



DATA COMMUNITY
UNITED FOR UKRAINE



COME BACK

ALIVE

15

SEPTEMBER

9 PM Kyiv

7 PM London

2 PM New York

11 AM San Francisco

CHARITY MARATHON

"Power Apps + on-premises data gateway"



Ricardo Cabral

Microsoft Certified Trainer (MCT), Technical Engineer, IT Consultant, IT trainer, IT PRO, Speaker.

Data Community – United for Ukraine



Staying with Ukraine

www.datacommunityunited.com

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Come Back Alive

♥ ПОВЕРНИСЬ
ЖИВИМ



Donations for:

Matrice: \$14.500

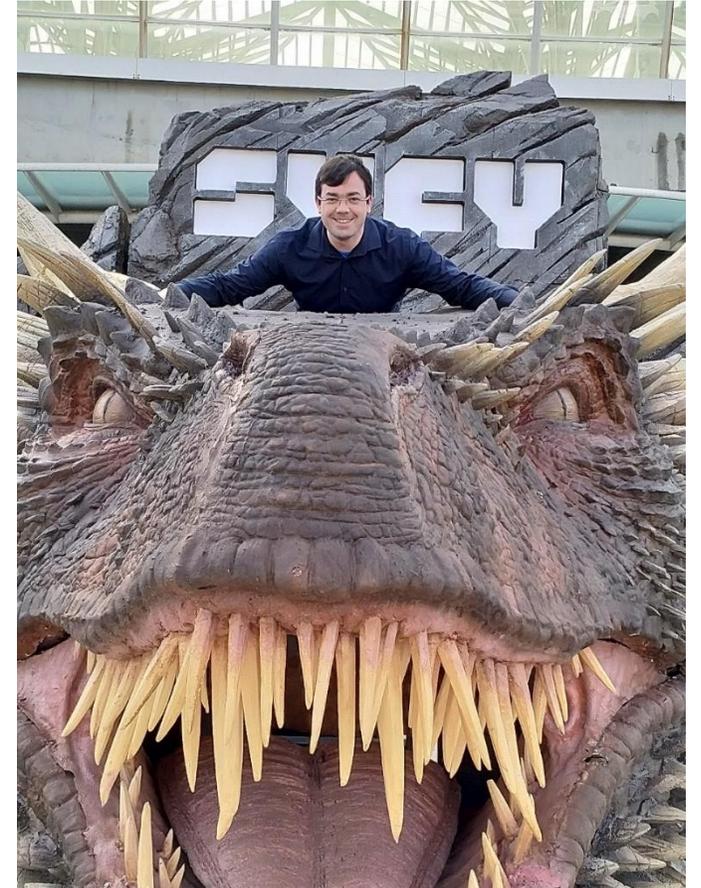


https://payment-page.solidgate.com/charity/comebackalive/dZNqJgD?traffic_source=DataCommunityForUkraine

Speaker Bio

- Ricardo Cabral
- From Portugal
- Technical Consultant and Microsoft Certified Trainer
- Independent Contractor
- I also participate, volunteer and speak at community meetings.
- Hobbies
 - Coding
 - Cinema
 - Learning

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Microsoft Power Platform



Power Apps
Application
development



Power Automate
Workflow
automation



Power BI
Business
analytics



Power Pages
Web App
Development



Power Virtual Agents
Intelligent
virtual agents



Dataverse



AI Builder



Power Fx

What is Power Apps

- Build custom business apps using low code tools
- This mean no code?
 - NO, but doesn't require a lot of manual coding
- This is not a replacement for professional developer tool
- It exists since 2015 originally from Project Siena (Windows 8.1 App with "zero" Lines of Code)

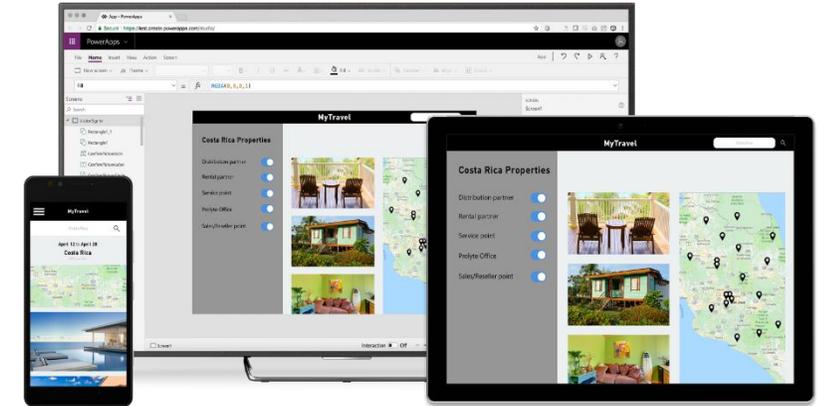
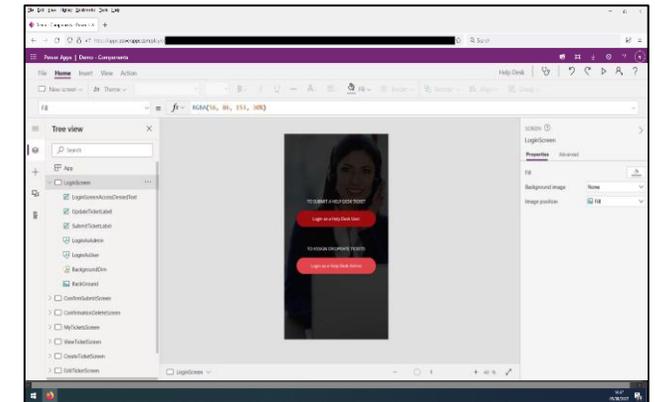
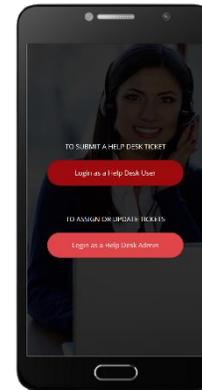
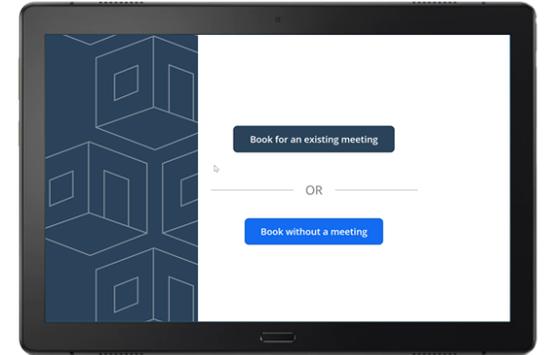
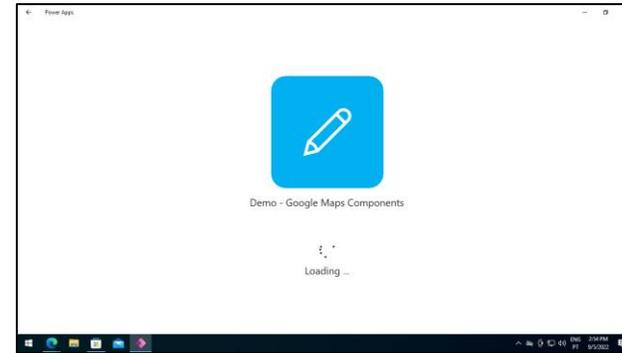


Image from Microsoft

What type of app can you build

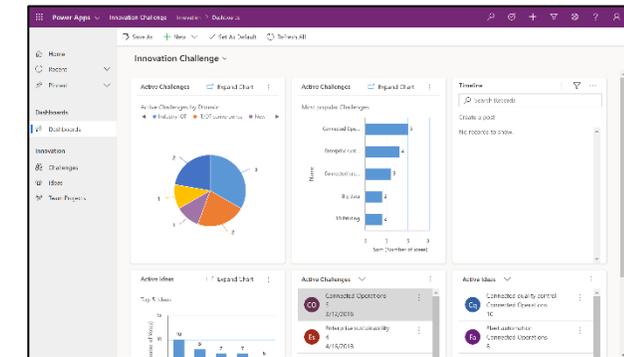
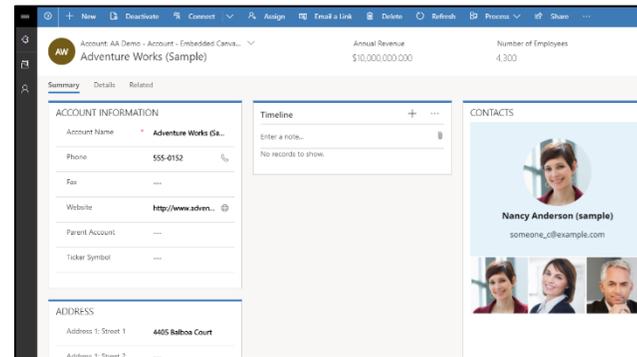
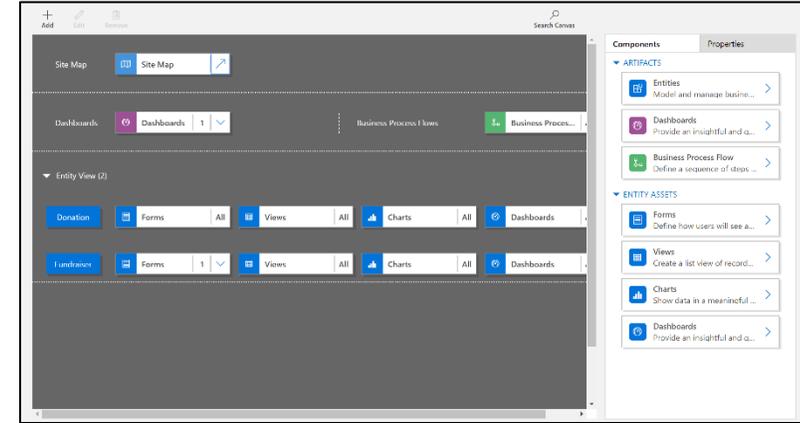
	Canvas App
How to access	Desktop, Web (MS 365) and mobile
Design experience	WYSIWYG editor using drag-and-dropping and manipulation of control properties using Power Fx expressions
End user experience	WYSIWYG (“wiz-zee-wig”) What You See Is What You Get
Speed of creation	Some complexity (full customization)
Responsive	NO. Fixed landscape or portrait orientation
Data sources	Dataverse or connectors
Can use Data Gateways	Yes
Type of end users	Internal and guest (Azure AD)



Images from Microsoft

What type of app can you build

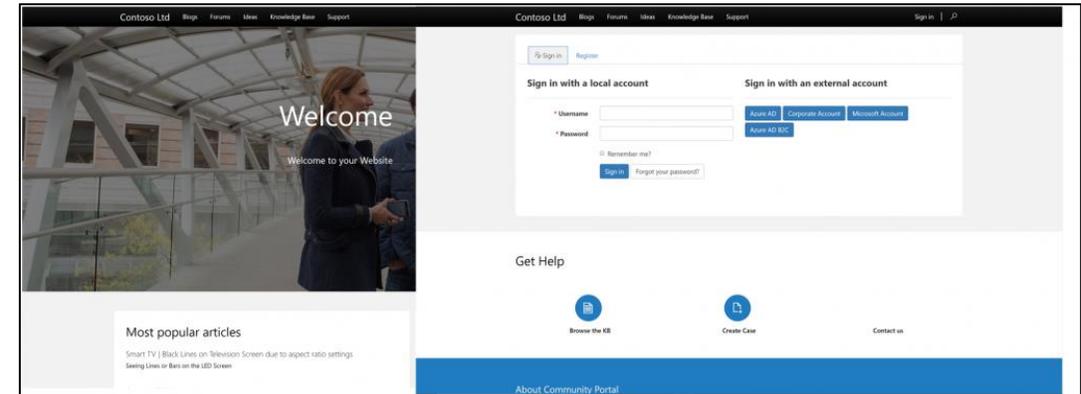
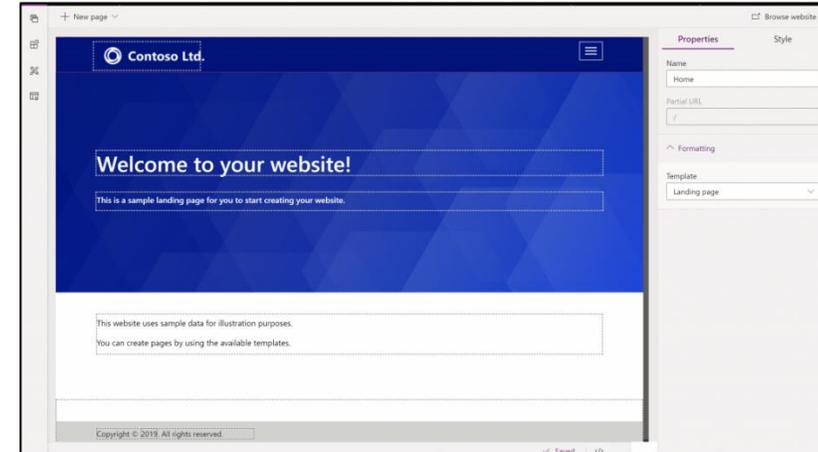
	Model-Driven App
How to access	Web (Microsoft 365)
Design experience	Focused design and table views, chats, dashboards, forms and custom pages from Dataverse
End user experience	Dashboard with multiple views, forms and charts
Speed of creation	Rapid (limited customization)
Responsive	HTML5 responsive
Data sources	Dataverse only
Type of end users	Internal



Images from Microsoft

What type of app can you build

	Website
How to access	Web (Internet domain)
Design experience	WYSIWYG editor using Dataverse functionalities, pages, layout, and content
End user experience	WYSIWYG (“wiz-zee-wig”) What You See Is What You Get
Speed of creation	Medium (Require HTML knowledge, authentication providers and others)
Responsive	HTML5 responsive
Data sources	Dataverse only
Type of end users	Internal and External



Images from Microsoft

How to start for free

- Join to Power Apps Developer Plan
- Replace the 'Power Apps Community Plan'
- <https://powerapps.microsoft.com/en-us/developerplan/>
- Free environment for individual use for development and testing
- Is restricted for use by a single user and with **no ability to share apps**
- Not for a team or production use
- **It is possible** to export the resources from this environment to another environment



Power Apps Developer Plan

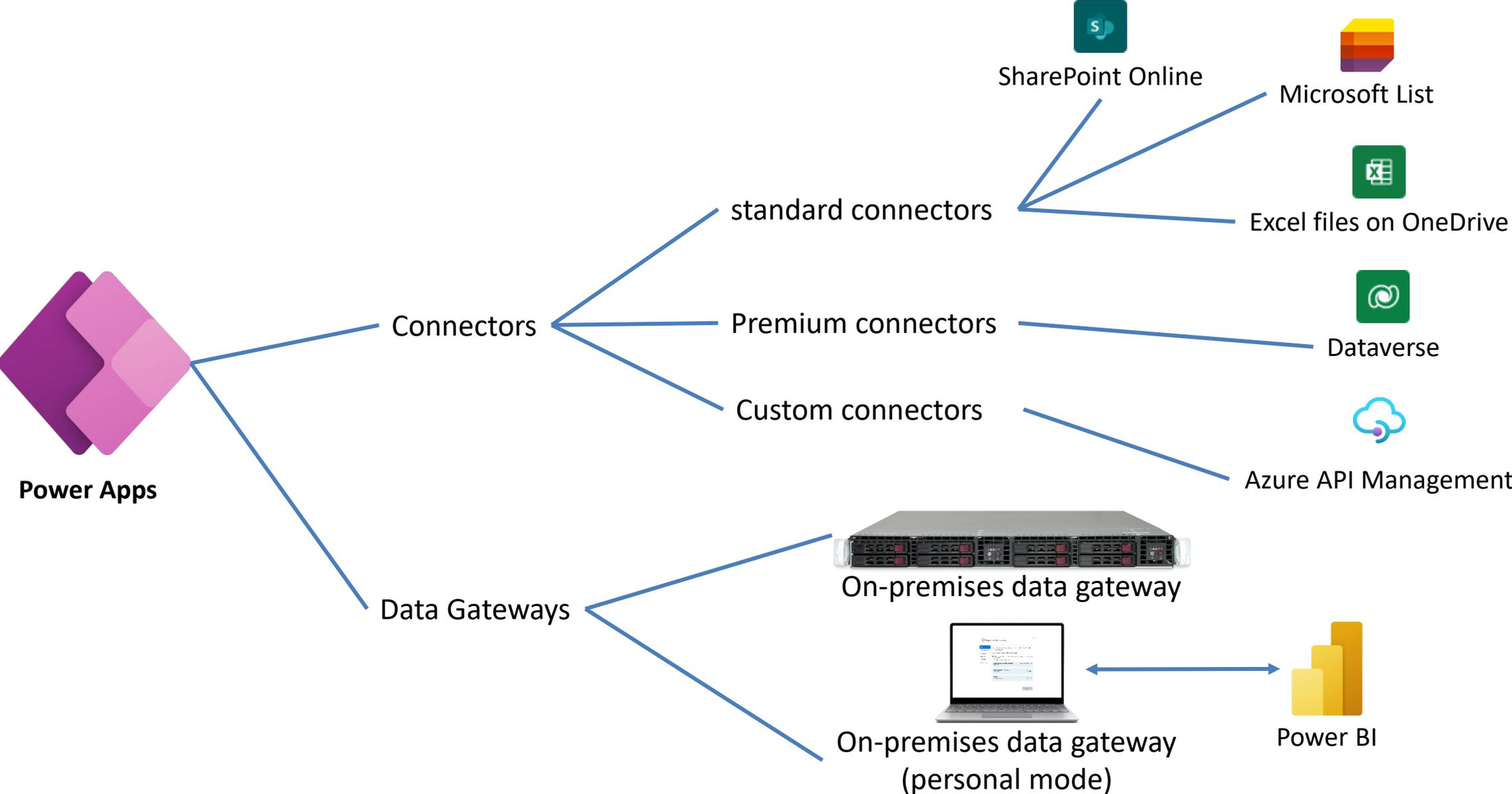
Build and test Power Apps for free

Get started free >

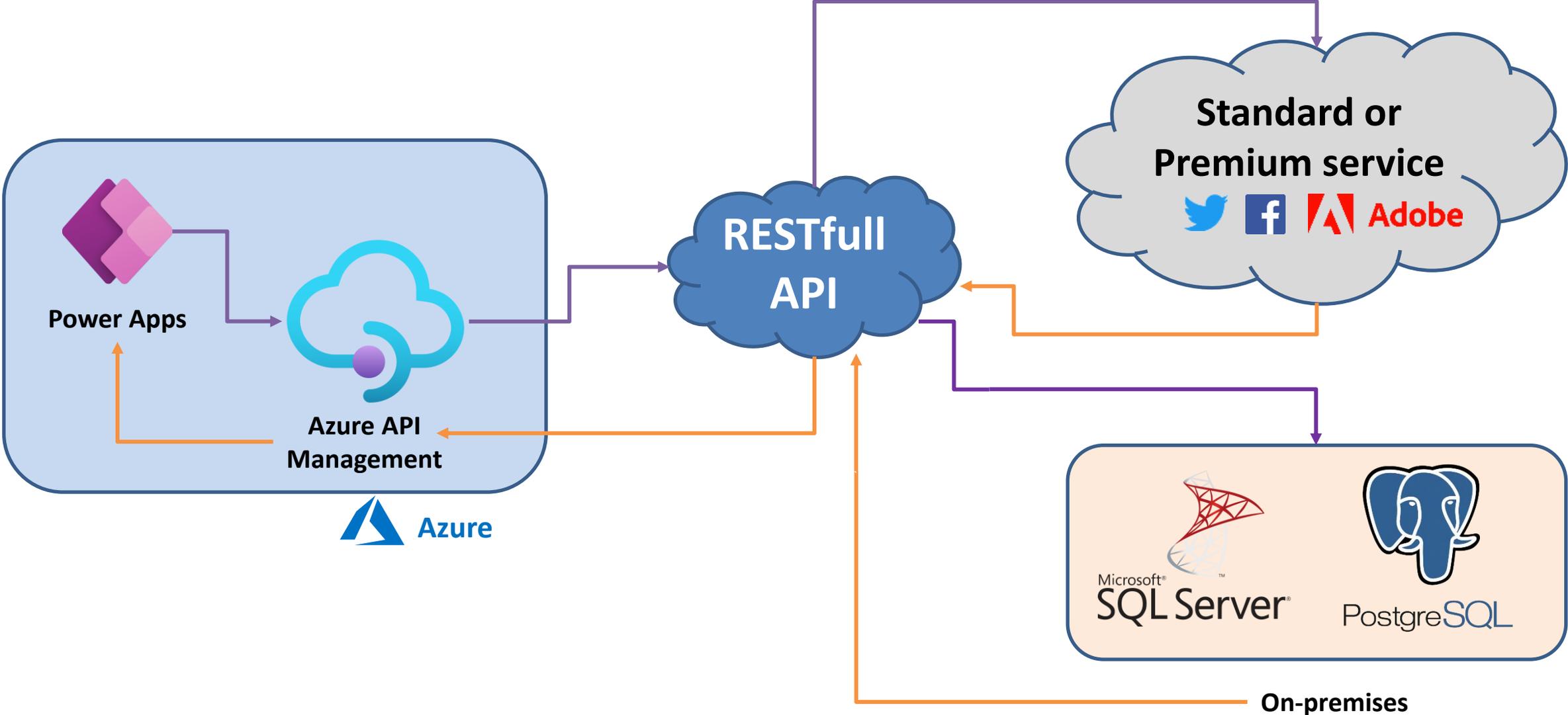
Existing user? Add a dev environment >



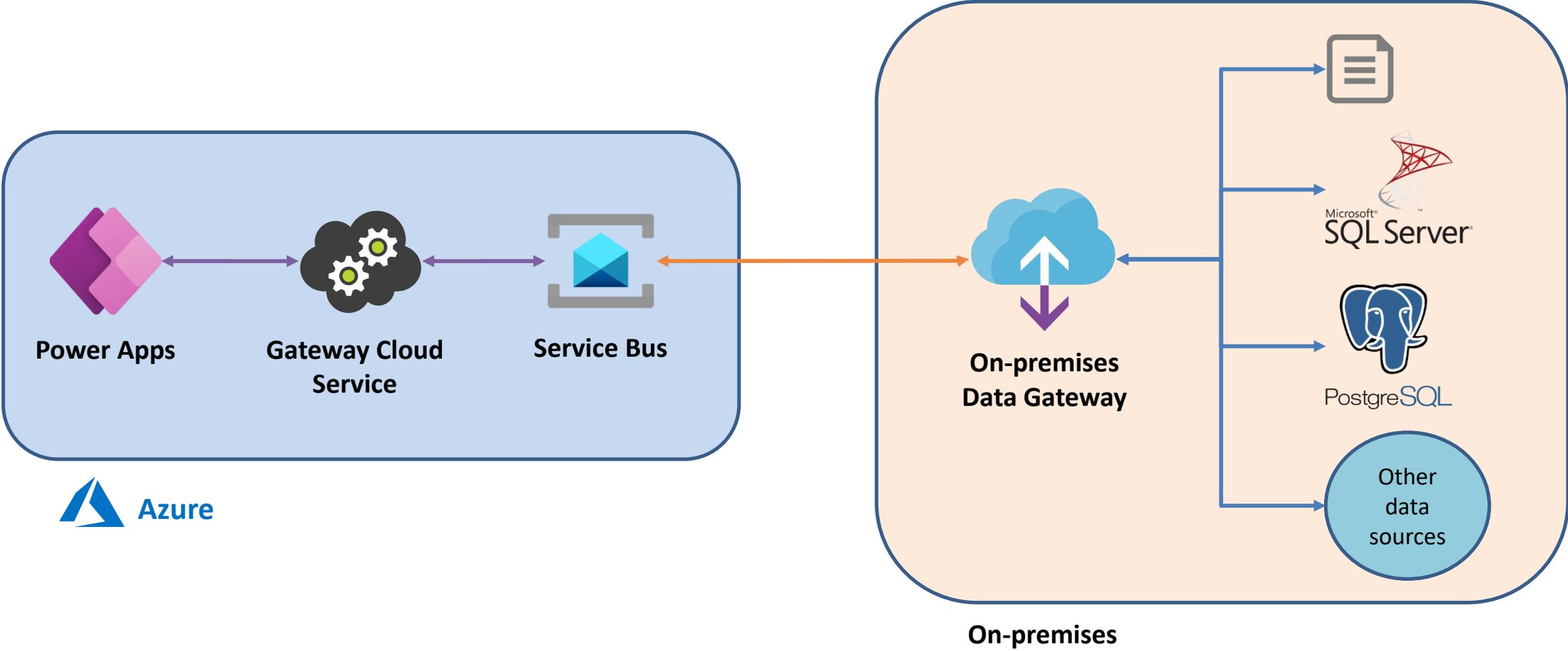
Canvas App Data sources



Consume data using connector



Consume data using data gateway

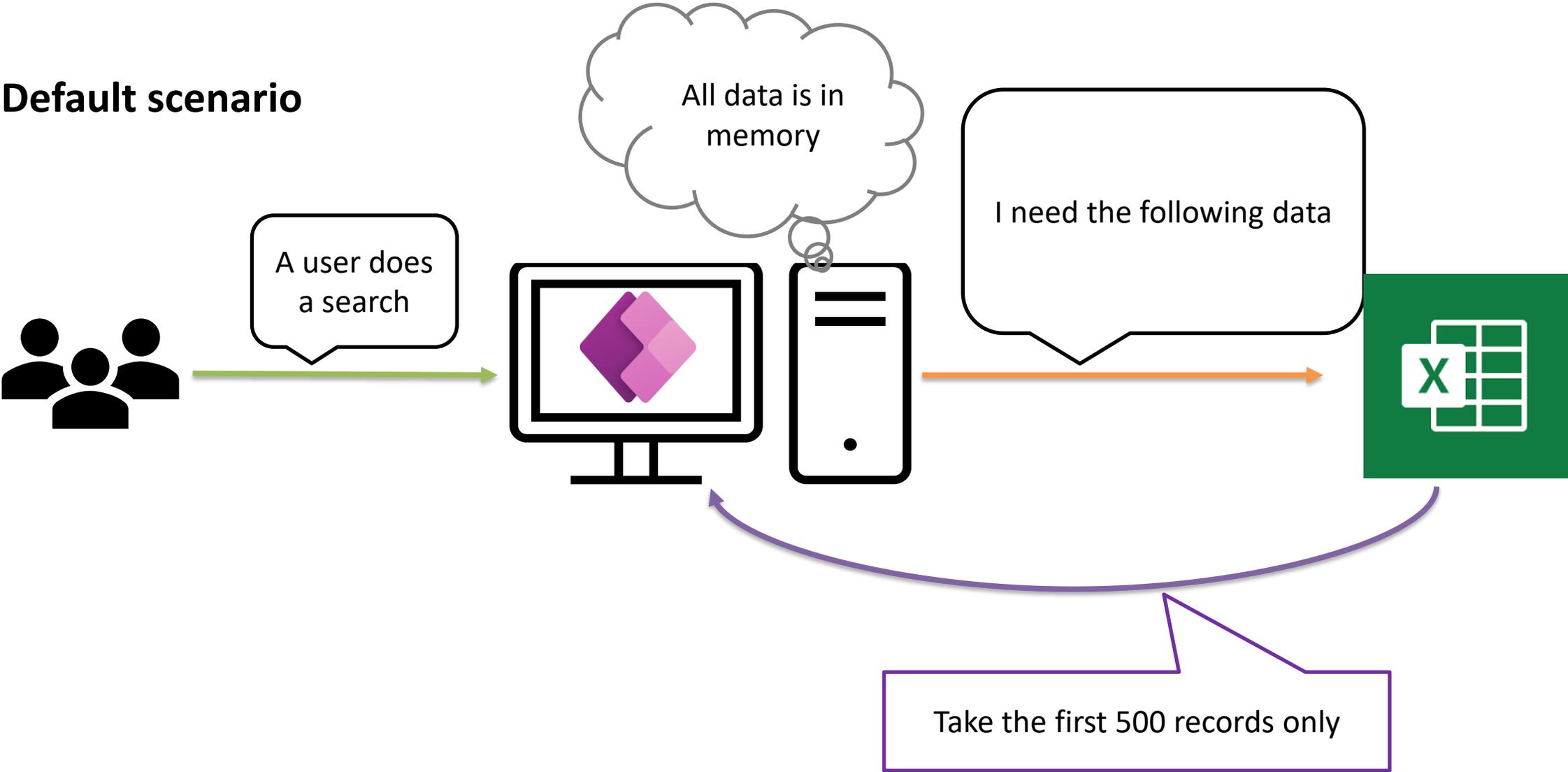


DEMO

On-Premises Data Gateway

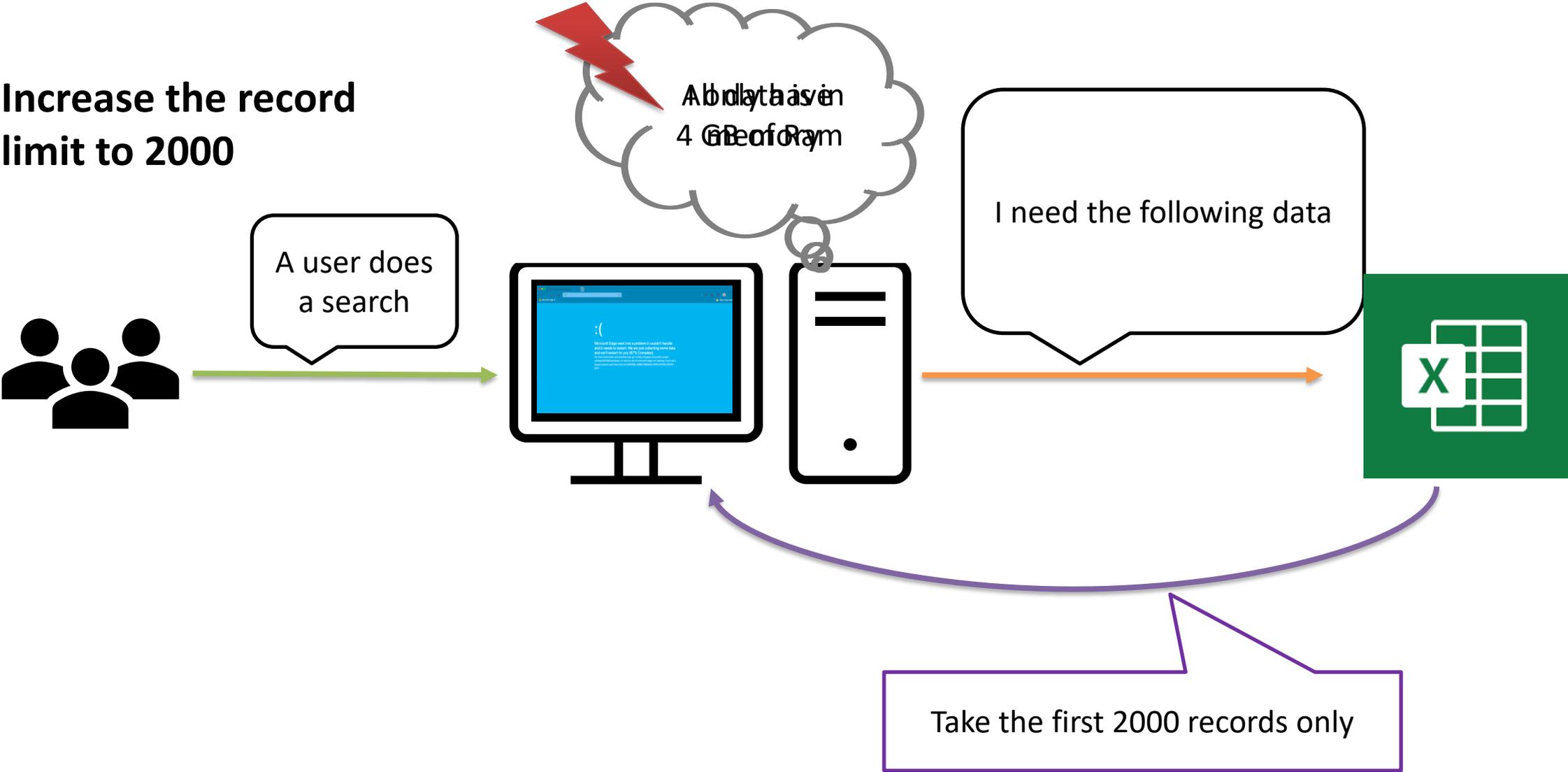
Small data sets (Non-delegable queries)

Default scenario

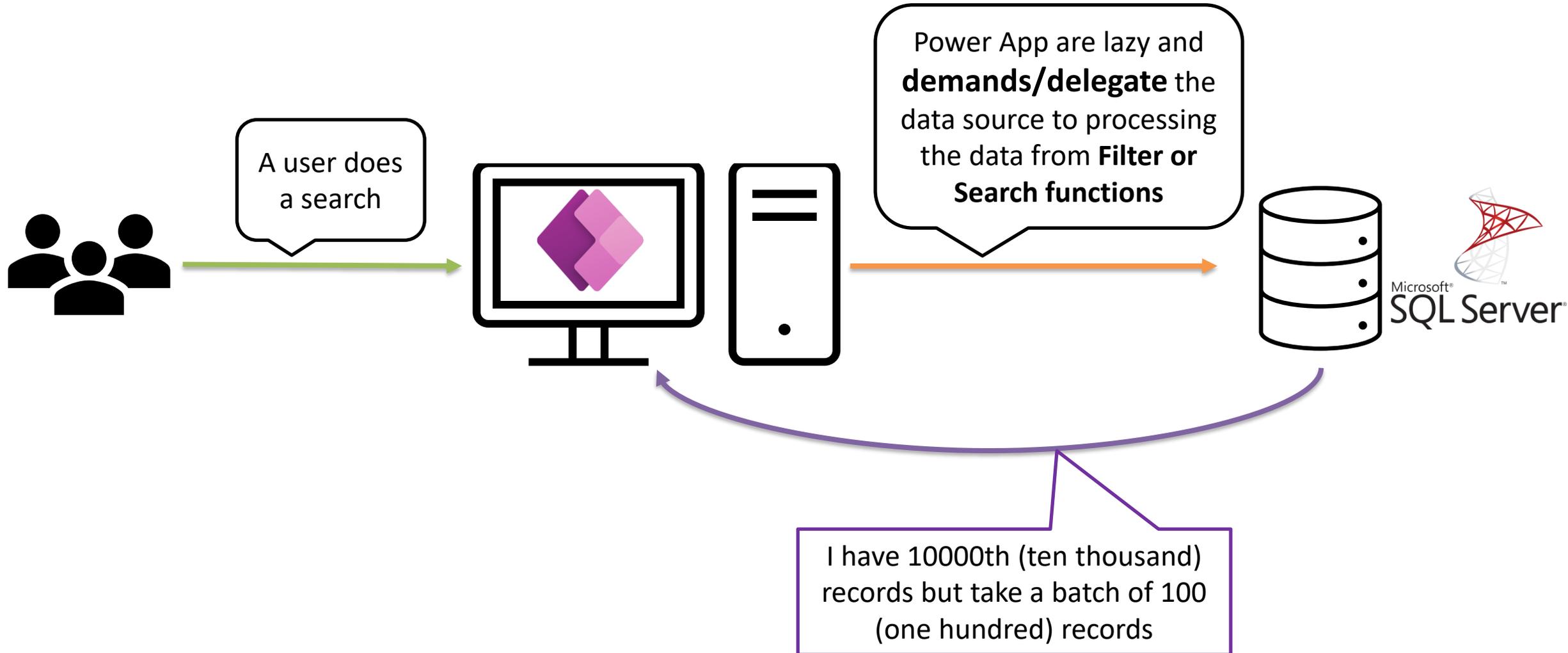


Small data sets (Non-delegable queries)

Increase the record limit to 2000



Large data sets (Delegation)



Non-delegable queries vs Delegable queries

- Any data source query can collect the first 500 records
- It is possible to set data row limit from 1 to 2000 for non-delegable queries

- Why not more than 2000 for non-delegable queries?

- All data will be process locally by the device



- You need to use large data sources?

- Use Delegation
 - Delegation is supported for certain tabular data sources only

Dataverse (not all functions or operations)
Dynamics 365 (not all functions or operations)
Salesforce (not all functions or operations)
SharePoint (not all functions or operations)
SQL Server (not all functions or operations)

DEMO

Delegation

Considerations for data gateway

- Write operations have a 20-MB payload limit.
- Read operations have a 20-MB request limit and an 8-MB compressed data response limit.
- URL for the GET request has a 2048 character limit.
- Can not be installed in Windows container, Serve Core, Windows Server with domain controller role,

Common mistakes

- When defining a form as FormMode.New the fields are not editable to add new data, or it is only blocked for viewing
 - The table in the database has no primary key and Identity defined.
- PowerApp is not communicating with the database
 - Execute Network ports test from On-premises data gateway app to check if it is being blocked by a security appliance and HTTPS must be enable.
 - Don't disable or stop the PBIEgwService

 PBIEgwService	4120	On-premises data gateway service	Running
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 - If the device is laptop may have gone into hibernation mode
 - Check Internet speed at <https://azurespeedtest.azurewebsites.net/>

Q & **A**

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— Staying with Ukraine

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THANK YOU

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Power Apps & on-premises data gateway

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