



Dynamic Application Builder

Version 1.5.1

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Installing the Dynamic Application Builder

Overview

This manual describes how to create Dynamic Applications locally using the *Dynamic Application Builder* tool.

The Dynamic Application Builder is a tool that provides a creation wizard for Dynamic Applications that use the Snippet Framework libraries.

The Dynamic Application Builder includes the ability to interface with your Skylar One system to create PowerPack-able objects programmatically.

The Dynamic Application Builder is part of the Skylar One Studio suite of tools. For more information, see <https://support.sciencelogic.com/s/skylar-one/skylar-one-studio>.

NOTE: The Dynamic Application Builder works against endpoints with basic auth or no auth, or by adding appropriate headers for OAuth2 and API-key API. OAuth2 token refreshing will be supported in a future version of the Dynamic Application Builder

This chapter covers the following topics:

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Validated Environments

The following Operating Systems have been validated for use with the Dynamic Application Builder. Docker Desktop and Docker CE are no longer required to use the Dynamic Application Builder as of version 1.5.0.

- Windows 10
- Windows 11
- OSX
- Ubuntu WSL
- Ubuntu (Debian-based Distros)

NOTE: Configurations outside of those listed above have not been validated as of this release.

Prerequisites

You must have the following prerequisites to use the Dynamic Application Builder:

- A Skylar One (formerly SL1) system version 12.3.2 or later if you are exporting Dynamic Applications.
- Version 101 or greater of the "Low-code Tools" PowerPack should be installed on the Skylar One system you wish to export Dynamic Applications to, as the Dynamic Application Builder builds Dynamic Applications using this low-code tool. Refer to the [Low-code Tools](#) documentation to make any changes in Skylar One after using the Dynamic Application Builder.
- At least 800 MB of free space on your system.

Installing and Launching the Dynamic Application Builder

To install the Dynamic Application Builder:

1. Download the Dynamic Application Builder .zip file from the [ScienceLogic Support Center](#) to a local computer.

NOTE: If you are upgrading from a previous version of the Dynamic Application Builder, be sure to close the previous version before attempting to install the new version.

Installation or Upgrade Process for Windows

1. Click to run the file marked "DynamicApplicationBuilder-1.5.1-win-x64-signed.exe".
2. The installer will place a file named "Dynamic Application Builder" in the **Applications** menu (Start > Applications > Dynamic Application Builder).
3. If you upgraded from an old version, uninstall the old version of the Dynamic Application Builder from **Programs and Features** (Control Panel > Programs > Programs and Features)
4. Click the "Sciencelogic Dynamic Application Builder" file in the **Applications** menu (Start > Applications > Dynamic Application Builder) to run the application.

Installation or Upgrade Process for OSX

1. Click to run the file marked "DynamicApplicationBuilder-1.5.1-mac-arm64.dmg".
2. In the window that appears, drag the file into the **Applications** folder.
3. If you are upgrading from an older version, click **Replace** in the modal that appears.
4. Open the **Applications** folder and locate the Dynamic Application Builder.
5. Click to open the Dynamic Application Builder.

Installation or Upgrade Process for Linux (Debian-based Distributions)

1. Install libfuse and mariadb helper files on your Linux machine:

```
sudo apt install libfuse2t64
```

2. Create an AppArmor profile with a link to the downloaded Appliance file. Place the following at **/etc/apparmor.d/dynamicapplicationbuilder**:

```
# This profile allows everything and only exists to give the
# application a name instead of having the label "unconfined"
abi <abi/3.0>,
include <tunables/global>

profile dynamicapplicationbuilder /Path/to/DynamicApplicationBuilder-
1.5.0-linux-x86_64.AppImage flags=(default_allow) {
```

```
usersn,  
  
# Site-specific additions and overrides. See local/README for details.  
include if exists <local/dynamicapplicationbuilder>  
  
}
```

NOTE: The AppArmor profile is only a requirement of Debian 13+ / Ubuntu 24+. Earlier versions do not require the profile. Be sure that the path and file name for the Dynamic Application builder are correct.

3. Restart AppArmor:

```
sudo systemctl reload apparmor.service
```

4. Run the following command:

```
chmod +x DynamicApplicationBuilder1.5.0-linux-x86_64.AppImage
```

5. Run the AppImage that you downloaded from the ScienceLogic Support Center using the command below. The Dynamic Application Builder will start and be available to run from the AppImage file.

```
./DynamicApplicationBuilder1.5.0-linux-x86_64.AppImage
```

Installation or Upgrade Process for Linux (Red Hat-based Distributions)

1. Run the following commands to install Fuse and the Dynamic Application Builder. The Dynamic Application Builder will start and be available to run from the AppImage file.

```
sudo dnf install fuse
```

```
chmod +x DynamicApplicationBuilder1.5.0-linux-x64.AppImage
```

```
./DynamicApplicationBuilder1.5.0-linux-x86_64.AppImage
```

Installation or Upgrade Process for Linux without Fuse

If you cannot or do not want to install Fuse, the AppImage can still be used to run the application. In this scenario, run the following commands:

```
chmod +X DynamicApplicationBuilder1.5.0-linux-x86_64.AppImage
```

```
./DynamicApplicationBuilder1.5.0-linux-x86_64.AppImage --appimage-extract
```

```
cd squashfs-root
```

```
./AppRun
```

Removing Previous Versions of the Dynamic Application Builder

To remove the Dynamic Application Builder prior to version 1.5.0, use the following commands:

```
docker container stop silo_da_builder-silo-da-builder-1
```

```
docker container rm silo_da_builder-silo-da-builder-1
```

```
docker network rm silo_da_builder_silo-da-builder-net
```

```
docker image rm silo-da-builder
```

```
docker volume rm pre-commit-cache
```

If you are removing the Dynamic Application Builder from a Windows system, also use the following command:

```
rmdir /s C:\ScienceLogic
```

If you are removing the Dynamic Application Builder from a Mac OSX system, also use the following commands:

```
rm -rf $HOME/.ScienceLogic
```

```
rm -rf $HOME/Applications/ScienceLogic
```

These commands will reset the environment to its original state prior to the Dynamic Application Builder being installed.

If you have any questions or feedback, contact the PowerPack user group in Salesforce as this is a Limited Availability release.

Chapter

1

Using the Dynamic Application Builder

Overview

This manual describes how to create Dynamic Applications locally using the *Dynamic Application Builder* tool.

The Dynamic Application Builder is a tool that provides a creation wizard for Dynamic Applications that use the Snippet Framework libraries.

The Dynamic Application Builder includes the ability to interface with your Skylar One system to create PowerPack-able objects programmatically.

The Dynamic Application Builder is part of the Skylar One Studio suite of tools. For more information, see <https://support.sciencelogic.com/s/skylar-one/skylar-one-studio>.

CAUTION: Use the Dynamic Application Builder tool with caution, as you can overload your Skylar One system with added collections created using the Dynamic Application Builder.

This chapter covers the following topics:

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Using the Dynamic Application Builder

After installing the Dynamic Application Builder, you will go through each step of the wizard to create a credential, create a Dynamic Application, create collection objects, and export the Dynamic Application to Skylar One.

Creating a Credential

After launching the Dynamic Application Builder, it will detect any previously created endpoint credentials saved on your machine. It will give you the option to select those credentials or to create a new credential.

To add a new credential:

1. Select either the **HTTP** or **SSH** tab to define the credential type you want to use.

Creating an HTTP Credential

1. Complete the following fields:
 - **Credential Name.** Enter a way to identify the credential.
 - **Hostname.** Enter the full URL for the API you want to access.
 - **Username.** Enter a valid username for the API you want to access.
 - **Password.** Enter a valid password for the API you want to access.
 - **Connection Timeout (ms).** Enter the maximum time to wait for HTTP connection in milliseconds. The default value is 3000.

NOTE: The **Username** and **Password** fields are not required. You should only populate these fields if authentication is required. Otherwise, leave them blank.

Use a Proxy

Toggle on this field (blue) if you are using a proxy server to communicate with the API you want to access, then enter the values in the fields listed below:

- **Proxy Host or IP Address.** Enter the hostname or the IP address associated with your device.
 - **Proxy User.** Enter the username for the proxy server.
 - **Proxy Port.** Enter the port number for the proxy server.
 - **Proxy Password.** Enter the password for the proxy server.
2. If you want to add a request header to the credential, enter a **Header Key** and **Header Value**. Then click the **[Add Header]** button.
 3. Click the **[Save Credential]** button.
 4. Select the credential that you want to use and click the **[Continue]** button at the bottom of the page.

NOTE: To delete a credential that is no longer needed, click the trash can icon next to the credential you want to delete.

Creating an SSH Credential

1. Complete the following fields:
 - **SSH Credential Name.** Enter a way to identify the credential.
 - **Hostname or IP.** Enter the Hostname or IP address of the device from which you want to retrieve data. This field is required.
 - **Username.** Enter the username for an SSH or user account on the device to be monitored
 - **Password or SSH Key Passphrase.** Enter a valid password for an SSH user account on the device to be monitored.
 - **Port.** Enter the Port number associated with the data you want to retrieve. This field is required.
 - **Connection Timeout (ms).** Enter the maximum time to wait for SSH connection in milliseconds. The default value is 3000.
 - **SSH Key.** Enter the SSH private key that you want Skylar One to use.

NOTE: The **Username** and **Password or SSH Key Passphrase** fields are not required. You should only populate these fields if authentication is required. Otherwise, leave them blank.

2. Click the **[Save Credential]** button.
3. Select the credential that you want to use and click the **[Continue]** button at the bottom of the page.

Creating a Dynamic Application

If you created a Dynamic Application previously, you can select it at the top of the page and make edits, if needed. Otherwise, you will need to create a new Dynamic Application. Enter values and make selections in the prompts that appear:

1. Select the type of Dynamic Application you want to create from the **App Type** field. The available options are *Snippet Configuration*, *Snippet Framework Configuration*, *Snippet Performance*, and *Snippet Framework Performance*.
2. Each of the steps represent a field in the **Dynamic Application Properties Editor**. For explanations of each field, see the *Dynamic Application Properties* section in the **Dynamic Application Development** manual.

Once you have finished, click the **[Add New Dynamic Application]** button, or the **[Update Dynamic Application]** button, if you are editing an existing Dynamic Application. The Dynamic Application is added to the table at the top of the page, to be selected for use. Select the Dynamic Application you want to use and click the **[Continue]** button at the bottom of the page.

Retrieving the Payload

In the next step of the wizard, if you are using an HTTP credential, you can fetch the payload from the API to verify that your API call is correct. If you are using an SSH credential, you can run an SSH Command to fetch a payload.

Retrieving the Payload Using an HTTP Credential

1. Select the type of action to be performed from the *HTTP Method* drop-down field. The options are *GET*, *POST*, *PUT*, *PATCH*, or *DELETE*.
2. Enter an API endpoint in the *URL to API Endpoint* field.
3. Click the **[Fetch Payload]** button. The results of the API call appear below.
4. If you want to manually define your own snippet argument, click the **[Skip to Define Collection Objects]** button. Otherwise, click the **[Continue]** button at the bottom of the page.

Retrieving the Payload Using an SSH Credential

1. Enter a command to run on your device in the *SSH Command* field.
2. Click the **[Run Command]** button. The results will appear below, as well as parsing options.

TIP: If you want more information about choosing a Parser, click the **[Parser Help]** button for a tutorial. For detailed information about JC, click the **[Help]** button under **Choose Parser**.

3. Select a Parser from the *Parsers Available* drop-down field and supply any necessary information in the other fields.
4. Click the **[Test]** button to test the parsing options you selected.
5. If the output is valid JSON, you can click the **[Go to JSON Selector]** button to skip to the JSON selector widget. Otherwise, click the **[Define Collection Objects]** button to continue.

Next, select the values from the response payload that you want to collect.

1. Drag the values you want to collect to the *Selected Values* section on the right side of the page.
2. Click the **[Continue]** button at the bottom of the page.

Creating a Collection Object

In the next step of the wizard, you will select the undefined nodes from the payload to turn into collection objects.

1. Select the node you want to create a collection object for. Alternatively, click the **[Define a New Collection Object]** button to manually create a new collection object.

2. Under **Snippet Argument**, you will see the automatically generated Snippet Argument that will be used. You can make changes, if needed.
 - If you want to change a single value selector to multiple values, click the **[Switch to Multi-Select]** button. You will be asked for confirmation before switching or switching and testing collection.
3. Enter any **Custom Steps** or **Substitutions**, if needed.

NOTE: For more information on custom steps or substitutions, see the *Creating a Custom Step* section in the *Snippet Framework* developer documentation.

4. Click the **[Test Collection]** button to verify that any changes you made to the argument will function. The **Snippet Framework Output** window will appear, where you can view each step of the output to see errors, if they occurred.
5. Each of the other steps represent a field in the **Dynamic Applications | Collections Objects** page. For explanations of each field, see the *Creating a Collection Object* section in the *Dynamic Application Development* manual.

NOTE: Some of the fields and configuration options available on this step of the Dynamic Application Builder may be different, depending on the type of Dynamic Application you are creating. For example, when creating a Snippet Performance or Snippet Framework Performance Dynamic Application, you will see the **Enable Deviation Alerting** checkbox, which allows you to examine the value of an object and trigger an alert if that value falls outside the range of "normal" values for that object at that hour of the day on that day of the week.

6. Click the **[Save Node as Collection Object]** button.
7. The new collection object will appear under the **Defined collection objects** section at the top of the page.
8. Repeat for other undefined nodes as needed and click the **[Continue]** button at the bottom of the page.

NOTE: To delete a collection object that is no longer needed, click the trashcan icon next to the collection object you want to delete.


Exporting to Skylar One

In the final step of the wizard, you will select the Dynamic Application you want to export and define the Skylar One system you want to export to.


1. Select the **Dynamic Application** you want to export.
2. Complete the following fields under **Target Skylar One**:
 - **Verify Skylar One Instance SSL Certificate.** Toggle on (blue) to allow the SSL certificate of the Skylar One instance to be verified during the export. If the verification fails, you will be prompted to either cancel the export or retry without certificate verification.
 - **Enable Export API Logging.** Toggle on (blue) to allow API logging when the Dynamic Application is exported to Skylar One. The **Logging Level** drop-down field appears.
 - **Logging Level.** Select the log level for the current export from this field. The options are *TRACE*, *DEBUG*, *INFO*, *WARNING*, *ERROR*, or *CRITICAL*.
 - **Hostname/IP of Skylar One Instance.** Enter the IP address or Hostname of the Skylar One instance you want to export to.
 - **Skylar One Username.** Enter the username of an administrator account with API access.
 - **Skylar One Password.** Enter the password for the administrator account with API access.
3. Click the **[Export to Skylar One]** button.
4. Click the **[Return To Start]** button to go back to step 1 of the builder

Configuring and Viewing Logs

You can configure API logging from the **Logs and Log Settings** page of the Dynamic Application Builder. To configure log settings:

1. Click on the **Logs** icon () from the left navigation menu of the Dynamic Application Builder user interface. The **Logs and Log Settings** page appears.
2. Toggle on (blue) the **Enable API Logging** option.
3. Select the log level for the Dynamic Application Builder from the **Logging Level** field. The options are *TRACE*, *DEBUG*, *INFO*, *WARNING*, *ERROR*, or *CRITICAL*.
4. Click the **[Update Settings]** button.

Viewing Application Logs

You can view application logs from the last 30 days on the **Logs and Log Settings** page. To download a specific log, click the **Download** button () next to the log you want to review.

Testing Your Dynamic Application

The Dynamic Application Builder creates Dynamic Applications using the Snippet Framework. For more information, see the following documentation for editing, testing, and troubleshooting your Dynamic Applications once they have been exported to Skylar One:

[How to Build Dynamic Applications with the Snippet Framework](#)

Troubleshooting

Listed below are known issues you might encounter when using the Dynamic Application Builder, along with workarounds, if available:

- If the payload you attempt to fetch is too large, you may have difficulty rendering the entire payload on the **Select Collection Objects** screen. This could cause the page to load slowly, or some rows farther down the page not to load at all. The exact size of payload that causes this problem is currently unknown, but a fix for this issue is planned for a future release of the Dynamic Application Builder.
- You can create credentials and Dynamic Applications with the same name, but if the duplicate name is selected from the auto-complete box, an error will occur, preventing you from creating the object. If you need to create an object with the same name as another, do not use auto-complete to set the name. Type the name in to avoid this error.

- If you are on Skylar One version 12.1.0, you will see the following traceback, which is a known Snippet Framework issue:

```
PermissionError: [Errno 13] Permission denied: '/tmp/collection_
metrics.log'
```

```
90. During handling of the above exception, another exception
occurred:
```

```
91. Traceback (most recent call last):
```

```
92. File "/opt/em7/lib/python3/silo_logs/silo_logging.py", line 163,
in configure
```

```
93. _configure(*vargs, **kwargs)
```

```
94. File "/opt/em7/lib/python3/silo_logs/silo_logging.py", line 255,
in _configure
```

```
95. configure_logging(configs, **kwargs)
```

```
96. File "/opt/em7/lib/python3/silo_logs/silo_logging.py", line 267,
in configure_logging
```

```
97. logging.config.dictConfig(config)
```

```
98. File "/usr/lib64/python3.6/logging/config.py", line 802, in
dictConfig
```

```
99. dictConfigClass(config).configure()
```

```
100. File "/usr/lib64/python3.6/logging/config.py", line 573, in
configure
```

```
101. '%r: %s' % (name, e)
```

```
102. ValueError: Unable to configure handler 'metrics_file_handler_
tmp': [Errno 13] Permission denied: '/tmp/collection_metrics.log'
```

Chapter

1

Using OAuth or API Key Credentialed Endpoints

Overview

This manual describes how to create Dynamic Applications locally using the *Dynamic Application Builder* tool.

CAUTION: Use the Dynamic Application Builder tool with caution, as you can overload your Skylar One system with added collections created using the Dynamic Application Builder.

This chapter covers the following topics:

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Authenticating to OAuth2 Endpoints

Starting with version 1.5.1, the Dynamic Application Builder supports authentication to endpoints that use an OAuth2 bearer token header (or similar API key headers). There are two ways to obtain and manage the bearer token:

- Use an external tool, such as Postman.
- Use the Dynamic Application Builder by configuring a second credential pointed at the authorization endpoint.

Obtaining a Bearer Token Using an External Tool

Before authenticating using OAuth2 or an API Key, you must obtain a bearer token from the authorization endpoint of your target service. In the steps below, Azure is used as an example, and Postman is used as an example tool. To obtain a bearer token in Postman:

1. In Postman, send a POST request to the `https://login.microsoftonline.com/<subscription_id>/oauth2/token` Azure authorization endpoint.
2. In the response payload, locate the `access_token` field. This value is the bearer token used to authenticate requests to any Azure API endpoint.
3. Add a request header with the key defined as `Authorization` and the value defined as `bearer <access_token>`, where `<access_token>` is the token value from the authorization response.

Bearer tokens expire after a period set by the API service. Typically this expiration period is between one hour and one day. Once the token expires, you must request a new one and update the header value.

Creating a Credential Using the Bearer Token

Once you have configured the bearer token in Postman, you can configure the same credential in the Dynamic Application Builder as long as the token is still valid. Once the credential is configured in the Dynamic Application Builder, you can retrieve payloads directly. To create a credential:

1. Follow the other steps for [creating a credential](#) in the Dynamic Application Builder.
2. Enter `Authorization` in the **Header Key** field under the **Request Headers** section.

3. Enter *bearer <access_token>* in the **Header Value** field, where `<access_token>` is the token value from the authorization response.
4. Click the **[Add Header]** button.
5. Click the **[Save Credential]** button.

You can now fetch OAuth2-authenticated payloads in new or existing Dynamic Applications using this credential.

TIP: When the bearer token expires, and you have obtained a new one, update it on the **[Credential]** tab by replacing only the `<access_token>` part of the value in the **Header Value** field. To edit the existing header, click on the existing value in the list of **Request Headers**, update the value, and click **[Set]**.

Creating and Managing Bearer Tokens in the Dynamic Application Builder

You can obtain and manage bearer tokens entirely within the Dynamic Application Builder, without using Postman or another external tool. If the authorization endpoint is the same as the data endpoint, you can reuse the existing credential. If the API uses a separate login URL, as Azure does, create a second credential specifically for the authorization endpoint. The following example workflow provides instructions for a two-credential approach using Azure as an example, where the token endpoint is different from the management APIs used to retrieve data. To create a second credential:

1. In the Dynamic Application Builder, select an existing Azure login credential.
2. Create a temporary Dynamic Application and navigate to the **[Payload]** tab.
3. On the **Retrieve Payload** step, select *Post* from the **HTTP Method** field.
4. Click the **[Data]** tab.
5. Enter the following payload in the **Request Payload (DATA)** field, where `<CLIENT_SECRET>` and `<CLIENT_ID>` use the correct values from your Azure account:

```
client_secret=<CLIENT_SECRET>&grant_type=client_credentials&resource=https://management.azure.com&client_id=<CLIENT_ID>
```

6. Click **[Fetch Payload]**. The response will contain the bearer token.
7. Copy the token value from the payload response and return to the **Collect Credential** step of the Dynamic Application Builder.
8. Switch the active credential to the Azure Management API credential.
9. Enter *Authorization* in the **Header Key** field under the **Request Headers** section.
10. Enter *bearer <access_token>* in the **Header Value** field, where `<access_token>` is the token value from the payload response.
11. Click the **[Add Header]** button.

12. Click the **[Save Credential]** button.
13. You can now fetch OAuth2-authenticated payloads in new or existing Dynamic Applications using this credential.

Authenticating with API Key Endpoints

Authenticating against API key endpoints follows the same procedure as authenticating with OAuth2 endpoints. The primary difference is that instead of using a bearer token, your API provider supplies a specific header name and key value to include in your requests. API keys typically have longer lifespans than OAuth2 tokens, because the API controls when the key rotates.

To configure access, add the header name and value provided by your API to the Dynamic Application Builder credential. Once saved, those headers are automatically included with all requests made from the **Retrieve Payload** step and the **[Test Collection]** button in the **Define Collection Objects** step.

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