

**SCOPE CERTIFIED APPLICATION INSTALLATION AND
CONFIGURATION GUIDE**

Service Graph Connector for Lansweeper (2.6.0)

Version Control

| # | Document Version | Date | Owner | Document Status | Comments |
|---|------------------|-----------------------------|----------------|-----------------|---|
| 1 | 1.0.0 | 10 th Aug 2021 | Dhaval Bhimani | Completed | Added information about v2.1.0 |
| 2 | 2.0.0 | 22 nd July 2022 | Dhaval Bhimani | Completed | Support of San Diego version (v2.4.0) |
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| 4 | 2.0.2 | 28 th April 2023 | Dhaval Bhimani | Completed | Support of Utah version |
| 5 | 2.5.1 | 5 th Feb 2024 | Dhaval Bhimani | Completed | Support of Vancouver and Washington DC version |
| 6 | 2.6.0 | 1st September 2024 | Dhaval Bhimani | Completed | Identical to v2.5.1, with fix for software data |

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1. Overview

Lansweeper is an application that gathers hardware and software information of computers and other devices on a computer network for management and compliance and audit purposes. The application also encompasses a ticket-based help desk system and capabilities for software updates on target devices.

Service Graph Connector for Lansweeper

The application maps assets from Lansweeper with ServiceNow CMDB tables. The application allows users to visualize the assets from the Lansweeper in the CMDB tables. The Service Graph Connector for Lansweeper is based on a flow designer that performs all the necessary calls to Lansweeper, after that obtains a file with all assets, stores it in a flattened way, and uses the integrationHub ETL to transform the data in CMDB tables. To keep the instance updated, there is a Scripted REST API to receive data from webhooks with authorization from Lansweeper and use the existing transformation of the IntegrationHub ETL. To identify and add relationships between assets in CMDB tables as per the data received from Lansweeper.

1.1. Application features

The purpose of Service Graph Connector for Lansweeper is to integrate a ServiceNow customer instance with Lansweeper cloud API. At a high level, the application performs several actions:

1. To authenticate ServiceNow users against Lansweeper in order to decide which Lansweeper sites can be accessed by Service Graph Connector for Lansweeper.
2. To request an export document with all supported asset types for each authorized site, which will be downloaded by the Service Graph Connector for Lansweeper in order to store Lansweeper assets into CMDB tables.
3. To receive updates about assets inserted/deleted/updated in Lansweeper.

Describe the business need that this application solves:

- Some Lansweeper customers have ServiceNow instances but they are missing some of their assets discovered by Lansweeper in those instances. The application wants to synchronize these customer assets to their instance by keeping ServiceNow updated with the data changes provided by Lansweeper.

Customer use cases:

- I want to see all my assets of new asset types discovered in Lansweeper in my ServiceNow instance.
- I want to be able to modify the assets in Lansweeper without requiring a manual update in ServiceNow.
- I want to be able to delete assets in Lansweeper and see the asset in ServiceNow as “retired”.
- I want to connect several Lansweeper sites with all the features described above in my ServiceNow instance.

Compatibility Matrix

ServiceNow Version: Utah , Vancouver and Washington

Lansweeper API Version: 2.0

2. Installation

This section describes how to download and install the Service Graph Connector for the Lansweeper application from the store.

2.1. Pre-Requisites

The user must have access to the Lansweeper Platform.

These are the prerequisites required to install the Service Graph Connector for the Lansweeper application.

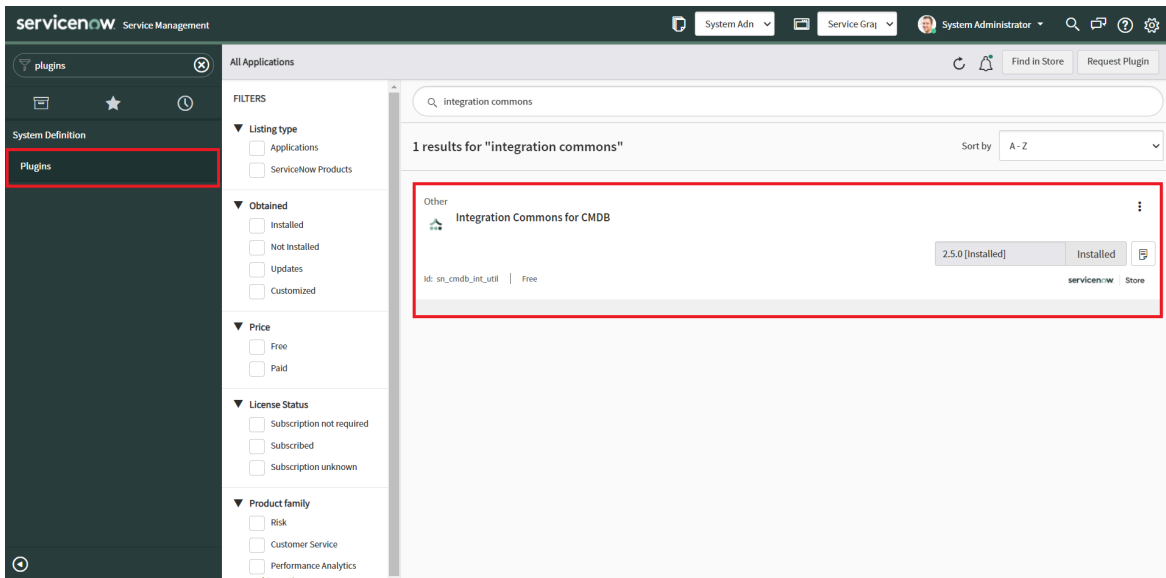
ServiceNow Plugins

These ServiceNow plugins must be activated:

- System Import Sets 1.0.0
- Integration Commons for CMDB 2.12.0
- IntegrationHub ETL 3.2.1
- Robust Transform Engine 1.0.0
- ITOM Discovery License 1.0.0

To install the plugins:

1. Login to your instance with your user credentials.
2. Verify you have the system administrator (admin) role.
3. Navigate to “System Definition” -> “Plugins” in your instance.
4. Search and install the above plugin. Repeat this step for each plugin mentioned above.



2.2. Permissions and Roles

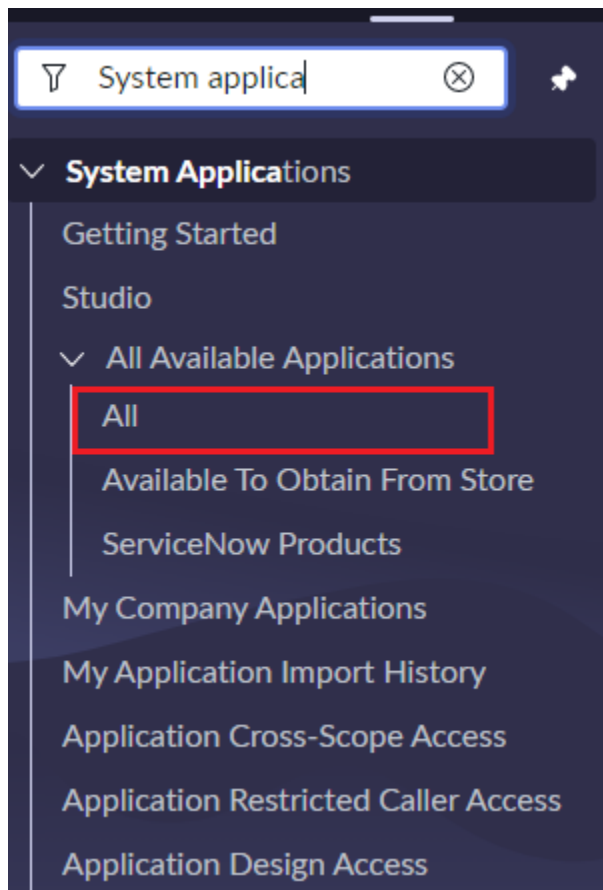
These are the ServiceNow roles and the permissions that are needed to install, configure, and use the features of the application.

| Role | Permissions |
|--|--|
| System administrator (admin) | <ul style="list-style-type: none"> ● Installation of the plugins ● View Application Logs ● Configure Guided Setup of the application ● View Dashboard ● View and be able to do operations on the modules <ul style="list-style-type: none"> ○ Data sources ○ System Import sets ○ Import schedules ● Configure application in IntegrationHub ETL |
| cmdb_import_api_admin | <ul style="list-style-type: none"> ● Role for webhook users to insert the data into the import set table from the received webhooks. |
| x_lans2_service_gr.flatten_assets_user | <ul style="list-style-type: none"> ● Create, read, update, and delete operations on the Flatten Assets Table. |
| x_lans2_service_gr.flatten_memories_user | <ul style="list-style-type: none"> ● Create, read, update, and delete operations on the Flatten Memories Table. |
| x_lans2_service_gr.flatten_networks_user | <ul style="list-style-type: none"> ● Create, read, update, and delete operations on the Flatten Networks Table. |
| x_lans2_service_gr.flatten_logical_disk_user | <ul style="list-style-type: none"> ● Create, read, update, and delete operations on the Flatten Logical Disk Table. |

| | |
|---|--|
| x_lans2_service_gr.flatten_networks_adapters_user | <ul style="list-style-type: none"> • Create, read, update, and delete operations on the Flatten Network Adapters Table. |
| x_lans2_service_gr.flatten_snmp_infos | <ul style="list-style-type: none"> • Create, read, update, and delete operations on the Flatten SNMP Info Table. |
| x_lans2_service_gr.flatten_softwares_user | <ul style="list-style-type: none"> • Create, read, update, and delete operations on the Flatten Softwares Table. |
| x_lans2_service_gr.ls_table_user | <ul style="list-style-type: none"> • Combination of below roles x_lans2_service_gr.flatten_networks_adapters_user, x_lans2_service_gr.flatten_logical_disk_user, x_lans2_service_gr.flatten_memories_user, x_lans2_service_gr.flatten_snmp_infos, x_lans2_service_gr.flatten_networks_user, x_lans2_service_gr.flatten_assets_user x_lans2_service_gr.flatten_softwares_user |

2.3. Application Download and Installation

- Get the Service Graph Connector for Lansweeper Application from the ServiceNow Store by clicking on “Get” and entering your HI credentials.
- Login to the instance on which you want to install the application.
- Navigate to “System Applications” -> “All Available Applications” -> “All”.



- Search for the Service Graph Connector for Lansweeper application, select it, and click on “Install”.
- One progress bar will appear and after some time the application will be installed into your instance.
- Navigate to the application by searching “Service Graph Connector” -> “Lansweeper” in the navigation bar, you will find the following modules:
 - **Setup:** Guided setup which will guide you through the configuration of the application.
 - **Data Sources:** List of data sources used in the application.
 - **Import schedules:** List of Import schedulers used in the application.
 - **System import sets:** List of custom tables in the application.
 - **Application Logs:** List of logs of this application created today.
 - **Support:** Page containing Lansweeper contact information in case any support is required.

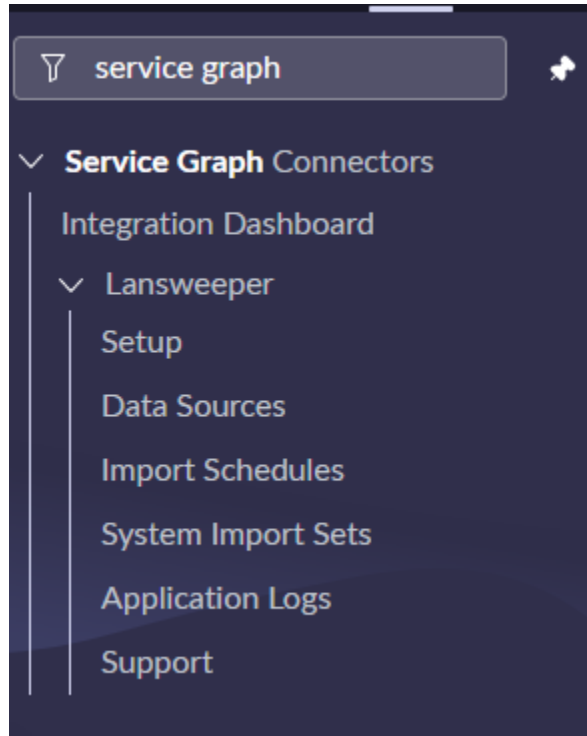
3. Configuration

This section describes how to configure the “Service Graph Connector for Lansweeper” application. To configure this app, the user should have an “admin” role.

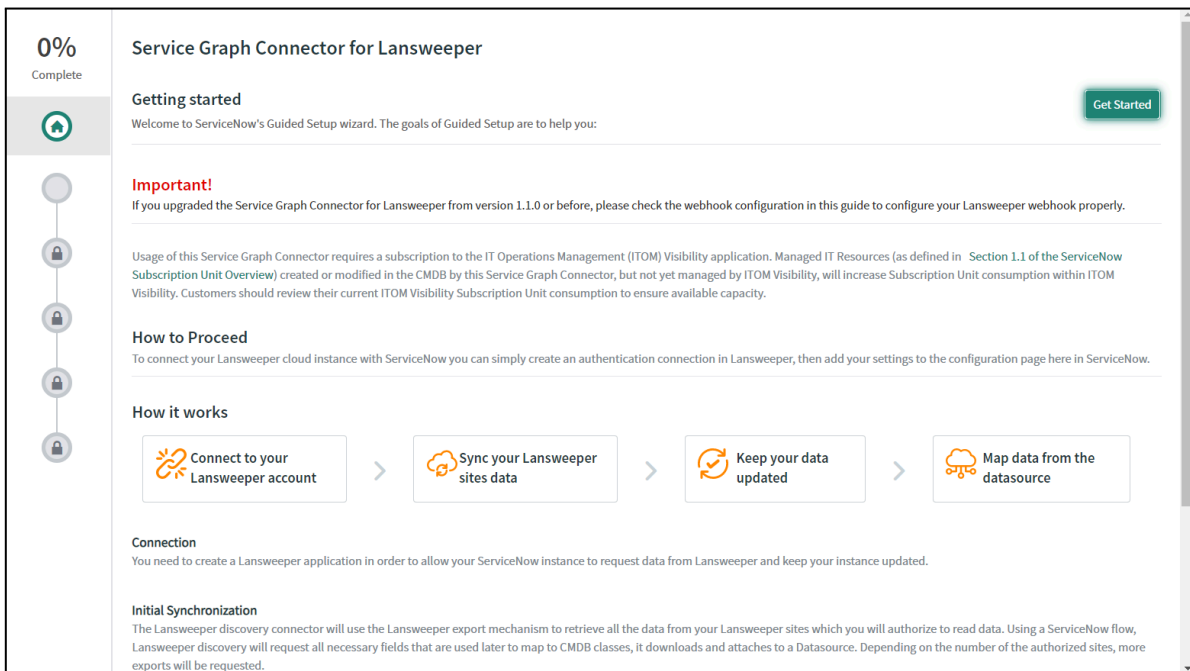
3.1. Guided Setup

The following steps will guide you to configure the application through the guided setup

- Navigate to “Service Graph Connector” -> “Lansweeper” -> “Setup”



- After this you can find the guided setup page.



- Follow the steps mentioned in the guided setup to complete configuration

3.1.1. Credentials and Connections

This step is to configure the ServiceNow instance to support inbound data from Lansweeper.

This step contains 3 tasks:

1. Lansweeper Configuration
2. Configure Credentials
3. Validate lansweeper

3.1.2. Initial Sync Configuration

This step is to configure the schedulers used in the export of the data from the Lansweeper portal to ServiceNow, provide the size limit based on the data on Lansweeper and configure the flow which is used to fetch the data from Lansweeper

This step contains 3 tasks:


1. Activate Schedulers
2. Set JSON file limit size
3. Export Flow

3.1.3. Webhook Config

This step is to configure the user in the ServiceNow Application to establish a connection between ServiceNow and Lansweeper and configure the webhooks with the credentials of a user so that you can get the updates from the Lansweeper to ServiceNow.

This step contains 2 tasks:

1. Create a User
2. Webhook Process



Status: Locked



Preview

Webhook Config

Once you configure the connection between ServiceNow and Lansweeper, the guide will provide the URL to receive updates from your Lansweeper application.

Unlock by completing Configure Credentials, Activate Schedulers, Set JSON file limit size, Export Flow , Lansweeper Configuration

0 / 2 Tasks completed


-  Create User
-  Webhook Process

3.1.4. Asset Type Configuration

After configuring the webhook, you will need to configure the asset types to be fetched from the Lansweeper. Here, the users could configure the properties and type of assets that are desired to be fetched from Lansweeper into respective CMDB tables.

This step contains 3 tasks:

1. Fetch Lansweeper Asset Types
2. Configure Asset Types
3. Configure Lansweeper Asset Properties



Status: Locked

Preview




Asset Type Configuration

Configure the asset types to be fetched with Service Graph Connector for Lansweeper. Here, the users could configure the properties and types of assets that are desired to be fetched from Lansweeper into respective CMDB classes.

Note: The mappings to CMDB classes have to added by the user for any Lansweeper asset properties added apart from the default mapped ones. These mappings can be configured from the "ETL Configuration" step under "Mapping Configuration and Execution" group, which can be accessed upon completion of this group.

Unlock by completing Configure Credentials, Activate Schedulers, Validate Lansweeper, Set JSON file limit size, Webhook Process, Create User, Export Flow, Lansweeper Configuration

0 / 3 Tasks completed

-  Fetch Lansweeper Asset Types
-  Configure Asset Types
-  Configure Lansweeper Asset Properties

3.1.5. Mapping Configuration and Execution

Upon configuring the asset types, users can initiate the Service Graph Connection for Lansweeper to retrieve data and tailor the ETL mapping process. This process involves transforming the data obtained from Lansweeper into the final tables within the ServiceNow CMDB, allowing for customization according to specific requirements.

NOTE : It is not recommended to do any changes in the step.

This step contains 3 tasks:

1. Execute Lansweeper
2. ETL Configuration
3. Activate Scheduler



Status: Locked


Preview

Mapping Configuration and Execution

Here, the user could run the Service Graph Connector for Lansweeper to fetch data from Lansweeper and customize the ETL mapping, which is the process that transforms the data from Lansweeper into ServiceNow CMDB final tables.

Unlock by completing Configure Credentials, Configure Lansweeper Asset Properties, Asset Type Configuration, Fetch Lansweeper Asset Types, Configure Asset Types, Activate Schedulers, Validate Lansweeper, Set JSON file limit size, Webhook Process, Create User, Export Flow, Lansweeper Configuration

0 / 3 Tasks completed

-  Execute Lansweeper
-  ETL Configuration
-  Activate Scheduler

4. Use Cases

This section describes the use-cases to view and manage the “Service Graph Connector for Lansweeper” application on ServiceNow.

4.1. Populating assets from Lansweeper in CMDB tables

Role Required: admin

Description:

After completing the steps mentioned above in the [guided setup](#), various types of Lansweeper assets would be populated in their respective CMDB classes.

Procedure:

1. Login to the ServiceNow instance.
2. Navigate to any of the following CMDB tables in order to view the populated assets fetched from various sites on Lansweeper.

| Asset Type | CMDB Table |
|----------------------------|----------------------------------|
| APC | UPS |
| Chromebook Devices | Computer |
| Citrix Guest | Citrix Collector |
| FTP server | FTP Server |
| Firewall | IP Firewall |
| Hub | Hub Hardware |
| Hyper-V Guest | Hyper-V Virtual Machine Instance |
| IP Gateway | IP Router |
| Intrusion detection system | Intrusion Detection System |
| Linux | Computer / Linux Server |
| Load balancer | Load Balancer |
| Mac | Computer/ “OS/X Server” |
| Mail Server | Email Server |
| Printer | Printer |

| | |
|-----------------------|--------------------------|
| Router | IP Router |
| Switch | IP Switch |
| Unix | Computer/ Unix Server |
| UPS | UPS |
| VMware ESXi Server | ESX Server |
| Webserver | Web Server |
| Windows | Computer/ Windows Server |
| Wireless access point | Wireless Access Point |
| xDSL Modem | Modem Hardware |
| xDSL Router | IP Router |

4.2. Integration Dashboard

Role Required: System Administrator (admin)

Description:

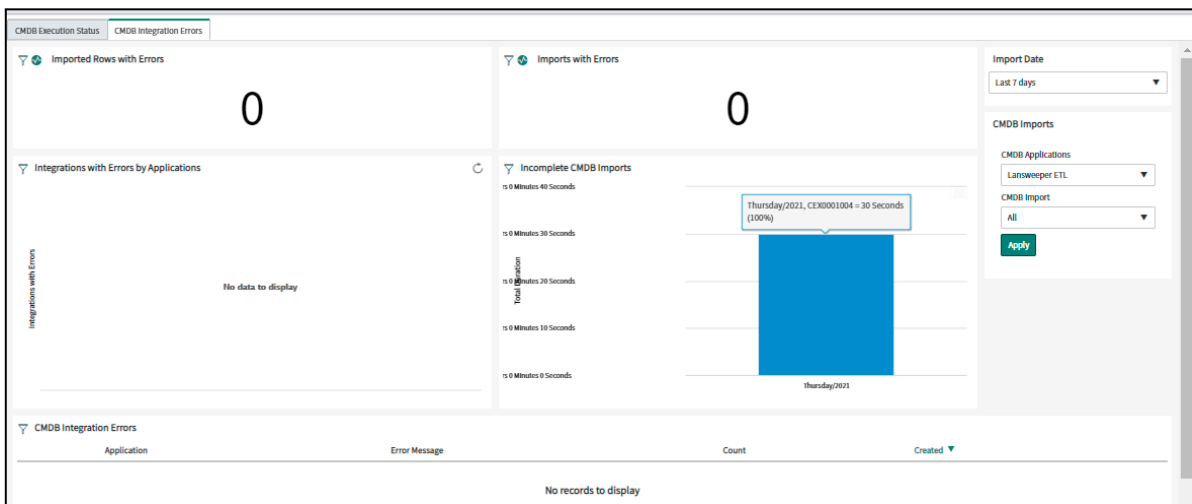
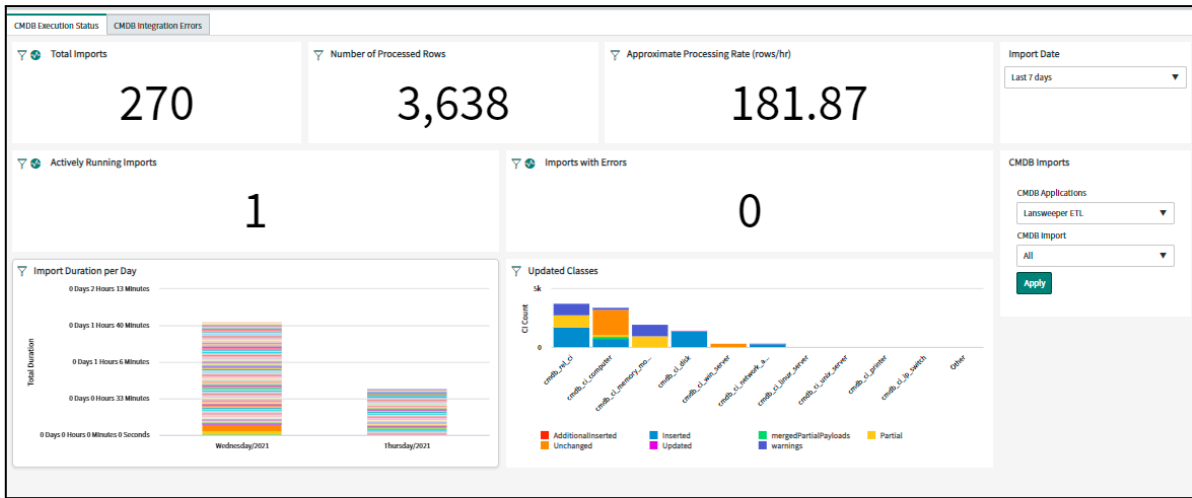
The Dashboard allows the user to easily visualize the data related to the CMDB Execution Status and Integration Errors.

Procedure:

1. Login to the ServiceNow instance.
2. Navigate to "Service Graph Connector" -> "Integration Dashboard".
3. Set the CMDB Applications filter as "Lansweeper ETL".
4. The description of the panels is listed in the table below:

| Tab | Panel Name | Description |
|-----------------------|---------------------------------------|---|
| CMDB Execution Status | Total Imports | This section shows the count of imports that are fetched from Lansweeper. |
| | Number of Processed Rows | This section shows the sum of the rows that are processed. |
| | Approximate Processing Rate (rows/hr) | This section shows the approximate processing rate of the rows, per hour. |
| | Import Date | This section allows the user to filter the dashboard data with respect to the import date. Available options: All, Today, Yesterday, Last 7 Days, Last 30 Days. |

| | | |
|-------------------------|--|---|
| | Actively Running Imports | This section shows the count of actively running imports. |
| | Imports with Errors | This section shows the count of imports with errors. |
| | CMDB Imports | This section allows the user to filter the dashboard data with respect to the CMDB Applications and their respective CMDB Imports. |
| | Import Duration per Day | This section shows a bar chart of the duration taken by each import with respect to the day of its execution. |
| | Updated Classes | This section shows a bar chart having a bar for each class that is updated. Each bar represents the count of records inserted, unchanged, updated etc. |
| CMDB Integration Errors | Imported Rows with Errors | This section shows the count of rows that are imported with errors. |
| | Imports with Errors | This section shows the count of imports with errors. |
| | Import Date | This section allows the user to filter the dashboard data with respect to the import date. Available options: All, Today, Yesterday, Last 7 Days, Last 30 Days. |
| | Integrations with Errors by Applications | This section shows a bar chart of integrations with errors by applications. |
| | Incomplete CMDB Imports | This section shows a bar chart representing the duration of incomplete CMDB imports with respect to the day of its execution. |
| | CMDB Imports | This section allows the user to filter the dashboard data with respect to the CMDB Applications and their respective CMDB Imports. |
| | CMDB Integration Errors | This section shows the list of records representing CMDB Integration errors. |



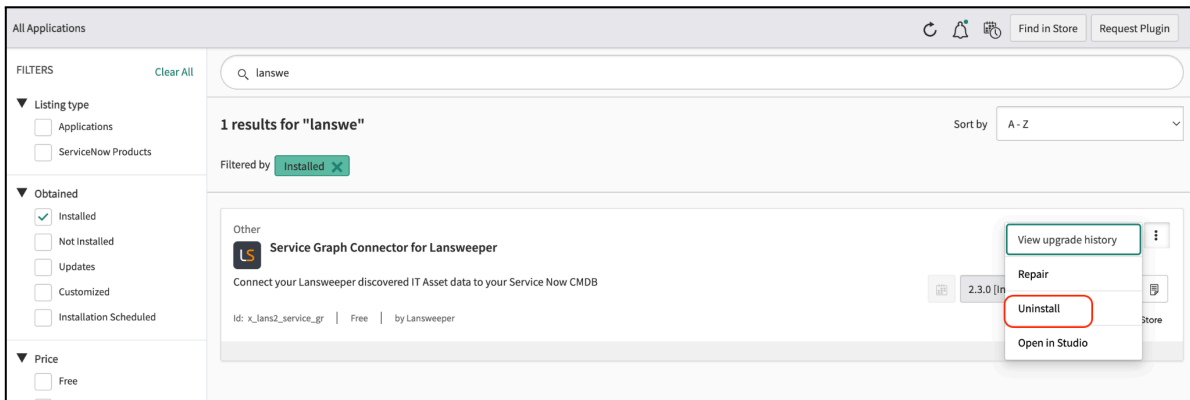
5. Uninstallation

This section describes how to uninstall the Service Graph Connector for the Lansweeper application from a ServiceNow instance.

Role Required: System Administrator (admin)

The following steps will guide you on how to uninstall the Service Graph Connector for Lansweeper App from the ServiceNow UI.

- Navigate to “System Definition” -> “Plugins” -> “Installed”.
- From the list of applications, search and select the “Service Graph Connector for Lansweeper” application.



- Click “Uninstall” to remove the application.

6. Support, Troubleshooting, and Debugging

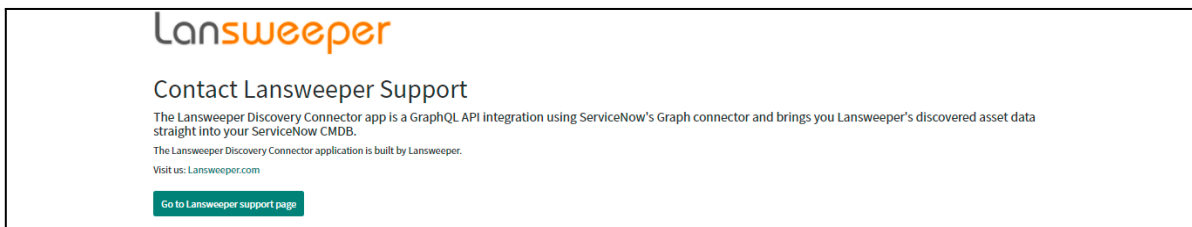
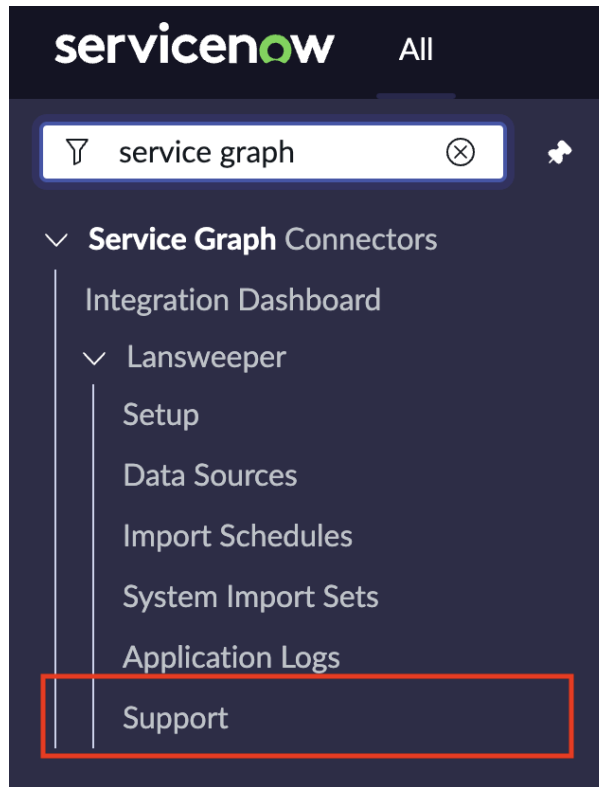
6.1. Support

Role Required: System Administrator (admin)

Support Contact Details:

Lansweeper Portal: <https://www.lansweeper.com/>

Support Portal: <https://www.lansweeper.com/contact-support/>



6.2. Troubleshooting

6.2.1. Application Logs

Role Required: System Administrator (admin)

1. The user can check the application logs from the module "Application logs" under the Lansweeper application whenever he/she experiences any errors.

| Created | Level | Message | App Scope | Source Script |
|---------------------|-------------|--|--|---------------------------------|
| 2022-07-05 02:20:13 | Information | SG-Lansweeper - Deactivating flow: a934029c1bd92450c791975b234bcb8 | Service Graph Connector for Lansweeper | (empty) |
| 2022-07-05 02:20:13 | Information | SG-Lansweeper - Deactivating old flows | Service Graph Connector for Lansweeper | (empty) |
| 2022-07-05 02:20:13 | Information | SG-Lansweeper - Deprecated entity mappings removed | Service Graph Connector for Lansweeper | (empty) |
| 2022-07-05 02:20:13 | Information | SG-Lansweeper - End of flow deactivation | Service Graph Connector for Lansweeper | (empty) |
| 2022-07-05 02:20:13 | Information | SG-Lansweeper - Flows to deactivate: 1 | Service Graph Connector for Lansweeper | (empty) |
| 2022-07-05 02:20:13 | Information | SG-Lansweeper - Remove deprecated entity mappings | Service Graph Connector for Lansweeper | (empty) |
| 2022-07-05 02:52:57 | Warning | [Lansweeper] There are more than 1 assets available having same name. Please find the asset details below: Name: bs01 | Service Graph Connector for Lansweeper | Script Include: FlowExportUtils |

6.2.2. Unable to install Service Graph Connector for Lansweeper application from ServiceNow Store

Problem Statement: Unable to install the application from ServiceNow Store.

1. Verify you have the system administrator (admin) role.
2. Navigate to “System Definition” -> “Plugins” in your instance.
3. Verify the following plugins are in the active state. If not then first [install and activate these plugins](#).
 - a. System Import Sets 1.0.0
 - b. IntegrationHub ETL 2.2.1
 - c. Robust Transform Engine 1.0.0
 - d. ITOM Discovery License 1.0.0
 - e. Integration Commons for CMDB 2.8.0

6.2.3. Unable to find Lansweeper custom roles

Problem Statement: Unable to find Lansweeper custom roles.

1. Login to the ServiceNow instance with System Administrator.
2. Navigate to “System Application” -> “Applications”.
3. Verify the Service Graph Connector for Lansweeper application is installed properly.
4. If any error occurred while installation, then the user should have to reinstall the application.

6.2.4. Unable to create a new user with Lansweeper custom roles

Problem Statement: Unable to create a new user for Service Graph Connector for Lansweeper.

1. Review the following link and execute the steps.
https://docs.servicenow.com/en-US/bundle/utah-platform-administration/page/administer/users-and-groups/task/t_CreateAUser.html

6.2.5. Unable to install/activate plugin in ServiceNow instance

Problem Statement: Unable to install/activate plugin in ServiceNow instance.

1. Review the following link and execute the steps.

https://docs.servicenow.com/bundle/utah-platform-administration/page/administrator/plugins/task/t_ActivateAPlugin.html

6.2.6. Lansweeper Cloud API is unavailable

Problem Statement: Lansweeper Cloud API is unavailable

1. The flow will finish with error, and the initial synchronization using the flow should be restarted manually.

6.2.7. Lansweeper Site is not selected while authorization

Problem Statement: Lansweeper Site is not selected while authorization

1. The flow will not import data and the webhooks system will not receive data.
2. To resolve this please follow the authorization process again and select the respective Lansweeper sites.

6.2.8. Unable to import data from Lansweeper

Problem Statement: Unable to import data from Lansweeper

1. Login to the ServiceNow instance.
2. Navigate to “System properties -> Import Export” and scroll down to the “Import Properties -> JSON format” section.
3. Increase the value for the property “Maximum file size for import (MB)” according to the expected assets to be received. Increase the value by 150 for each 100K assets that you have in your Lansweeper site. For example, a value of 400 for a site of 200K assets (100 default size + 150 first 100K assets + extra 150 next 100K assets).

6.2.9. Some assets do not have all the information in CMDB tables

Problem Statement: Some assets do not have all the information in CMDB tables

1. These assets will be kept in the staging table in order to be imported if all necessary information is received in future.
2. Each row in this table has a value ready to map, which is set to true when it can be transformed into a CMDB element.

6.2.10. After uninstalling the application, some files are not deleted automatically

Problem Statement: After uninstalling the application, some files are not deleted automatically

1. Following might be the files which are not deleted automatically, delete these files manually.
 - a. Table user, user name sg.lansweeper.integration
 - b. Application registry, with name Lansweeper Credential.

6.2.11. Unable to fetch data using webhooks

Problem Statement 1: Unable to fetch data using webhooks.

1. Check the username and password set in the integration user in ServiceNow (sg.lansweeper.integration) and set the value in the webhook created in Lansweeper.

Problem Statement 2: Unable to fetch data using webhooks and getting 403 status code in the Lansweeper portal.

1. In the ServiceNow instance check if the user has all the required roles mentioned below:
 - a. cmdb_import_api_admin
 - b. x_lans2_service_gr.flatten_assets_user
 - c. x_lans2_service_gr.flatten_memories_user
 - d. x_lans2_service_gr.flatten_networks_user
 - e. x_lans2_service_gr.flatten_logical_disk_user
 - f. x_lans2_service_gr.flatten_networks_adapters_user
 - g. x_lans2_service_gr.flatten_snmp_infos
 - h. x_lans2_service_gr.flatten_softwares_user

6.2.12. Data is not being populated while doing “Execute Lansweeper”

Problem Statement: Data is not being populated while doing “Execute Lansweeper”.

1. Check the Executions of the flow “Lansweeper Export Assets v2”
2. If the execution is completed, check the “Application logs” module under Lansweeper.
3. If there is an error message that says “[Lansweeper] Error while saving the incoming attachment received from the API response.”, there can be two possibilities
 - a. The zip extension is not authorized.
 - i. To authorize the extension follow mentioned steps:
 1. Navigate to “sys_properties.list”
 2. Search for “glide.attachment.extensions”
 3. Add the zip extension at the end.
 - b. The attachment size is larger than allowed from the ServiceNow instance.
 - i. To increase the allowed size follow mentioned steps:
 1. Navigate to “sys_properties.list”.
 2. Search for “com.glide.attachment.max_size”.
 3. Increase the value in Megabytes.
4. Run the export again.

6.3. Debugging

- The export process can be debugged with the flow execution, where you can find which step of the flow is being processed in each moment and the runtime value of each variable. Furthermore, the tables Export Status and Site Export details indicate in which step is the execution of each flow.
- The Scripted REST API requests errors should be debugged in Lansweeper UI where you can check if each webhook has been successfully and the data sent. In case it has been received, it should appear in the Flatten staging table.
- Check all schedules have been activated by the customer.
- Check the flow is set as active.

- In case the user is not configuring the authentication method in the right way, they should check the values set in the Lansweeper application, and update the right values in the application registry in concrete:
 - Client ID
 - Client Secret
 - Authorization URL
 - Callback URL, which should match with `https://<instance-name>.service-now.com/oauth_redirect.do`
- In case an export should be restarted manually the last record of the Export Status table should be in state FINISHED or FAILED.
- Other errors should be analyzed using System Logs.

6.4. Failure modes

List of expected failure modes (for example, third-party server down):

- Meanwhile the initial export using the flow is being executed, if the customer decides to remove the permissions in Lansweeper to one of the authorized sites at the beginning, it will fail due to the Service Graph Connector for Lansweeper unable to retrieve the data. The export should be restarted manually from the execution section specified in the setup guide. The customer should validate that the last record of the Export Status table should be in the state FINISHED or FAILED.
- In case the Lansweeper Cloud API is not available the export flow will fail. The export should be restarted manually from the execution section specified in the setup guide. The customer should validate that the last record of the Export Status table should be in the state FINISHED or FAILED.

6.5. Known Issues

- There are some workarounds in the mapping we have applied because of the IRE rules in ServiceNow, workarounds are mentioned as below:

| Asset type | ServiceNow Table | ServiceNow field | Lansweeper field |
|--------------|-------------------------------|-------------------------|------------------|
| Citrix Guest | cmdb_ci_appl_citrix_collector | Version | key |
| FTP Server | cmdb_ci_ftp_server | Running Process Command | key |
| Webserver | cmdb_ci_ftp_server | Running Process Command | key |
| Mail Server | cmdb_ci_ftp_server | Running Process Command | key |

- If there are multiple assets with the same name in Lansweeper, then it could cause data loss in ServiceNow because of IRE rules.

There are application warning logs added if there are multiple assets with the same name. Logs should be added like:

[Lansweeper] There is more than 1 asset available having the same name. Please find the asset details below:

Name: <Asset name>

Asset key: <Asset key>

Note: This warning will only be present from the initial import, not from webhooks

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