

SecurityIQ Dropbox for Business Connector Installation Guide

SecurityIQ Version: 6.0



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1. CONNECTOR INSTALLATION & CONFIGURATION

1.1. Overview

1.1.1. Installation Flow

- 1. Configure all the prerequisites.
- 2. Add a new application to the SecurityIQ Administrative Client.
- 3. Install the Activity Monitor/Permissions Collector/Data Classification services.

Note: Permission Collector and Data Classification services installation is optional and should only be installed by someone with a full understanding of SecurityIQ deployment architecture. The SecurityIQ Administrator Guide has additional information on SecurityIQ architecture.



2. GENERAL

2.1. Connector Operation Principles

- SecurityIQ Connector for Dropbox for Business uses the Dropbox Business API for event monitoring, identity, and permissions collection.
- The Dropbox Business and Core APIs uses the OAuth 2.0 authorization protocol to authenticate and authorize API requests.
- SecurityIQ for Dropbox Connector is a registered Dropbox App, which requires a short authorization process to use the Dropbox Business API during the definition of the Dropbox application.
- After the initial authorization process, SecurityIQ handles the OAuth token management automatically and refreshes the token if needed.

2.2. Monitored Activities

Monitored events are as defined in the Dropbox Business API specification: https://www.dropbox.com/developers-v1/business/docs#log-get-events

Note: This published event list is not comprehensive. Due to Dropbox API being under migration to v2 – the documentation currently available on the website is incomplete. SecurityIQ supports much more event types than officially listed, including generic support for new (unrecognized) event types.

2.3. Permissions Collector Operation Principles

- SecurityIQ Dropbox Permissions Collector uses Dropbox Content API to retrieve collaboration and to share information.
- SecurityIQ creates a Dropbox Identity Collector automatically at the end of the "Add New Application" wizard, which collects the Users and Groups from Dropbox.



3. Prerequisites

3.1. Software Requirements

- Activity Monitor/Permissions Collector/Data Classification service
 - Microsoft .Net Framework 4.5

3.2. Permissions

 During the OAuth authorization process, a Dropbox for Business Team Admin user must grant the SailPoint SecurityIQ Dropbox Application access to the data on Dropbox.

3.3. Communications Requirements

Table 1. Communications Requirements

Requirement	Source	Destination	Port
SecurityIQ Database Access	Permissions Collector/Data Classification	SecurityIQ DB	According to specific DB definitions
SecurityIQ Access	Activity Monitor	SecurityIQ Servers	8000-8008
Permissions Collection/Data Classification	Permissions Collector/Data Classification	Dropbox API	https
Activity Monitoring	Activity Monitor	Dropbox API	https



4. ADD NEW APPLICATION WIZARD

- 1. Navigate to *System* \rightarrow *Applications*.
- 2. Select New \rightarrow Application.

The New Application Wizard window of the New Application Wizard displays under the Welcome tab.

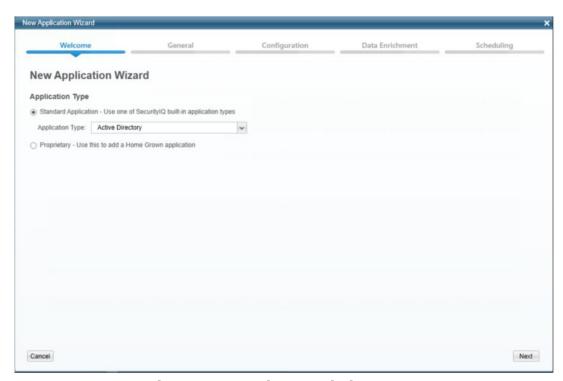


Figure 1. Welcome Window

- 3. Select Standard Application.
- 4. Select **Dropbox** from the **Application Type** dropdown menu.
- 5. Click Next.



The General Details window of the New Application Wizard displays under the General tab.

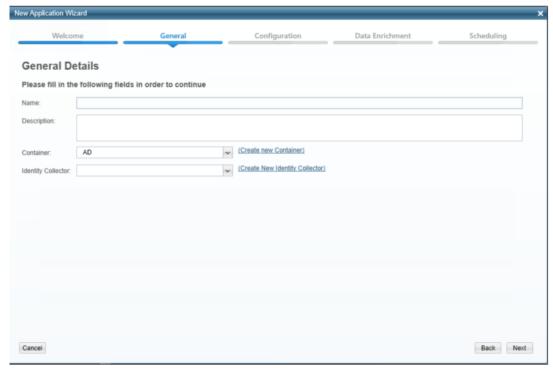


Figure 2. General Details Window

- 6. Type the logical name of the application in the *Name* field.
- 7. Type a description of the application in the *Description* field.
- 8. Select a logical container for the application from the **Container** dropdown menu.
- 9. Click Next.



The Monitor Configuration window of the New Application Wizard displays under the Configuration tab.



Figure 3. Configuration Window

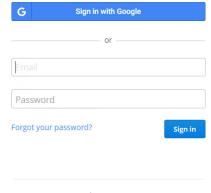
- 10. Complete the Connection Details fields:
 - Authorization Page (When selected, the Dropbox Consent window displays.)
 - Authorization Code (This is a result of the OAuth authorization process.)







Sign in to Dropbox to link with SailPoint SecurityIQ



New to Dropbox? Create an account

Figure 4. OAuth Dropbox Consent Window

11. Log in with a Team Admin user name.

You are redirected to the SecurityIQ Cloud Authorization Website.

Note: If the authentication process was successful, the system displays an authorization code.

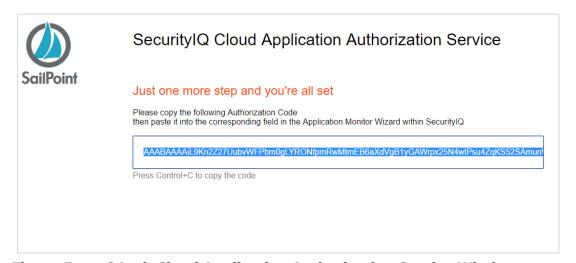


Figure 5. OAuth Cloud Application Authorization Service Window

- 12. Copy the resulting authorization code to the *Authorization Code Configuration* field.
- 13. Revert to the Configuration window.



- 14. Click to enable Permission Collection and complete the relevant Permissions Collection items:
 - *Skip Identities Sync* (Skip identity synchronization before running permission collection tasks when the identity collector is common to many different connectors.)
- 15. Click to enable Data Classification and select a central data classification service from the list
- 16. Click Next.

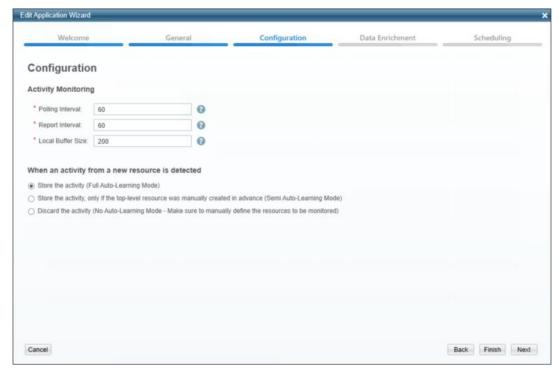


Figure 6. Configuration Wizard

- 17. Fill in the Connection Details with an Authorization Code.
- 18. Under Permission Collection, check the "Enable Permission Collection" checkbox if appropriate.
- 19. Under Data Classification, check the "Enable Data Classification" checkbox if appropriate.
- 20. Click Next.



The Data Enrichment Connectors window of the New Application Wizard displays under the Data Enrichment tab.

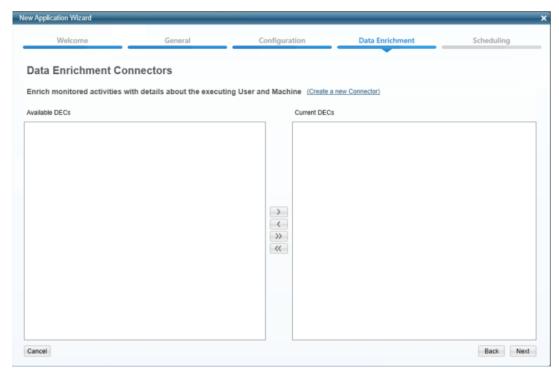


Figure 7. Data Enrichment Connectors Window

21. Select the data enrichment connectors (DECs) to enrich monitored activities from the Available DECs text box, and use the > or >> arrows to move them to the Current DECs text box.

Note: Chapter 6 of the SecurityIQ Administrative Client User Guide provides more information on Data Enrichment Connectors, including what they are, how to configure them, and how they fit in the Activity Flow.

22. Click Next.



Note: The Scheduling tab contains the Permissions Collection, Crawler, and Data Classification (if supported) scheduling windows. You can navigate among those windows, using the Next and Back buttons.

The Permissions Collection window of the New Application Wizard displays under the Scheduling tab.

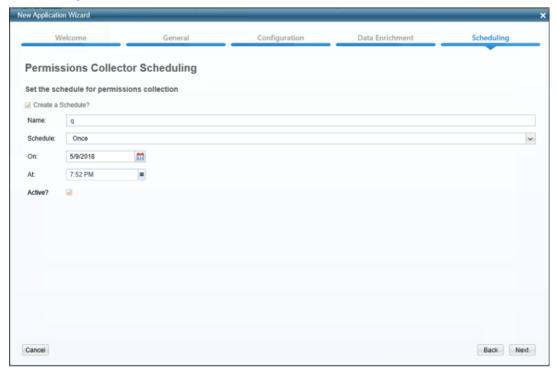


Figure 8. Permissions Collection Window

- 23. Check the **Create a Schedule** check box.
- 24. Type a name for the permissions collection scheduling task in the *Name* field.
- 25. Select a scheduling frequency from the **Schedule** dropdown menu.
- 26. Fill in the relevant date and time fields (which differ, depending upon the scheduling frequency selected).
- 27. Check the **Active** check box if relevant.
- 28. Click Next.



The Crawler window of the New Application Wizard displays under the Scheduling tab.

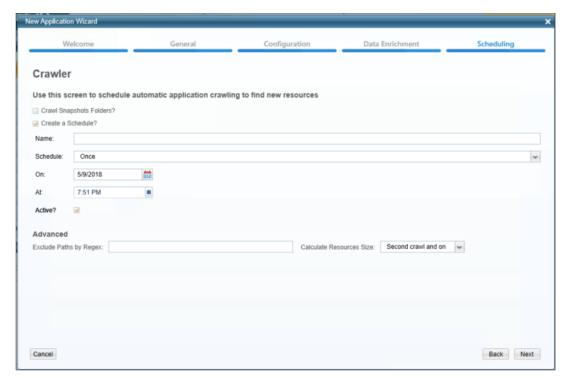


Figure 9. Crawler Window

- 29. Check the Create a Schedule check box.
- 30. Type a name for the crawling scheduling task in the Name field.
- 31. Select a scheduling frequency from the **Schedule** dropdown menu.
- 32. Fill in the relevant date and time fields (which differ, depending upon the scheduling frequency selected).
- 33. Check the **Active** check box if relevant.
- 34. Type in the names of folders to exclude from the crawling process in the *Exclude Paths by Regex* field.

Note: Chapter 7 of the SecurityIQ Administrative Client User Guide provides more information on the Crawling Process.

35. Click Next.



The Data Classification window of the New Application Wizard displays under the Scheduling tab.

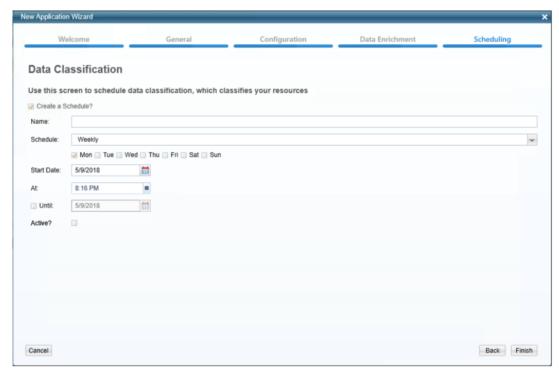


Figure 10. Data Classification Window

- 36. Check the **Create a Schedule** check box.
- 37. Type a name for the data classification scheduling task in the *Name* field.
- 38. Select a scheduling frequency from the **Schedule** dropdown menu.
- 39. Fill in the relevant date and time fields (which differ, depending upon the scheduling frequency selected).
- 40. Check the **Active** check box if relevant.

Note: Chapter 9 of the SecurityIQ Administrative Client User Guide provides more information on Data Classification.

41. Click Finish.



5. Installation of Services

5.1. Collector Installation

Run the "SecurityIQ Agent Manager" as an Administrator.
 The installation files are located in the installation package under 'Connectors\ SecurityIQ Collector Manager.exe'.

The SecurityIQ Collector Installation Manager window displays.



Figure 11. SecurityIQ Collector Installation Manager

- 2. Enter the credentials to connect to the SecurityIQ database. The User should be the same as the one used to log in to the Administrative Client.
- 3. Click Next.



The Service Configuration window displays.

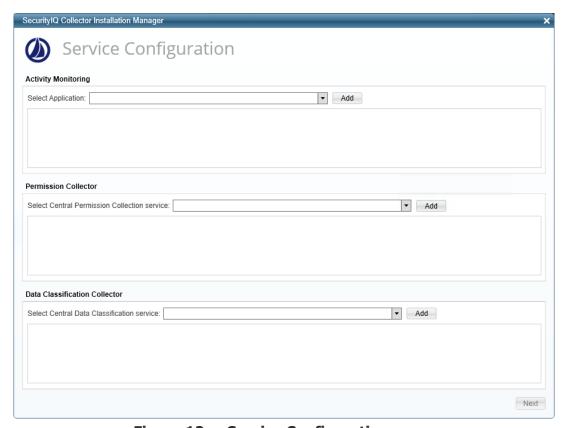


Figure 12. Service Configuration

- 4. If you are installing the Activity Monitoring collector, select the application and click **Add**.
- 5. If you are installing the Permission Collector, select the Central Permission Collector to which to connect this service, and click **Add**.
- 6. If you are installing the Data Classification Collector, select the Central Classification Collector to which to connect this service, and click **Add**.

Note: The SecurityIQ Administrator Guide has additional information on SecurityIQ architecture, which is important to review before installing the Permission Collector.

7. Click Next.



The Installation Folder window displays.

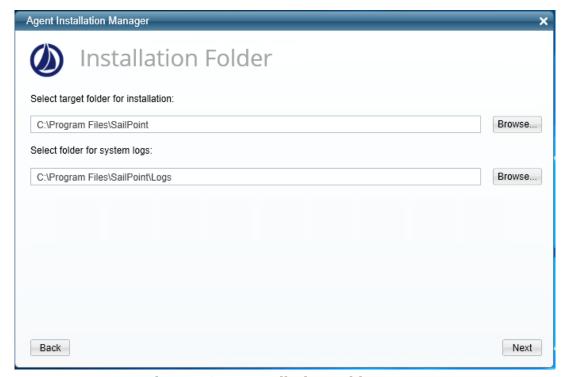


Figure 13. Installation Folder

Note: If this is the first time you are installing collectors on this machine, you will be prompted to select an installation folder, in which all future collectors will also be installed.

- 8. Browse and select the location of the target folder for installation.
- 9. Browse and select the location of the folder for system logs.
- 10. Click Next.

The system begins installing the selected components.

11. Click **Finish** (which displays after all of the selected components have been installed).

Note: The SecurityIQ Administrative Client User Guide provides more information on Permissions Collection.



6. VERIFICATION

6.1. Services

6.2. Connectors Services

- **SecurityIQ Activity Monitor**—<Application_Name> service is running.
- **SecurityIQ Permissions Collection**—<Application_Name> service is running.
- **SecurityIQ Data Classification**—<Application_Name> service is running.
- **SecurityIQ Watchdog**—<Application_Name> service is running.

6.3. Logs

- "%SIQ_HOME_LOGS%\DROPBOX <Application_Name>.log" does not contain errors.
- "%SIQ_HOME_LOGS%\RoleAnalytics-<Application_Name>.log" does not contain errors.
- "%SIQ_HOME_LOGS%\DataClassification-<Application_Name>.log" does not contain errors.
- "%SIQ_HOME_LOGS%\Watchdog-<Application_Name>.log" does not contain errors.

6.4. Monitored Activities

- 1. Simulate activities on the Dropbox for Business.
- 2. Wait a minute (approximately).
- 3. Query for activities in the Administrative Client by <application_Name>.
- 4. Verify that the activities display in the Administrative Client.

6.5. Permissions Collection

- 1. Run the Crawler and Permissions Collector tasks in the SecurityIQ Administrative Client.
- 2. Verify that:
 - The tasks completed successfully.
 - Business resources were created on the BRs tree.
 - Permissions display in the Permissions Forensics window.