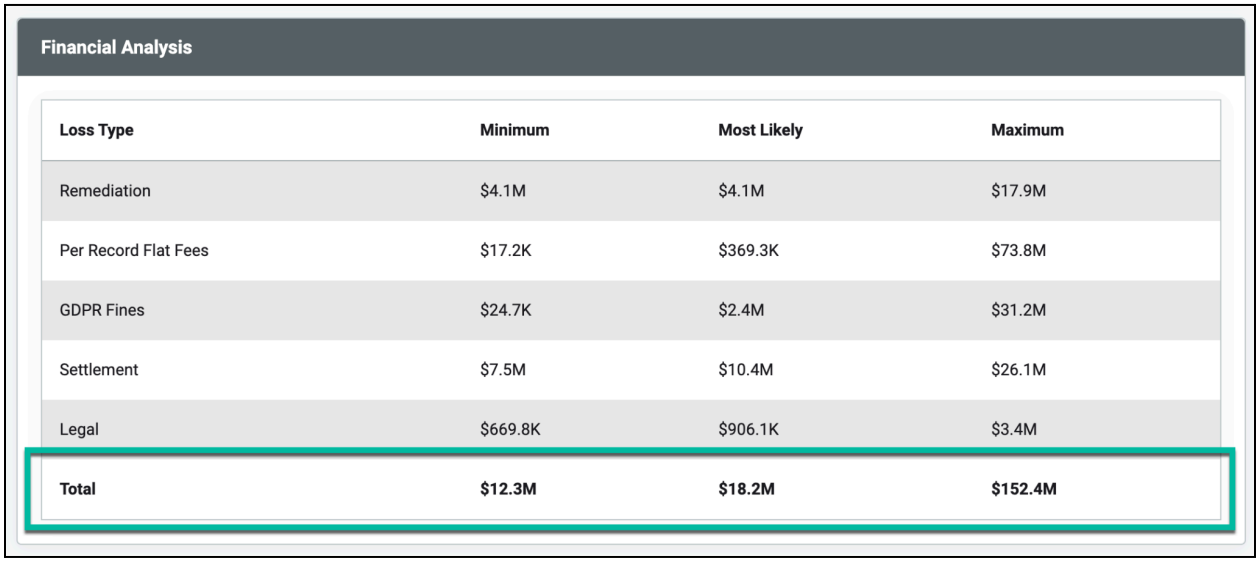
Below is a detailed view of your Financial Risk Analysis. Depending on data relevance, charts display either RQ-SLE, RQ-ALE or both.

Loss Breakdown by Type and Application | RQ-SLE | RQ-ALE | Search

Filter by: Attack — Data Breach

Applications	How we compute this	Remediation	Legal	Settlement	Per Record Flat Fees	GDPR Fines	RQ-ALE Lower Bound	RQ-ALE Total	RQ-ALE Upper Bound
Data Lake		$1.2M	$1M	$7.5M	$2.6M	$1.2M	$3.6M	$13.5M	$51.6M
Salesforce		$1.2M	$1M	$7.5M	$2.6M	$1.2M	$3.6M	$13.5M	$51.6M
Workday - US		$1.2M	$1M	$4M	$92.1K	$0	$3.6M	$6.4M	$36M

- When viewing a **Model risk to business assets** 'What If' analysis in RQ 7.8 and 7.9, there is now a **Total** row in the **Financial Analysis** table.



Financial Analysis

Loss Type	Minimum	Most Likely	Maximum
Remediation	$4.1M	$4.1M	$17.9M
Per Record Flat Fees	$17.2K	$369.3K	$73.8M
GDPR Fines	$24.7K	$2.4M	$31.2M
Settlement	$7.5M	$10.4M	$26.1M
Legal	$669.8K	$906.1K	$3.4M
Total	**$12.3M**	**$18.2M**	**$152.4M**

- When viewing a **FAIR Scenario** 'What If' analysis in RQ 7.9, the **Characteristics of the loss** table now includes rows for 10%, 25%, 50%, 75%, 90%, and 95%.

Characteristics of the loss	
Risk's characteristics	**ALE**
Minimum	$131.7K
10%	$516.2K
25%	$939.4K
50%	$1.7M
Average	$2.4M
75%	$3.3M
90%	$5.3M
95%	$6.5M
Maximum	$11.2M

Integrations

ThreatConnect RQ has added the following integrations:

- **Windows Defender**: This integration is used to analyze technical risks to endpoints.

Bug Fixes

- Resolved issues preventing some notifications for custom tables from being displayed in the **Notifications** section.
- Corrected issues related to the reconciliation of CVEs and endpoints.
- Enhanced performance for short-term recommendations, particularly when handling a large number of CVEs in the database.
- Fixed issues with the Data Export API where multi-control profile (MCP) scenarios were causing a 500 error due to invalid inputs in the payload.
- Addressed an issue with Single Sign-On (SSO) that was preventing updates to provider names.
- Rectified an issue in FAIR™ scenarios by setting a limit of 3000 characters on certain fields.
- Implemented several fixes for the AppSoc integration.