 This site uses cookies for analytics, personalized content and ads. By continuing to browse this site, you agree to this use. [Learn more](#)

Power BI

[Register](#) · [Sign In](#) · [Help](#) · [Go To](#) 

This board



Search all content

[cancel](#)

Microsoft Power BI Community > Forums > Get Help with Power BI > Power Query > Pull data from a REST API Authentication

[Reply](#)

[Topic Options](#) 



surfersamu



Helper II

✓ Pull data from a REST API Authentication

09-05-2017 10:14 AM

I'm trying to pull data from REST API. At the moment I'm facing some difficulties trying to authenticate.

All I have is:

Link:

<https://service4.ultipro.com/services/EmployeePerson>

Authorization Headers:

"Authorization: Basic c29tZXVzZXI6c29tZXBhc3dvcnQ="

"US-Customer-Api-Key: ABCDE"



This site uses cookies for analytics, personalized content and ads. By continuing to browse this site, you agree to this use. [Learn more](#)

Power BI

From Web

Basic

Advanced

URL parts

https://service4.ultipro.com/services/Emplo

Add part

URL preview

https://service4.ultipro.com/services/EmployeePerson

Command timeout in minutes (optional)

HTTP request header parameters (optional)

Authorization

Basic FAKECREDS0U6RzBUUzNhczBu

US-Customer-Api-Key

ABCDE

Add header

OK

Cancel

I get this Error when I click OK:

Details: "The 'Authorization' header is only supported when connecting anonymously. These headers can be used with all authentication types: Accept, Accept-Charset, Accept-Encoding, Accept-Language, Cache-Control, If-Modified-Since, Prefer, Referer"

Solved! [Go to Solution.](#)

Labels: [Need Help](#)







Message 2 of 8 (63,563 Views)



0

[Reply](#)

1 ACCEPTED SOLUTION

 This site uses cookies for analytics, personalized content and ads. By continuing to browse this site, you agree to this use.  **CST** v-qiuyu-msft  **Re: REST API and Authentication**    [Learn more](#)

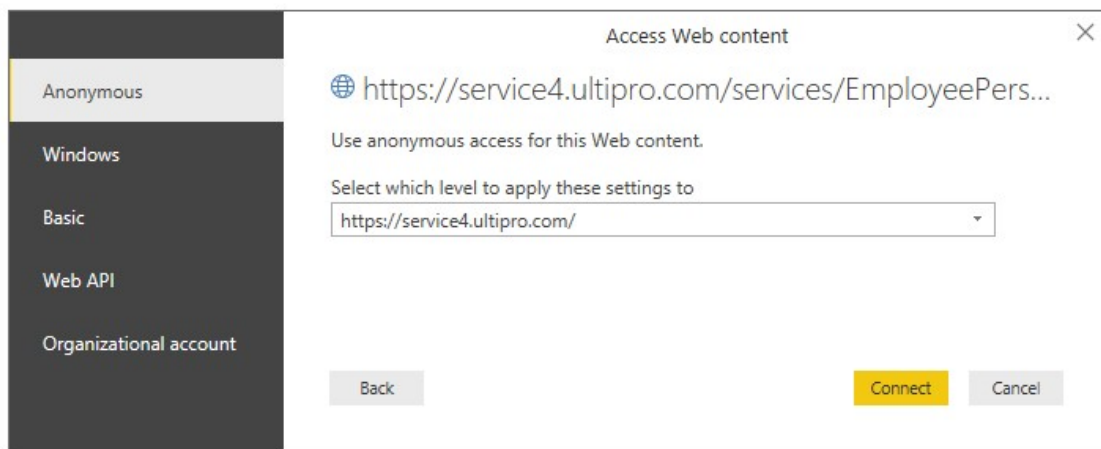
Community Support

09-07-2017 01:40 AM

Power BI

Hi @surfersamu,

I have tested in Power BI desktop using the connection information you provided, there is no error throws out. After you fill the connection information like the image you provided and click OK button, please use Anonymous authentication, as you already provide the authorization key.



You can download the attached pbix file to have a look. By the way, here are some samples of calling API to get data in Power BI:

[Calling REST APIs and Parsing JSON made simple with Power BI](#)

[Get Data from Twitter API with Power Query](#)

Best Regards,

Qiuyun Yu

Community Support Team _ Qiuyun Yu

If this post helps, then please consider *Accept it as the solution* to help the other

[View solution in original post](#)



UtliPro REST API.pbix



This site uses cookies for analytics, personalized content and ads. By continuing to browse this site, you agree to this use. [Learn more](#)

Power BI
Views)

Message 5 of 8 (70,632



3

[Reply](#)

7 REPLIES



surfersamu
Helper II



REST API and Authentication



09-05-2017 07:04 AM

Hi guys,

I am trying to get data from UtliPro REST API. The problem that I'm facing is that I don't know to how to authenticate with http headers.

This is what I have:


Link

<https://service4.ultipro.com/services/EmployeePerson>

HTTP Headers


Authorization:Basic FAKECREDSFUIZJQ0U6RzBUUzNhczBuMjAxNyE=

US-Customer-Api-Key:ABCDE

 This site uses cookies for analytics, personalized content and ads. By continuing to browse this site, you agree to this use. [Learn more](#)


Power BI

☐ Basic ☒ Advanced

URL parts 

URL preview

Command timeout in minutes (optional)

HTTP request header parameters (optional) 

Authorization	Basic FAKECREDS0U6RzBUUzNhczBu
US-Customer-Api-Key	ABCDE

When I try this on the Get Data from Web dialog I get:

"The 'Authorization' header is only supported when connecting anonymously. These headers can be used with all authentication types: Accept, Accept-Charset, Accept-Encoding, Accept-Language, Cache-Control, If-Modified-Since, Prefer, Referer"

This is an example provided by UltiPro using XML:

```
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing"
xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Header>
    <a:Action s:mustUnderstand="1">http://www.ultipro.com/services
/employeeemploymentinformation/IEmployeeEmploymentInformation/GetEmpl...
  </a:Action>
    <UltiProToken xmlns="http://www.ultimatesoftware.com/foundation
/authentication/ultiprotoken">27e17fe3-29cb-48a0-
```



a130-4bad41971dcb</UltiProToken>

This site uses cookies for analytics, personalized content and ads. By continuing to browse this site, you agree to this use. [Learn more](#)

<ClientAccessKey xmlns="http://www.ultimatesoftware.com/foundation
/authentication/clientaccesskey">CAN12</ClientAccessKey>

Power BI

</s:Header>

<s:Body>

<GetEmploymentInformationByEmployeeIdentifier xmlns="http://www.ultipro.com
/services/employeeemploymentinformation">

<employeeIdentifier xmlns:b="http://www.ultipro.com/contracts"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance"
i:type="b:EmployeeNumberIdentifier">

<b:CompanyCode>C0014</b:CompanyCode>

<b:EmployeeNumber>004446049</b:EmployeeNumber>

</employeeIdentifier>

</GetEmploymentInformationByEmployeeIdentifier>

</s:Body>

</s:Envelope>

Message 1 of 8 (63,535

Views)



0

Reply



malagari
Resolver IV

Re: Pull data from a REST API Authentication

09-05-2017 11:06 AM

I don't think this is a Power BI issue; the details that are returned are most likely from the API for ultipro.com. You can try connecting with a tool like Postman to verify that the issue is in the API information. If you're able to connect via Postman, then it is



something isolated to Power BI.

This site uses cookies for analytics, personalized content and ads. By continuing to browse this site, you agree to this use.

Dan Malagari

Consultant at Headspring

[Learn more](#)

Power BI

Message 3 of 8 (63,554

Views)



1

[Reply](#)



surfersamu

Helper II

Re: Pull data from a REST API Authentication

09-05-2017 12:25 PM

You are right. I tried on postman and got nothing. I have started a support ticket with them.

Assuming the API wasn't giving me an error. Is that the right way to make a HTTP GET Request? Sorry I'm new to REST APIs.

Message 4 of 8 (63,550

Views)



0

[Reply](#)



CST


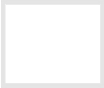
v-qiuyu-msft

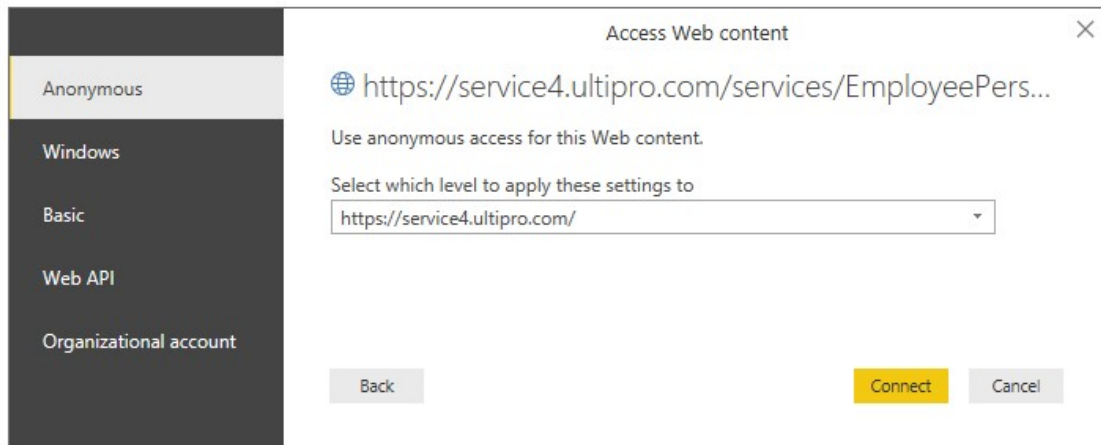
Community Support

Re: REST API and Authentication

09-07-2017 01:40 AM

Hi [@surfersamu](#),

 This site uses cookies for analytics, personalized content and ads. By continuing to browse this site, you agree to this use. I have tested in Power BI desktop using the connection information you provided, [Learn more](#) there is no error throws out. After you fill the connection information like the image  you provided and click OK button, please use Anonymous authentication, as you already provide the authorization key.



You can download the attached pbix file to have a look. By the way, here are some samples of calling API to get data in Power BI:

[Calling REST APIs and Parsing JSON made simple with Power BI](#)

[Get Data from Twitter API with Power Query](#)

Best Regards,

Qiuyun Yu

Community Support Team _ Qiuyun Yu


If this post helps, then please consider *Accept it as the solution* to help the other

[View solution in original post](#)

 [UtlPro REST API.pbix](#) 

Message 5 of 8 (70,633

Views)

 This site uses cookies for analytics, personalized content and ads. By continuing to browse this site, you agree to this use.



3

Reply

[Learn more](#)

Power BI



surfersamu
Helper II



Re: REST API and Authentication 🔒

09-08-2017 06:01 AM

UltiPro support takes a very long time to reply.

Ok I found the reason why is not working. Because UltiPro requires you to get a token to make a SOAP request. I have a token now.

Using advanced editor how can I fix this code:

I keep getting:

DataSource.Error: Web.Contents failed to get contents from
'<https://service4.ultipro.com/services/EmployeePerson>' (415): Unsupported Media
Type



This site uses cookies for analytics, personalized content and ads. By continuing to browse this site, you agree to this use. [Learn more](#)

Power BI

```
let
Source = Xml.Tables(Web.Contents("https://service4.ultipro.com/services/EmployeePer
,[Content=Text.ToBinary("<s:Envelope xmlns:a="&Character.FromNumber(34)&"http://www
<s:Header>
<a:Action s:mustUnderstand="&Character.FromNumber(34)&"1"&Character.FromNumber(34)&
<UltiProToken xmlns="&Character.FromNumber(34)&"http://www.ultimatesoftware.com/fou
<ClientAccessKey xmlns="&Character.FromNumber(34)&"http://www.ultimatesoftware.com/
</s:Header>
<s:Body>
<FindPeople xmlns="&Character.FromNumber(34)&"http://www.ultipro.com/services/emplo
<query xmlns:b="&Character.FromNumber(34)&"http://www.ultipro.com/contracts"&Charac
<b:CompanyCode />
<b:CompanyName />
<b:Country />
<b:EmployeeNumber />
<b:FirstName>like (a%)</b:FirstName>
<b:FormerName />
<b:FullOrPartTime />
<b:Job />
<b>LastHire />
<b:LastName />
<b:Location />
<b:OrganizationLevel1 />
<b:OrganizationLevel2 />
<b:OrganizationLevel3 />
<b:OrganizationLevel4 />
<b:OriginalHire />
<b:PageNumber />
<b:PageSize />
<b:PayGroup />
<b>Status />
<b:SupervisorLastName />
<b:TerminationDate />
<b:TimeClockId />
</query>
</FindPeople>
</s:Body>
</s:Envelope>"),Headers=[#"Accept-Encoding"="gzip,deflate", #"Accept"="Basic U0Vfd
))
in
Source
```



Message 6 of 8 (63,508

Views)



0

Reply

 This site uses cookies for analytics, personalized content and ads. By continuing to browse this site, you agree to this use.  v-qiu-yu-msft **Re: REST API and Authentication** [Learn more](#)

Community Support

09-12-2017 01:32 AM

Power BI

Hi @surfersamu,



It seems your original issue is solved, right?

Regarding the second issue, if you are not familiar with the Power Query, please use features available in Query Editor UI to transform data. As this is another issue, please post in a new thread and share the pbix file if possible.

Best Regards,

Qiuyun Yu

Community Support Team _ Qiuyun Yu

If this post **helps**, then please consider *Accept it as the solution* to help the other

Message 7 of 8 (63,467

Views)



1

[Reply](#)



ZappySys

Helper I

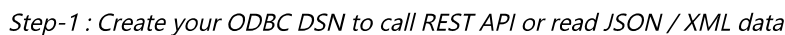
Re: Pull data from a REST API Authentication  

06-18-2018 07:43 AM

ZappySys has introduced powerful API Drivers to query virtually any JSON / XML API services in Power BI (e.g. Zendesk, Twitter, Google API, Amazon AWS)

Check this blog for more info: <https://zappysys.com/blog/howto-import-json-rest->

Hope this helps!!





This site uses cookies for analytics, personalized content and ads. By continuing to browse this site, you agree to this use. [Learn more](#)

Power BI

Connection Configuration

ZappySys JSON Driver
JSON driver can read data from local files or Web API (REST, OData).
Use familiar SQL language to query nested structure and output as flat table.

Data source name: INVOICE_JSON_API_DSN

Preview

Preview Data: value Max rows: 100

« View Examples »

```
select
  "OrderID",
  "OrderDate",
  "RequiredDate",
  "Quantity",
  "Discount",
  "ExtendedPrice",
  "Freight"
from [value]
```

Save metadata

OrderID	OrderDate	RequiredDate	Quantity
10692	1997-10-03T00:00:00	1997-10-31T00:00:00	20
10702	1997-10-13T00:00:00	1997-11-24T00:00:00	6
10702	1997-10-13T00:00:00	1997-11-24T00:00:00	15
10835	1998-01-15T00:00:00	1998-02-12T00:00:00	15
10952	1998-03-16T00:00:00	1998-04-27T00:00:00	2
11011	1998-04-09T00:00:00	1998-05-07T00:00:00	20
10952	1998-03-16T00:00:00	1998-04-27T00:00:00	16
11011	1998-04-09T00:00:00	1998-05-07T00:00:00	40

Test connection Copy connection string

« View Examples »

- Query JSON API Service
- Query Single File
- Query Multiple Files
- Query direct JSON string (embedded inside query)
- Query - Group By
- Query API using Basic Authentication (UserId/Password)
- Query API using NTLM Authentication (Windows Auth)
- Query Custom API using OAuth2
- Query Google API using OAuth2
- Query OData API Service
- API Pagination - Paginate based on Response Attribute
- API Pagination - Paginate based on URL Parameter (Loop
- API Pagination - Paginate based on URL Path (Loop until
- API POST (data from embedded string)
- API POST - Send/Upload file (data from local file)**
- Call stored proc (Ad-Hoc HTTP request).
- Functions - String Manipulation
- Functions - Control flow
- Functions - Date/Time
- Functions - Math
- Functions - String Manipulation
- Functions - Regular Expression
- Functions - JSON
- Query 2D Array (Simple Transformation)
- Query 2D Array (Simple Transformation with Missing Col
- Query 2D Array (Complex Transformation)
- Query using filter option
- Basic SQL queries

Step-2 : Build / Test your REST API Query

Power BI

Get Data

From ODBC

Data source name (DSN)

ZS - OData Customers

Advanced options

Connection string (non-credential properties) (optional)

Example: Driv...

SQL statement (optional)

SELECT
"CustomerID",
"CompanyName",
"ContactName",
"ContactTitle",
"Address",
"City",
"Fax"
FROM [value]
WITH(SRC='http://services.odata.org/V3/Northwind/I

Click here to Enter custom SQL

Write your custom API Query to Import


More... >> ODBC

Learn more

Step-3: Import REST API data in Power BI using ODBC connection (Under Get Data >> More >> Other)

You can write queries like below (JSON Driver Example)

```
SELECT * FROM $
WITH(
src='https://service4.ultipro.com/services/EmployeePerson'
,Header='Authorization: Basic c29tZXVzZXI6c29tZXBhc3dvcmQ= || US-Customer-Api-Key: A
,RequestMethod='GET'
)
```

 This site uses cookies for analytics, personalized content and ads. By continuing to browse this site, you agree to this use. [Learn more](#)

Power BI

Views)

Message 8 of 8 (60,521



0

Reply

[All forum topics](#)

[< Previous Topic](#)

[Next Topic >](#)



Helpful resources

This site uses cookies for analytics, personalized content and ads. By continuing to browse this site, you agree to

this use.

Announcements

[Learn more](#)

Power BI

Community Highlights



March 2020

March 2020 Community Highlights

Check out the full recap for the month!

[READ MORE >](#)



Recommendations

💬 ✓ Pull data from a REST API Authentication - JIRA 🖼️

04-04-2019

11:46 PM

💬 ✓ Pull data from RESTful API with token authenticati...

10-20-2016

07:55 AM

💬 ✓ Retrieving data from REST API

08-26-2019

06:53 AM


💬 ✓ REST API (web data source) Authentication Header i...

04-06-2020

03:13 AM

💬 ✓ Using a REST API as a data source 🗨️

07-15-2016

 This site uses cookies for analytics, personalized content and ads. By continuing to browse this site, you agree to [this use of cookies](#) [Learn more](#)

Overview
Power BI
Power BI



Power Apps

Power Automate

Power Virtual Agents

Sign in

Sign up

BROWSE

Solutions

Partners

Consulting Services

DOWNLOADS

Power BI Desktop

Power BI Mobile

Power BI Report Server

See all downloads

LEARN

Guided learning

Documentation

Support

Community

Give feedback

Webinars



Developers

This site uses cookies for analytics, personalized content and ads. By continuing to browse this site, you agree to

this use

[Learn more](#)

Blog

Newsletter

Power BI



© 2020 Microsoft



[Privacy & cookies](#)

[Terms of use](#)

[Trademarks](#)