Powerautomate Example - Poll For Change then Email

Thursday, 5 May 2022 2:06 PM

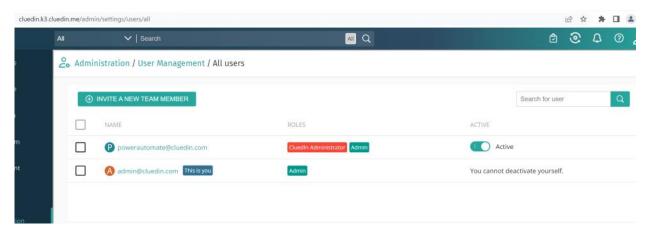
Purpose

Take the graphQL calls worked as observed in CluedIn UI and turn it into powerautomate integration for workflows

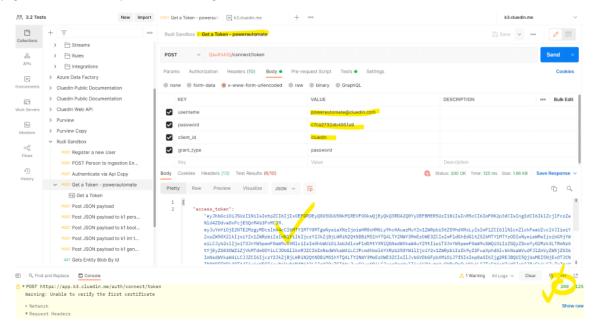
Method

Create the powerautomate@cluedin.com user as a service account

Let's update the user to admin level so we can make the graphQL calls with it's token

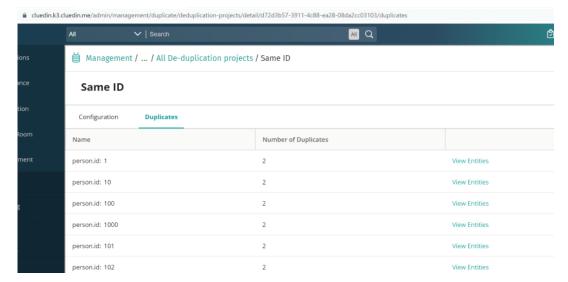


Try a get token call based on the postman collection using the service account

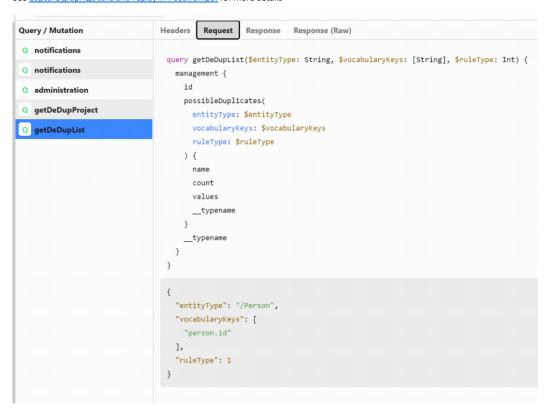


Let's capture the graphQL call for the duplicates

Note: duplicate report was already created

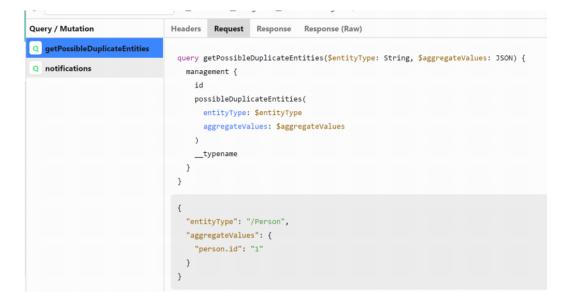


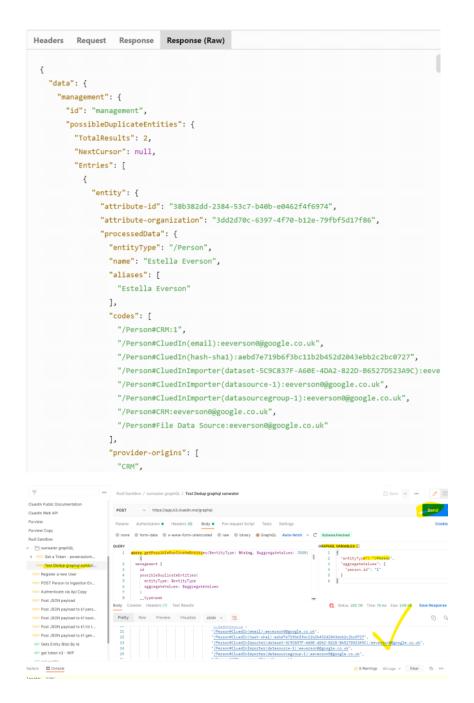
See <u>Capture graphQL calls and replay in Postman.pdf</u> for more details



```
Headers Request Response (Raw)
   "data": {
    "management": {
      "id": "management",
      "possibleDuplicates": [
          "name": "{\"person.id\":\"1\"}",
          "count": 2,
          "values": {
            "person.id": "1"
           "_typename": "PossibleDuplicate"
        },
        {
          "name": "{\"person.id\":\"10\"}",
          "count": 2,
          "values": {
           "person.id": "10"
          " typename": "PossibleDuplicate"
```

View possible duplicate entities SELECT FOR MERGE Created a day ago Last changed a day ago Found a day ago Comb C F Setella Created a day ago Last changed a day ago Last changed a day ago Last changed a day ago Found a day ago Last changed a day ago Found a day ago Found a day ago Found a day ago





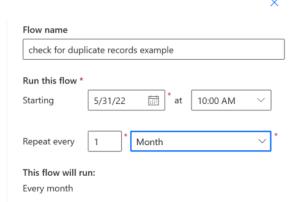
go to powerautomate

create new one flow to poll

Build a scheduled cloud flow



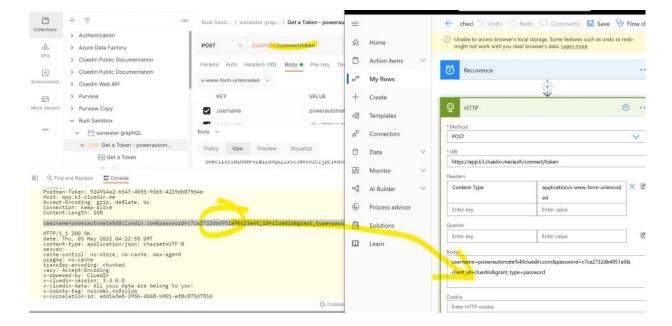
Stay on top of what's important without the effort—you choose



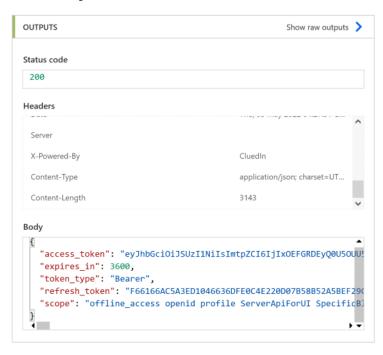
start building the flow

use the /connect/token endpoint to login to CluedIn as a service account

use postman to convert to the name/value pairs to the url post format as shown



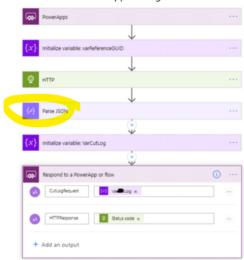
run the flow for the first get token call... success!



how do we refer to these returned json?

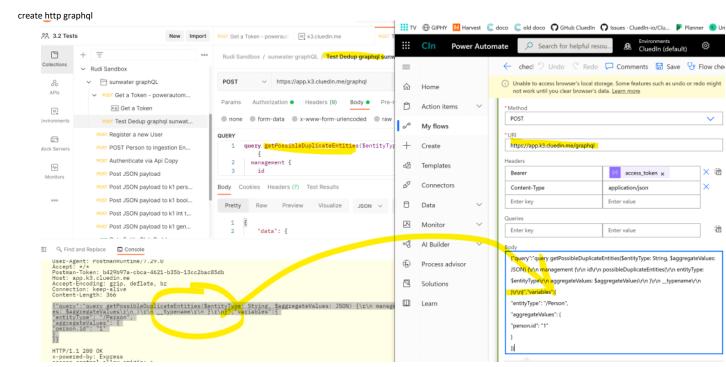
 $\underline{https://powerusers.microsoft.com/t5/Building-Power-Apps/Formatting-a-JSON-response-from-Power-Automate-flow-on-PowerApps/td-p/907563$

3. Send back to Powerapp a string with the JSON text



then we are refer to the parsed json variables in later actions

HTTP - GraphQL - Get Dup List



0s

test - fail

```
INPUTS
                                                                Show raw inputs >
      Method
       POST
      URI
       https://app.k3.cluedin.me/graphql
       Body
          "query": "query getPossibleDuplicateEntities($entityType: String,
          "variables": {
            "entityType": "/Person",
            "aggregateValues": {
              "person.id": "1"
       1, }
       Headers
          "Bearer": "eyJhbGciOiJSUzI1NiIsImtpZCI6IjIxOEFGRDEyQ0U5OUU5NkM1RE
          "Content-Type": "application/json"
{
    "errors": [
    {
   "message": "401: Unauthorized",
       "locations": [
        {
    "line": 4,
           "column": 2
        }
       path": [
         "management"
         "possibleDuplicateEntities"
       "extensions": {
    "code": "UNAUTHENTICATED",
         "response": {
           "url": "http://cluedin-server:9000/api/duplicates/potential-dynamic-duplicates-entities",
```

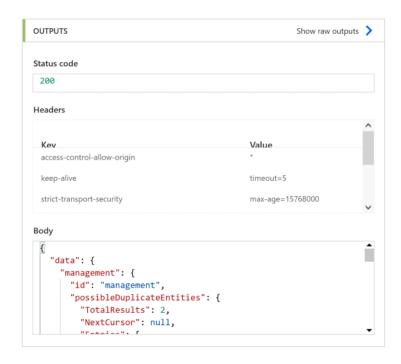
mmmm, re-run then trace through server logs

[06:17:05 ERR] Credentials validated for username: powerautomate@cluedin.com in organization cluedin

mmm, I'm using the wrong auth header format, fixing:



re-test - success!!



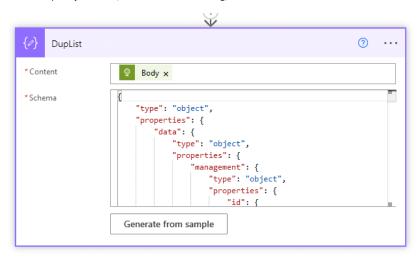
```
"data": {
    "management": {
       "id": "management",
       "possibleDuplicateEntities": {
         "TotalResults": 2,
"NextCursor": null,
          "Entries": [
            "entity": {
    " ++nibute
                   "attribute-id": "38b382dd-2384-53c7-b40b-e0462f4f6974",
"attribute-organization": "3dd2d70c-6397-4f70-b12e-79fbf5d17f86",
                   "processedData": {
    "entityType": "/Person",
    "name": "Estella Everson",
    "aliases": [
                          "Estella Everson"
                      codes": [
                          "/Person#CRM:1",
"/Person#CluedIn(email):eeverson@google.co.uk",
                           "/Person#CluedIn(hash-sha1):aebd7e719b6f3bc11b2b452d2043ebb2c2bc0727",
                         "/Person#CluedInImporter(dataset-5C9C837F-A60E-4DA2-822D-B6527D523A9C):eeverson0@google.co.uk",
"/Person#CluedInImporter(datasource-1):eeverson0@google.co.uk",
                          "/Person#CluedInImporter(datasourcegroup-1):eeverson0@google.co.uk",
"/Person#CRM:eeverson0@google.co.uk",
"/Person#File Data Source:eeverson0@google.co.uk"
                       "provider-origins":[
                          "CRM",
```

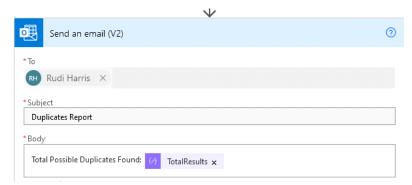
Examples Page 7

```
"CluedIn",
             "CluedInImporter",
"File Data Source"
         "createdDate": "2022-05-03T04:43:50.0000000+00:00",
"modifiedDate": "2022-05-03T04:43:50.0000000+00:00",
"discoveryDate": "2022-05-03T04:43:58.8650047+00:00",
          "properties": {
             "attribute-type": "/Metadata/KeyValue",
             "property-person.city": "Potosí",
"property-person.id": "1",
"property-person.street": "8 Di Loreto Place",
             property-person.street": "& D1 Loreto Place",
"property-user.email": "eeversonO@google.co.uk",
"property-user.firstName": "Estella",
"property-user.gender": "Male",
"property-user.lastName": "Everson"
          "propertyGroups": [
           {
    "name": "Metadata",
    "source": "CluedIn",
    ""    ""    ""
                    "person.street",
                    "person.id",
"person.city'
            },
                 "name": "Metadata",
                 "source": "CluedIn",
                 "keys": [
                    "user.firstName",
"user.lastName",
"user.gender",
                    "user.email"
               ]
            }
         "attribute-origin": "/Person#CRM:1",
"sortDate": "2022-05-03T04:43:50.0000000+00:00",
"timeToLive": "0",
"isShadowEntity": "False",
"dataDescription": {
             "dataClasses": [
                "/Email",
"/Person/FirstName",
                  '/Person/LastName",
                 "/Person/Gender"
            ]
       }
}
  "entity": {
      "attribute-id": "ccae4835-ebaf-5069-b9df-7cd48671e6f1",
      "attribute-organization": "3dd2d70c-6397-4f70-b12e-79fbf5d17f86",
      "processedData": {
   "entityType": "/Person",
         "name": "Estella",
"codes": [
             "/Person#ERP:eeverson0@google.co.uk",
              "/Person#CluedIn(hash-sha1):563618fdd85ed711c0f5d73aa305d074421af404"
        "provider-origins": [
"ERP",
"CluedIn"
        ],
"createdDate": "2022-05-03T04:47:51.0000000+00:00",
"modifiedDate": "2022-05-03T04:47:51.0000000+00:00",
"discoveryDate": "2022-05-03T04:47:51.0000000+00:00",
          "properties": {
             "attribute-type": "/Metadata/KeyValue",
"property-person.city": "Potosí",
"property-person.emailaddress": "eeverson0@google.co.uk",
             "property-person.id": "1",
"property-person.last": "Everson",
"property-person.name": "Estella"
          "propertyGroups": [
            {
               "name": "Metadata",
"source": "CluedIn",
                 "keys": [
                    "person.last",
                     "person.id",
"person.emailaddress",
                     "person.city",
"person.name"
               ]
            }
         "isSensitiveInformation": "False",
"attribute-origin": "/Person#ERP:eeverson@google.co.uk",
         "sortDate": "2022-05-03T04:47:51.0000000+00:00", "timeToLive": "0",
```

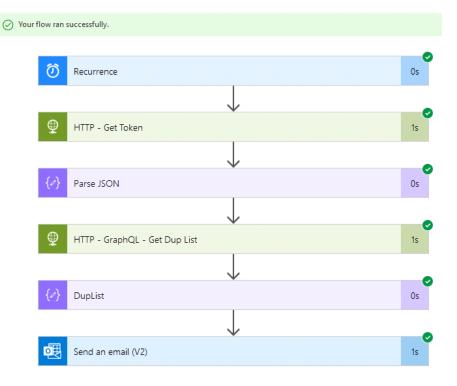
let's try parsing it

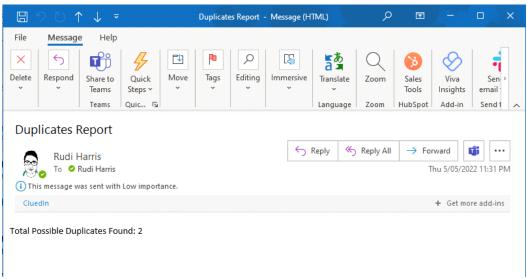
add a new parse json action, format results into a string, email it!





test it





further example

a much better email would be if the JSON was parsed and turned into html for the email output (say by an Azure Function)

