

PowerApps, SharePoint & PowerBi: Better Together

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Hello, I am Hristo!



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Agenda

1. Intro & problem
2. SharePoint Online validation
3. PowerApps approach
4. PowerBi to tie the knot

Next up...

1. Intro & Problem

Why?

- Business applications
- Wholistic solution approach
- Consult while keeping in mind
 - Integrations
 - App expansion

Next up...

2. SharePoint Online

SharePoint Online

- Keeps improving
- Enormous OOB capabilities
- No magic wand
- Your place to start and validate

SharePoint Online - Forms

- OOB + JSON = simple
- PowerApps + some dev = more sophisticated
 - Will need your support

SharePoint Online - Indices

- More than 5000 items?
 - Create an index/indices based on the columns your app will filter on
- At least 5% improvement of the request duration
 - Up to 20-30%

SharePoint Online - Indices

	Category	Operation	Result	Result info	Status	Duration ...
			Success			
			Success			
			Success			
			Success		200	150
		nt	Success	Requested 100 rows. Received 100 rows.		
49.490	Network	getRows	Success		200	192
49.502	Network	getRowCount	Success	Requested 100 rows. Received 100 rows.		
56.948	UserAction	SetProperty	Success			
48.825	UserAction	Select	Success			
48.968	UserAction	Select	Success			
53.065	UserAction	Select	Success			
53.217	UserAction	Select	Success			
53.983	Network	getRows	Success		200	156
53.983	Network	getRowCount	Success	Requested 100 rows. Received 100 rows.		
54.017	Function	Text	Success	The number passed in is a blank value.		
54.019	Function	Text	Success	The number passed in is a blank value.		
54.019	Function	Text	Success	The number passed in is a blank value.		
54.867	UserAction	SetProperty	Success			
54.920	UserAction	Select	Success			
57.830	Network	getRows	Success		200	144
57.833	Network	getRowCount	Success	Requested 100 rows. Received 100 rows.		
58.055	Network	getRows	Success		200	147
58.056	Network	getRowCount	Success	Requested 100 rows. Received 100 rows.		
58.247	Network	getRows	Success		200	206
58.261	Network	getRowCount	Success	Requested 100 rows. Received 100 rows.		
04.523	UserAction	SetProperty	Success			

Demo

Next up...

3. PowerApps

PowerApps

- Since 2015 enormous growth:
 - Functionality & offering
 - Performance
 - Ecosystem
- Leader in Enterprise Low Code Application Platforms

PowerApps

Figure 1. Magic Quadrant for Enterprise Low-Code Application Platforms



Source: Gartner (August 2019)

PowerApps - What's in it for you?

- Build custom mobile apps for a fraction of the cost & effort
- Use SP as a preferred data source:
 - Free
 - Convenient
- Delegable data sources -> no explicit limits

But what about me, the data pro?

- connect quickly and in a straightforward way to SQL
 - On-prem or Azure SQL
- visualize your data with the basic built-in charts
 - custom charts are available to import into an app and provide more options.
- Embed PowerBi dashboards in apps
- Embed Power Apps onto a Power BI report

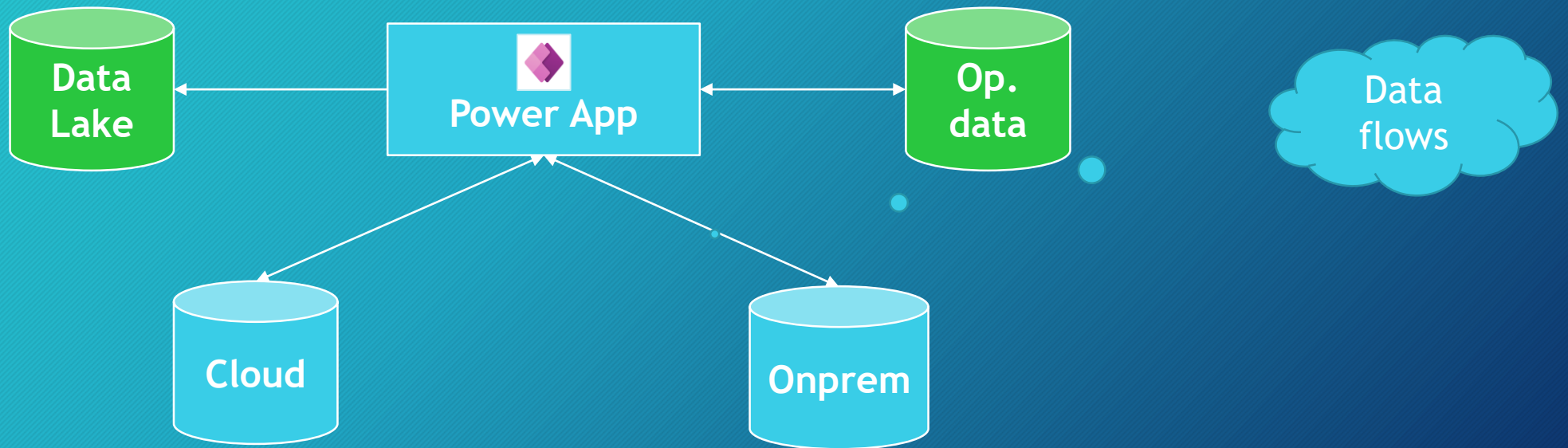
Demo

Overview of limits

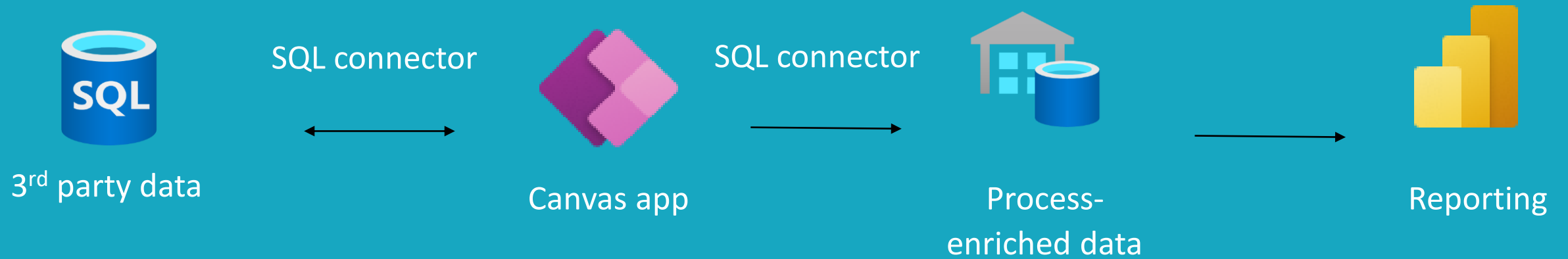
Data source	Delegation formula	Non-Delegation Formula
SPO/SQL/Dataaverse	∞^*	2000
Anything else	2000	2000

* *SPO limit is 2M items/documents.*

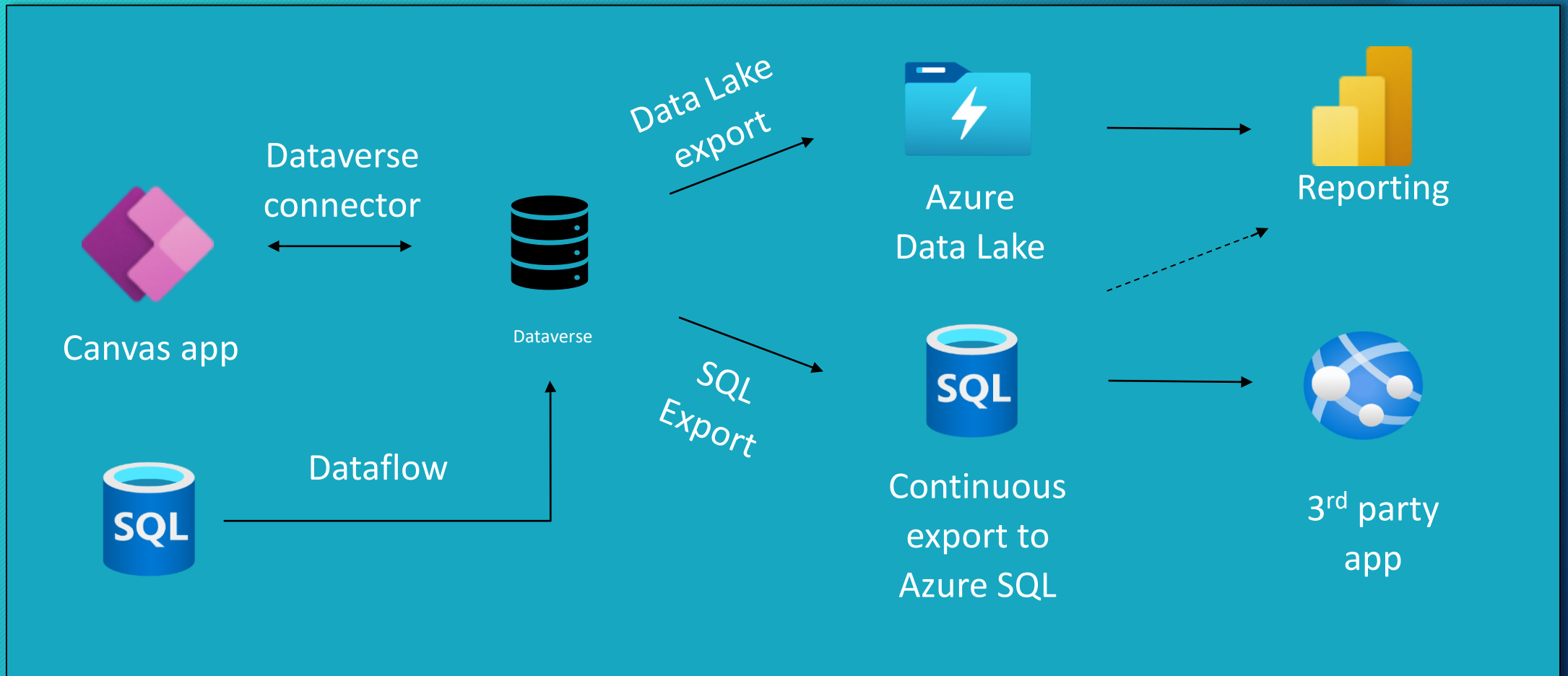
PowerApps HLO



PowerApps Architecture



PowerApps Architecture



Next up...

4. PowerBI

PowerBI - SPO

- Some trickeries:
 - Hidden columns
 - Complex data type columns
- Connector specifics

PowerBI - SPO - Errors



Power BI

An error occurred while processing the data in the dataset.

Refresh failed:

Report name has failed to refresh.

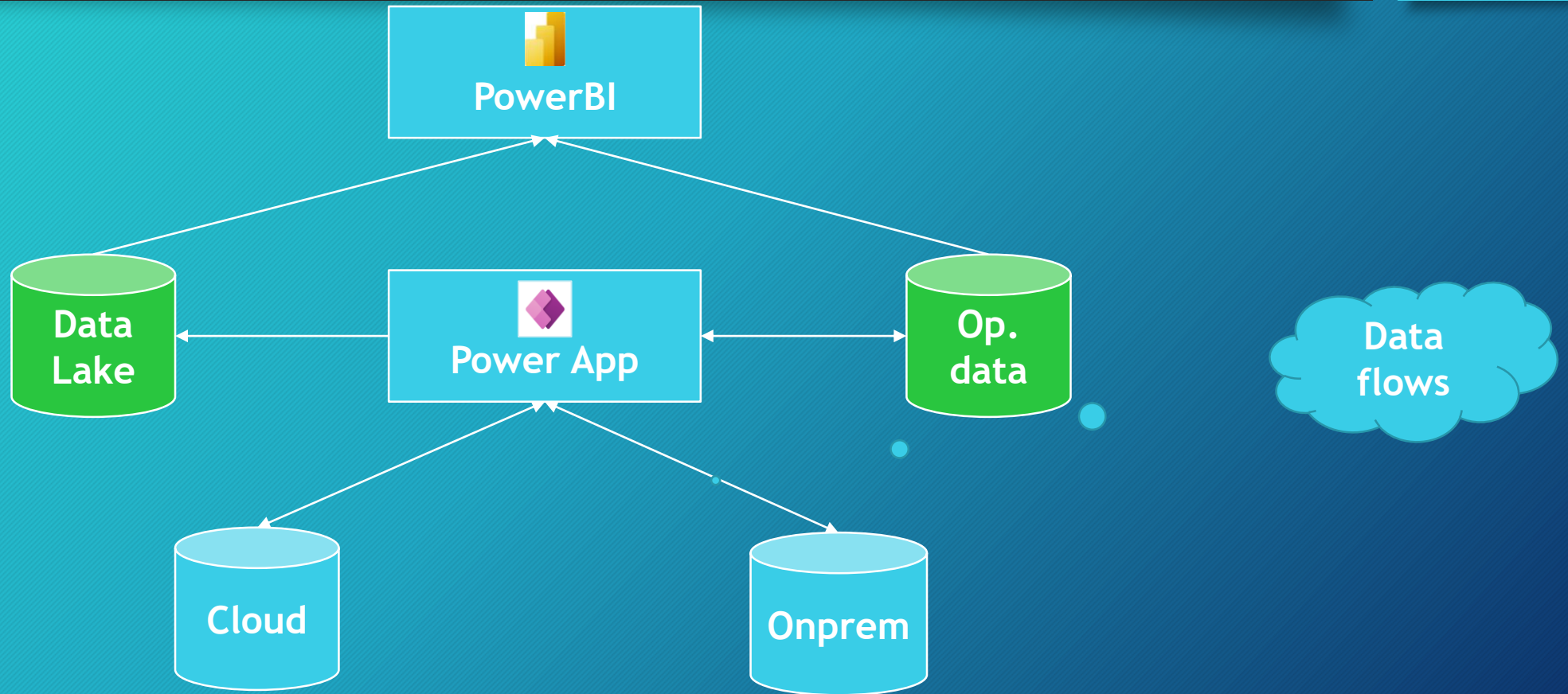
Failure details: SharePoint: Request failed: The remote server returned an error: (429). (429 TOO MANY REQUESTS)

Next refresh for Report name is scheduled for February 6, 2021 9:00 UTC.

[Learn more >](#)

Demo

PowerBI - HLO with Power Apps



The End!



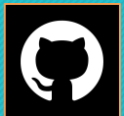
Thank you. Questions, comments?



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