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Principal & Enterprise architect, Data & AI

Fellowmind



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<https://brianbonk.dk>



Microsoft

FastTrack Recognized
Solution Architect
Power BI
2022 >>



Microsoft

Certified Trainer

2018 >>



Normally a two
people
presentation



Mathias Halkjær

Principal Architect // Data & AI

<http://linkedin.com/in/mhalkjaer/>



Power BI & Synapse Analytics

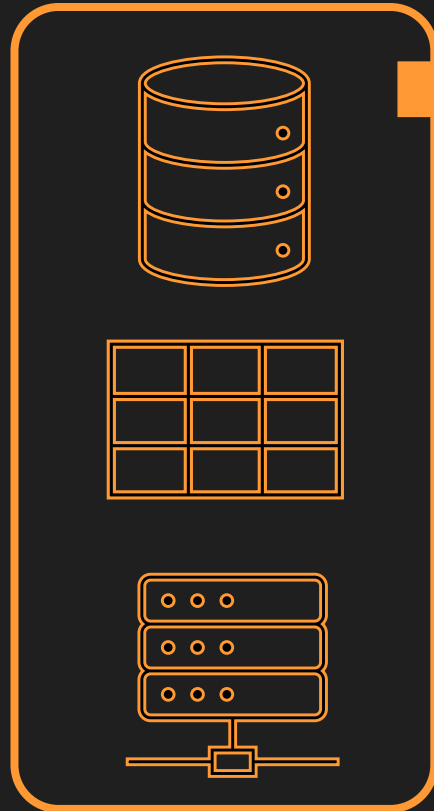
Better together

Power BI

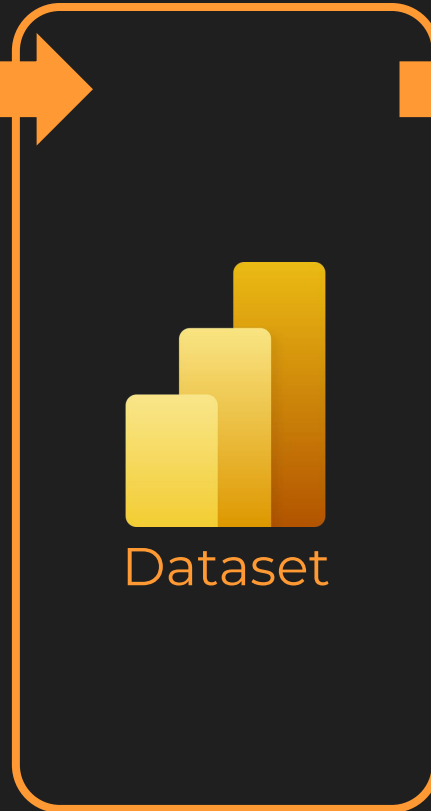
End-to-end



Sources



Model



Report



Share



Integration





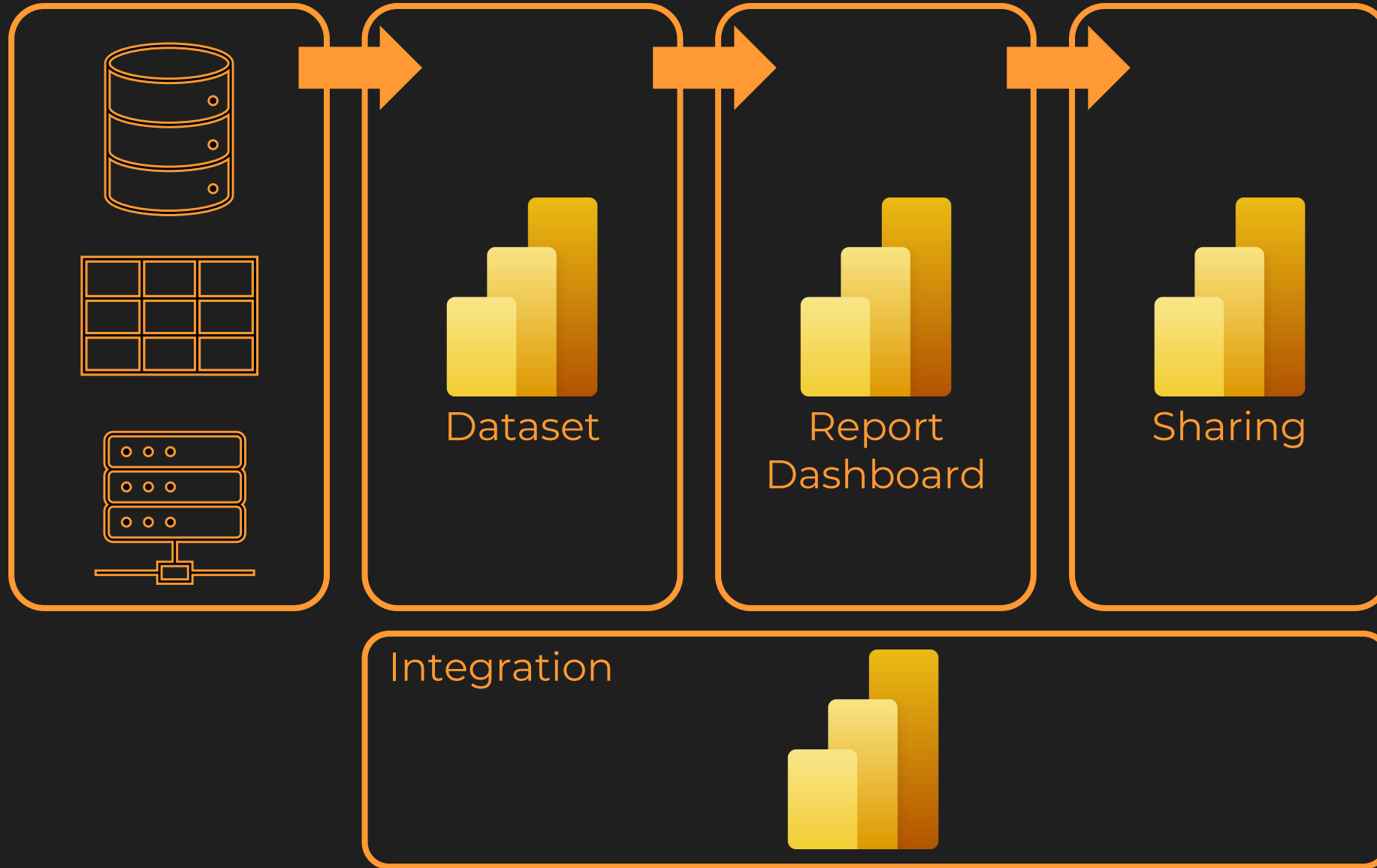
Missing
pieces in the
enterprise
setup

Sources

Model

Report

Share



Sources

Copy

Clean

Serve

Model

Report

Share



Integration



Sources

Copy

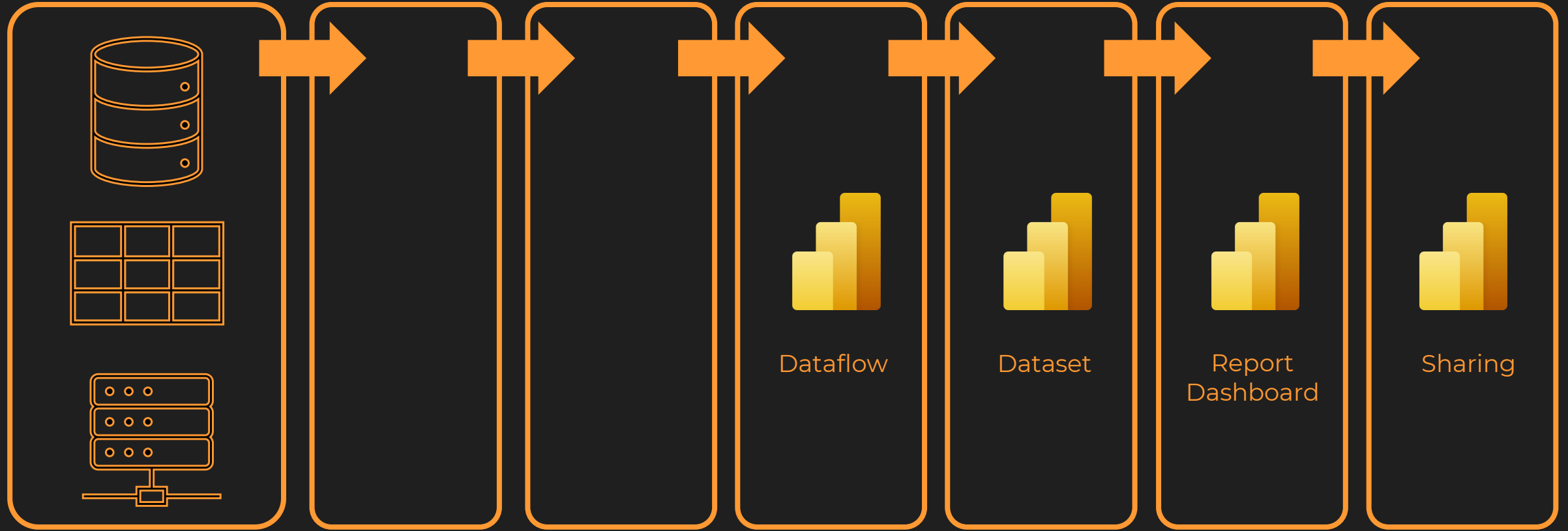
Clean

Serve

Model

Report

Share



Integration



Sources

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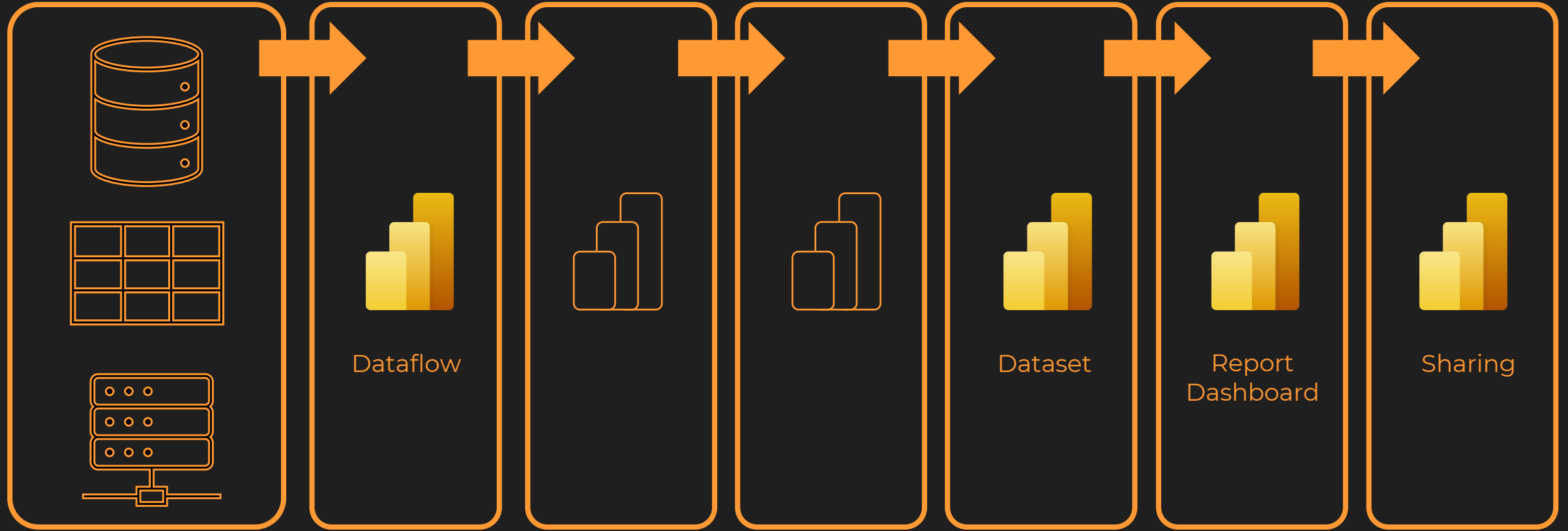
Clean

Serve

Model

Report

Share



Integration



Sources

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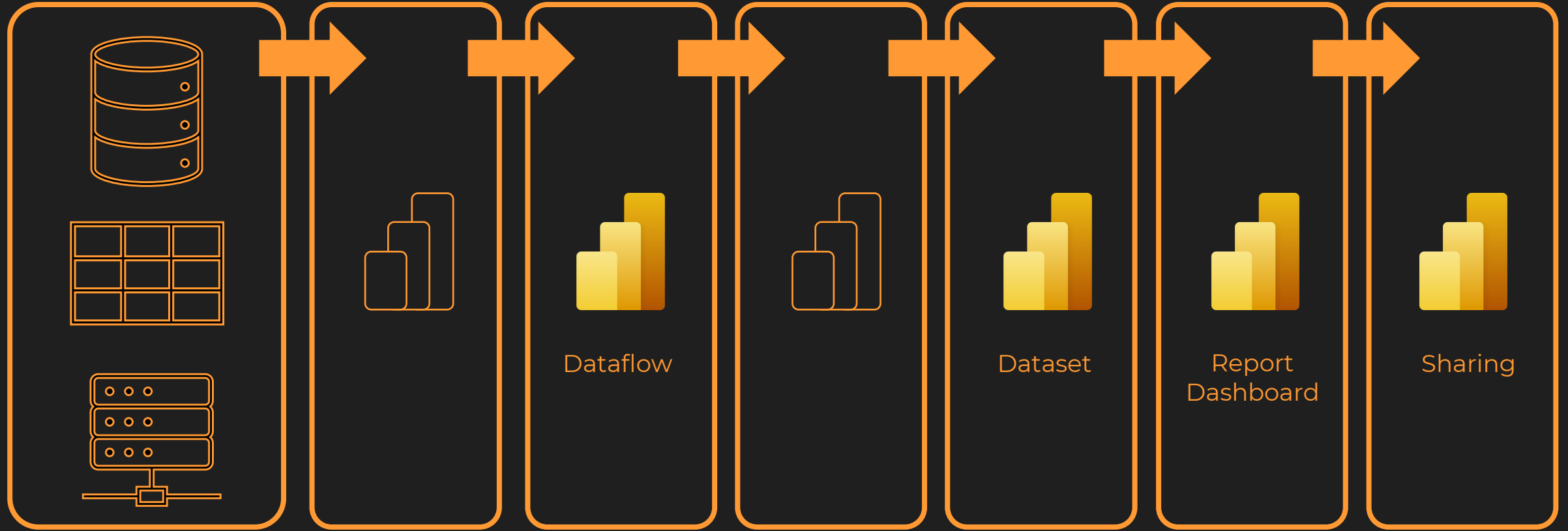
Clean

Serve

Model

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Integration



Sources

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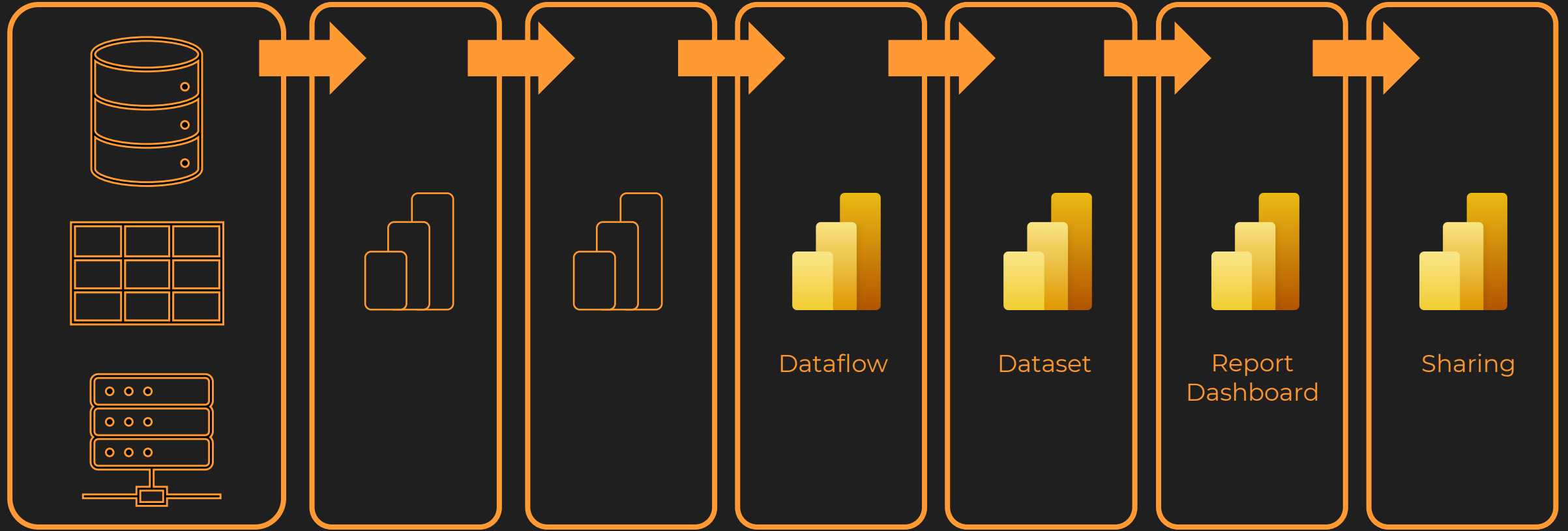
Clean

Serve

Model

Report

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Integration



Sources

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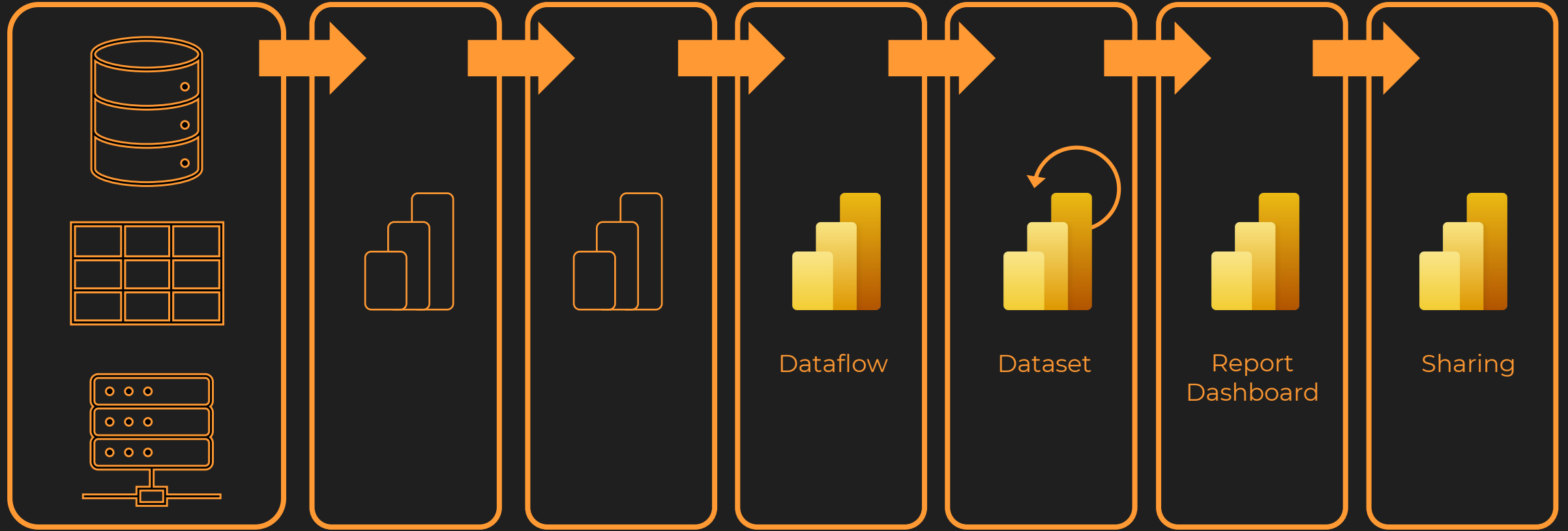
Clean

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Model

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Integration



Sources

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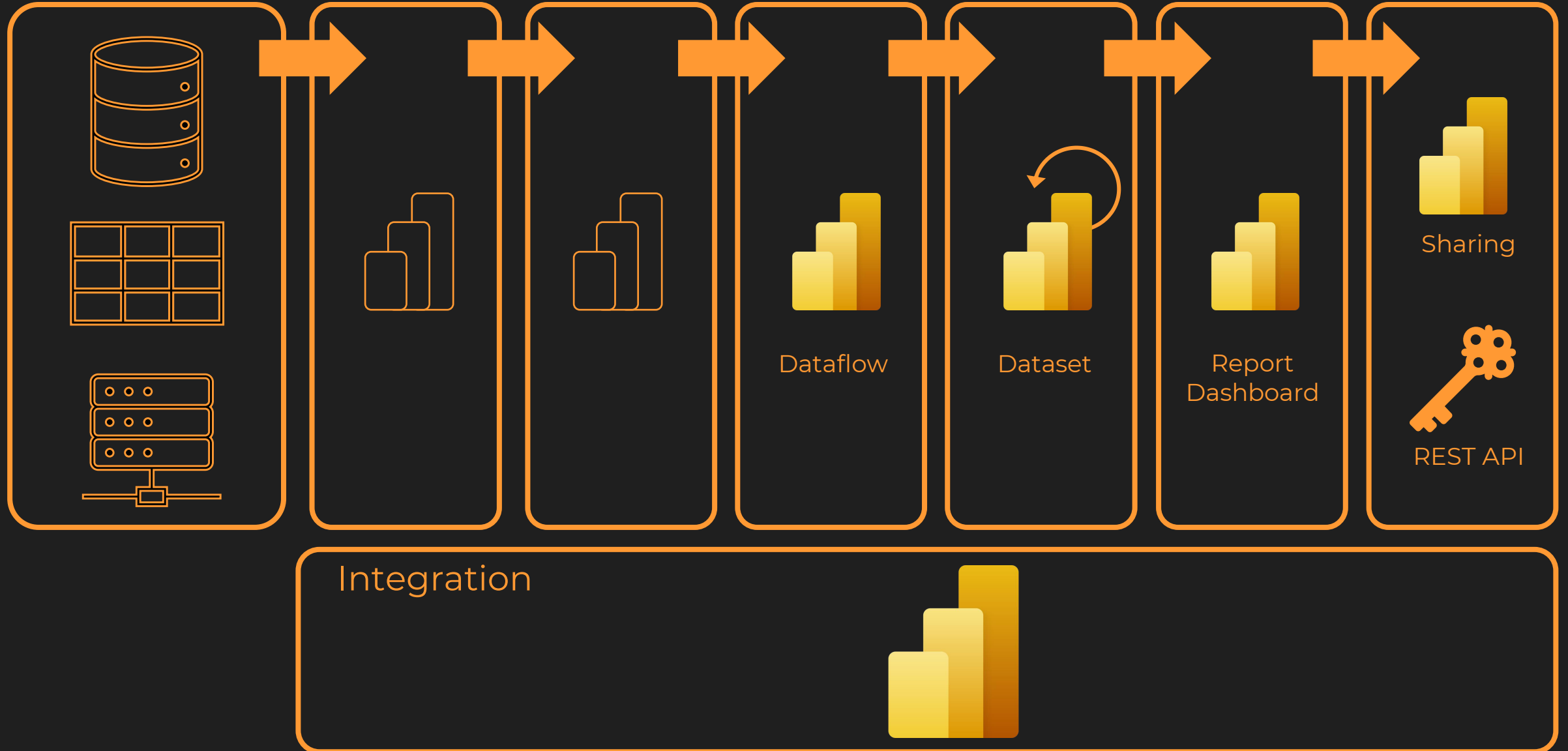
Clean

Serve

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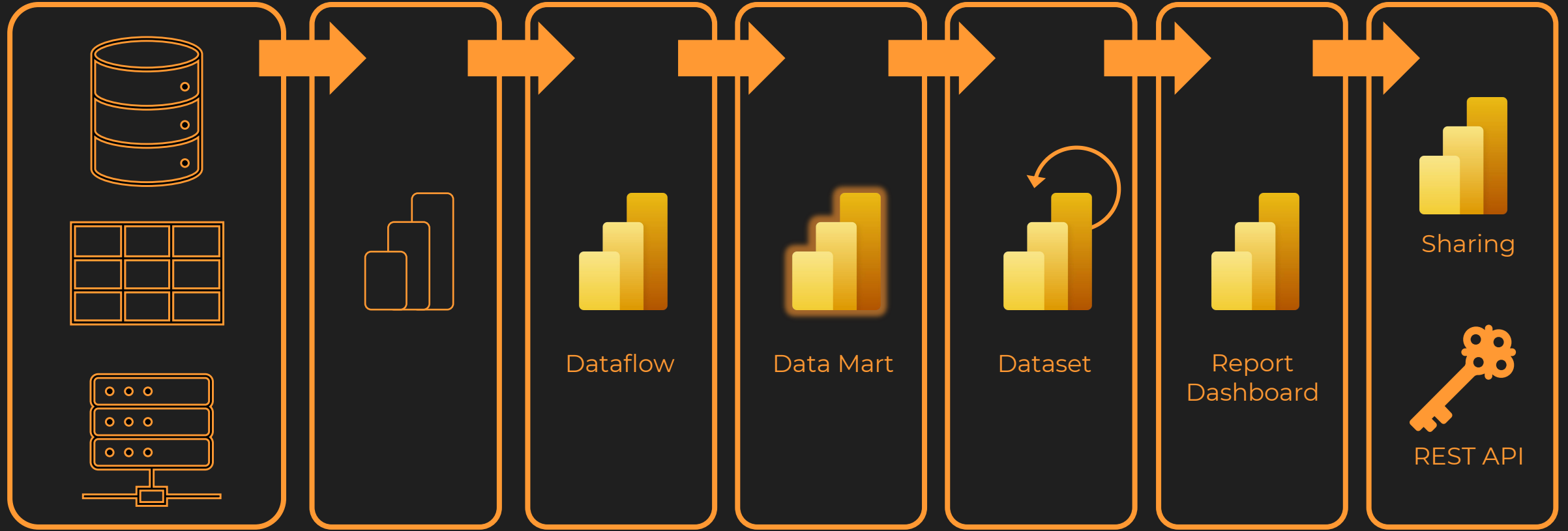
Clean

Serve

Model

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Integration



Sources



Copy



Data Mart



Dataflow



Clean



Data Mart



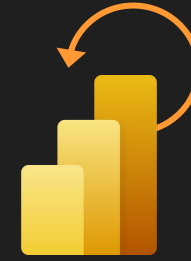
Serve



Data Mart



Model



Dataset



Report



Report
Dashboard



Share



Sharing



REST API

Integration



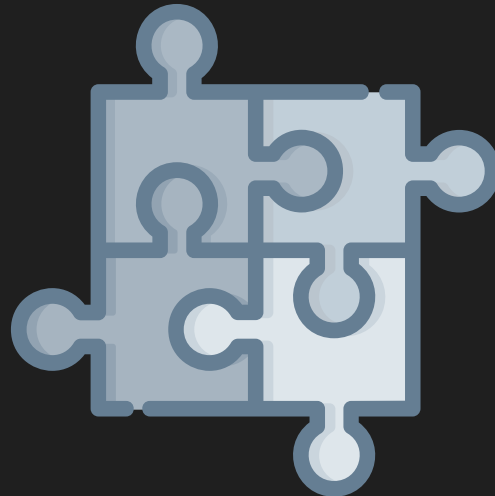


But we are
not there yet

Limitations with Power BI - today



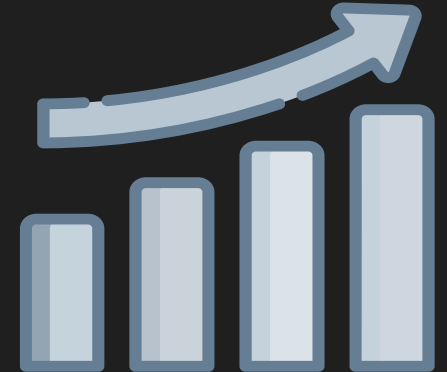
Transformation
layer not
accessible



Staging is
unmaterialized
and without
historic data



No logs



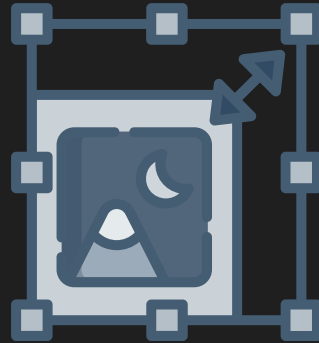
Really bad at
A LOT OF DATA

The marriage with Synapse Analytics



Time travel

Change tracking and
storage of historical data



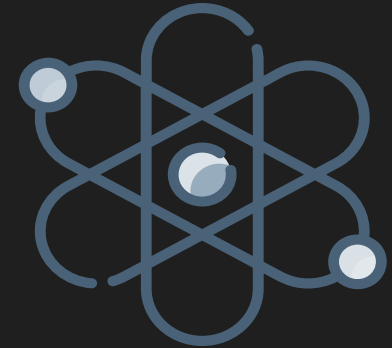
Huge amounts of data

Massive scale



Machine learning

OOTB Machine learning
capabilities



Multiple languages

Synapse leverages
multiple programming
languages like SQL,
Python, C#

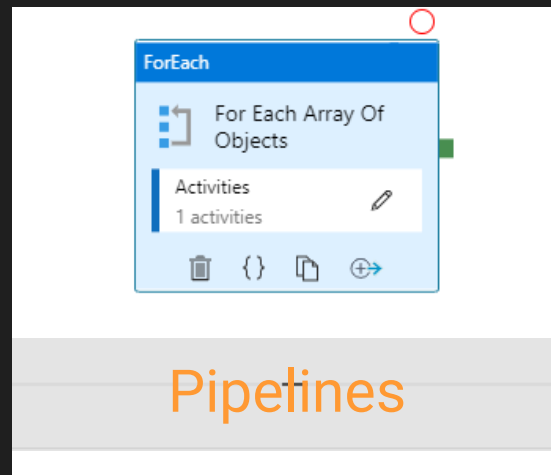
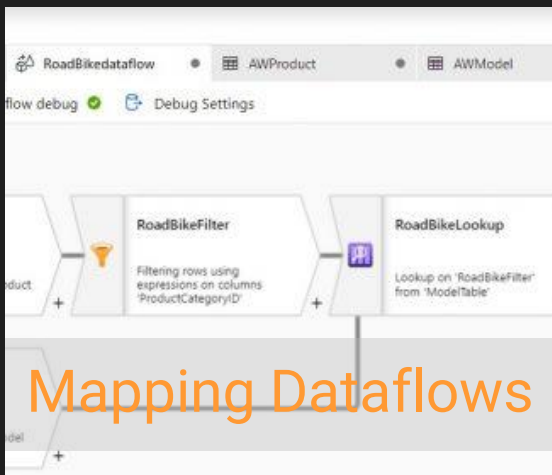
+ CI / CD and version control

Synapse Analytics

What is it



The Synapse Analytics toolbox



Synapse Analytics pricing



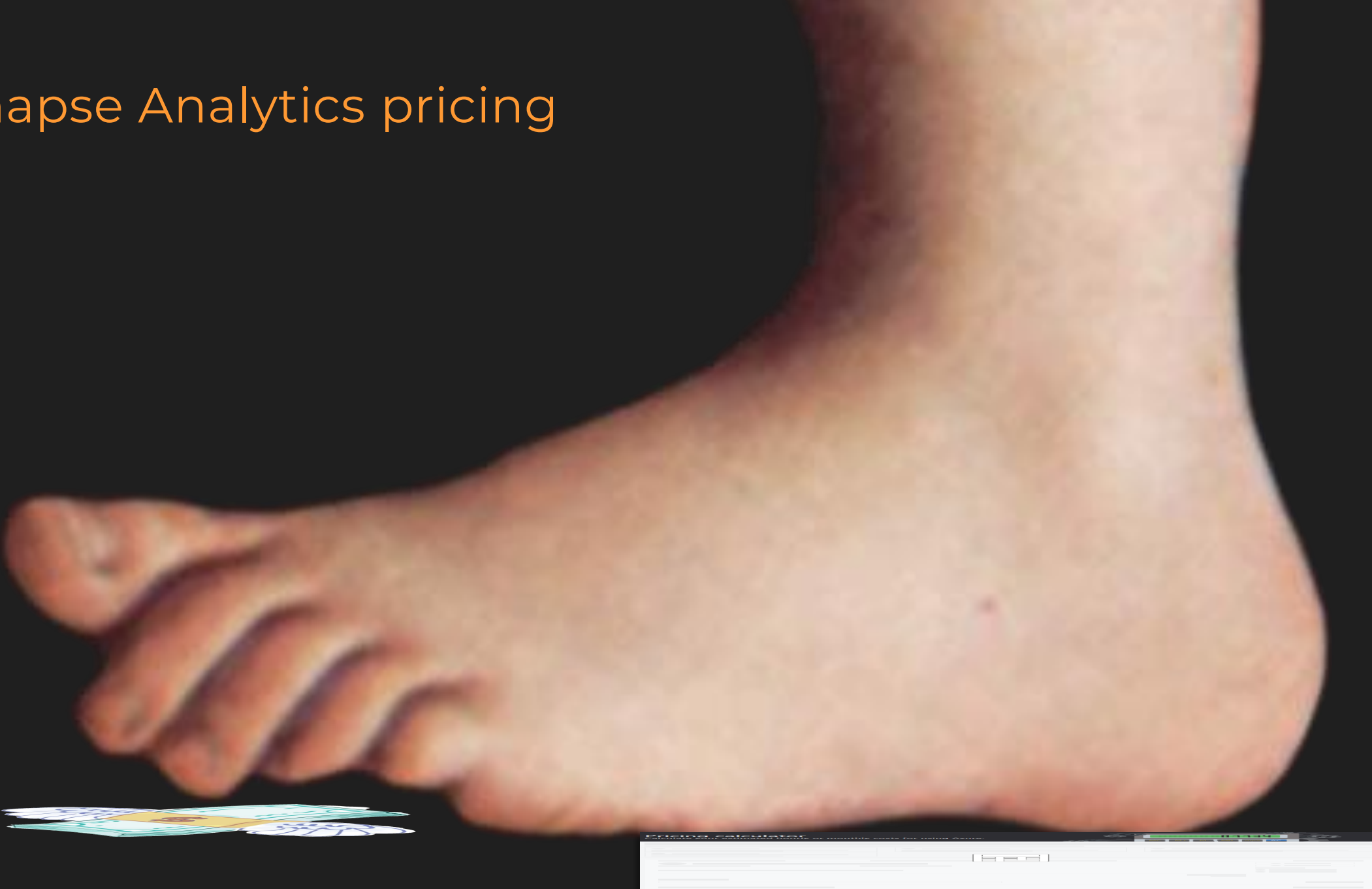
Pricing calculator

Calculate your estimated hourly or monthly costs for using Azure.



> \$18,000/month

Synapse Analytics pricing



Synapse Analytics pricing

0\$ as initial cost

Serverless SQL 5\$/TB

Data Lake 0.0018\$ / GB

Dedicated SQL pool starts at 1000\$/month

Synapse
Analytics

End-to-end



Sources

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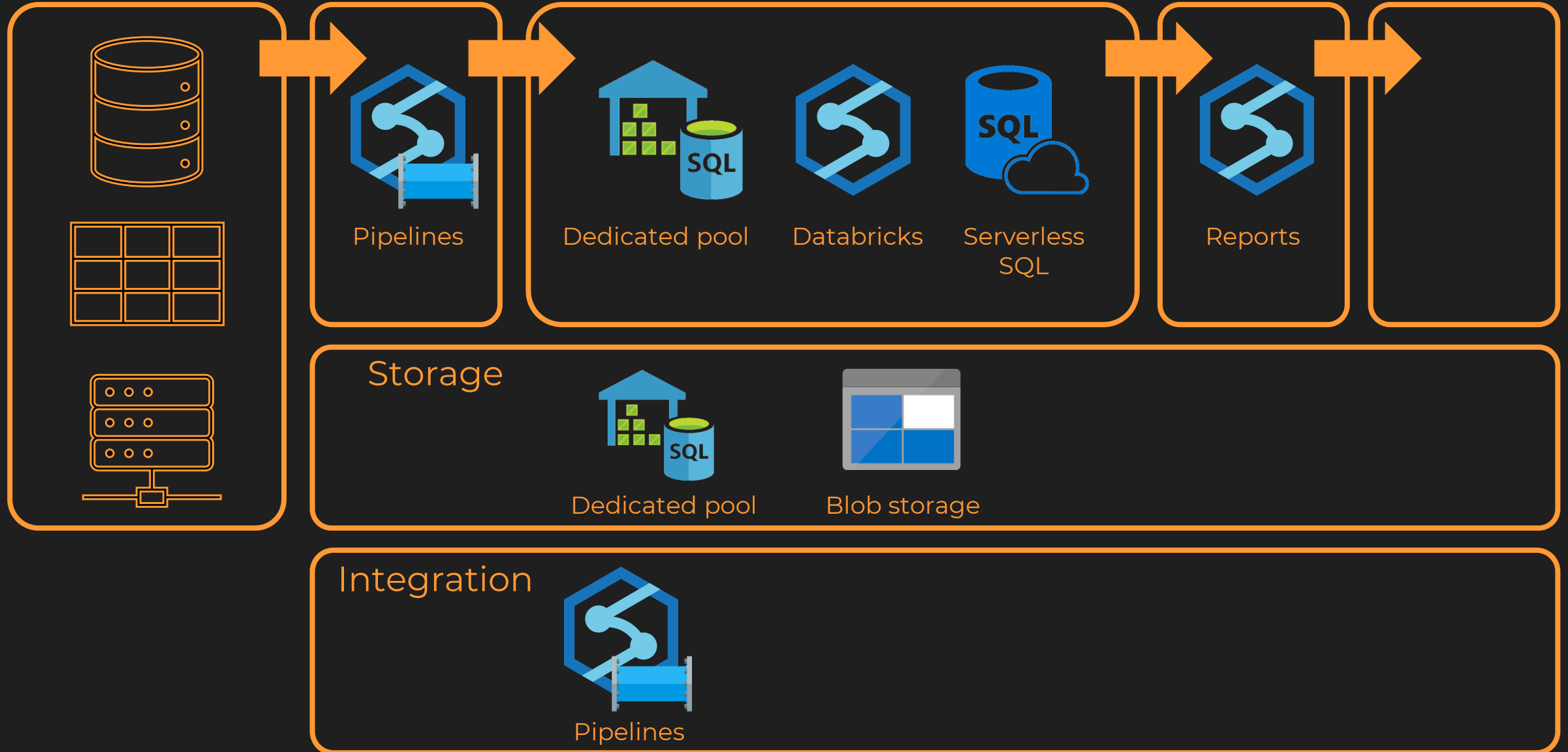
Clean

Serve

Model

Report

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A 3D rendered image featuring a bright orange L-shaped block. The block is positioned diagonally across the frame. On the horizontal base of the 'L', the word "DEMO" is printed in a bold, white, sans-serif font. The block sits on a surface that is a blurred computer keyboard, with various keys visible in the background. The lighting is soft, creating subtle shadows and highlights on the block's surfaces. The overall composition is clean and modern, typical of a digital product demonstration.

DEMO

Sources

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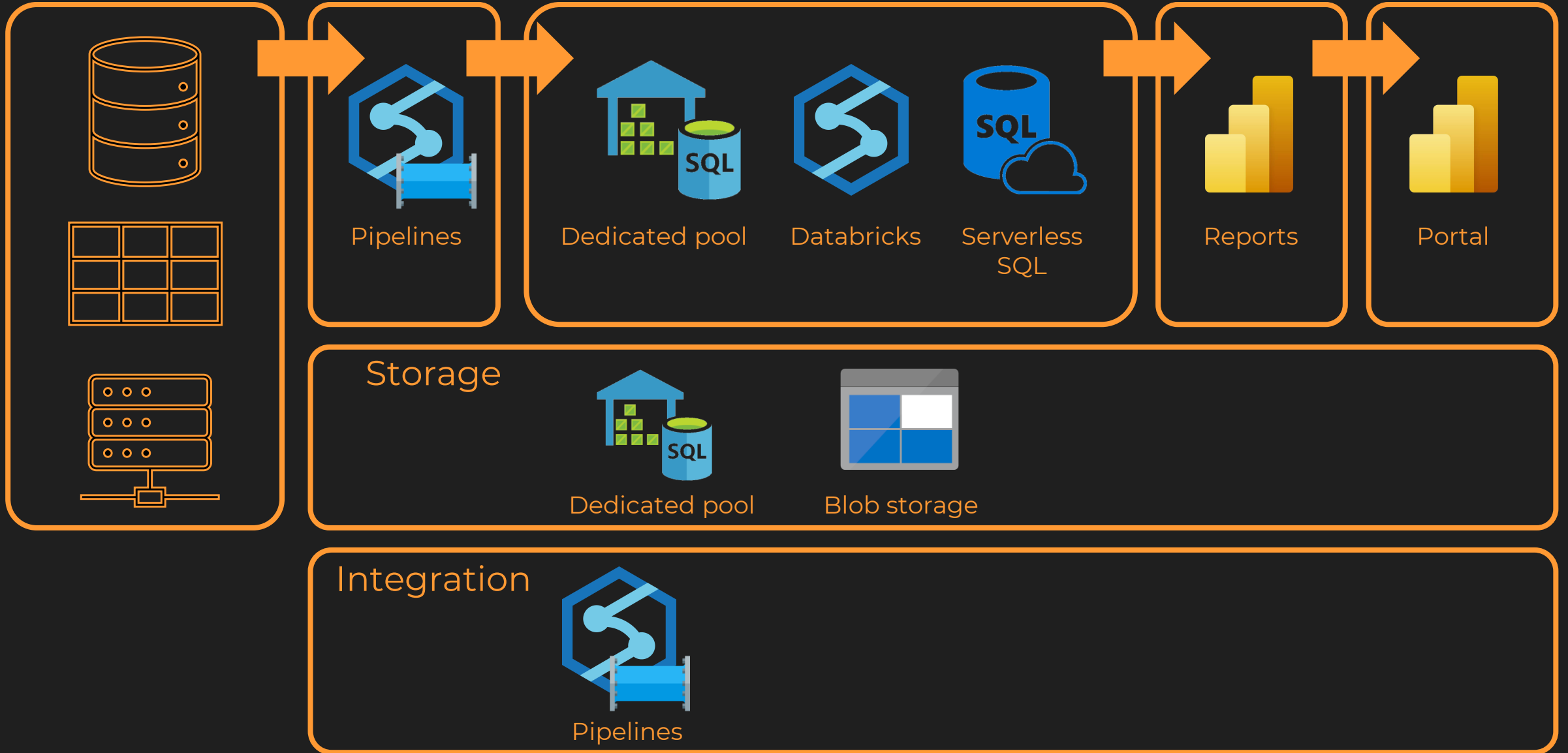
Clean

Serve

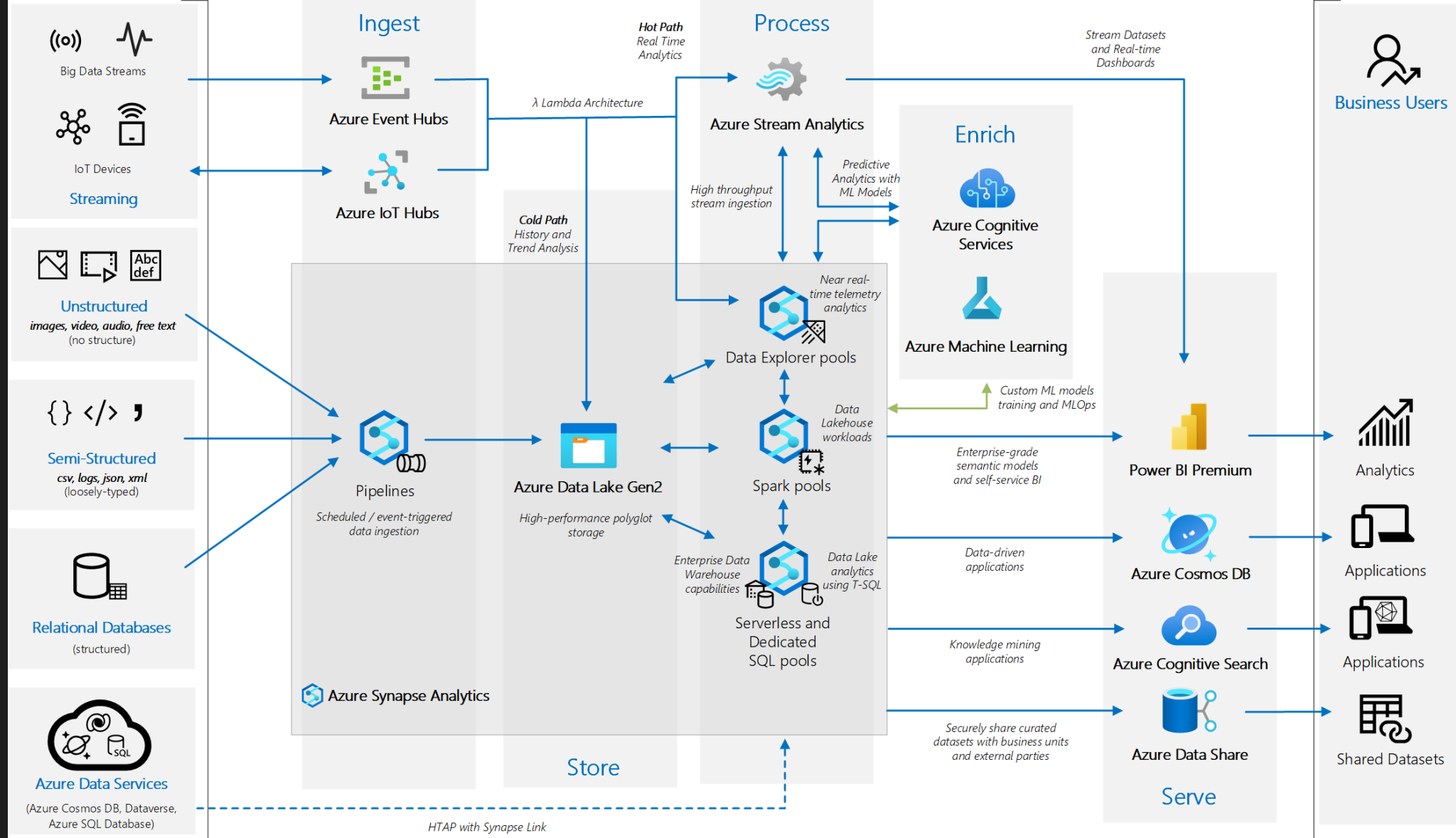
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Microsoft



Discover & Govern



Platform



Azure Active Directory



Cost Management



Azure Key Vault



Azure Monitor



Microsoft Defender for Cloud



Azure DevOps & GitHub



Azure Policy



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