



# Advance Use Power BI:

KIZÉO RECOVERY DATA







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# 1. Introduction

This document aims to:

- 1. Introduce a methodology of Kizeo Data Recovery into Power BI Desktop
- 2. Explain how to set up automatic data recovery from Kizeo in Power BI Service (online) through a gateway (server)

The method explained in this guide is based on the Web Service REST provided by Kizeo that can be called by Power BI to trace the data in JSON format.

### 2. Get an API/REST authentication token from Kizéo

In order to be able to authenticate with Kizeo, it is necessary to already have a Kizeo account. By using a Token linked to this account, the integrality of the data that this account has access to is recoverable.



A major point of attention must therefore be made to the data security because the Power BI file that you create will embed this authentication token in plain text. So, a malicious person who would recover your PBIX file (either directly or by downloading via Power BI service) will have access to all your Kizeo data.

This token will also be recoverable in the online configuration of your gateway. We must therefore be careful not to share the latter.

If you fear that your token could have been recovered by a third party, you will be able to ask the Kizeo teams to revoke it and then generate a new one that will have to be put in your different Power BI requests.







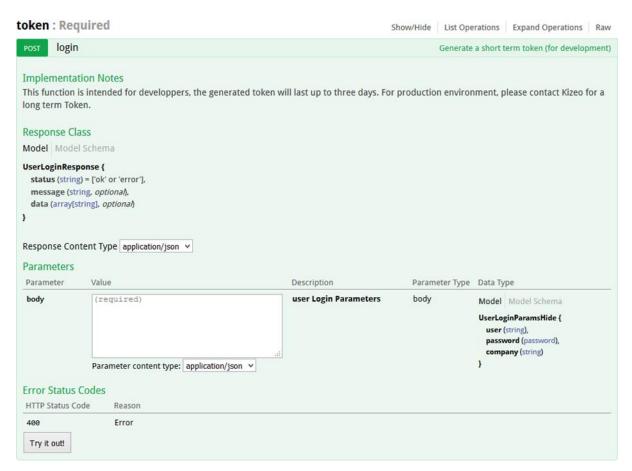
### 2.1 Recovery of temporary token

Kizéo can generate a token available for 3 days. After this time, you will have to generate another.

So, if you want a durable solution you have to use the second method (2.2)

1) Access to the function REST token → login from the documentation Swagger of Kizéo:

https://www.kizeoforms.com/rest/v3/doc/#!/token/login\_post\_0



2) Enter the following code in the body parameter cell, replacing MyLogin, MyPassword, and MyCompanyCodeO with the values from your Kizeo account.

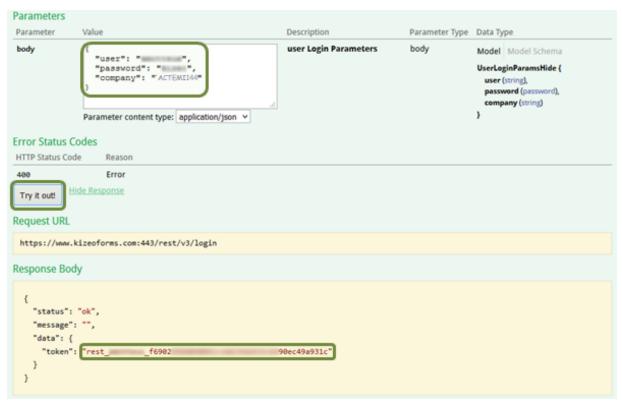
```
"user": "<mark>MyLogin</mark>",
"password": "<u>Password</u>",
"company": "MyKizéoCompany'sCode"
```







3) Click on Try it out!



 Collect the token in the Response Body frame in the form rest\_mylogin\_aKeyOf40hexanumericCharacters

## 2.2 Request for a permanent Token to the Kizeo team

The alternative sustainable solution is to ask the Kizeo team to generate a permanent key. They are fast enough to do it (for me it was done in just a few hours).

To do this, simply request it via the contact form on their website in the "Service Support" section, at the address http://www.kizeo-forms.com/fr/contact/

The Token is generated then is in the form:

perma\_restv3\_mylogin\_ aKeyOf40hexanumericCharacters





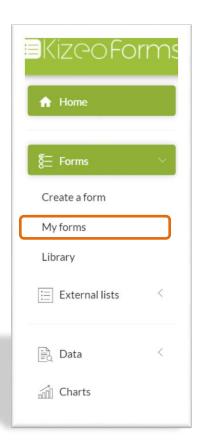


#### 3. Recover data from a Kizeo form under Power BI Desktop

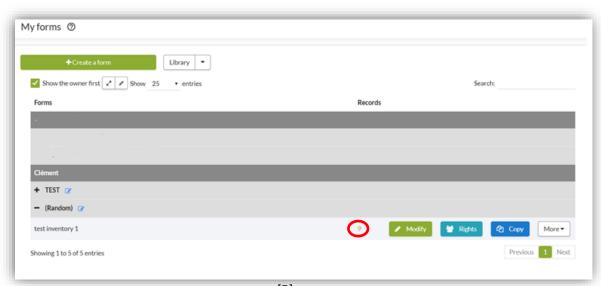
# 3.1 Get the FormId from the Kizeo Form

There are many ways to retrieve this form ID, I suggest one among many:

- 1. Connect with your Login, Password and Kizeo Company: https://www.kizeoforms.com
- 2. Go to Forms → My Forms:



3. On the desired form, click on the number of records (this sends you back to the data history page of this form):







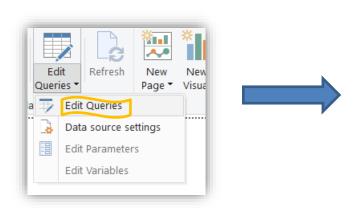


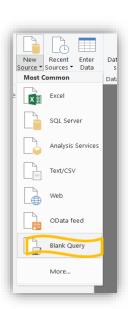
- 4. In the browser URL, theform ID(FormId)is shown just after "form-id":
  - https://www.kizeoforms.com/history.php?lang=en&form\_id 519360

### 3.2 Recover Kizeo Form Data under Power BI Desktop

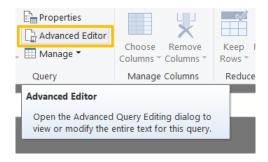
Now it's time to open Power BI Desktop and then:

1. Open the query editor and then create an empty query:





2. Open the Advanced Publisher



3. In the query window, paste the following code by replacing the gray elements with the previously recovered *FormId* and *Token:* 







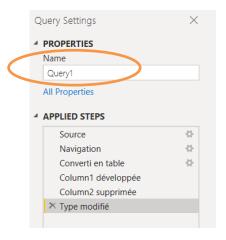
```
Source =
Json.Document (Web.Contents ("https://www.kizeoforms.com/rest/v3/forms/519360/data/readnew?Autho
rization=perma_restv3_mylogin_AKeyOf40HexanumericCharacters")),
      data = Source[data],
#"Converti en table" = Table.FromList(data, Splitter.SplitByNothing(), null, null,
ExtraValues.List).
      #"Column1 développée" = Table.ExpandRecordColumn(#"Converti en table", "Column1", {"id",
"record_number", "form_id", "user_id", "create_time", "update_time", "update_user_id", "update_answer_time", "direction", "recipient_id", "history", "form_unique_id", "origin_answer", "answer_time", "user_name", "last_name", "first_name", "phone", "email",
"login", "update_user_name", "recipient_name", "fields"},{"ID", "Numéro d'enregistrement", "form_id", "Utilisateur_ID", "Date de création", "Date de modification", "Modificateur_id",
"Mise à jour de la réponse", "Direction", "Destinataire_ID", "Historique", "ID unique dans le formulaire", "Origine", "Date de la réponse", "Utilisateur", "Nom", "Prénom", "Téléphone",
"Email", "Login", "Modificateur", "Nom du destinataire", "Champs"}),
      #"Column2 supprimée" = Table.RemoveColumns(#"Column1 développée",{"Column2"}),
#"Type modifié" = Table.TransformColumnTypes(#"Column2 supprimée",{{"ID", Int64.Type},
{"Numéro d'enregistrement", Int64.Type}, {"form id", Int64.Type}, {"Utilisateur ID",
Int64.Type), {"Date de création", type datetime}, {"Date de modification", type datetime}, {"Modificateur_id", Int64.Type}, {"Mise à jour de la réponse", type datetime}, {"Direction",
type text), {"Destinataire_ID", Int64.Type}, {"Historique", type text}, {"ID unique dans le
formulaire", Int64.Type}, {"Origine", type text}, {"Date de la réponse", type datetime}, {"Utilisateur", type text}, {"Nom", type text}, {"Prénom", type text}, {"Téléphone", type
text}, {"Email", type text}, {"Login", type text}, {"Modificateur", type text}, {"Nom du
destinataire", type text}})
                 #"Type modifié"
```

This request recovers the entire records of the identification form marked as unread and you have access to depending on how your account is linked to Kizeo groups.

By default, all records are unread. To mark them as read (and therefore not download them by this method, it is possible to use the "Markarian" function. This could be appropriate if the amount of registration of the form was significant and unnecessary in your analyses or if you download these records in an intermediary database that stores them all and that you call from Power BI.

The Fields reassembled by this query are the ones that are common to all forms (users, dates, change history,). The following steps explain how to identify the specific fields in your form.

4. Now you can rename the query after your form name:

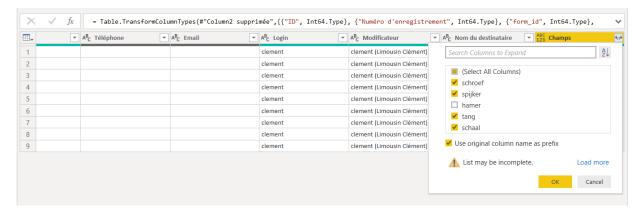








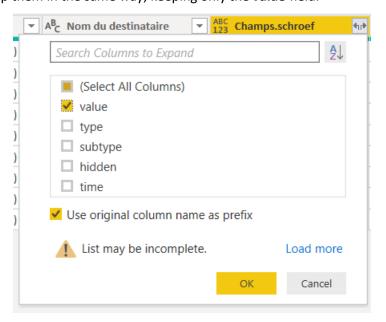
Develop the "Champs" Column, selecting the fields of your form that you want to be able to analyze with Power BI (note that the Kizeo separators also go back...):



All selected fields now appear with the name **Champs.NameOfChamp** and Record type. So, we still have to develop them one by one, as follows.



6. On each field, develop them in the same way, keeping only the *value* field:



7. Once all your fields have been extracted, it is necessary to change the type of data behind each field so that the system can convert them properly (if nothey will remain as text), and rename them with a more appropriate name for your analyses.







# 4. Set up automatic synchronization under Power BI service

#### via a gateway

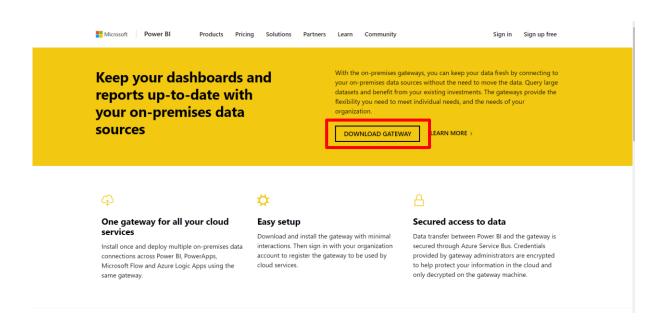
If your dataset is published on the Internet in Power BI Service (https://app.powerbi.com),it is interesting to be able to set up automatic data recovery (without human intervention).

To do this, a proposed method involves setting up an <u>On-premise data gateway (On-premise</u> <u>data</u> gateway) to be installed on a server that will be turned on and connected to the internet at the scheduled hours of automatic refreshment.

If you already have a gateway and you have the option to administer it, then go directly to <a href="the-online gateway setting up to retrieve the Kizeo data.4.2">the online gateway setting up to retrieve the Kizeo data.4.2</a> Setting up the online gateway to retrieve Kizeo data

# 4.1 Downloading, installing and setting up the gateway on the server

1. Go to the <a href="https://powerbi.microsoft.com/fr-fr/gateway">https://powerbi.microsoft.com/fr-fr/gateway</a>page/ and click Download the GATEWAY:



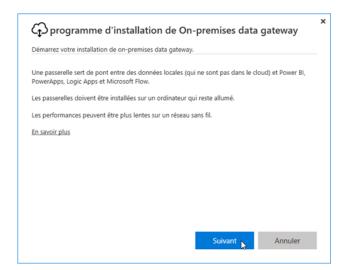




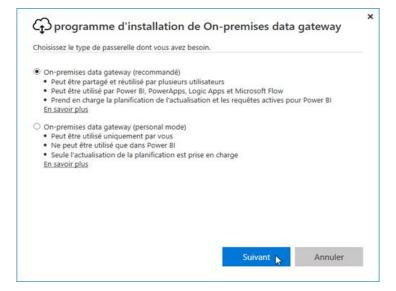


2. Install it by following all the steps of the process.













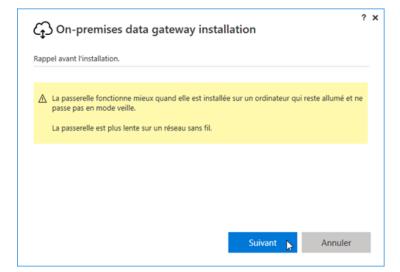


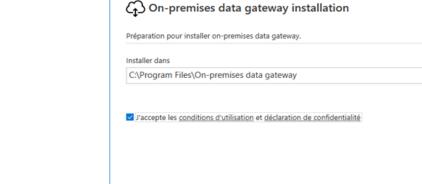


? X

Installer 🗼

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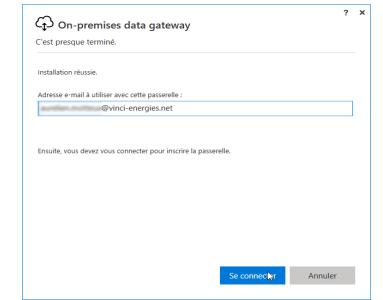






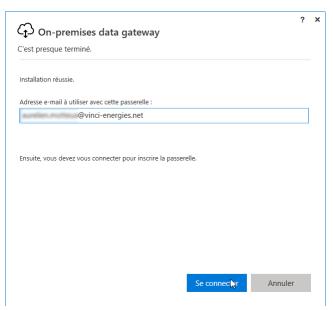






- 3. Restart your PC and then launch the "On-premises data gateway" app from your Start Menu:
  - On-premises data gateway
- 4. Set up with your Power BI account (works with vinci-energies.net or bi-vinci-facilities.com accounts)

then log in with your IDs

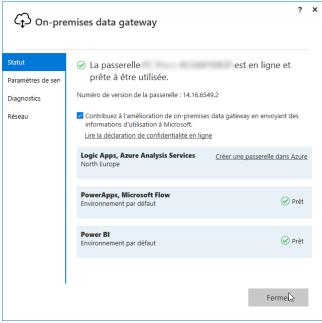












Your gateway is now set up on your server.

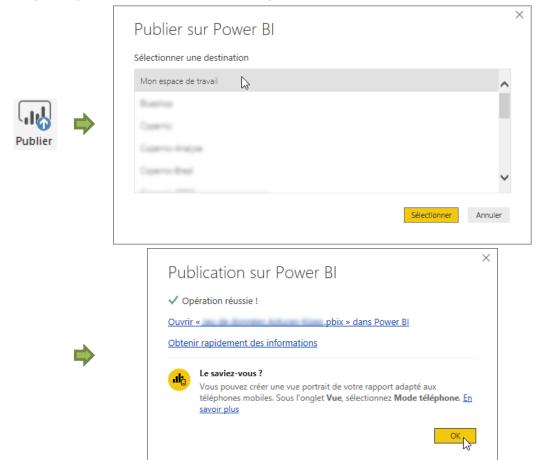






# 4.2 Setting up the online gateway to retrieve Kizeo data

1. Publish your report in a Power BI Service workspace:

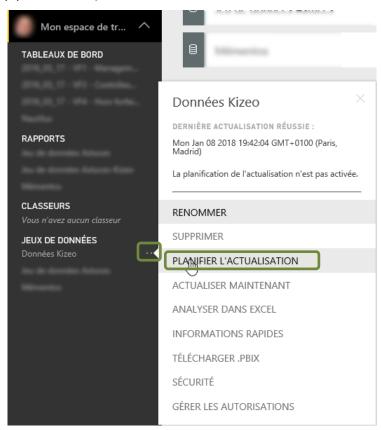




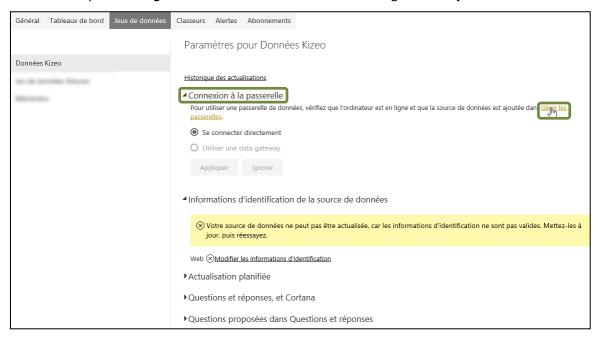




2. Visit the "Plan **TO** Update" section of your dataset on Power BI *Service* (https://app.powerbi.com):



3. Develop the "Bridge Connection" section and click "Manage Gateways":

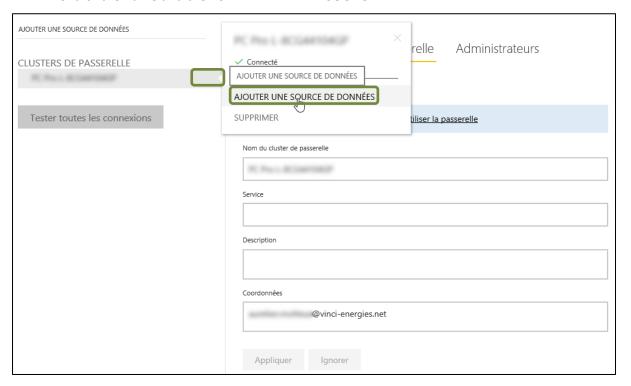




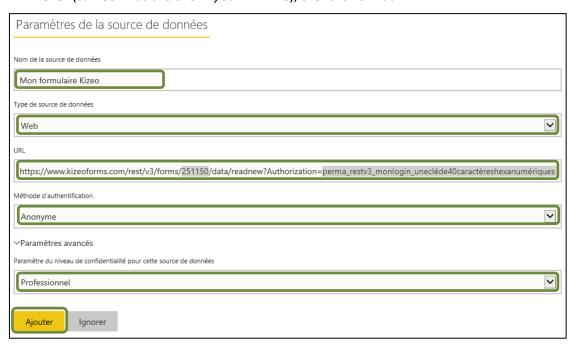




4. You then find the name of the gateway you installed on the server previously. Click " ... at the end of the name and then on " ADD A DATA SOURCE »:



5. Complete with the settings below (customize the name of your source to make it easier to identify) by replacing the grey elements with the previously recovered FormId and **Token**(same URL as the one in your PBIX file), then click on **Add**:

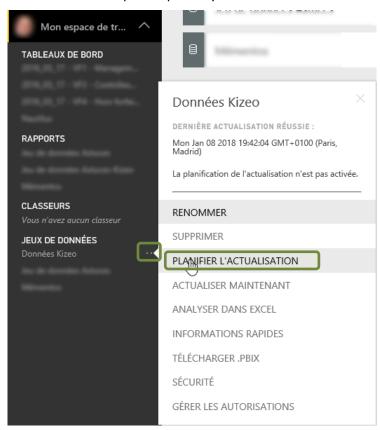




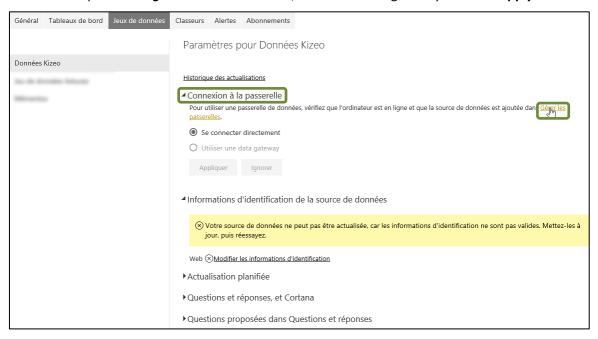




6. Now go back to the "Plan **TO** Update" part of your dataset:



7. Develop the "Bridge Connection" section, then select the gateway and click Apply:









8. Set up refresh planning in the "Planned Update" section if you wish...



9. Now you can force the update to check that the data is correctly synced by clicking "Refresh Now":

