Install and using Postman

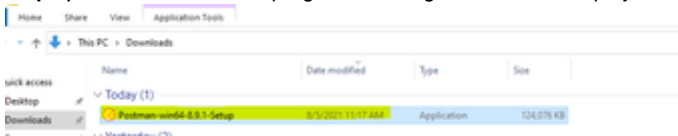## Part 1: Install and using Postman

Postman is a scalable API testing tool that quickly integrates into CI/CD pipeline. API stands for Application Programming Interface which allows software applications to communicate with each other via API calls.

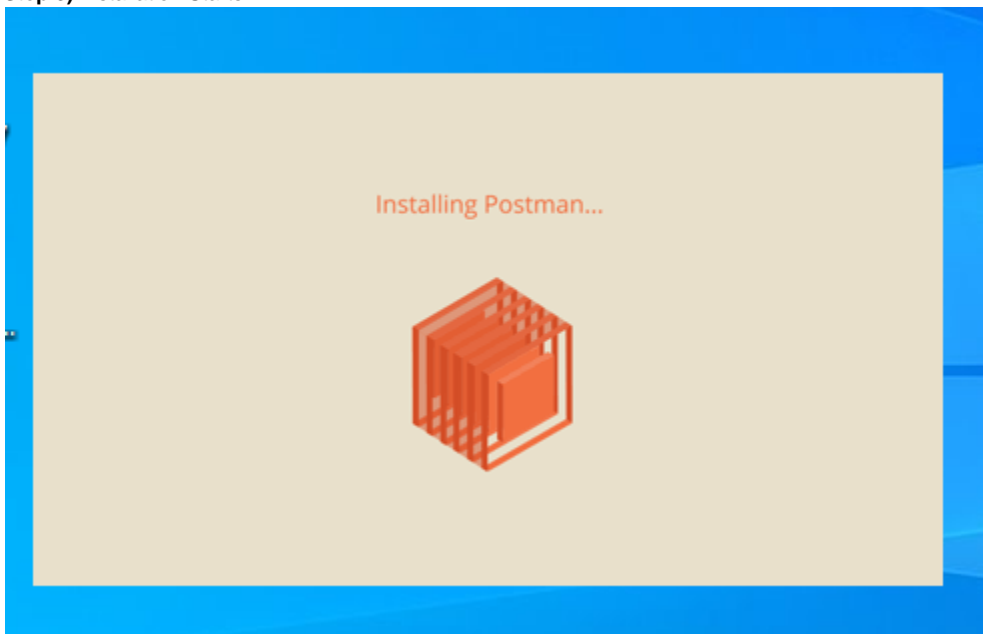### Procedure 1. How to Download and Install POSTMAN

Here are the steps to install:

Step 1) Go to https://www.postman.com/downloads/ and choose your desired platform among Mac, Windows, or Linux. Click Download.

Step 2) Your download is in progress message should now display on the Apps page. Once the Postman download is completed, click on Run.
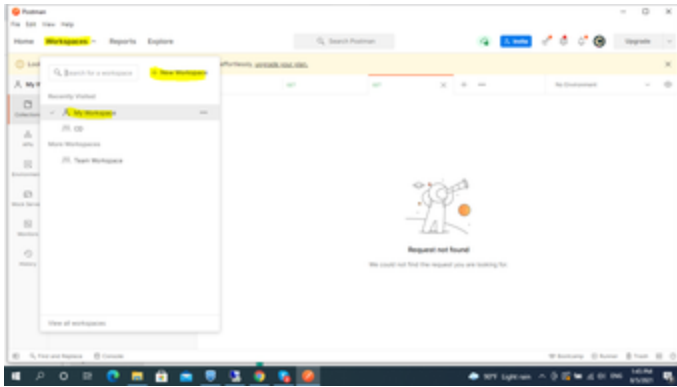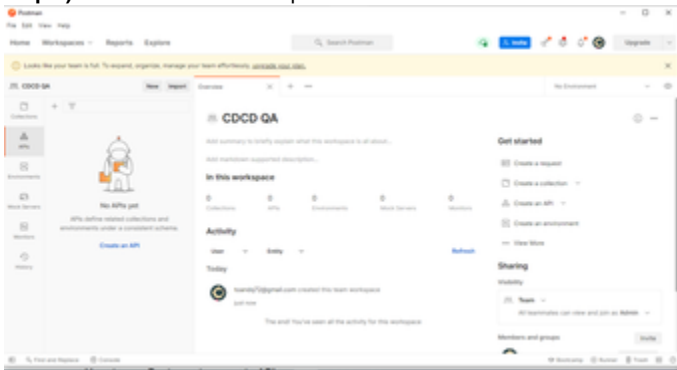

Step 3) Installation Starts

Step 4) In the next window, Signup for a Postman Account

There are two ways to sign up for a Postman account. One is to create an own Postman account, and the other is to use a Google account.

Step 5) Select the workspace tools you need and click Save My Preferences, or New Workspace
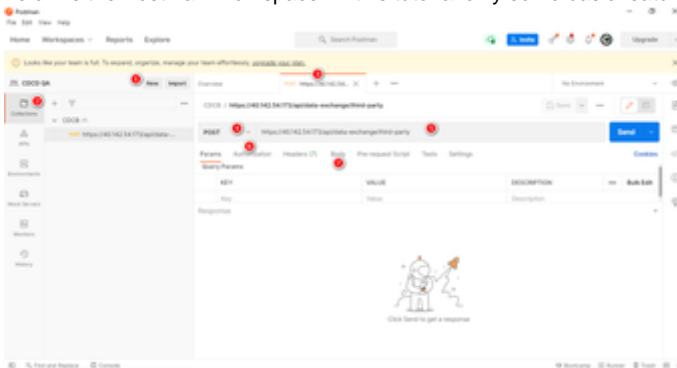
Step 6) You will see the Startup Screen

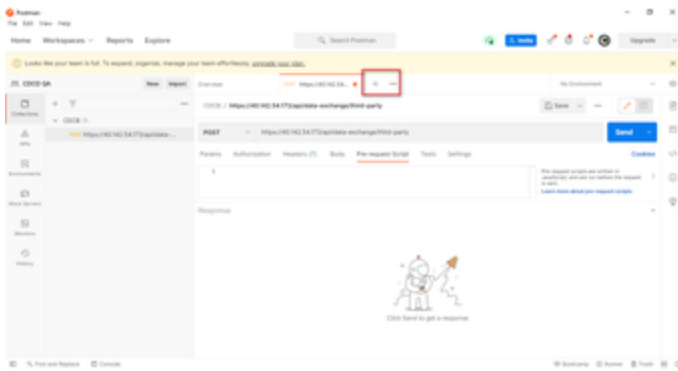**Procedure 2: How to use Postman to execute APIs**

Below is the Postman Workspace. In this tutorial only some basic features of Postman

1. New - This is where you will create a new request, collection, or environment.
2. Collections - Organize your test suite by creating collections. Each collection may have subfolders and multiple requests. A request or folder can also be duplicated as well.
3. Request tab - This displays the title of the request you are working on. By default, "Untitled Request" would be displayed for requests without titles.
4. HTTP Request - Clicking this would display a dropdown list of different requests such as GET, POST, COPY, DELETE, etc. In Postman API testing, the most commonly used requests are GET and POST. **In this tutorial, you just need to choose the POST method**
5. Request URL - Also known as an endpoint, this is where you will identify the link to where the API will communicate with. E.g: https://40.142.54.172/api/data-exchange/third-party
6. Authorization - In order to access APIs, proper authorization is needed. It may be in the form of a username and password, bearer token, etc.
7. Body - This is where one can customize details in a request commonly used in POST requests.

Procedure 3: In this tutorial, just working with POST Requests
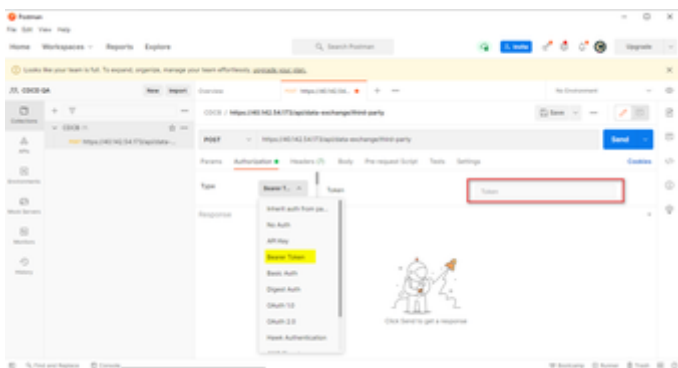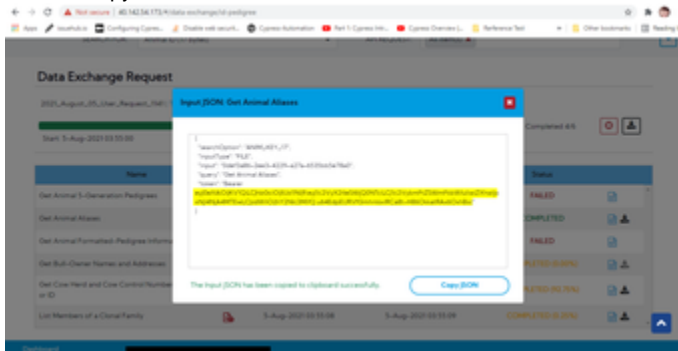
Step 1) Click a new tab to create a new request.

Step 2) In the new tab

1. Set your HTTP request to POST.
2. Input the same link in the Request Url: https://40.142.54.172/api/data-exchange/third-party
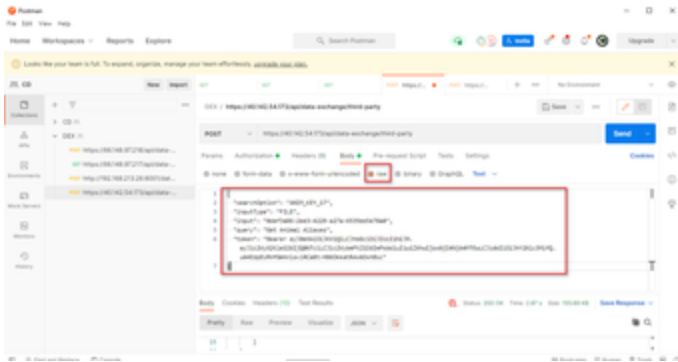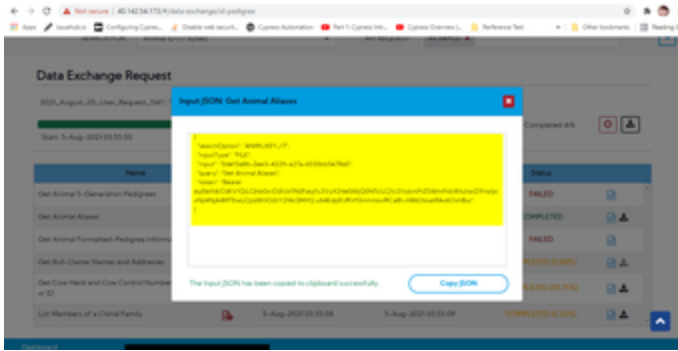3. Switch to the Authorization tab
4. Switch to the Body tab

Step 3) In Authorization

1. Click Type
2. Select Bearer Token
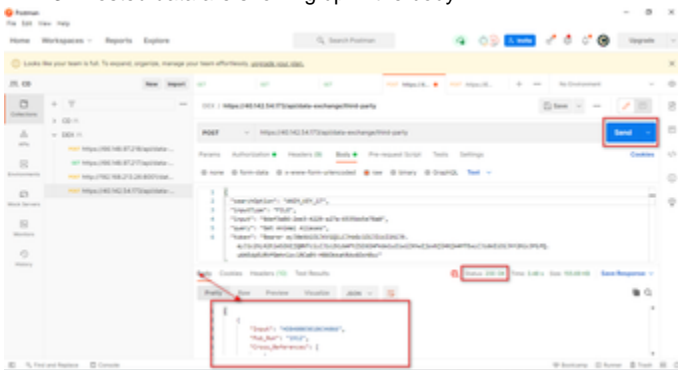3. Copy and Bearer Token into Token textbox

Step 4) Switch to the Body tab

1. Click raw
2. Select JSON
3. Copy and input JSON into the raw textbox

Step 5) Next,

1. Click Send.
2. Status: 200 Created should be displayed
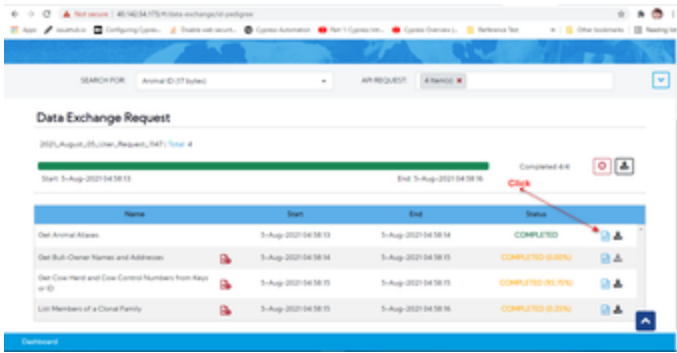3. Posted data are showing up in the body.

Video tutorial:
bandicam 2021-08-05 16-30-43-074.mp4

Part 2: Working with 3rd Parties clients (Postman) of Data Exchange

Procedure 1: Send request and download the output JSON file

*(same the example above "**Procedure 3**", but more general)*

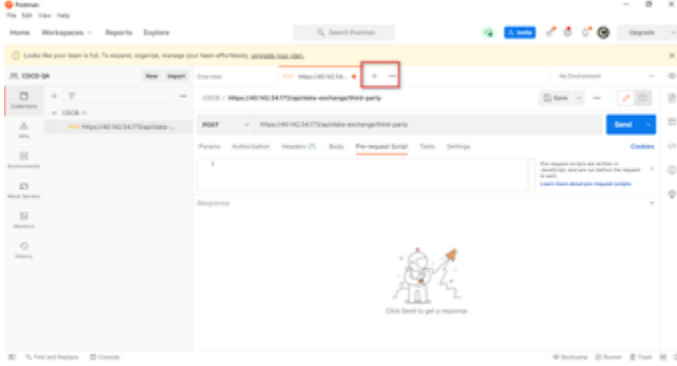**Step 1:** Click on the **JSON Input** icon on the **Results** section

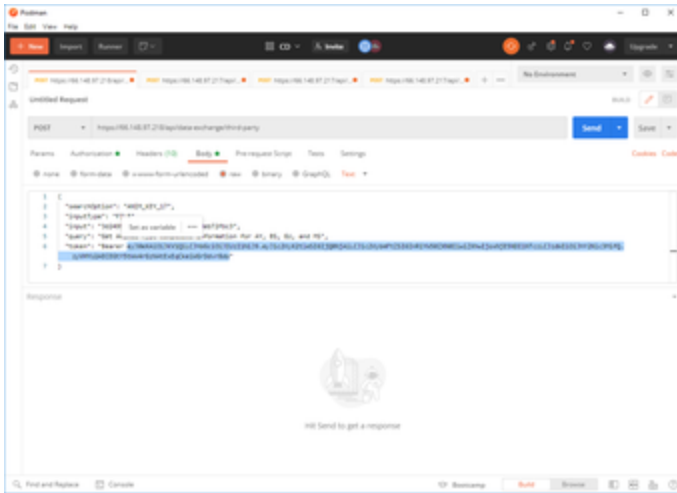**Step 2**: Click the **Copy JSON** button to copy the content to the clipboard

Step 3: Start the 3rd party client (Postman) and create a new request:

- request URL: https://40.142.54.172/api/data-exchange/third-party
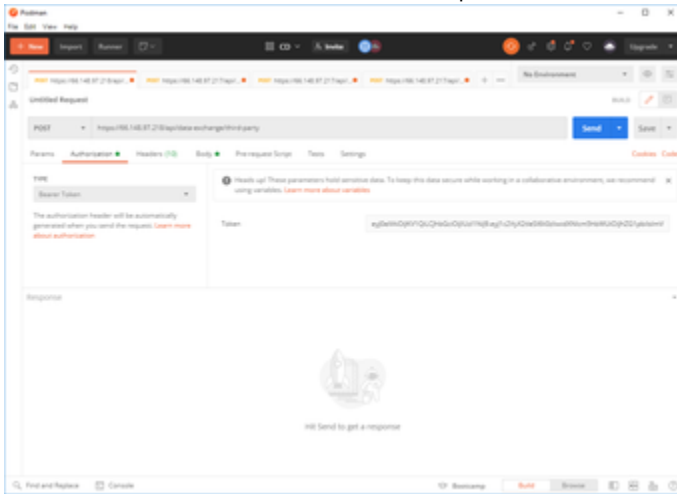- method: POST

Step 4: Input the copied input JSON into the Body of the request
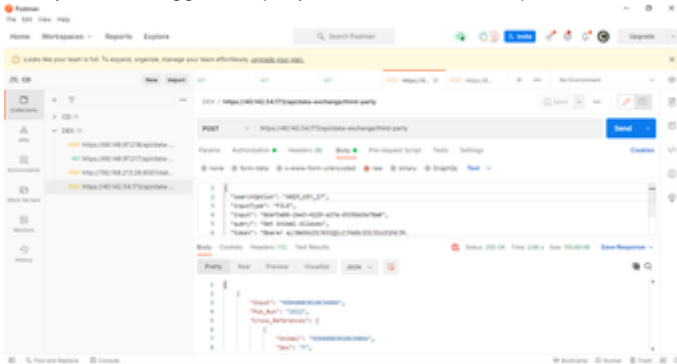
Step 5: ensure the request has the correct authorization setup:

- Type: Bearer Token
- Token: <the same value as the JSON input>

Step 6: Click Send the request

The system will trigger the query to run with selected inputs and the result will be returned

Step 7: Click Save Response > Save to a file on the result section to download the output JSON file. This file will have the same information as the download file web POC of the Data exchange feature.

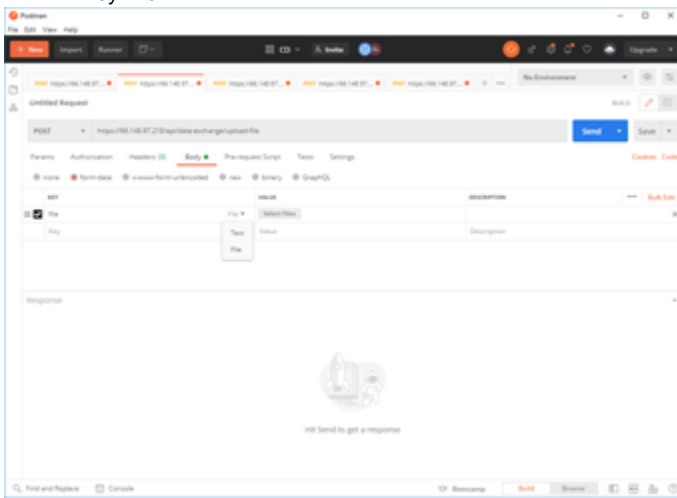**Procedure 2: Uploading new input file through the API and use for new request**

Step 1: Create a new Request:

- request URL: https://40.142.54.172/api/data-exchange/upload-file
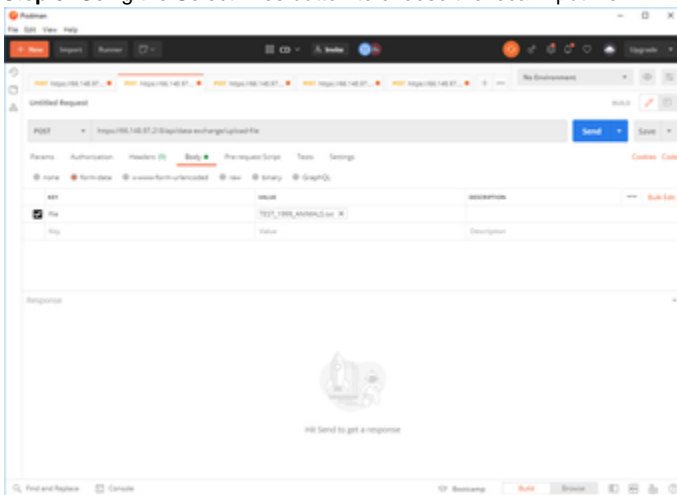- method: POST

Step 2: Input the local input file

On the Body tab select:

- Key: file

Step 3: Using the Select Files button to choose the local input file:
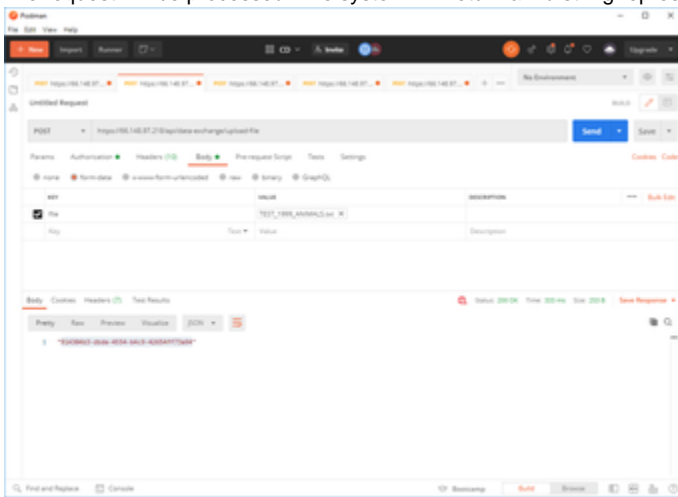

Step 4: Make sure the request has the correct Authorization setup

- Type: Bearer Token
- Token: <the same value as the JSON input>

Step 5: Click Send.

The request will be processed. The system will return an id string representing the input file.

Step 5: Replace the input file-id to send a new request to Data Exchange

When the process is finished the system will return the JSON output file on the body of the request ready to be downloaded.