Working with OAuth 2.0 APIs in Azure Data Factory

by Martin Schoombee



About Me

"I help people make sense of their data"

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https://github.com/mschoombee/Presentations/wiki/Presentations





Agenda

- What is OAuth
- The Authorization Flow
- Testing APIs (with Postman)
- Azure Data Factory Linked Services, Datasets & Pipelines

Open Authorization (OAuth)

"A way for Internet users to grant websites or applications access to their information without giving them their passwords"



Hello, Mint.

I'd like to see my bank transactions in your app.



Hello, Mint.

I'd like to see my bank transactions in your app.



Hello, Mr X.

Ok, I can help with that.



Hello, Piggy Bank API.

Mr X would like to see his transactions in my app.



Hello, Piggy Bank API.

Mr X would like to see his transactions in my app.

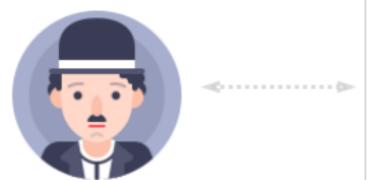


I need to get Mr X's permission first.

> Here's a login screen...



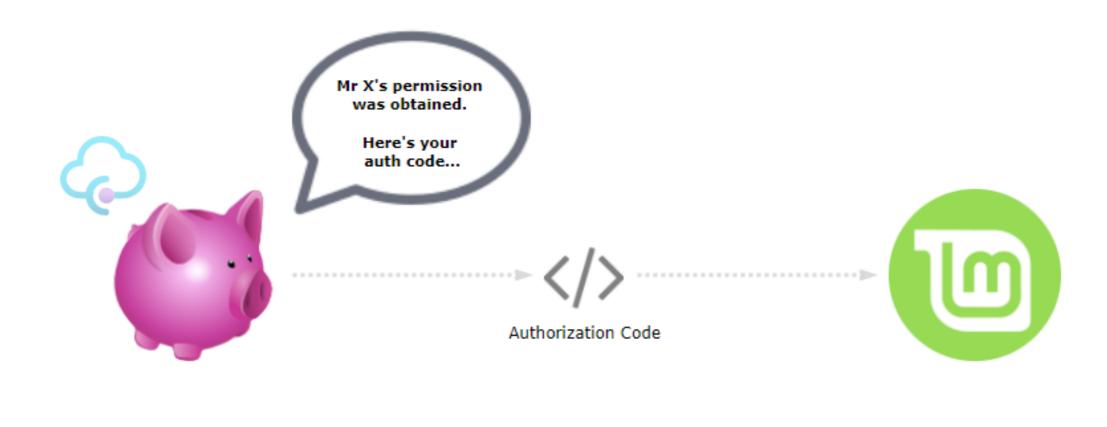


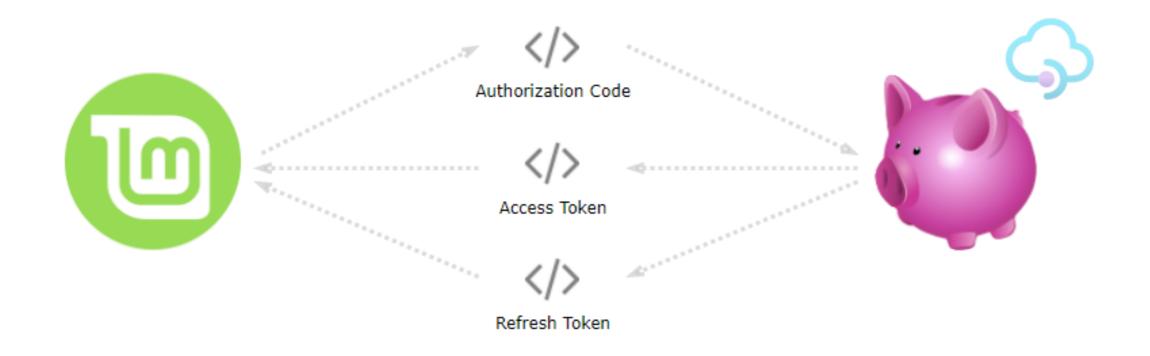


	User Name:
	Mr X
-	Password:

	SIGN IN









1. Variation



- 1. Variation
- 2. User Interaction Required



- 1. Variation
- 2. User Interaction Required
- 3. Error Messages



- 1. Variation
- 2. User Interaction Required
- 3. Error Messages
- 4. Add Azure Data Factory







POSTMAN

1. API Docs!!



- 1. API Docs!!
- 2. Start with Postman*



- 1. API Docs!!
- 2. Start with Postman*
- 3. *Generic* Linked Service



- 1. API Docs!!
- 2. Start with Postman*
- 3. *Generic* Linked Service

4. Use Azure KeyVault



- 1. API Docs!!
- 2. Start with Postman*
- 3. *Generic* Linked Service
- 4. Use Azure KeyVault

5. Separate Token Refresh



- 1. API Docs!!
- 2. Start with Postman*
- 3. *Generic* Linked Service
- 4. Use Azure KeyVault
- 5. Separate Token Refresk

6. Pagination :-/



Resources

- OAuth
 - https://www.oauth.com/
- Xero
 - https://developer.xero.com/
- KeyVault Secrets API
 - https://docs.microsoft.com/en-us/rest/api/keyvault/secrets/getsecret/get-secret
- My Blog Series
 - https://martinschoombee.com/2022/02/15/working-with-oauth-2-0-apis-in-azure-data-factory-a-series/