Brian Bønk Rueløkke

Principal & Enterprise architect, Data & AI

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Microsoft MVP

FastTrack Recognized
Solution Architect
Power BI
2022 >>

Microsoft

Certified Trainer
Data Platform

2018 >>

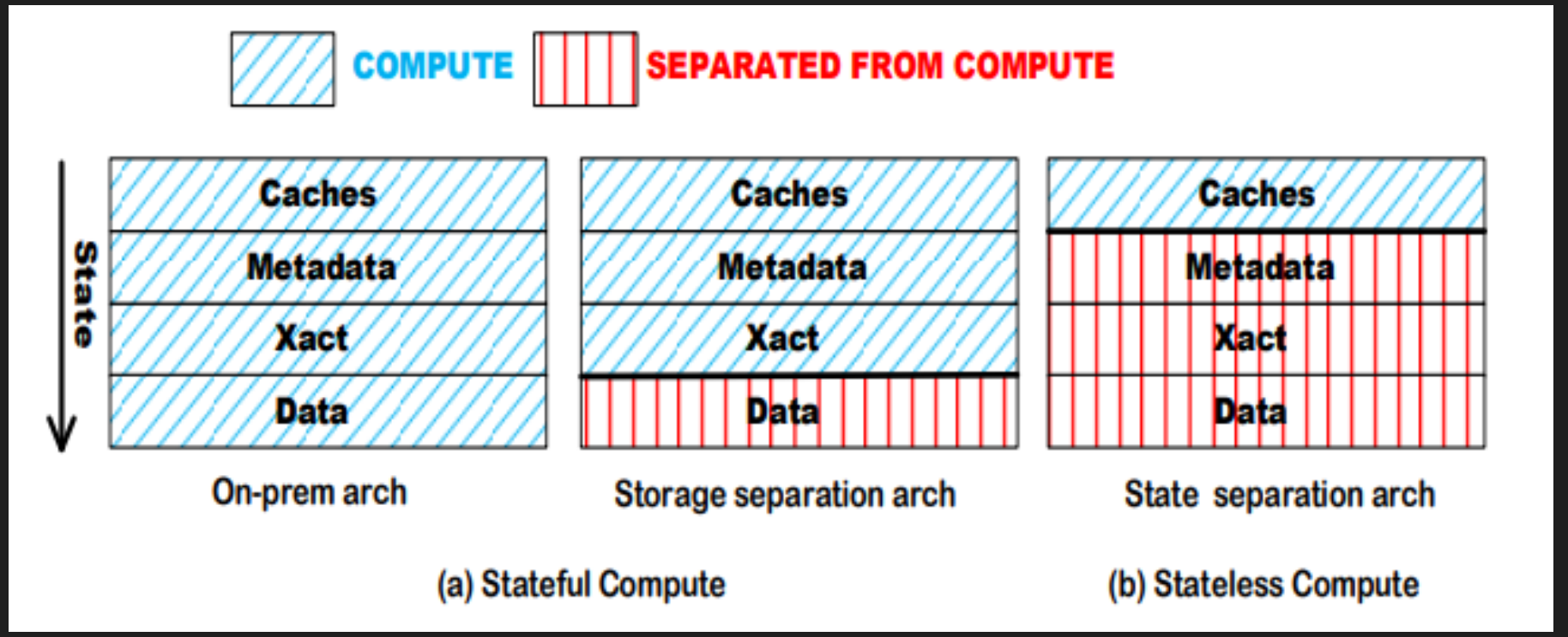
Synapse Serverless vs Fabric

Serverless

Warehouse

Polaris

Stateless compute



Synapse and Fabric

Polaris

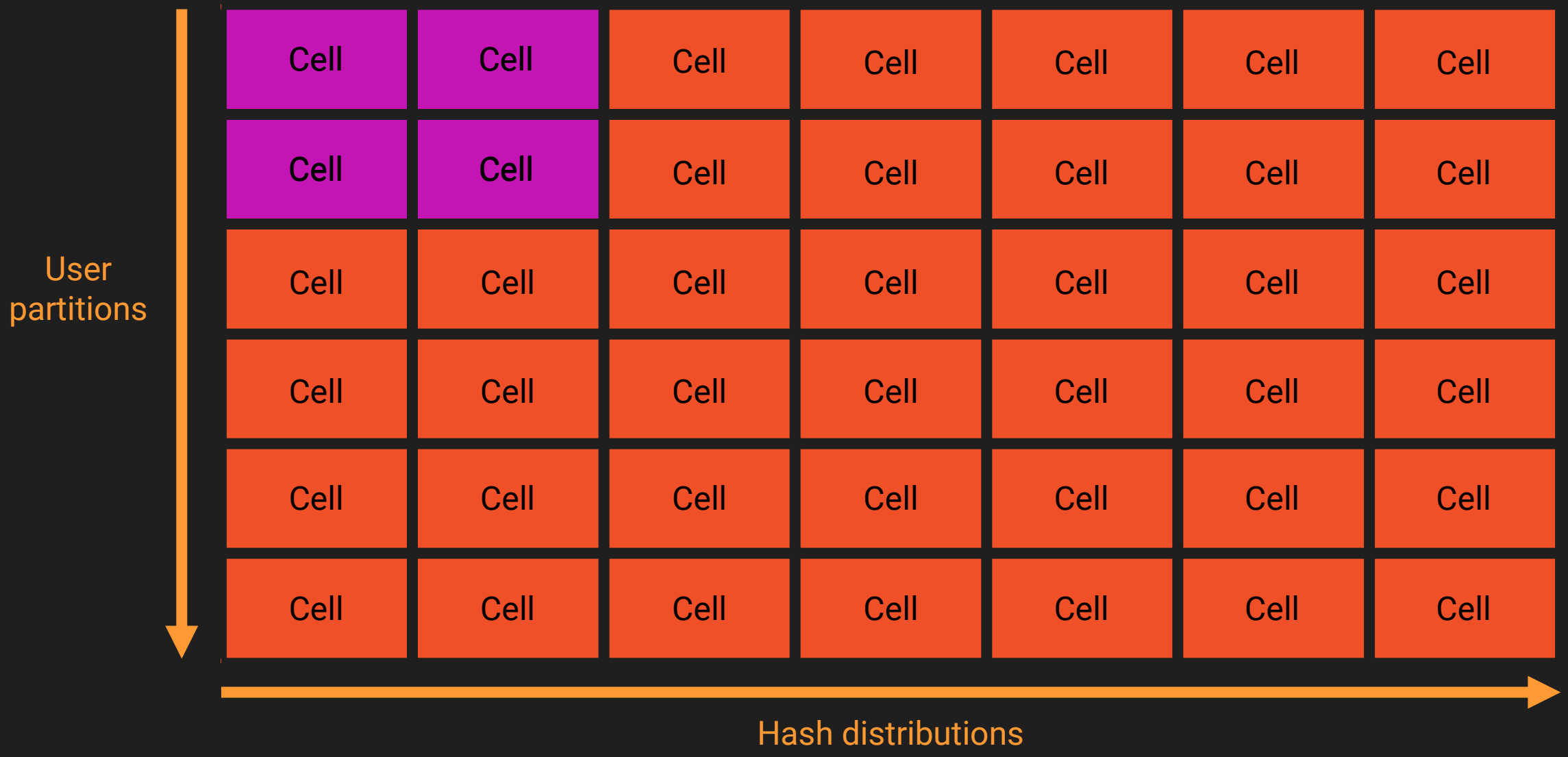
Data abstraction

Polaris

Data abstraction

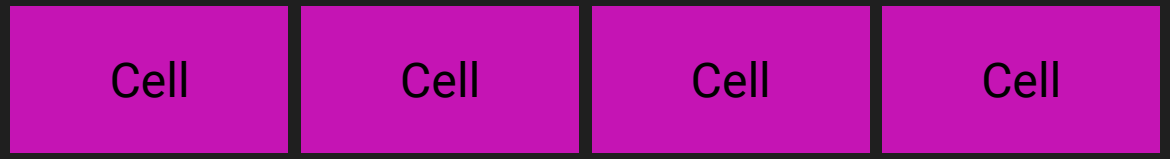
Polaris

Data abstraction



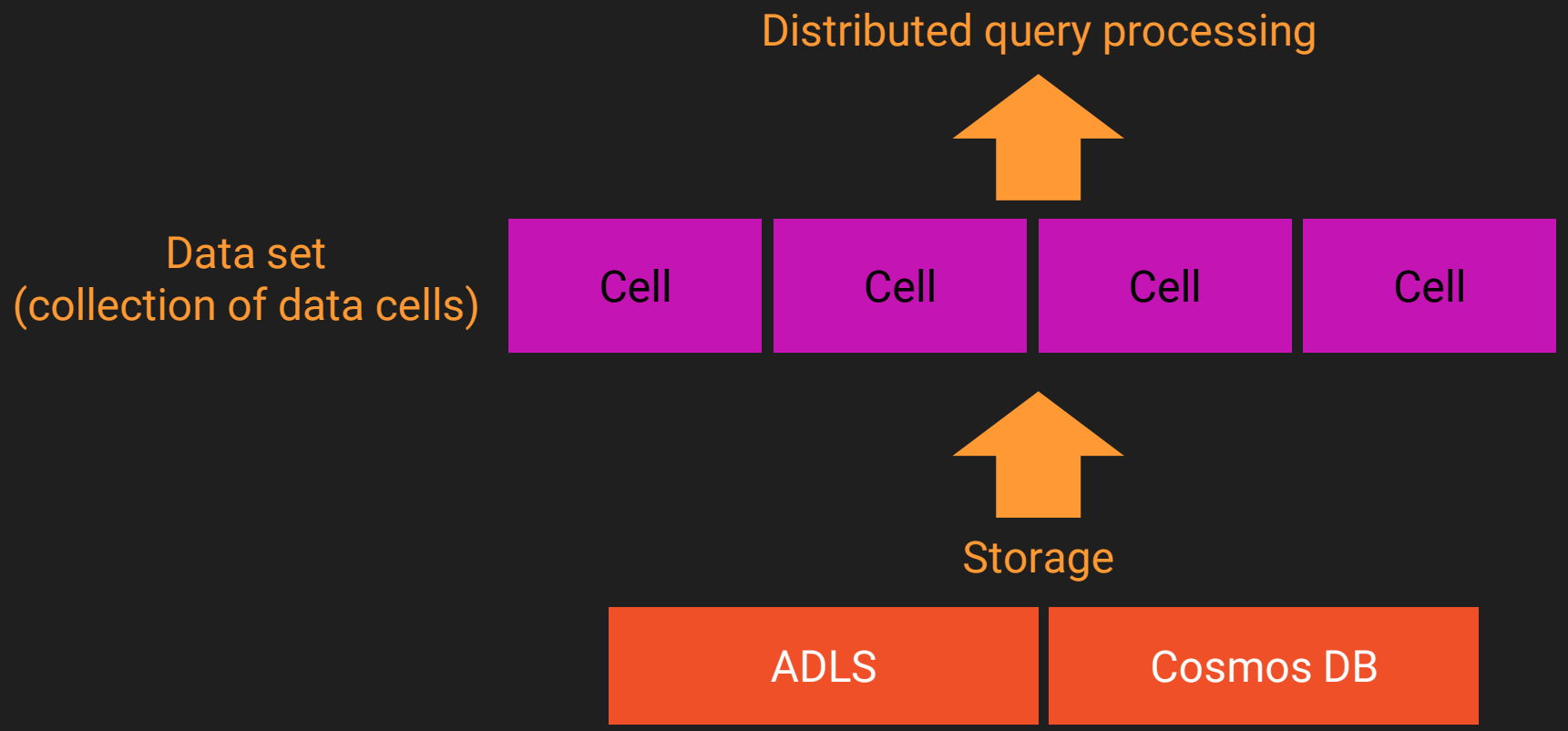
Polaris

Data abstraction



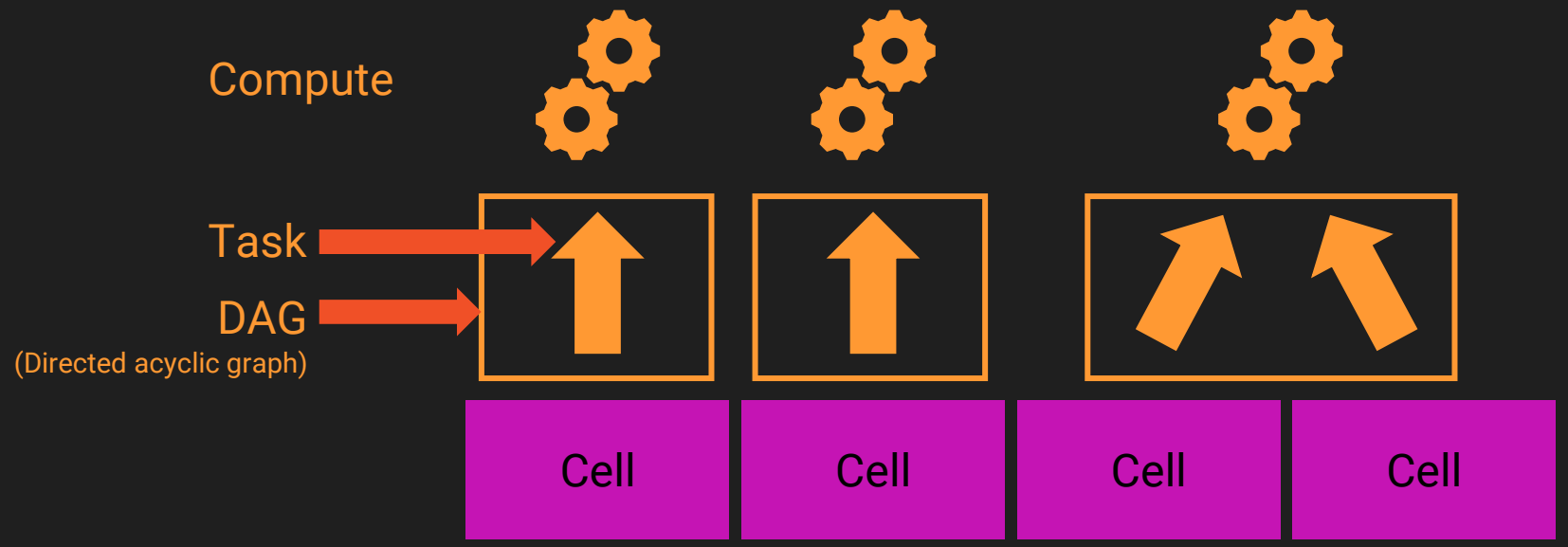
Polaris

Data abstraction



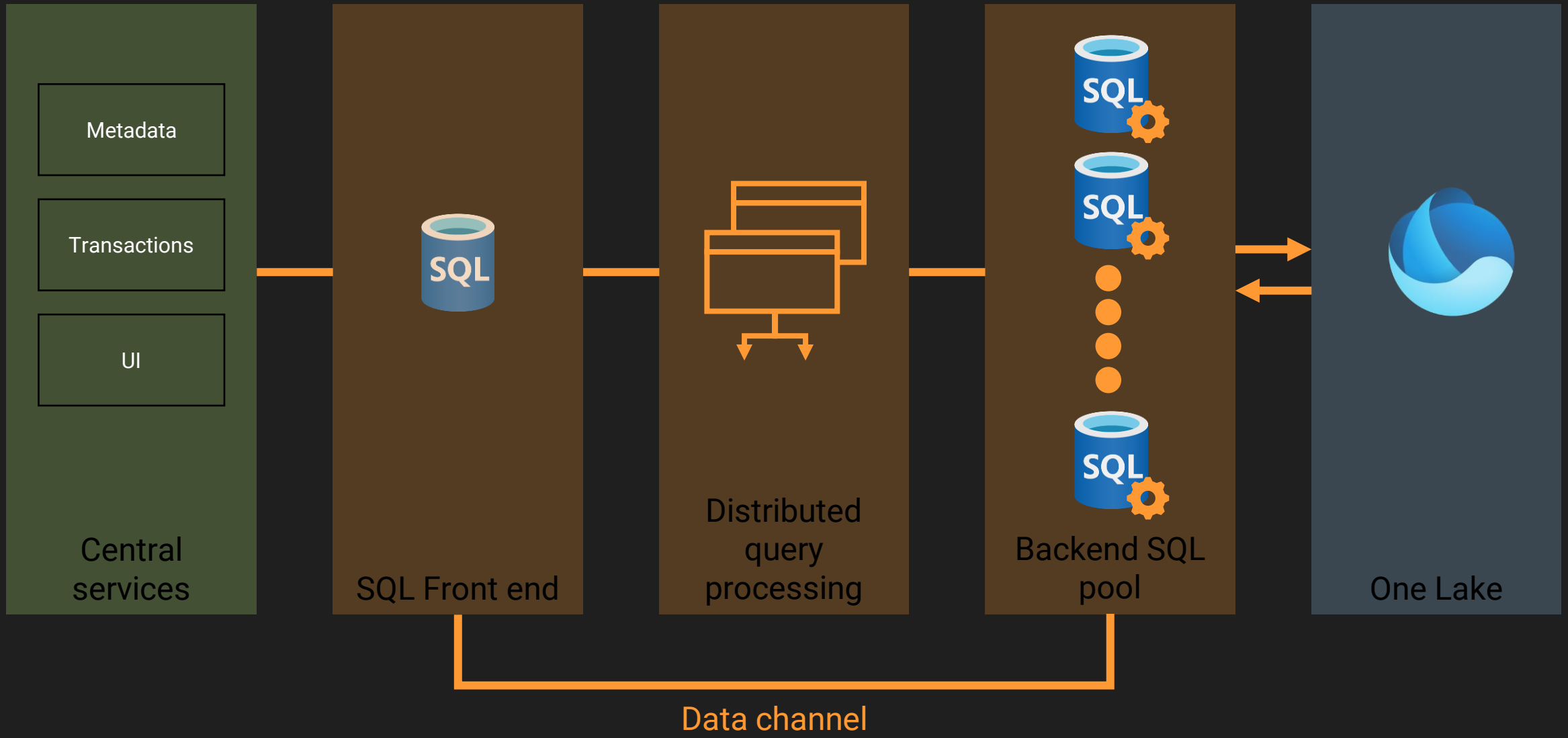
Polaris

Query processing and compute



Polaris

Service architecture



Polaris

Read more here

Whitepaper on Polairs:
https://www.vldb.org/pvldb/vol13/p3204-saborit.pdf

Broken down to a blogpost:
https://www.linkedin.com/pulse/microsoft-fabric-data-warehouse-polaris-engine-tiago-balabuch/

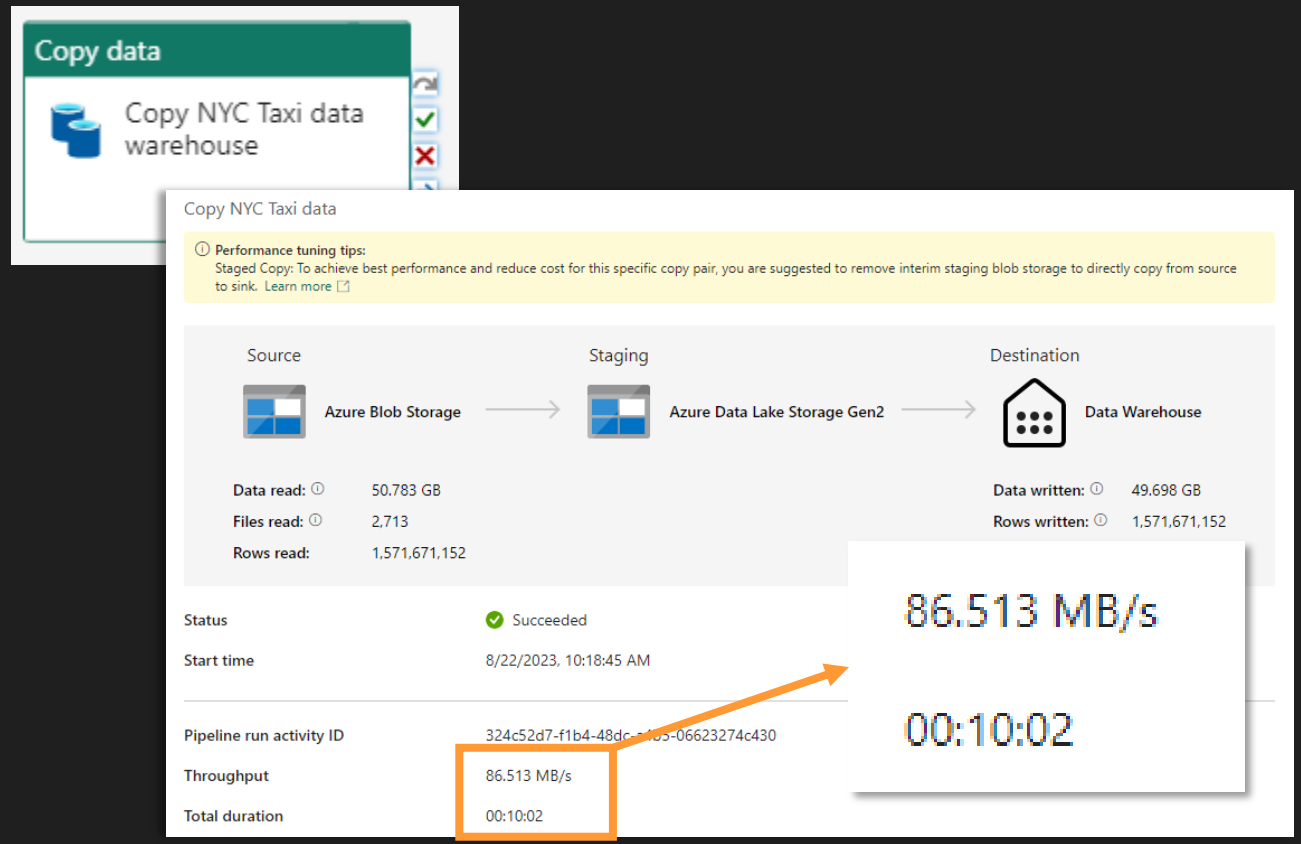
Serverless

Warehouse

Compute engine	Polaris distributed SQL Query engine

Performance load

Source data from opendatastorage
https://opendatastorage.blob.core.windows.net



DEMO

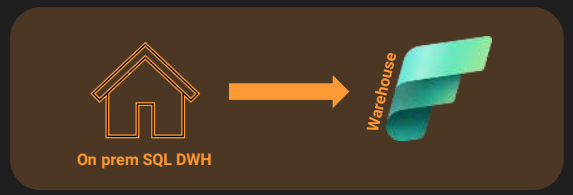
The choice and migration options

From current setup to Fabric

On prem SQL DWH

The choice and migration options

From current setup to Fabric



SSIS → Data Pipeline

Stored procedure → Stored procedure

SQL View → SQL View

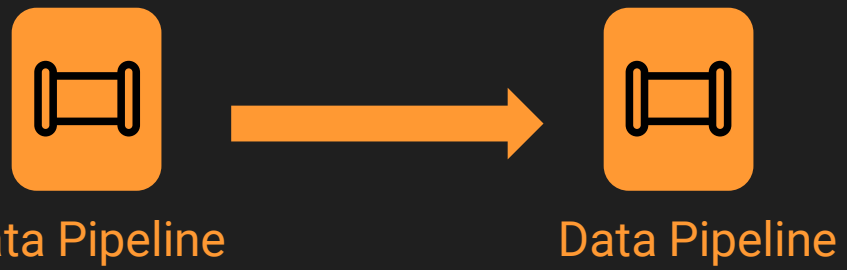
The choice and migration options

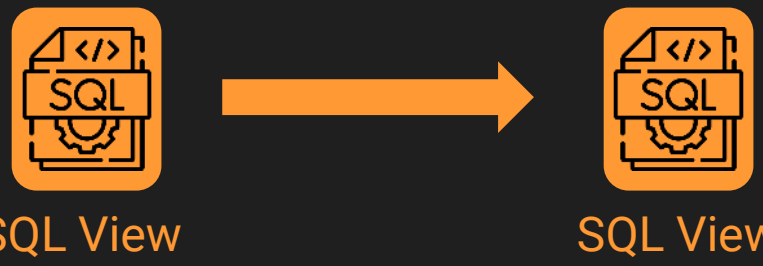
From current setup to Fabric

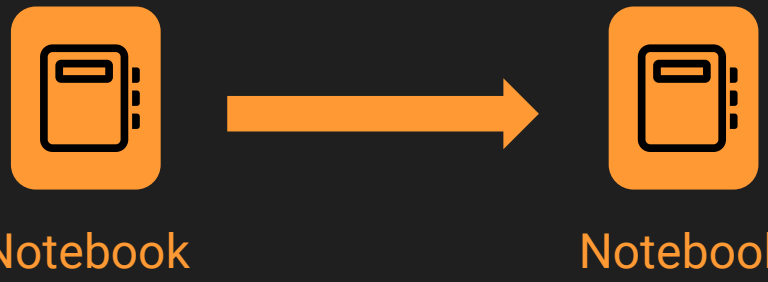
Synapse Serverless

The choice and migration options

From current setup to Fabric

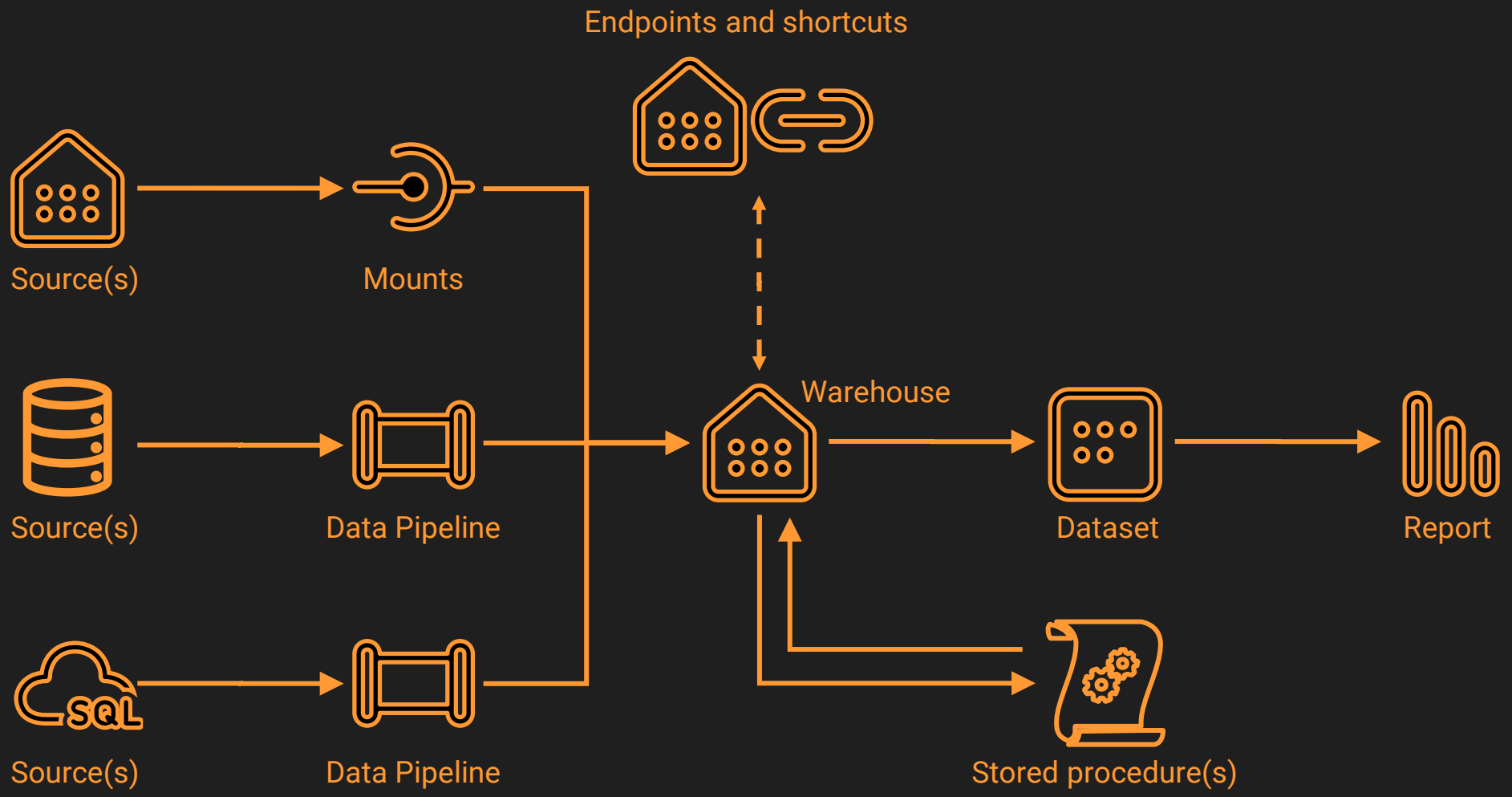






Fabric Warehouse

Architecture example



Scaling of Fabric

Trial

SKU	Capacity unit (CU)	Pay-as-you-go (hourly)	Pay-as-you-go (monthly)
F 2	2	$0.36	$262.80
F 4	4	$0.72	$525.60
F 8	8	$1.44	$1,051.20
F 16	16	$2.88	$2,102.40
F 32	32	$5.76	$4,204.80
F 64	64	$11.52	$8,409.60
F 128	128	$23.04	$16,819.20
F 256	256	$46.08	$33,638.40
F 512	512	$92.16	$67,276.80
F 1024	1024	$184.32	$134,553.60
F 2048	2048	$368.64	$269,107.20

Table 1: Pricing of Fabric capacity SKUs at US west 2

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