

Using OAuth 2.0 Tokens from the Authentication Server

The Authentication Server enables requesting an OAuth 2.0 token from the server to use as basic authentication. The information in this chapter has been adapted from the “ [Authenticating in OAuth 2.0 with Aras RESTful API](#) ” blog.

Important

The Aras Innovator version 12 and below require different authentication steps. Refer to [Token Authentication using the REST API blog](#) for more information.

From Aras Innovator 14+ versions, OAuth 2.0 tokens are used for token authentication.

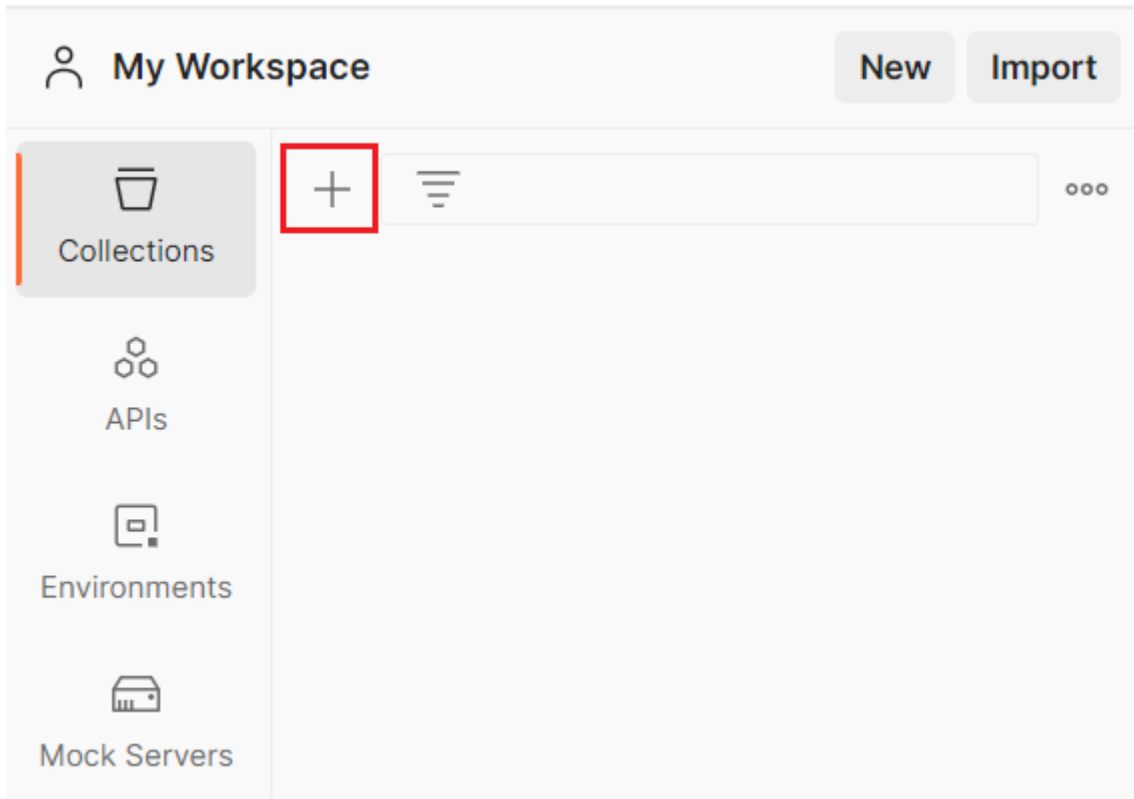
In this document, Postman is used, although the same request can be sent using any API platform.

Getting the Access Token

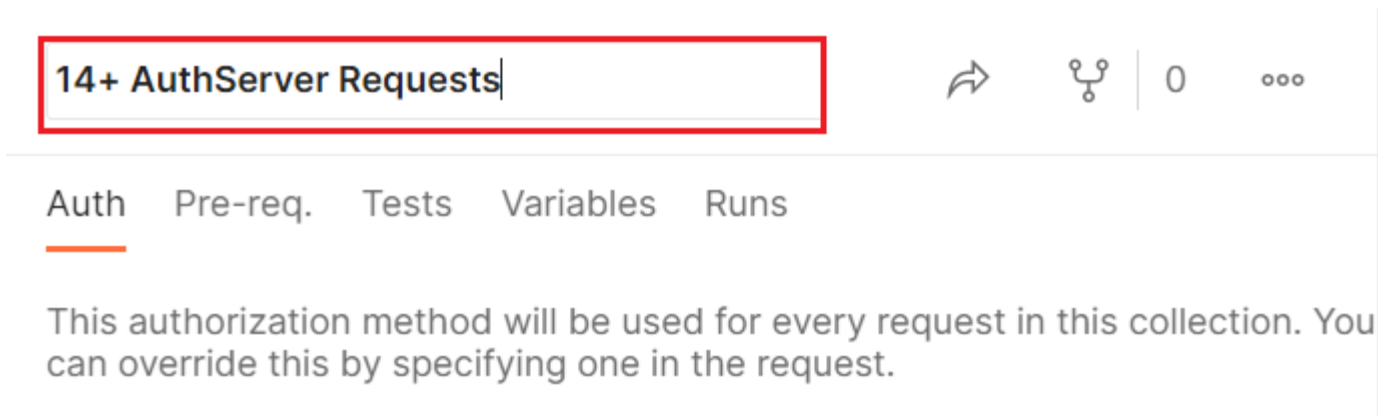
The following steps outline the process of getting the access token:

1. Download the [Postman](#) application on the local machine.
2. Under **My Workspace**, select **Collections** and click **Create New Collection**.





3. Provide a name for the new Workspace—for example, 14+ AuthServer Requests.



4. Select the **Authorization** tab.



14+ AuthServer Requests

Authorization

Pre-request Script

Tests

Variables

Runs

This authorization method will be used for every request in this collection.

5. For the **Type** field, select **OAuth 2.0** from the dropdown.

Type

No Auth

No Auth

API Key

Bearer Token

JWT Bearer

Basic Auth

Digest Auth

OAuth 1.0

OAuth 2.0

Hawk Authentication

This collection does not use any authorization

6. Scroll down to **Configure New Token** section and set the configuration options as follows:



Configure New Token

Configuration Options ● Advanced Options

Token Name	aras
Grant Type	Authorization Code ▼
Callback URL ⓘ	http://localhost/14SP12/Client/OAuth...
	☐ Authorize using browser
Auth URL ⓘ	http://localhost/14SP12/Client/oauth...
Access Token URL ⓘ	http://localhost/14SP12/Client/oauth...
Client ID ⓘ	InnovatorClient ⚠
Client Secret ⓘ	Client Secret
Scope ⓘ	openid Innovator offline_access ...
State ⓘ	State
Client Authentication	Send as Basic Auth header ▼

 Clear cookies ⓘ

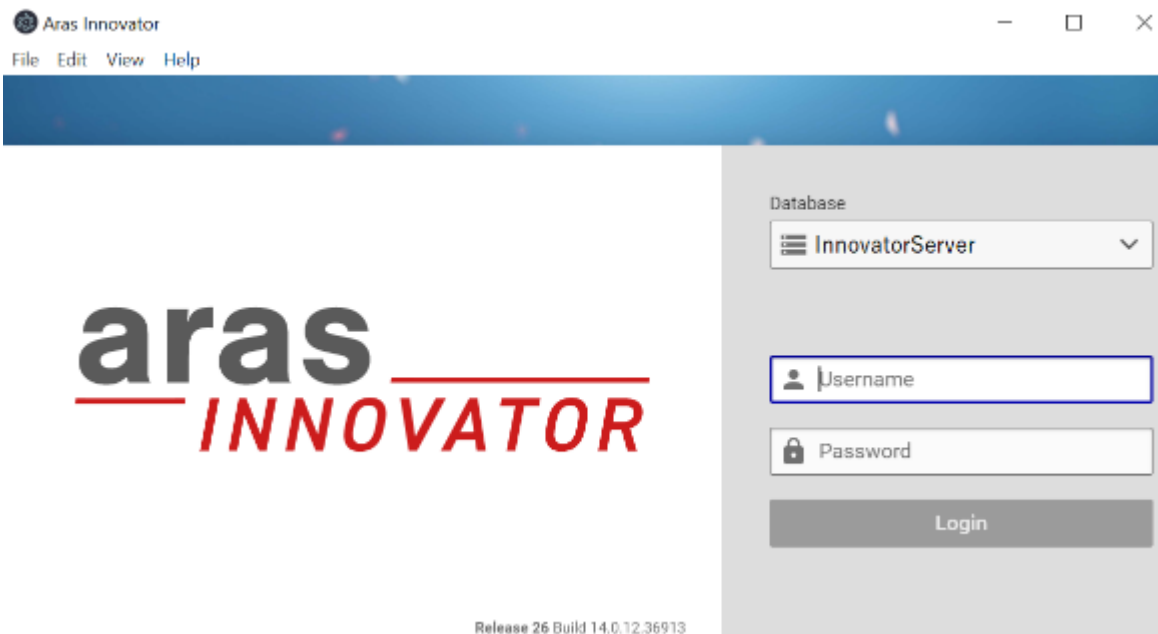
Get New Access Token



Field	Value
Token Name	Name of the Token
Grant Type	Authorization Code (With PKCE)
Callback URL	http:// <servername> / <web alias> /Client/OAuth/PopupCallback
Auth URL	http:// <servername> / <web alias> /oauthserver/connect/authorize
Access Token URL	http:// <servername> / <web alias> /oauthserver/connect/token
Client ID	InnovatorClient
Scope	openid Innovator offline_access

7. Click **Get New Access Token**.

8. Log into the popup Aras Innovator window with your credentials.



9. In the **Get new access token** dialog box, click **Proceed**.

Get new access token



Authentication complete

This dialog box will automatically close in 3...

Proceed

10. In the **Manage Access Token** dialog box, click **Use Token**.

MANAGE ACCESS TOKENS

All TokensDelete

Aras

Aras

Token Details

Token NameAras

Access Token
eyJhbGciOiJSUzI1NiIsImtpZCI6IjZFOU1ODhGQzc0Q0M2QkYzRDk1RDFGQkFERkZCNjRBQ0NFODgxMTZSUzI1NiIsInR5cCI6ImF0K2p3dCIsIng1dCI6ImJwVllqOGRNeHI4OWxkSDdyZi0yU3N6b2dSWSJ9.eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiIsImtpZCI6IjZFOU1ODhGQzc0Q0M2QkYzRDk1RDFGQkFERkZCNjRBQ0NFODgxMTZSUzI1NiIsInR5cCI6ImF0K2p3dCIsIng1dCI6ImJwVllqOGRNeHI4OWxkSDdyZi0yU3N6b2dSWSJ9.eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiIsImtpZCI6IjZFOU1ODhGQzc0Q0M2QkYzRDk1RDFGQkFERkZCNjRBQ0NFODgxMTZSUzI1NiIsInR5cCI6ImF0K2p3dCIsIng1dCI6ImJwVllqOGRNeHI4OWxkSDdyZi0yU3N6b2dSWSJ9.

Use Token

11. Click **Save** to save the changes.



This authorization method will be used for every request in this collection. You can override this by specifying one in tr

Type	OAuth 2.0	▼
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The authorization data will be automatically generated when you send the request. Learn more about [authorization](#) ↗

Add auth data to **Request Headers**

Current Token

This token is only available to you. Sync the token to let collaborators on this request use it.

Token Aras

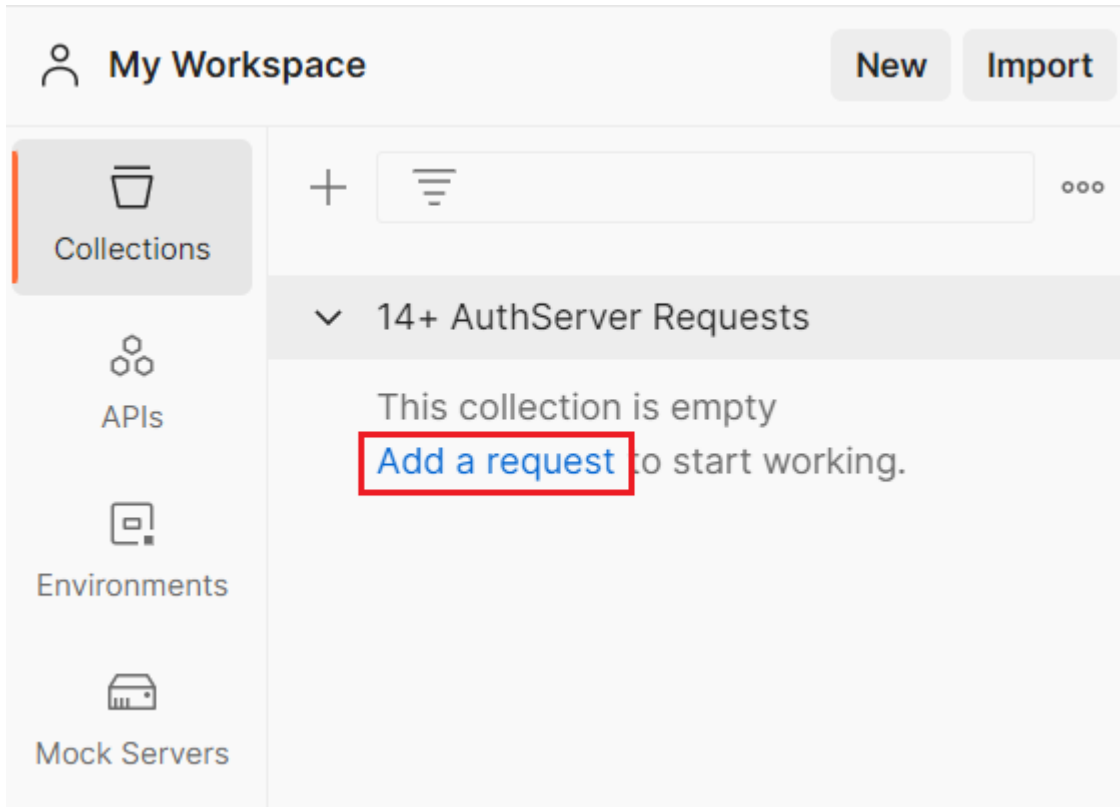
Use Token Type Access token

Header Prefix ⓘ

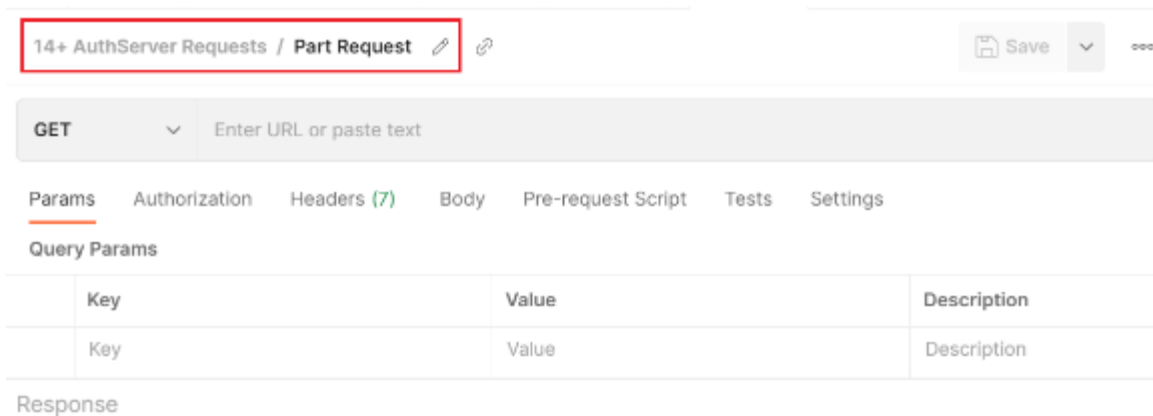
Confirming Token Authentication for Aras Innovator

The following steps outline the process of confirming the Token Authentication:

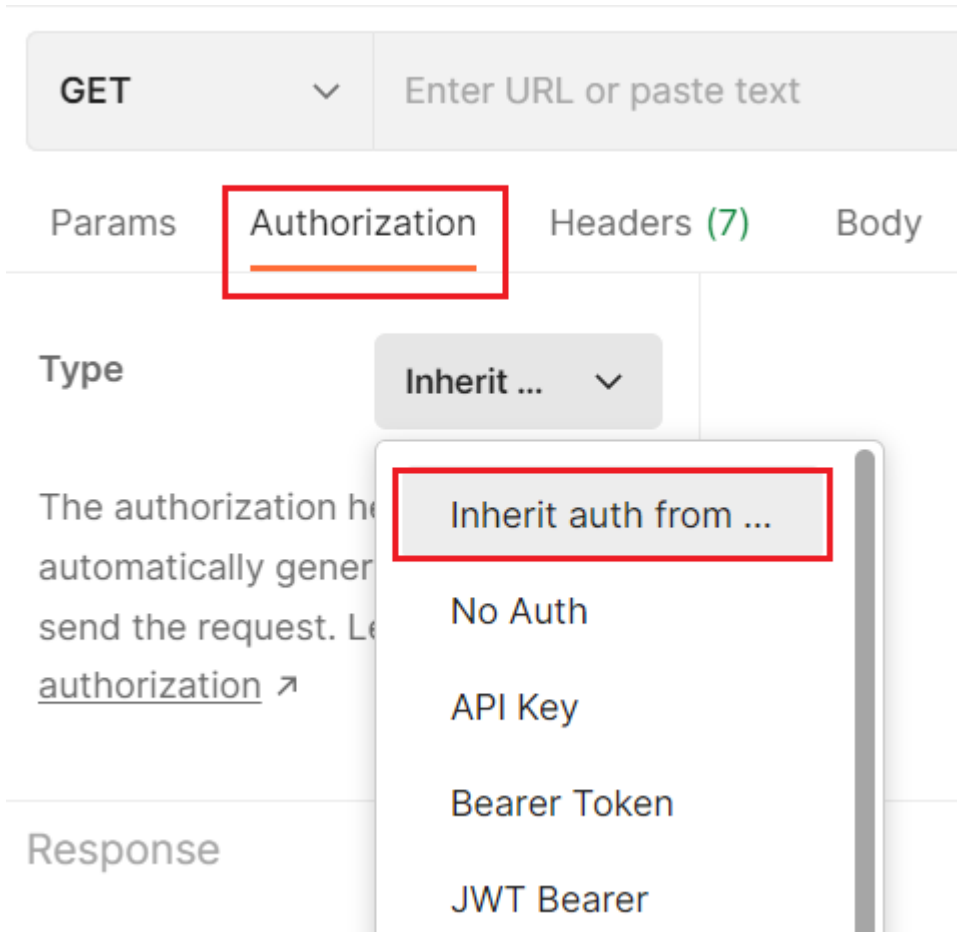
1. On the newly created workspace, click **Add a request**.



2. Enter the name of the request. For example, Part Request.



3. Select the **Authorization** tab and select Inherit auth from parent in the Type drop-down.

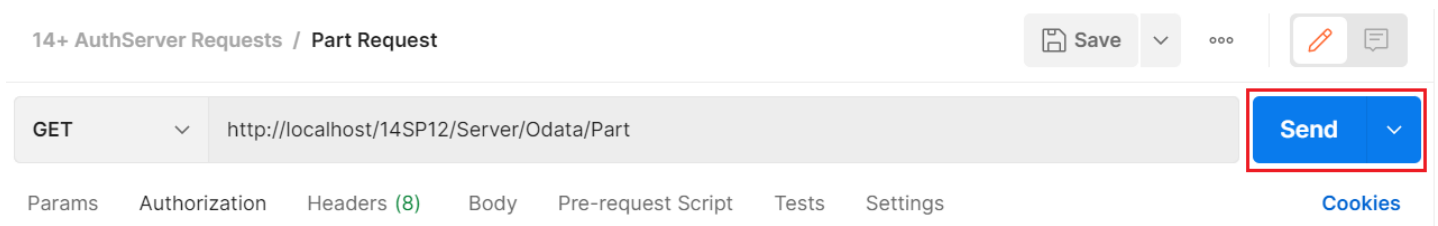


To confirm token authentication, run a simple query to get all the Part data from the Aras Innovator.

4. Select the **GET** request and enter the following request URL.

URL: `http:// <servername> / <web alias> /Server/Odata/Part`

5. Click **Send** to run the request.



The request returns the JSON with all the parts within the database as follows:



14+ AuthServer Requests / Part Request  

GET  http://localhost/14SP12/Server/Odata/Part Send 

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

Body Cookies (1) Headers (14) Test Results  200 OK 164 ms 275.2 KB  Save as Example 

Pretty Raw Preview Visualize JSON  

```
1 {
2   "@odata.context": "http://localhost/14SP12/Server/Odata/$metadata#Part",
3   "value": [
4     {
5       "classification": "Component",
6       "created_on": "2022-03-24T15:54:36",
7       "current_state@aras.name": "Released",
8       "effective_date": "2022-06-15T12:50:56",
9       "generation": 3,
10      "has_change_pending": "0",
11      "id": "1FB2F454E80C421C9919CBC9716CB977",
12      "is_current": "1",
13      "is_released": "1",
14      "keyed_name": "BB-9090",
15      "major_rev": "8",
16      "make_buy": "Buy",
17      "modified_on": "2022-06-15T12:50:56",
18      "name": "Non-Threaded 63mm Bottom Bracket",
19      "new_version": "0",
```

This confirms that the token authentication and Innovator server connection was successful.

