CIS Assessor: Local Cisco Switch Extraction Guide Tip Sheet

CIS-CAT Pro Assessor for Cisco Switch

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mastercard

Table of content

1. Tool Description

CIS-CAT Pro Assessor is a Java-based tool that scans a target system's configuration settings and reports the system's compliance to the corresponding CIS Benchmark. The results generated are only presented in machine-readable format.

2. Licensing Requirements

The CIS-CAT Pro Assessor is available for download through Mastercard's resources. For the complete download and installation guide, please refer to the "CIS-CAT Pro Assessor: Extraction Guide Tip Sheet".

The CIS-CAT Pro Assessor tool must be deleted once the configuration files export and processing is completed.

3. Who Should Use the Document

This document is for "Cyber Quant CyMA" users participating in an organizational cyber risk and security assessment using Mastercard's "Cyber Quant Cyber Risk Quantification" platform.
The document is also targeted at experienced IT and cyber professionals who will extract Cisco Switch devices configuration files for the "Cyber Quant CyMA" cyber risk and security assessment.

4. Requirements & Permissions

- Cisco device requirements:
    - Supported Cisco OS devices
        - Cisco NX-OS, Extreme Networks.
        - Cisco IOS XR.
        - Cisco IOS XE 16 & Cisco IOS XE 17.
    - SSH access to the Cisco device.
    - Admin privileges.
- CIS Tool Requirements:
    - Machine Requirements

- Windows server or client OS (it cannot be executed on a Linux machine).
- CIS-CAT Pro Assessor requires a Java Runtime Environment (JRE) at or above version 1.8.

- Access Requirements
  - Administrative permissions to execute the CIS-CAT Pro Assessor.
  - Administrative permissions to connect to the organizational technological assets.

5. High Level Process Flow

Log in via SSH to the Cisco Switch device desired for the analysis and export the tech-support file into the machine with the CIS CAT Pro Assessor installed.

Import the extracted file into the CIS CAT Pro Assessor tool and generate an XML report.

Import the XML report into "CyMA" and review the results.

6. The Extraction Process

1. Connect via SSH to the desired Cisco Switch device.
2. Execute the following command to create a local configuration file with the device's configuration.

1. For Cisco device:

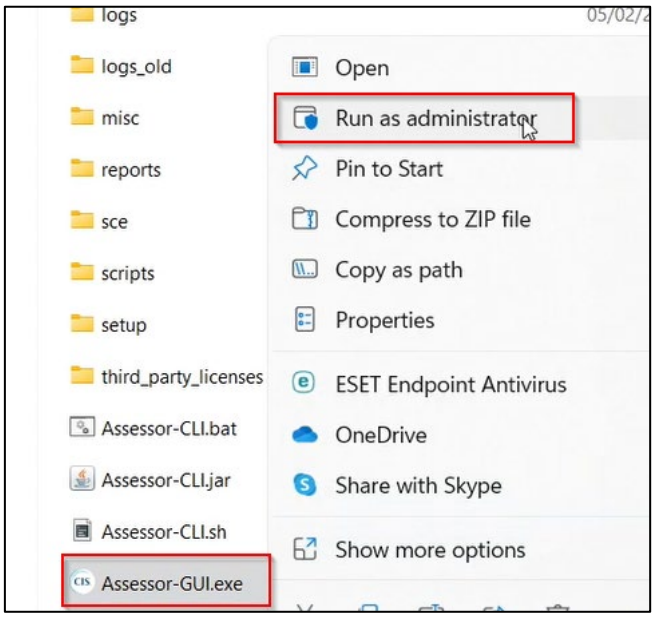
```
configure terminal
terminal length 0
show running-configuration | redirect flash:/cisco_switch.txt

configure terminal
terminal length 24
```

2. For Extreme Networks device:

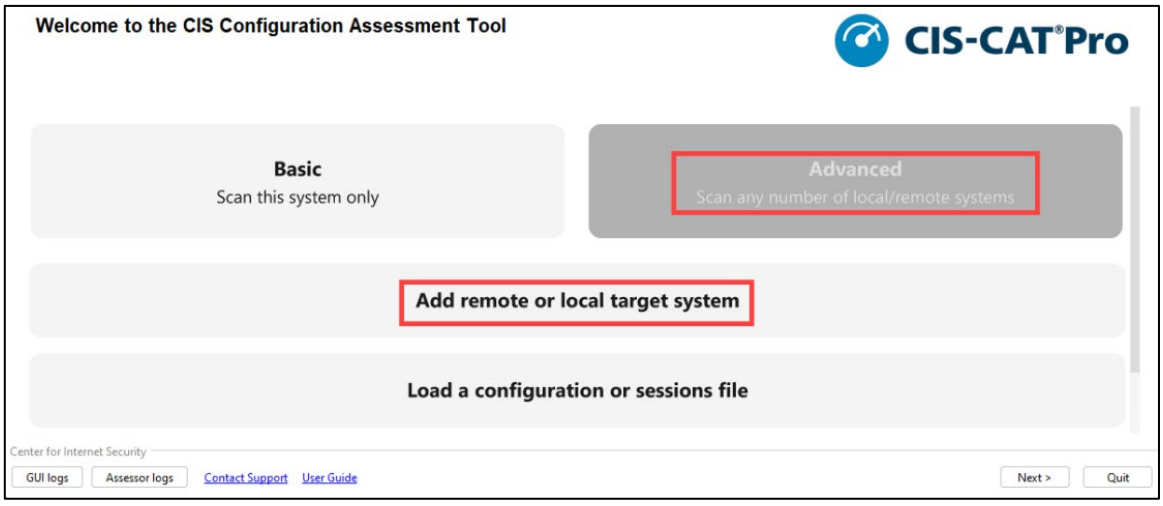
```
Extreme: disable clipaging
copy configuration flash:/extreme_sw.txt
```

3. Transfer the configuration file to a computer with the CIS-CAT Pro Assessor installed.

4. Start the CIS-CAT Pro Assessor as administrator and accept the user account control dialog box (proceed normally if it does not appear); it may require administrative credentials.



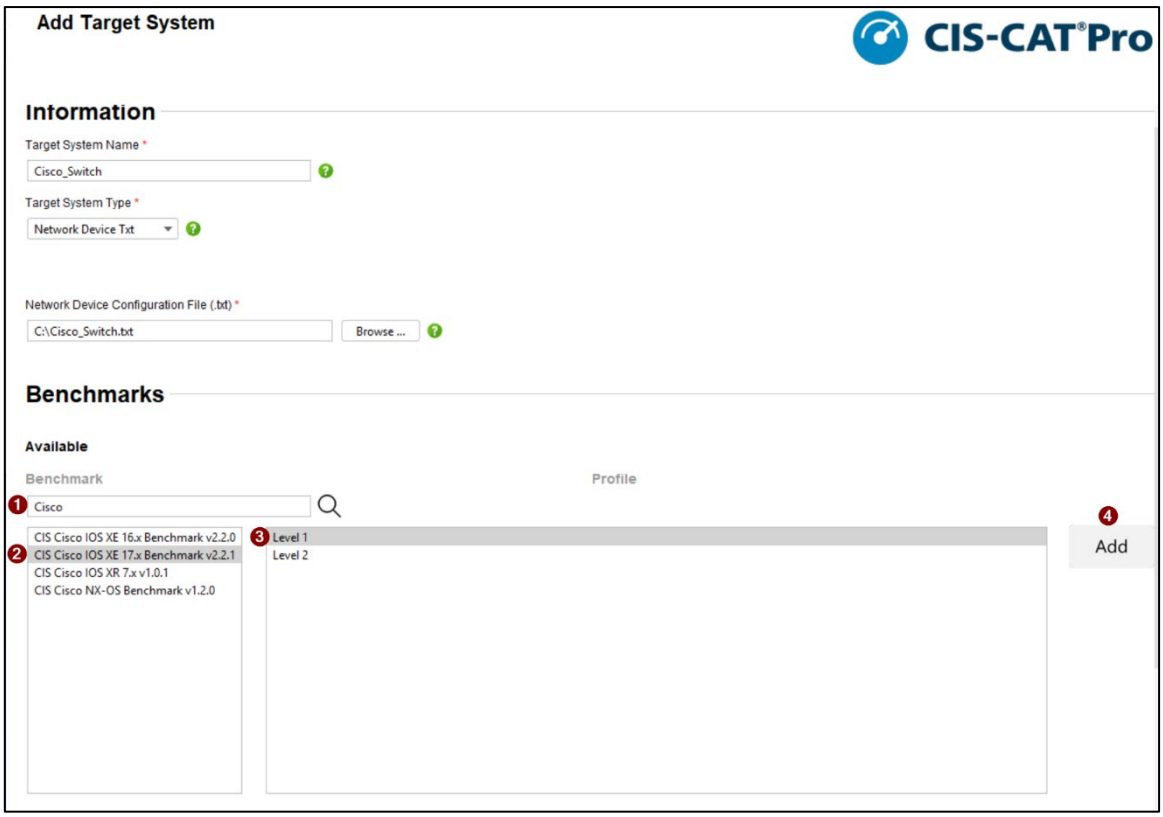
5. Click on "Advanced" and then on "Add remote or local target system." Several target systems can be added at the same time; each will require discrete addresses and credentials to retrieve the benchmarks and profiles.



6. Select target System type as “Network Device Txt”.

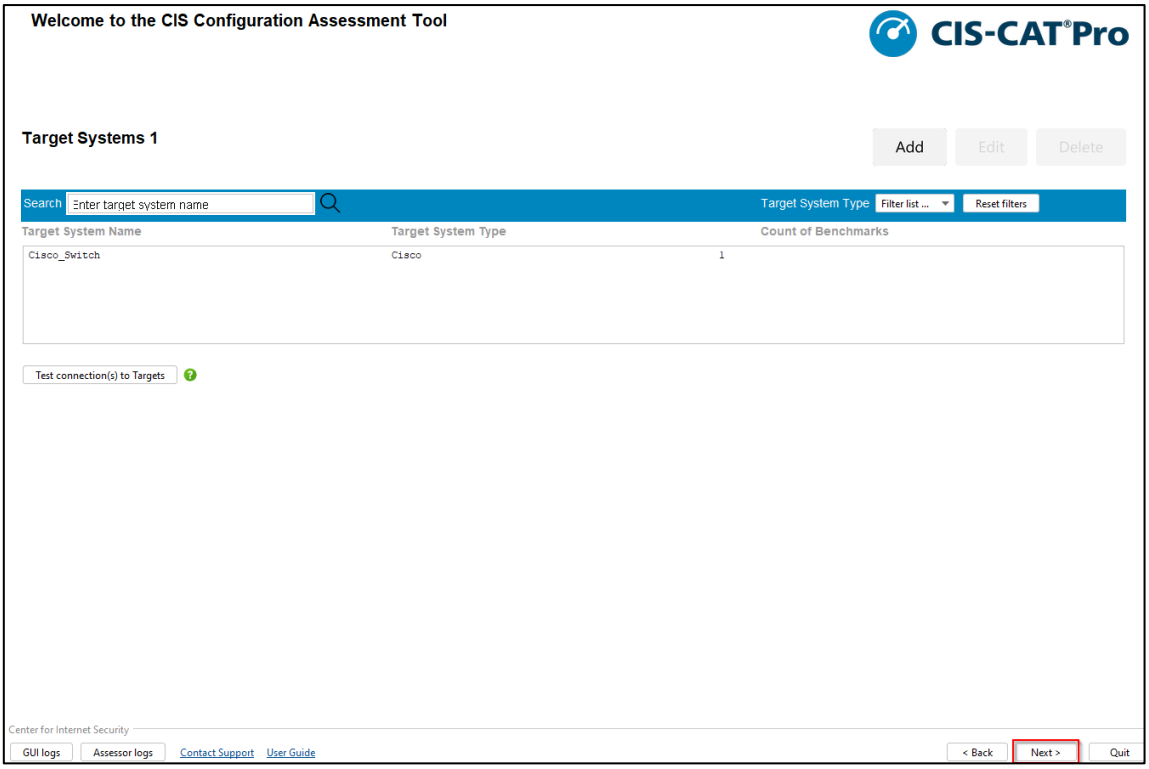
7. Fill in the Target System Name and click on browse to find the Cisco configuration file.

8. Once the configuration file is uploaded, the screen will change, then select the desired Cisco Switch version device, the CIS assessment level, and click “Add“.

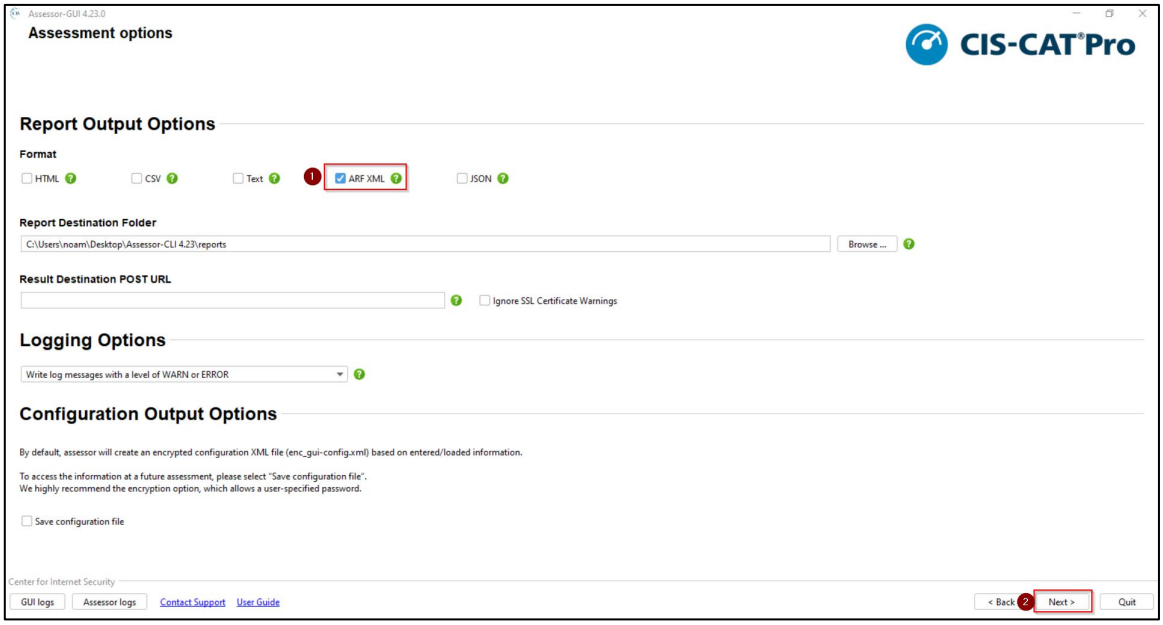


9. In the "Selected" section, delete any other benchmarks if they exist and keep only the CIS Cisco Switch benchmark. Finally, click on "Save".

10. Click on "Next" on the test connection page.

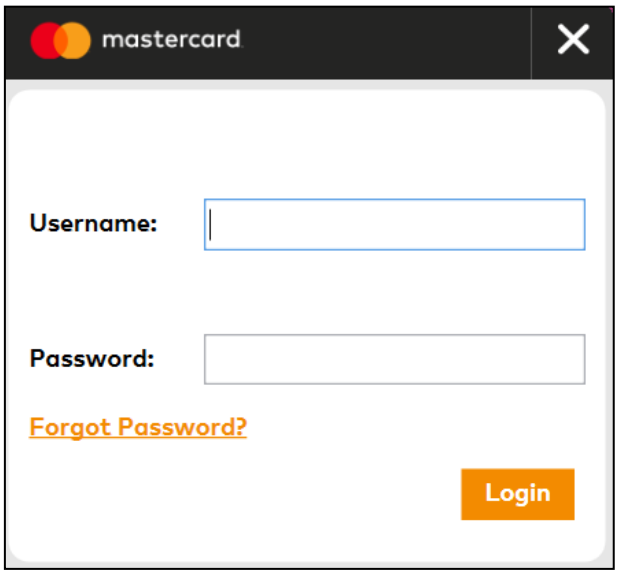


11. Select the "ARF XML" format (this is the only format supported by "CyMA") and the destination to save the report into and click "Next." In addition, an "HTML" format can also be selected to generate a human-friendly report. **It is recommended to store it in the default "C:\ Assessor-CLI\ reports" to avoid long paths that may cause errors.** When the "Confirmation" box appears, click on "Start Assessment".

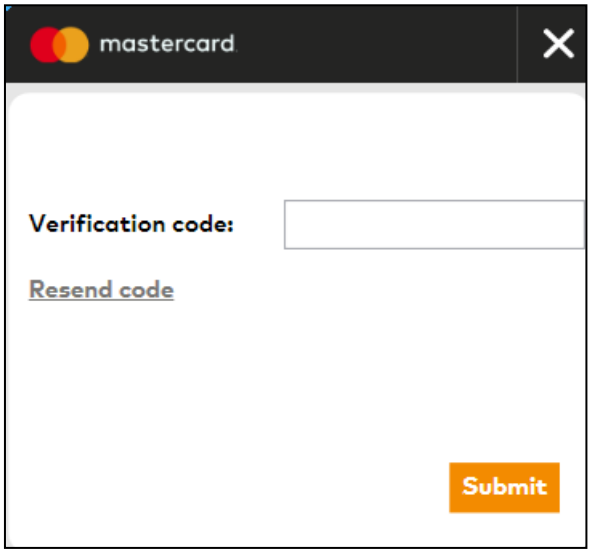


7. Open and Review Integration Results on CyMA

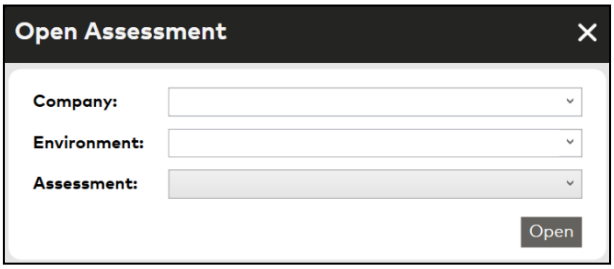
1. For instructions on how to download CyMA, please refer to the "CyMA Installation" tip sheet.
2. After Installation, execute the "Cyber Quant CyMA" client and log in.



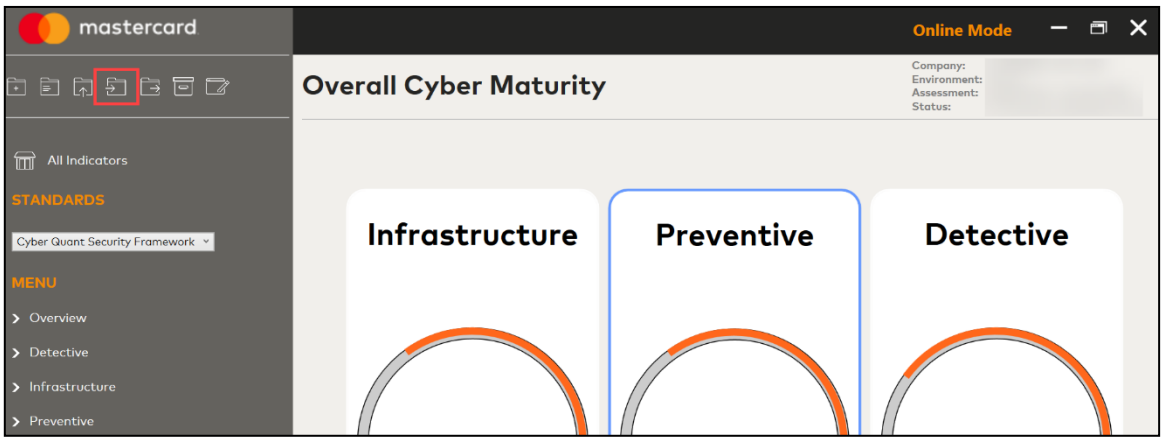
3. Enter the verification code sent to the account's email address.



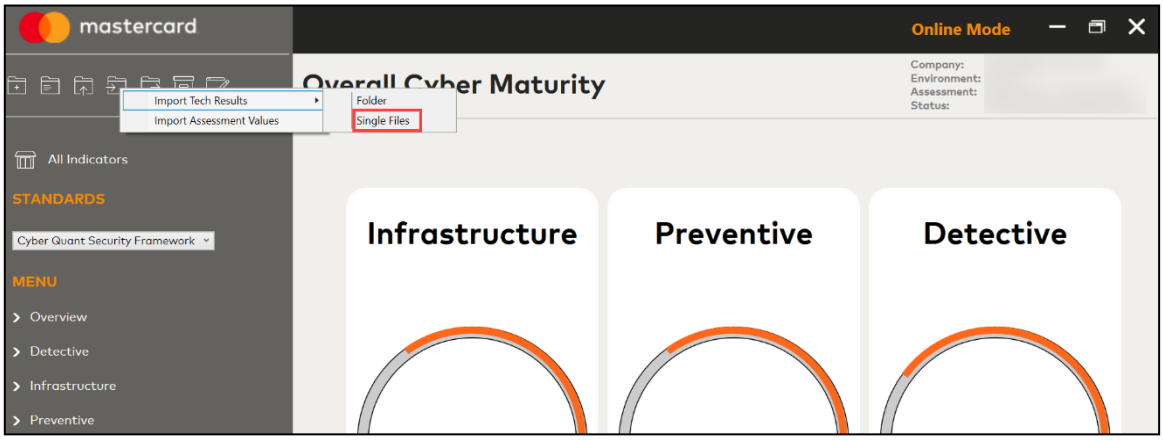
4. Select the desired company, environment, and assessment to import the report.



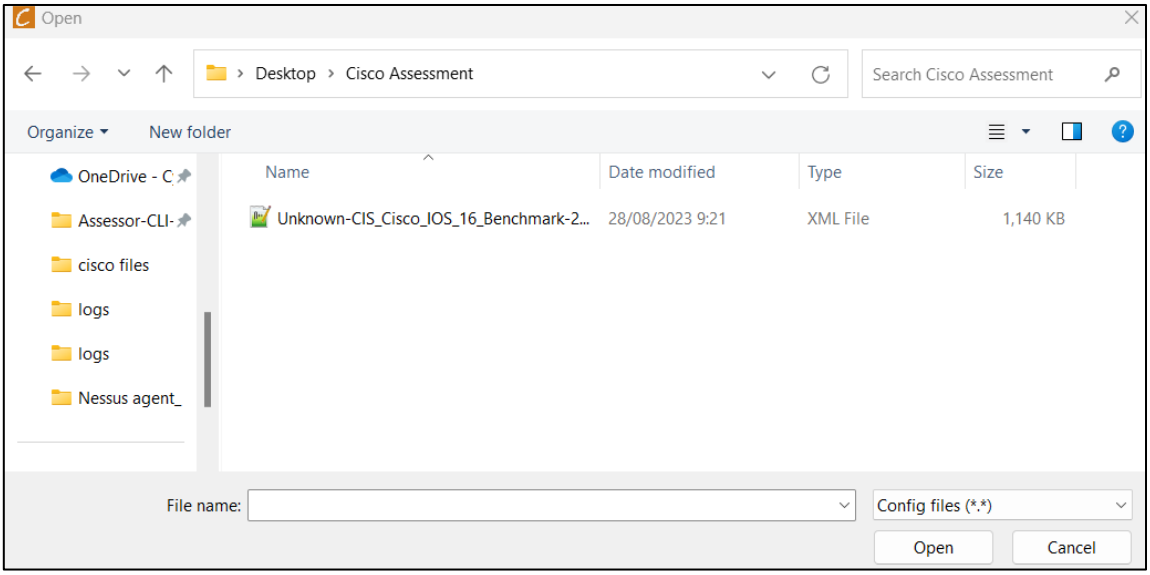
5. Click on the "Import Files" icon on the top left of the screen.



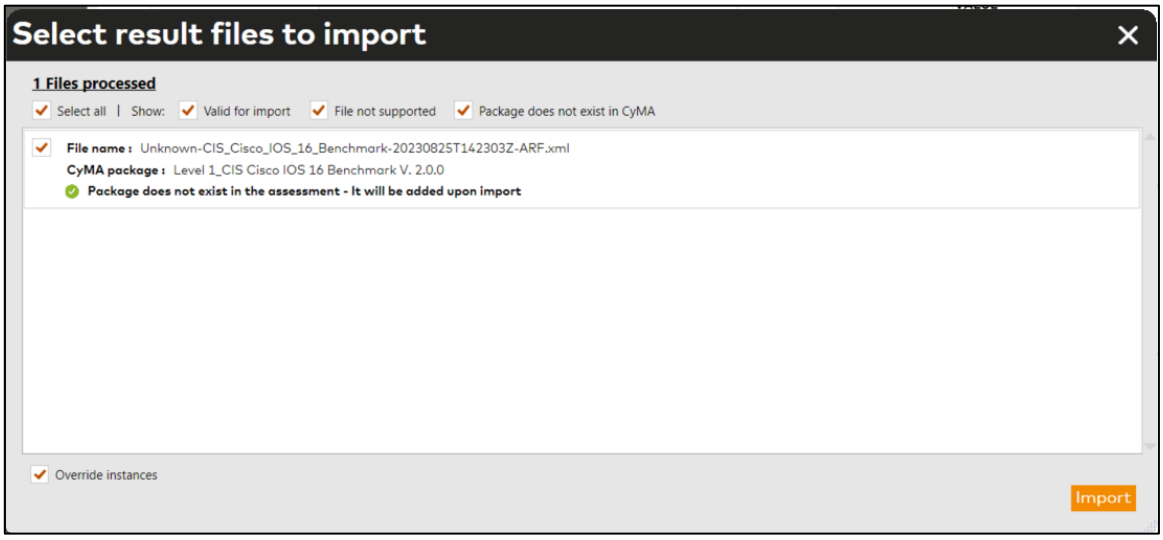
6. Hover over "Import Tech Results", click "Choose Single File".



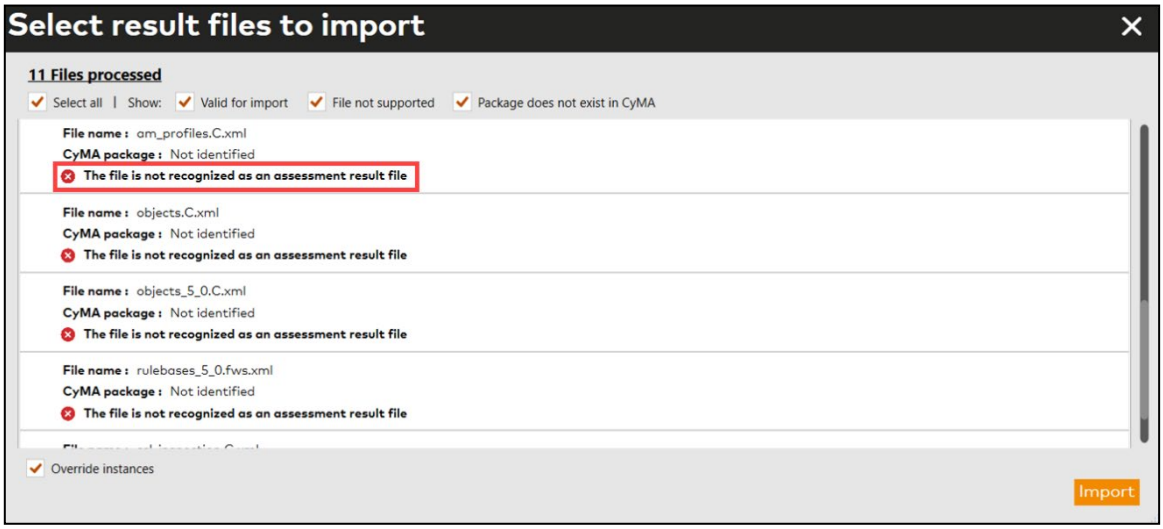
7. Browse to the dedicated folder where the configuration files are stored:



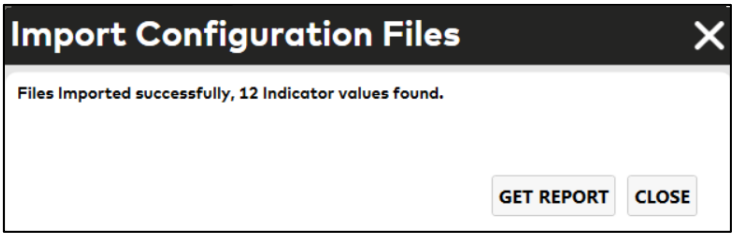
8. Once the report is open, select the file and click "Import". The following screen displays information regarding import errors and packages associated with the imported files.



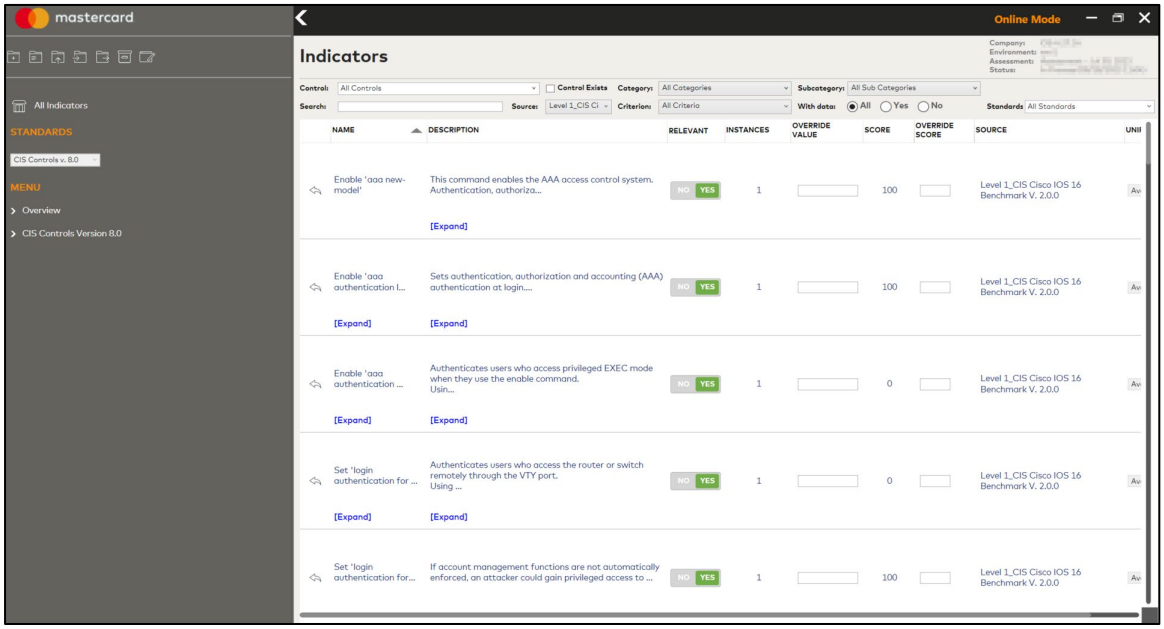
A red mark is displayed below the package in case of an error.



9. Upon successful import, a confirmation notice is displayed, click "CLOSE". **Please note that the number of indicators may vary based on the input configuration files.**

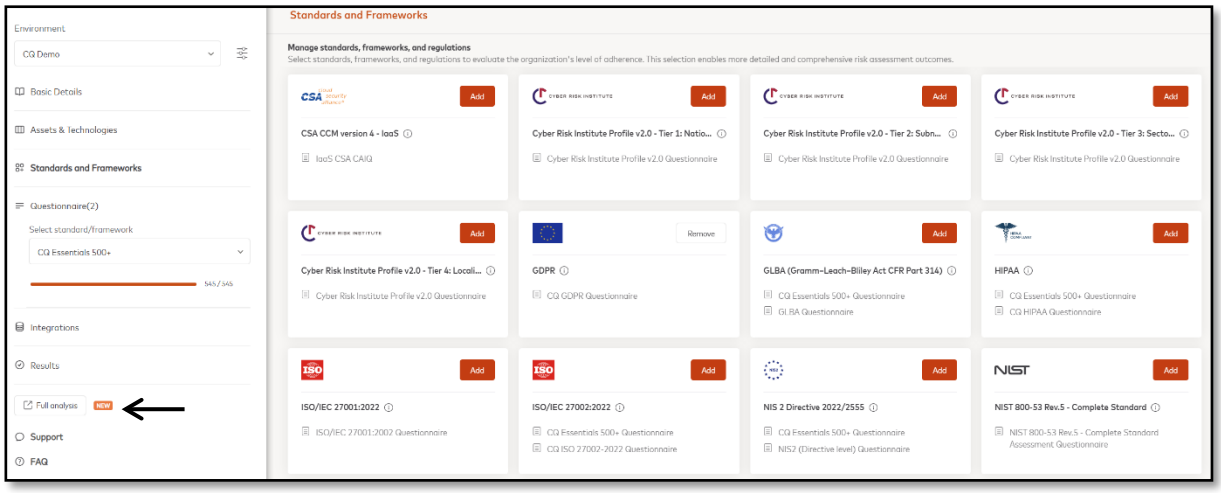


10. The assessment results are now available for review.

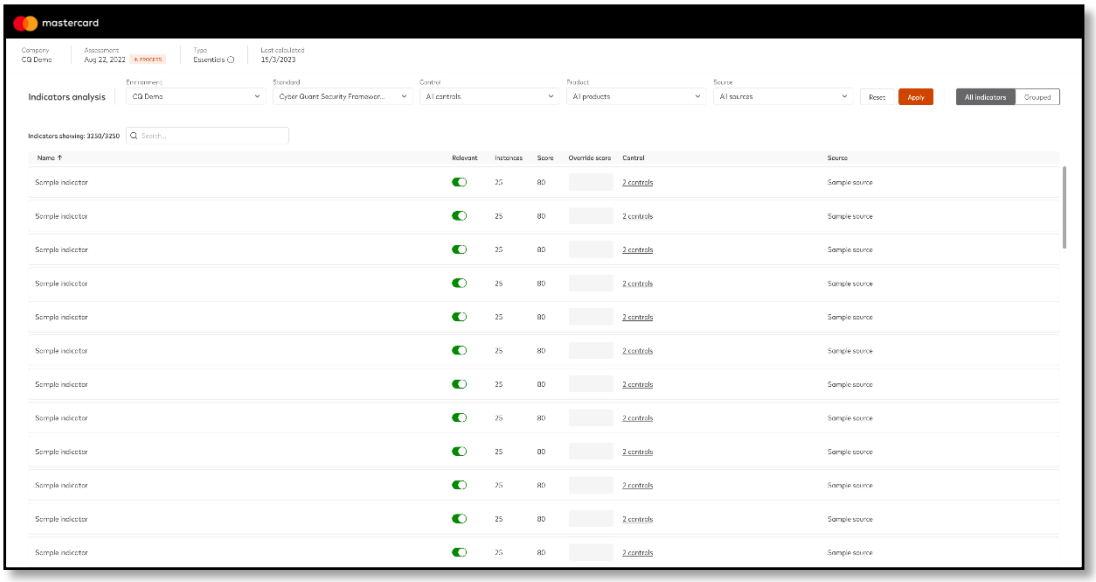


8. Review Integration Results on CyMA Web

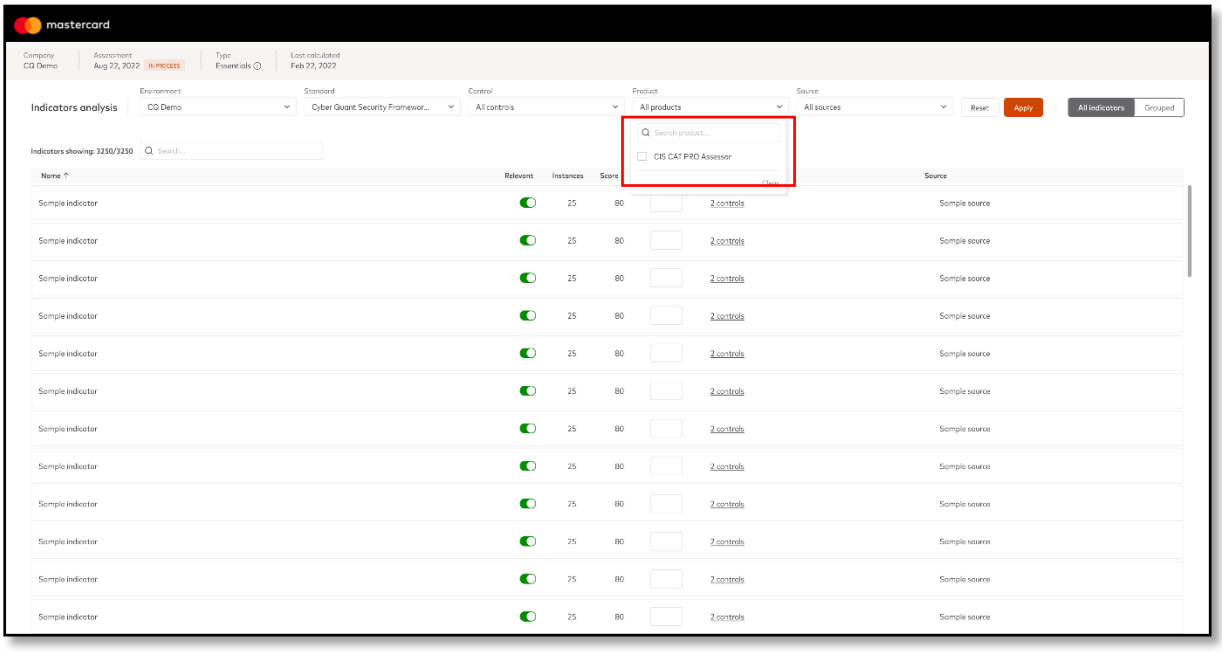
1. Go to the Assessment Portal, open the relevant company and click on “Full analysis” option.



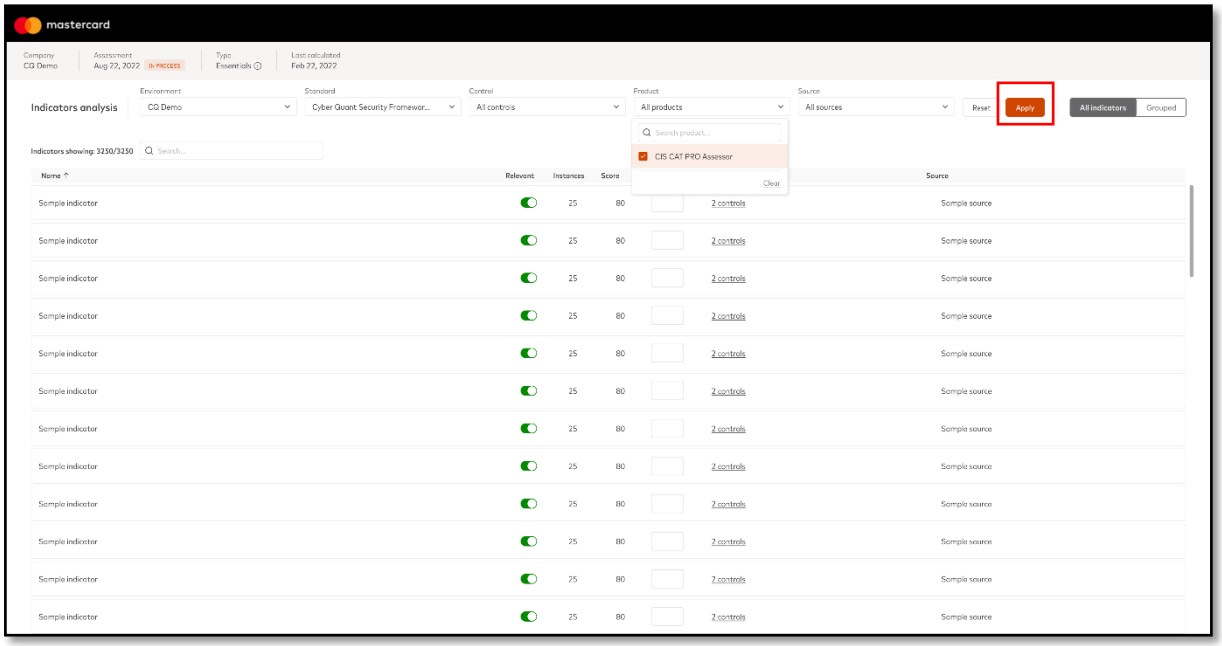
2. After selection, you will be redirected to the page containing the CyMA or "Full Analysis" information.



3. Here you can filter the indicator based on the relevant product integration.



4. The product selection will be made with "CIS CAT Pro" and then select the Apply option.



5. For the selected Product, you can analyze the indicator score, relevance, number of instances, and controls.
6. Clicking on the indicator will open a slider on the right-hand side with an in-depth view.