



Microsoft Build





Extend your analytics applications with Microsoft Fabric

Dipti Borkar – VP & GM, Strategic ISVs & App Dev
Teddy Bercovitz – Principal Lead Product Manager



Agenda

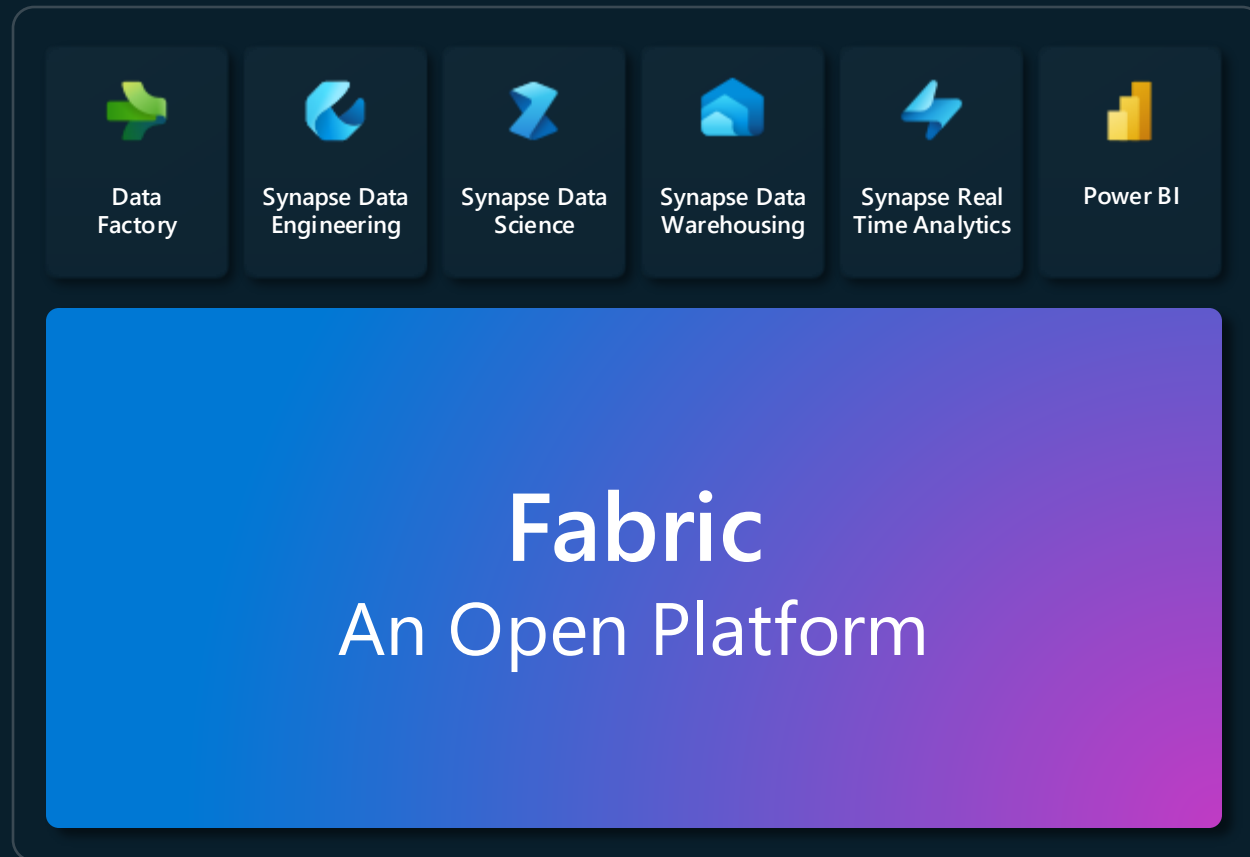
- 1 Integration Paths

- 2 Interop with OneLake

- 3 Introducing the Fabric Workload Development Kit

- 4 Sneak Peak – New Partner Workloads in Fabric

The Power of the Platform



- ✓ Open Formats
- ✓ Open Interfaces and APIs
- ✓ Open Platform



Integrating with Microsoft Fabric

Interop with Fabric
OneLake

Develop Apps
on Fabric

Build a Fabric
Workload

Integrating with Microsoft Fabric

**Interop with Fabric
OneLake**

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**Build a Fabric
Workload**

Top approaches of integrating with OneLake



**Fabric Data
Factory**



**OneLake
APIs**



**Multi-Cloud
Shortcuts**



**Data
Sharing**



**Database
Mirroring**

Top approaches of integrating with OneLake



Fabric Data
Factory



OneLake
APIs



Multi-Cloud
Shortcuts



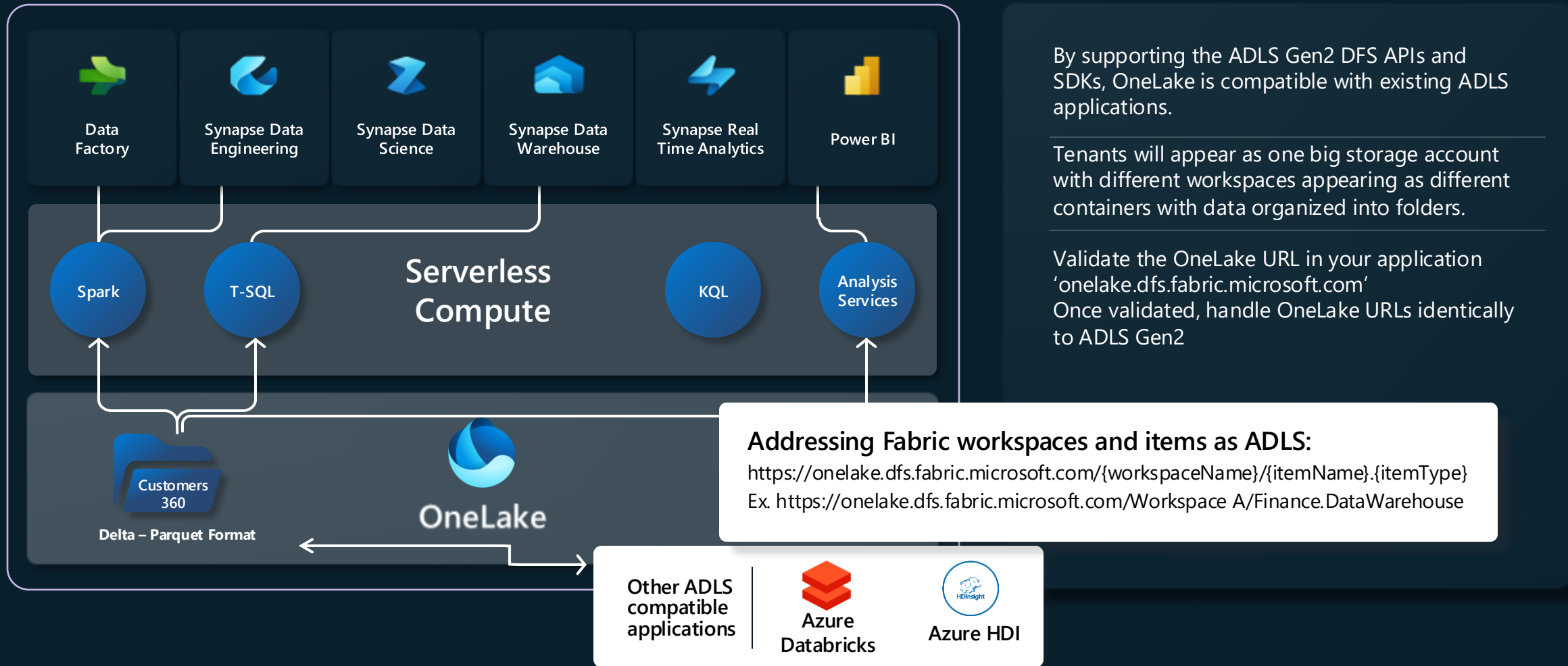
Data
Sharing



Database
Mirroring

Open Access to data in OneLake

No lock-in with industry standard APIs and open file formats



Top approaches of integrating with OneLake



Fabric Data
Factory



OneLake
APIs



Multi-Cloud
Shortcuts

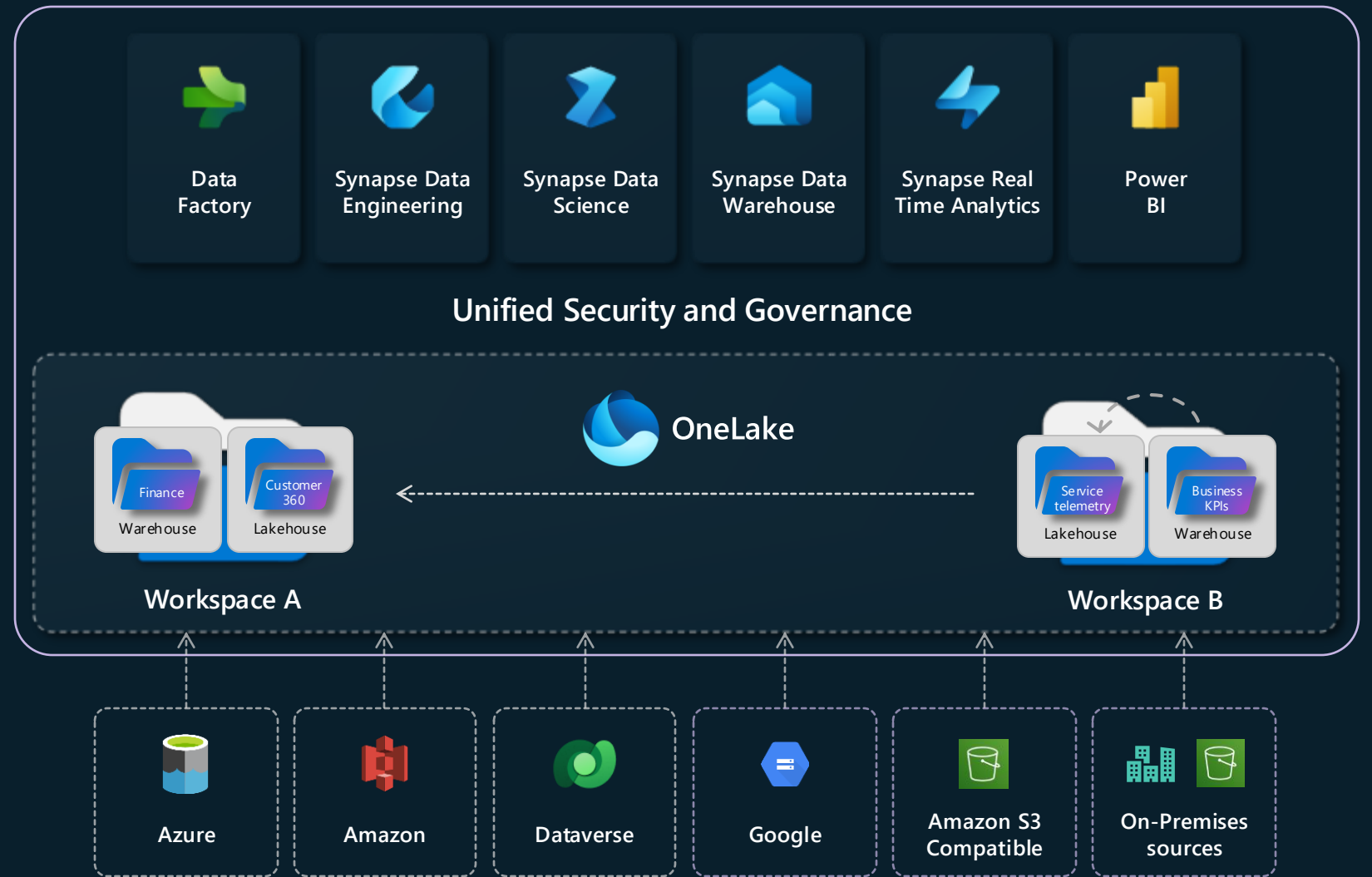


Data
Sharing



Database
Mirroring

Multi-Cloud Shortcuts



Shortcuts to On-Premise Sources now in Public Preview

OneLake Shortcut API Example

POST

`https://api.fabric.microsoft.com/v1/workspaces/{workspaceId}/items/{itemId}/shortcuts`

```
{  
  
  "path": "Files/landingZone", //path to shortcut parent directory  
  
  "name": "Contoso_Products ", //shortcut directory name  
  
  "target": {  
    "adlsGen2": {  
      "location": "https://contosoadlsaccount.dfs.core.windows.net",  
                  //ADLS Gen2 account endpoint  
  
      "subpath": "/mycontainer/data/ProductsLatest",  
                  //path to target directory (including container)  
  
      "connectionId": "91324db9-8dc4-4730-a1e5-bafabf1fb91e"  
                      //cloud connection ID for the ADLS Gen2 account  
    }  
  }  
}
```

Amazon S3 compatible shortcuts

Now available for cloud sources

Amazon S3 is the most supported API for Distributed File systems

Cloudflare	Clouddian	Dell	Hitachi	IBM	MinIO
NetApp	Oracle	Pure Storage	Qumulo	Scality	and many more

Top approaches of integrating with OneLake



Fabric Data
Factory



OneLake
APIs



Multi-Cloud
Shortcuts



Data
Sharing

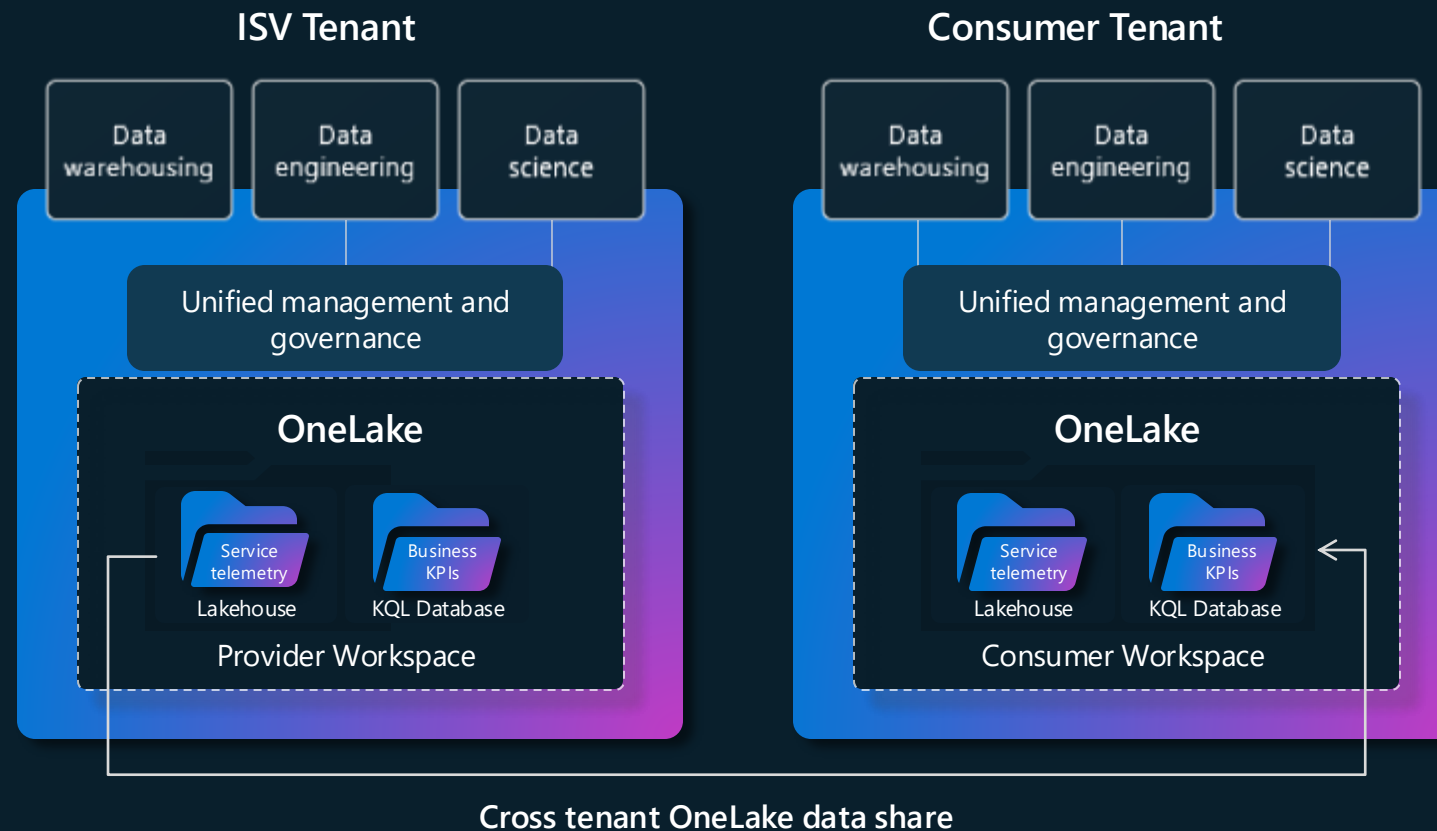


Database
Mirroring

Fabric External Data Sharing

Public Preview

No data movement or duplication



Fabric External Data Sharing

No data movement or duplication



Expose data from existing OneLake items to users in other tenants



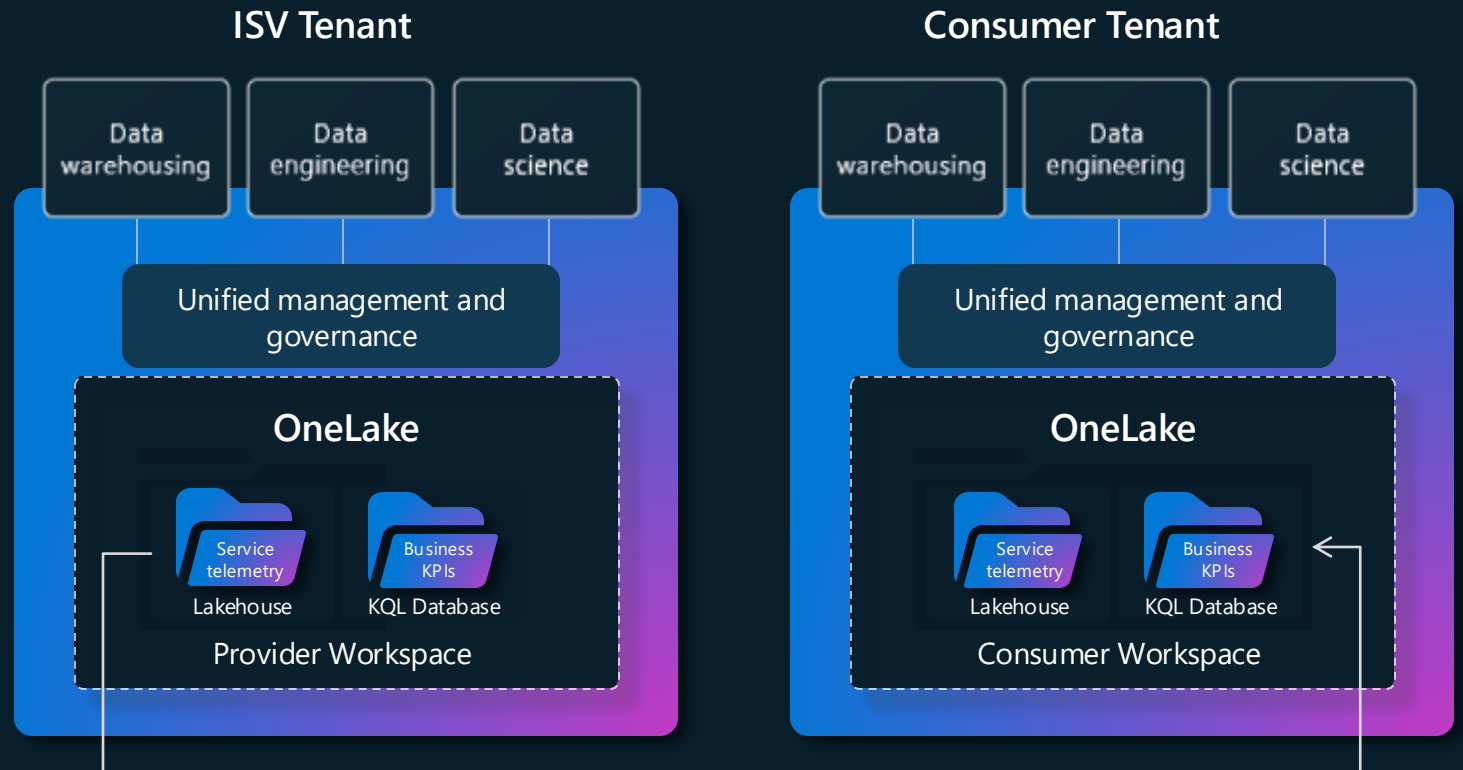
The incoming data can be consumed by any Fabric workload



Tenant admins control who within the organization may create shares







Shares can be created and managed via the Fabric portal or Fabric APIs (coming soon)



Cross tenant OneLake data share

Data Provider





 Create deployment pipeline  Create app  Manage access  Workspace settings



Name	Type	Task	Owner	Refreshed	Next refresh	Endorsement	Sensitivity	Inclu
Sales Report Preparation	Notebook		Alice Contoso	—	—	—	General	
SalesData	Lakehouse		Alice Contoso	—	—	—	General	
SalesData	Semantic model (...)		Data Provider	11/22/23, 9:47:13 PM	N/A	—	General	
SalesData	SQL analytics end...		Data Provider	—	N/A	—	General	



Data Provider





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Data Provider





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- Home
- Create
- Browse
- OneLake data hub
- Monitoring hub
- Workspaces
- Data Provider
- SalesData
- ...

Data Provider

Create deployment pipeline Create app Manage access Workspace settings

+ New Upload

Filter by keyword Filter

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Data Provider





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Data Provider



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Integrating with Microsoft Fabric

**Interop with Fabric
OneLake**

**Develop Apps
on Fabric**

**Build a Fabric
Workload**

Interop with Fabric

Develop Apps on Fabric

Build a Fabric Workload

ISV Experience



Fabric Workload APIs (SQL, KQL...)



Data
Factory



Synapse Data
Engineering



Synapse Data
Science



Synapse Data
Warehousing



Synapse Real
Time Analytics



Power BI

Fabric
An Open Platform

Organizations can integrate their experiences using Fabric Workload APIs

Expanded Partnership



Microsoft Fabric



Adobe

Adobe Experience Platform accesses data in OneLake via federated queries to Microsoft Fabric to create or enrich audiences for engagement.

Integrating with Microsoft Fabric

Interop with Fabric
OneLake

Develop Apps
on Fabric

Build a Fabric
Workload



Microsoft
Fabric



Your Logo
Here

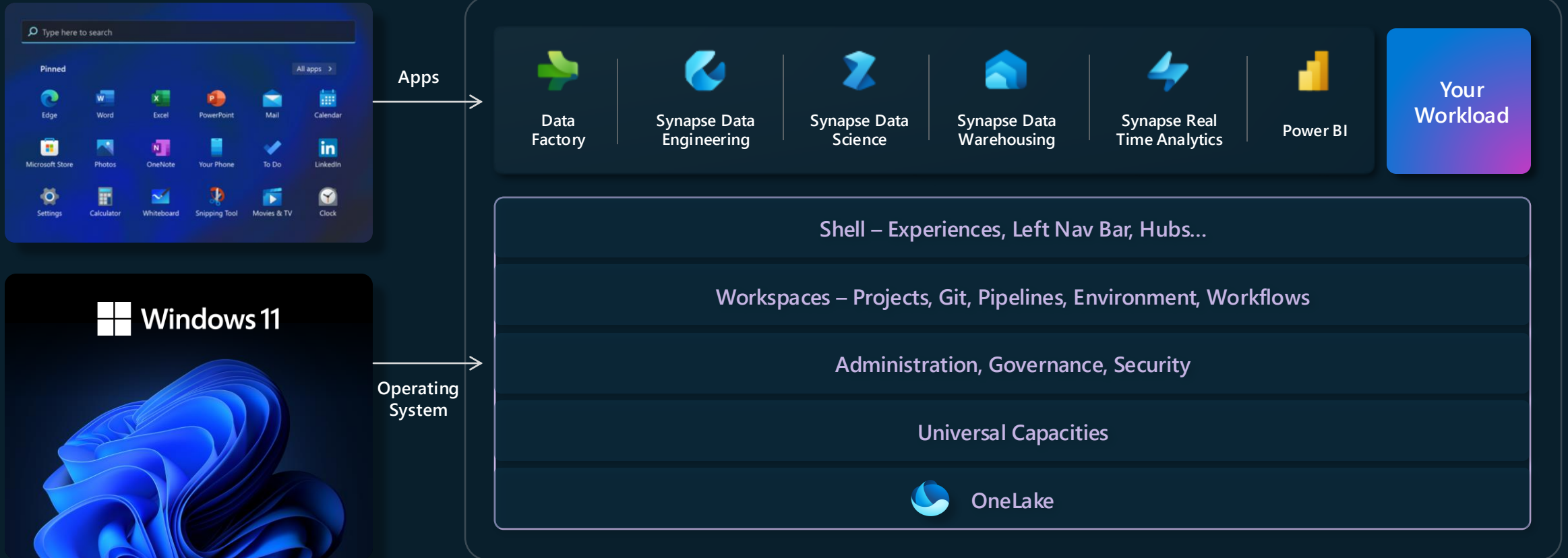
Partner ISV
Workloads



More Capabilities for
our customers & a
stronger ecosystem

Drive more value together

Create your own Fabric Workload



Public Preview

Microsoft Fabric Workload Development kit

Expand, integrate, and scale your applications natively in Fabric and its ecosystem



Accelerated
innovation



Consistent
experiences



Seamless
development



Effortless
integration

Introducing Workload Hub



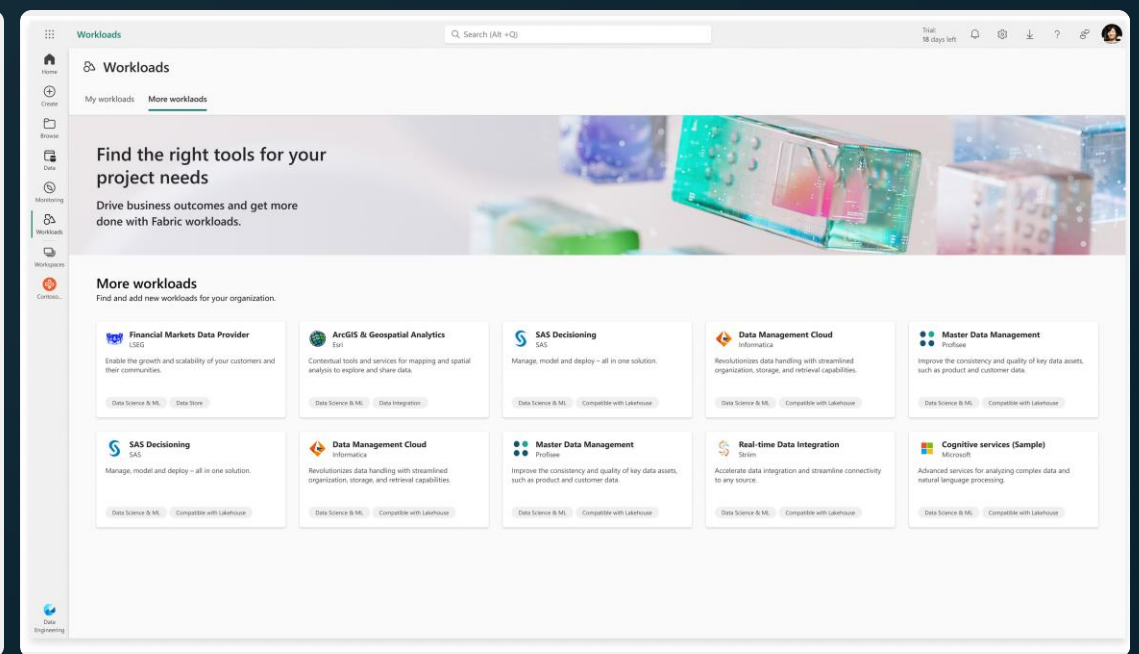
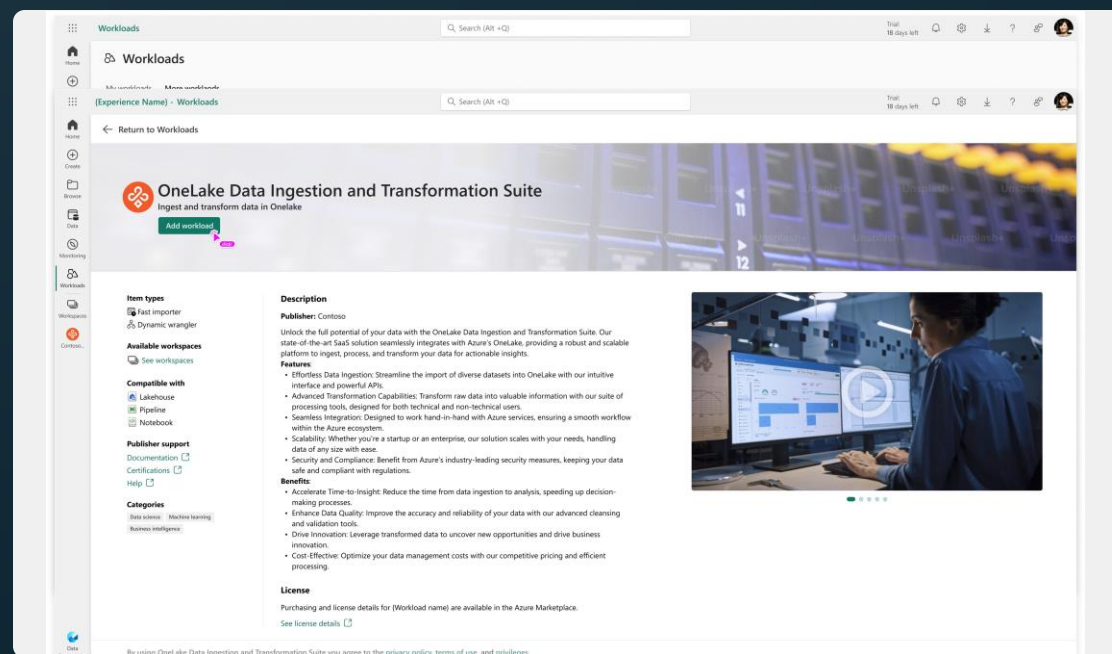
Workload Hub: Where new capabilities enter Fabric



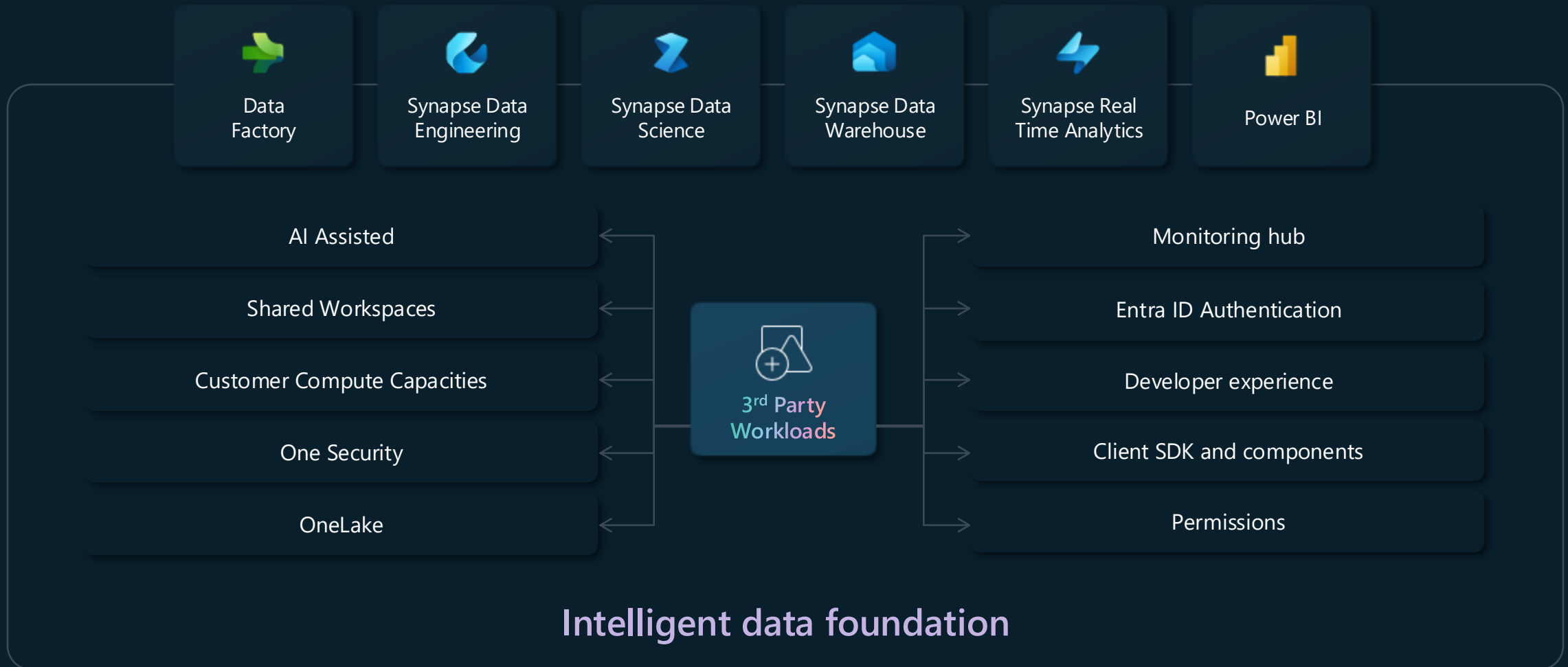
Allows users to start using your product within the Fabric environment



Seamless integration to improve workflow and productivity

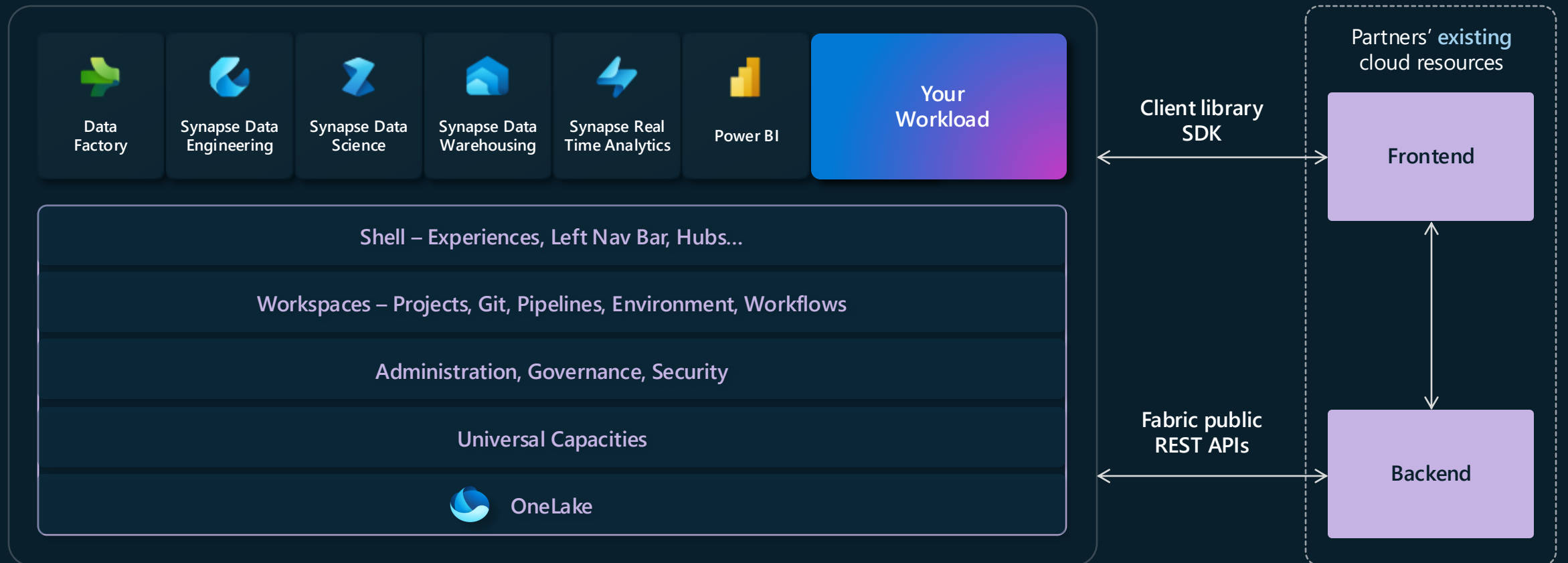


Leverage Fabric workload services

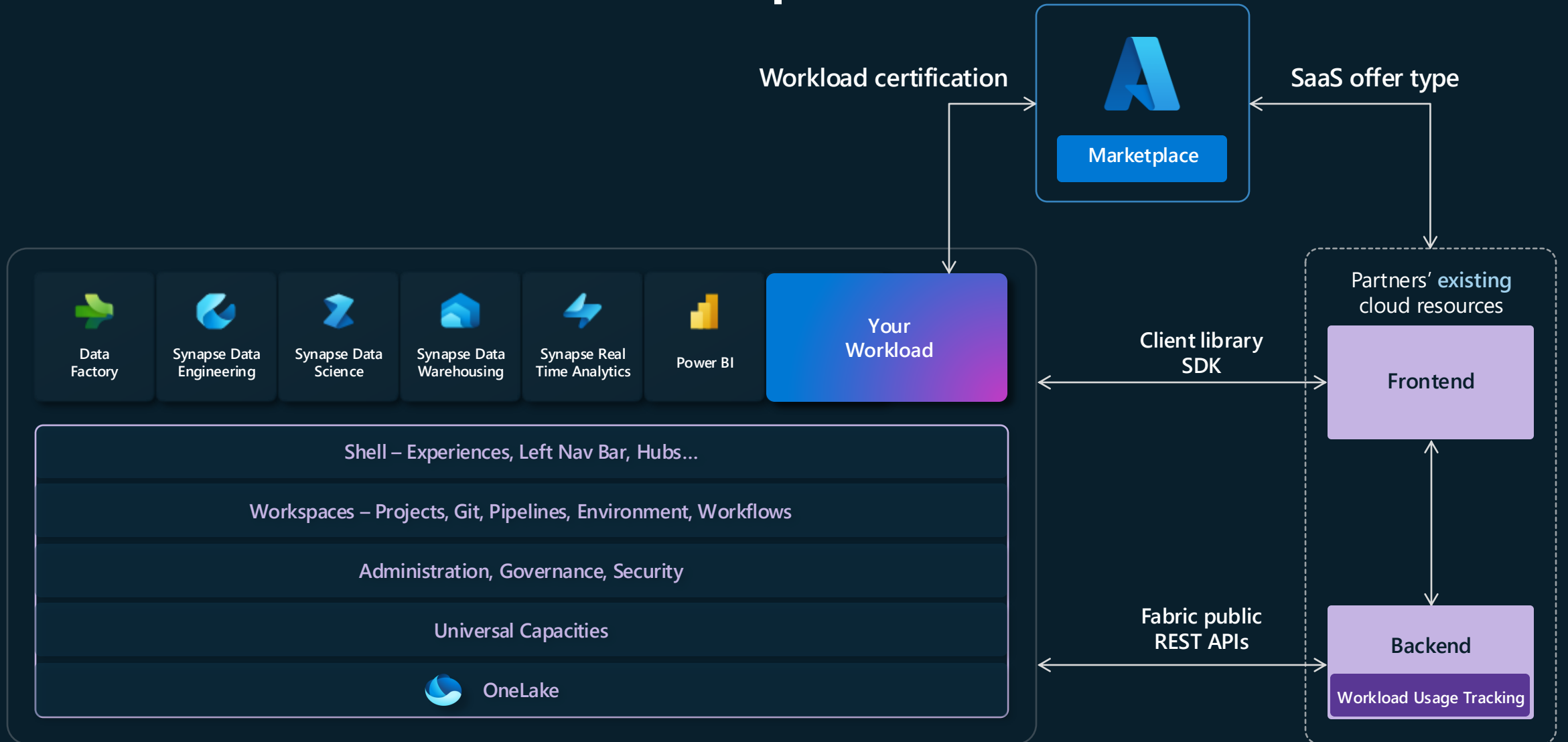


Native Fabric workload experience

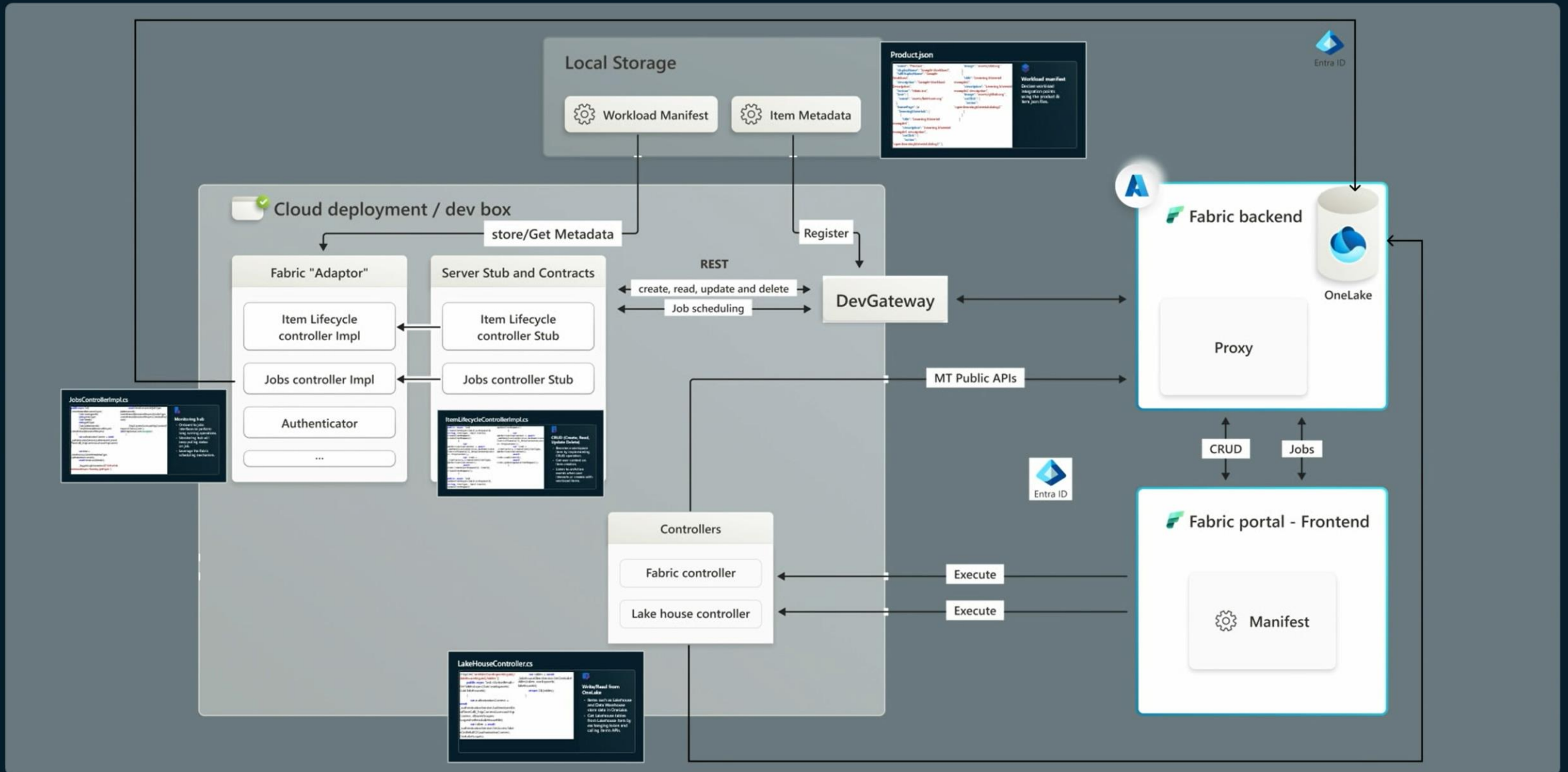
Unmatched integration flexibility



Monetize via Azure Marketplace



Architecture



3 Steps to release a Fabric workload



Develop locally

- Use the Workload Developer Kit.
- Interface with Fabric REST APIs.



Test with Fabric

- Upload the manifest to the Fabric tenant.

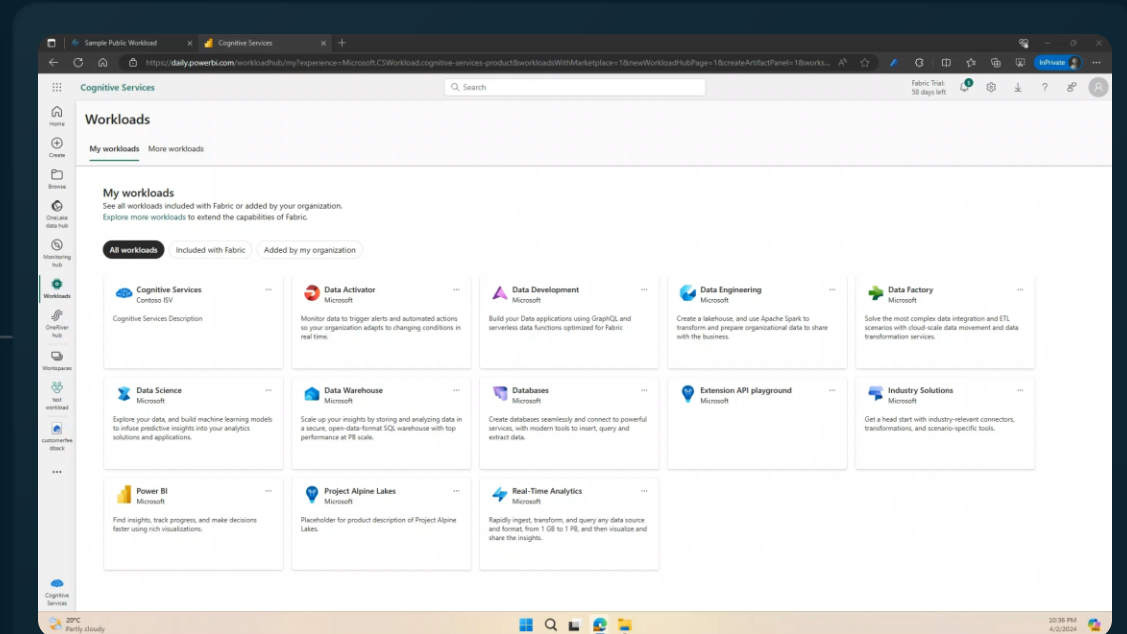
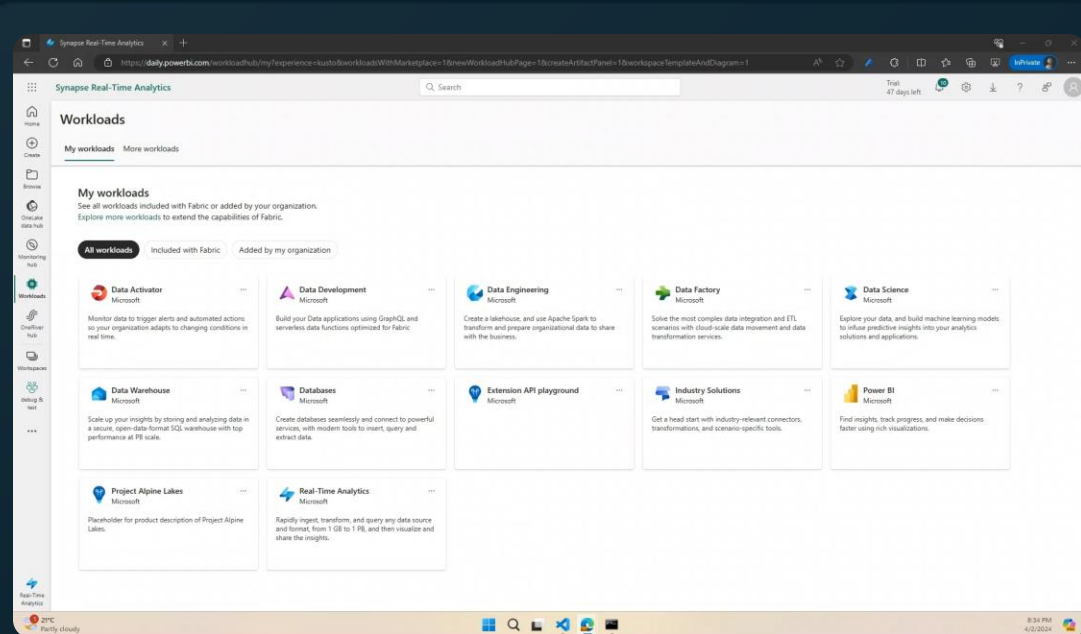


Publish to Fabric

- Via Azure Marketplace.
- Through Partner Center.

Developer experience live demo

Develop a workload – Live code



*Sneak Peak
Partner workloads in
Microsoft Fabric*



Private Preview



Decision Builder Workload in Microsoft Fabric

Enable intelligent decisions on data in **Fabric OneLake**

Coming July 2024

SAS[®] Decision Builder

Private Preview



Geospatial Analytics Workload in Microsoft Fabric

Geospatial analytics enabled in Fabric on
data in OneLake via the Fabric Data Science notebooks

Coming June 2024

← Return to Workloads

ArcGIS & Geospatial Analytics

Magnify Your Understanding and See Opportunities Clearly

[Go to workload home](#) [Manage capacity](#)

Details **Get started** Data items

Build from scratch



Interactive map
Visualize and explore your geospatial data



Living Atlas
Find geospatial data for your analysis




Notebook
Create powerful analytics with built-in libraries

Start with sample map

Kickstart your geospatial exploration with curated map and data layers from the most comprehensive collection of geographic information around the globe. [View all](#)

Active Hurricanes, Cyclones and Typhoons


This layer describes the observed path, forecast track and intensity of tropical cyclone activities.



[Use this data](#) ⋮

USA Weather Watches and Warnings

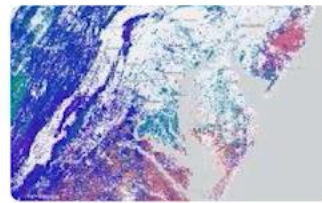
A live data feed from the National Weather Service containing official weather warnings, w...



[Use this data](#) ⋮

USA Forest type

This layer contains the Forest Type across the contiguous United States and Alaska.



[Use this data](#) ⋮

Create with template

Develop analysis with ready-to-use locations services from Esri

Geocoding

Get address suggestion, covert geo-coordinates



Spatial analysis

Discover patterns, trends and gain insights



Routing

Find routes and perform analyses on street network



Demographic data

Find local facts and demographic information



Places

Find place of interest near a location



Data visualization

Create 2D/3D visu...



Early Access



Informatica®

Data Quality Workload in Microsoft Fabric

Enables data quality & profiling natively on data in OneLake

Coming June 2024

- Home
- Create
- Browse
- Data hub
- Monitoring hub
- Workspaces
- My workspace
- Data Quality

- Explorer**
- EU_CUSTOMER_INIT
- Tables
 - Customer_Data
 - sales_annual
 - marketing_temp
 - stage_table
 - temp_target
 - Files

Results Insights Rules Source: Customer_Data | 19 of 19 Columns | 6 of 6 Rules | 17281 Rows (All rows) | Last run: Sep 4, 2023, 7:44:12 AM

View: Columns and rules with: All statistics

Columns	Value distribution	% Null	# Null	% Distinct	# Distinct	% Non-distinct	# Non-distinct
STATE	1	0%	0	13.60%	136	86.40%	864
ZIPCODE	3	0%	0	77.10%	771	22.90%	229
PARTY_ID		0%	0	56.50%	565	43.50%	435
NAME		0%	0	100.00%	1000	0.00%	0
ADDRESS	2	0%	0	100.00%	1000	0.00%	0
ADDRESS2	1	0%	0	68.6.0%	686	31.40%	314
CITY		0%	0	28.8.0%	288	71.20%	712

Details Insights Rules

Data classification (1)

State

Data types (3)

- varchar(26) 92.00%
- String(215) 92.00%
- Decimal(6) 1.11%
- Integer(6) 1.11%

Patterns (4)

Data preview Update preview

	STATE	ZIPCODE	PARTY_ID	NAME	ADDRESS	ADDRESS2	CITY
1	Florida	D6W VK33	1	Eugene Jackson	38 MOSLEY STREET	35 PARKMORE DRIVE	DUBLIN 6W
2	GA	28232	829	PABLO RODIGUEZ SANCHEZ	Calle Azagador 18		LAS ROZAS DE MADRID
3	CALIFORNIA	94402-2681	3	PABLO SANZ FERNANDEZ	450 CONCAR DR		SAN MATEO
4	MO	6	4	PABLO SANZ FERNANDEZ	35 PARKMORE DRIVE		DUBLIN 6W
5	Nevada	05 126	220	COLM MOYNIHAN	8315 JETT FERRY RD		ATLANTA
6	TXSS	28002	8	MR MOYNIHAN	CL PUEBLA 4		MADRID
7	TEXAS	28220	23	Colum William Moynahan	38 MOSLEY STREET		MAJADAHONDA
8	ILNS	13882	45	Eugene Jackson	VIRGINIO VESPIGNANI 8		COGGIOLA

Private Preview



teradata.

AI Unlimited Workload in Microsoft Fabric

Teradata's powerful SQL engine including 150 built-in functions running on data in OneLake

Coming June 2024

t.

Private Preview



Graph Analytics Workload in Microsoft Fabric

Graph analytics enabled in Fabric on data in OneLake

Coming June 2024

Private Preview



Profisee

Master Data Management Workload in Microsoft Fabric

Effortlessly match, merge & verify data to create Master Data Projects with ease

Coming July 2024



Just the beginning

Microsoft Fabric Workload Development Kit

sas


NVIDIA

LSEG

esri


Informatica

teradata.

 Profisee

neo4j

quantexa

striim

COGNITE

AVEVA

Lumel

data
iku

And more...

aka.ms/FabDevKit

Resources

- See the Workload Development Kit in action in the following demo sessions:
 - DEM732: Thursday, May 23 11:00 AM-11:15 AM
 - DEM732-R1: Thursday, May 23 3:15 PM-3:30 PM
- Feature blog: <https://aka.ms/FabricWorkloaddevelopmentkitblog>
- Technical documentation: <https://aka.ms/Fabricdeveloperdocumentation>
- Github sample repo: <https://go.microsoft.com/fwlink/?linkid=2272254>
- Fabric UX system: <https://aka.ms/horizon>

Thank you



4 days of **Microsoft Fabric** Learning, Connection and Inspiration

24-27 September 2024

Stockholm, Sweden

Learn more: <https://aka.ms/FabCon-Europe>



Session Resources

- ✓ Next steps
- ✓ Resources
- ✓ Related sessions

Find all of this and more
on the session details page



aka.ms/build/seattle/sessions

