

Administering Microsoft Fabric

Paul Andrew
Technical Strategist



Cloud Formations

Paul Andrew



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Chief Technology Officer



/mrpaulandrew



@mrpaulandrew



In/mrpaulandrew

- Mentor | Author
- Speaker | Podcast Host
- Event Organiser

SQL Server 2000



Paul Andrew – Accidental DBA (Repeat Offender)

~~Founder & Director~~

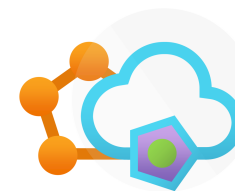
~~Chief Technology Officer~~



2014
Data Management
Technical Lead



2018
Be My Azure DBA
<https://www.youtube.com/watch?v=7T4e6NpXAEk>



2024

Administering Microsoft Fabric
<https://www.cloudformations.org/post/administering-microsoft-fabric-considering-data-products-vs-domains-vs-workspaces>



2025
Olso



FabFest
Administering Microsoft Fabric

Paul Andrew – *Accidental DBA (Repeat Offender)*



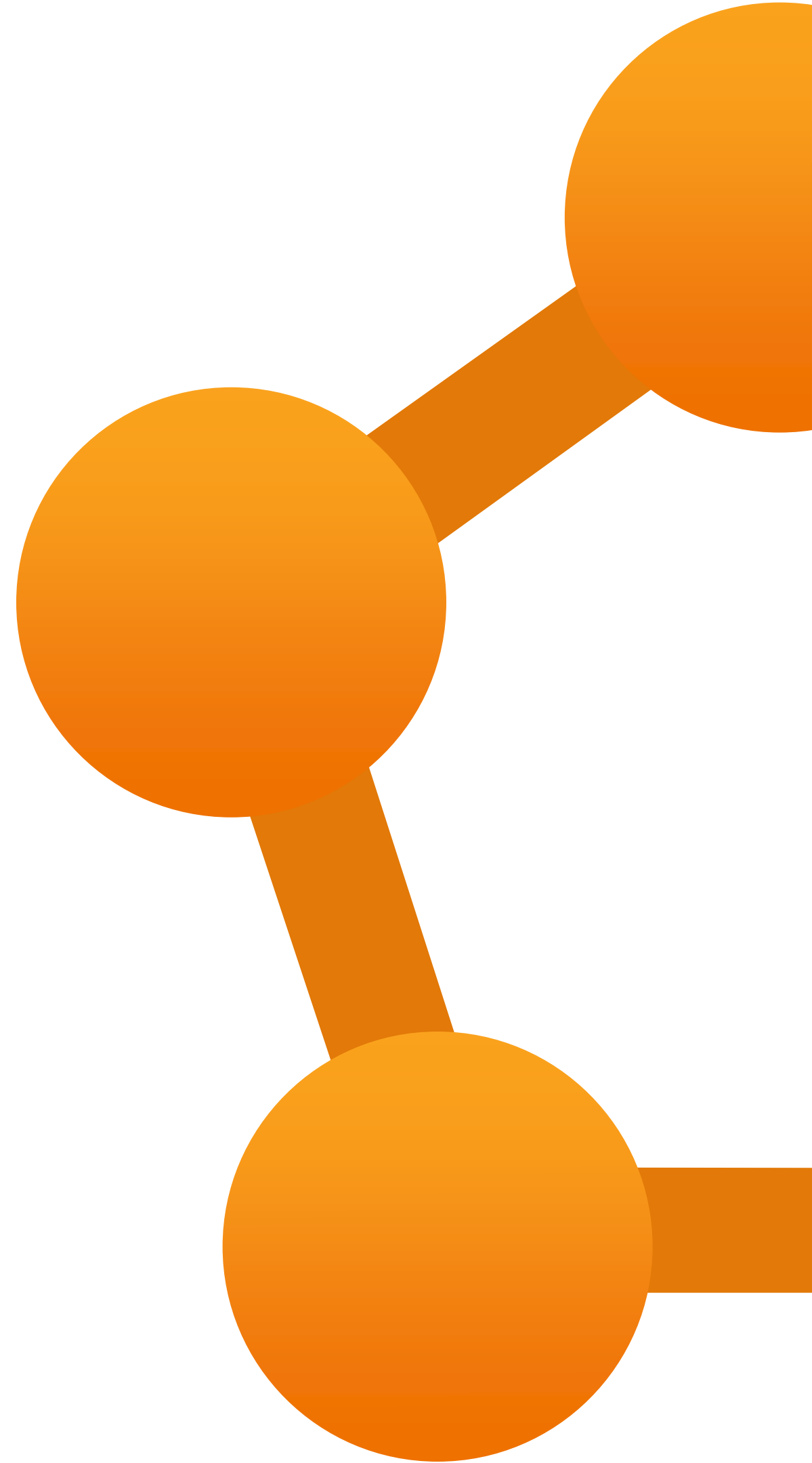
2024

Administering Microsoft Fabric

<https://www.cloudformations.org/post/administering-microsoft-fabric-considering-data-products-vs-domains-vs-workspaces>

Problem(s)

Cloud Formations



Blog Post Questions

1. Should we separate our environments (dev, test, prod) using a set of Microsoft Fabric Workspaces, one Workspace per Environment?
2. Should the data product be defined as everything across all environments to deliver a given use case or solution in Microsoft Fabric, is this natural?
3. Should we further separate our Microsoft Fabric Workspaces based on the "medallion architecture" methodology, with alignment to the respective bronze, silver, gold storage containers?
4. Should only our development environment Workspace be connected to source control?
5. Should we have all Workspaces connected to the same source control repository for all environments and use a complex code branching strategy vs environments, meaning branch merging becomes our method of deployment?
6. Should a business domain encompass all data products and all environments?
7. Should we use sub domains to separate production and non-production environments, or some other classification?
8. Should Capacities (compute) be aligned to environments, data products, sub domains or business domains, or something else? Maybe the whole tenant?
9. Should we use trial capacities for our development environment, creating new trials as required?
10. Should a role-based access model be implemented at every level in this hypothetical hierarchy and if so, what roles? Experience reader, Workspace contributor, One Lake reader.
11. Should data plane and control plane personas be separated for the production environments?
12. Should we organise our folders in a Workspace based on the type of Experience Items created?
13. Should we have one big capacity covering all parts of the solution, with dev and prod workloads sharing compute?

Administering Microsoft Fabric – Perspective 1



Tenant

Subscriptions ----- {Domains}

{Environments}

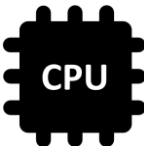
Resource Groups



Source Control

Resources

Compute



Artifacts

Storage (Data Lake)

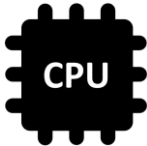
“Medallion Architecture”



Tenant

Fabric or ~~Power BI~~

Compute (Capacities)



{Domains}

{Subdomains}

{Environments}

Workspaces



Source Control

Experiences

Items

Storage (One Lake)

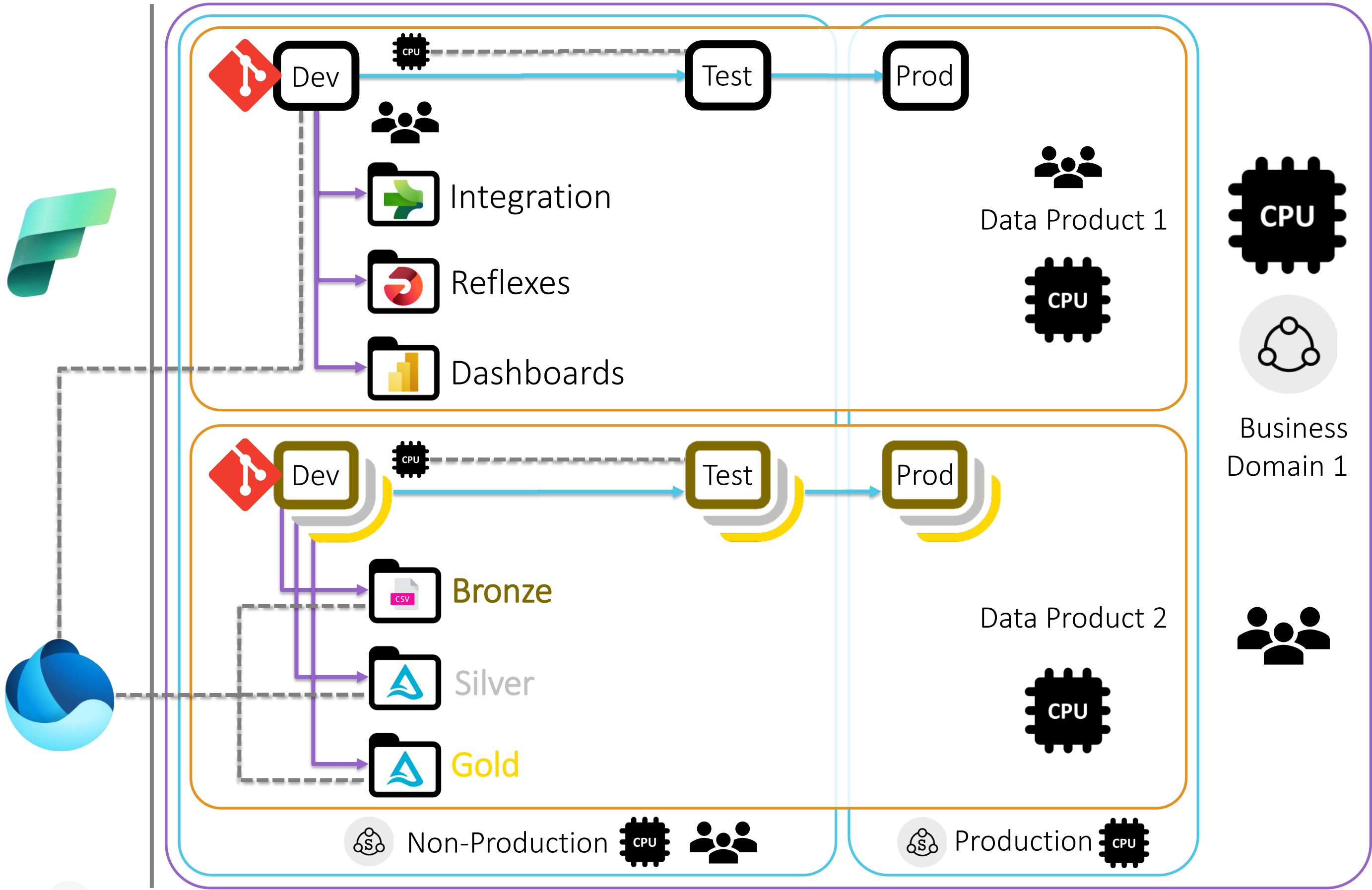
“Medallion Architecture”

Remit of the data engineer?

Administering Microsoft Fabric











Administering Microsoft Fabric – Perspective 2



Administering Microsoft Fabric



Administering Microsoft Fabric – Perspective 3

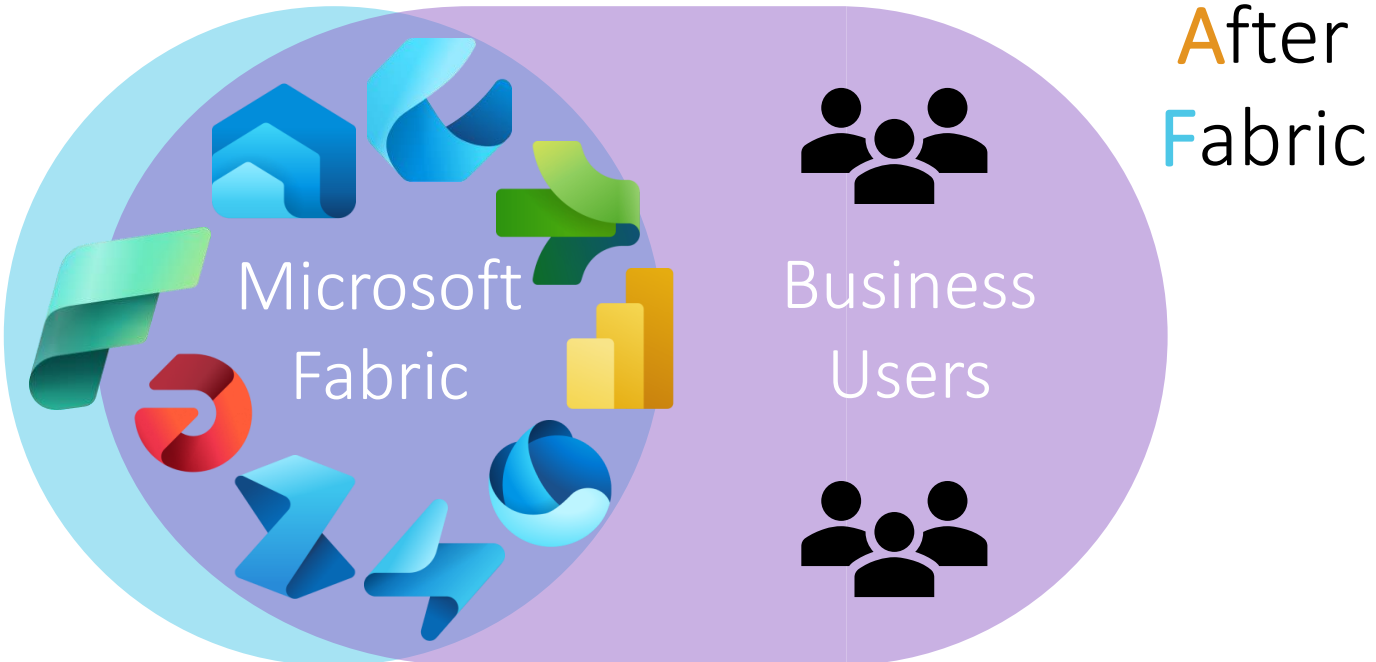
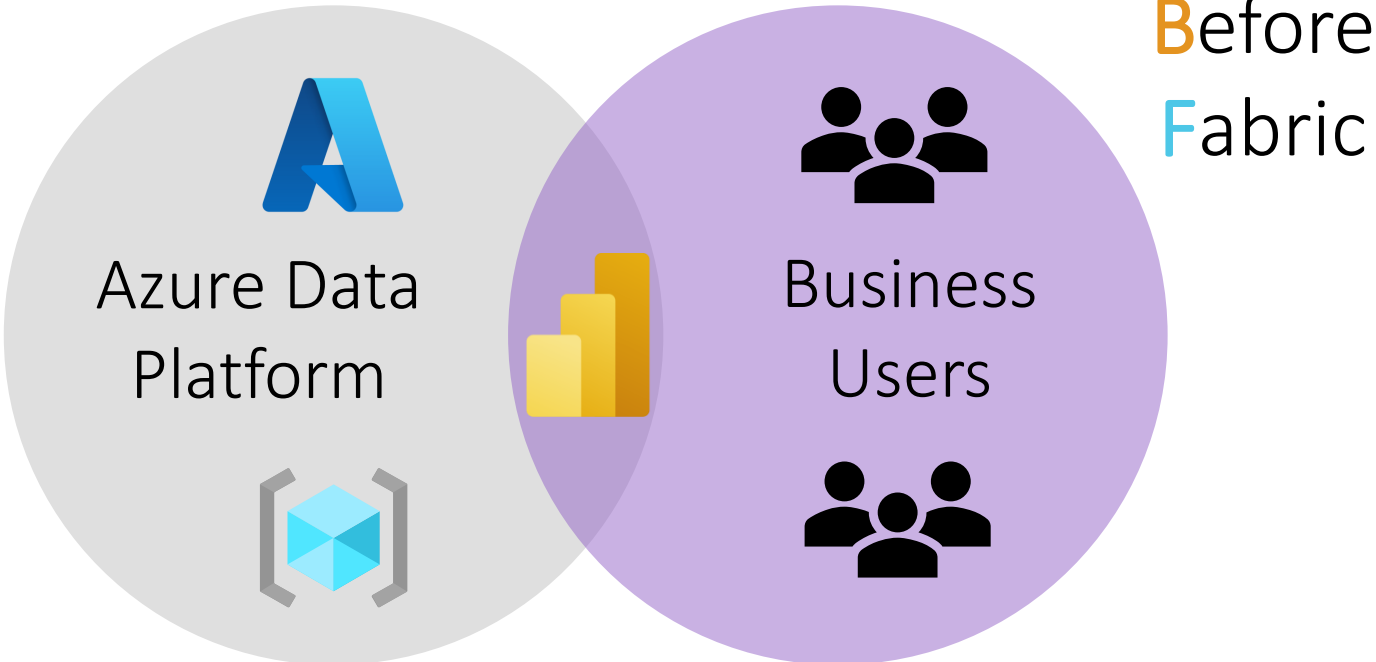
-  **Data Integration**
-  **Data Engineering**
-  **Data Warehouse**
-  **Data Science**
-  **Real-time Analytics**
-  **Business Intelligence**
-  **Data Activator**
-  **One Lake**

Self-Hosted	Infra as a Service (IaaS)	Platform as a Service (PaaS)	Software as a Service (SaaS)
Applications	Applications	Applications	Applications
Data	Data	Data	Data
Runtime	Runtime	Runtime	Runtime
Middleware	Middleware	Middleware	Middleware
Operating System	Operating System	Operating System	Operating System
Virtualization	Virtualization	Virtualization	Virtualization
Servers	Servers	Servers	Servers
Storage	Storage	Storage	Storage
Networking	Networking	Networking	Networking

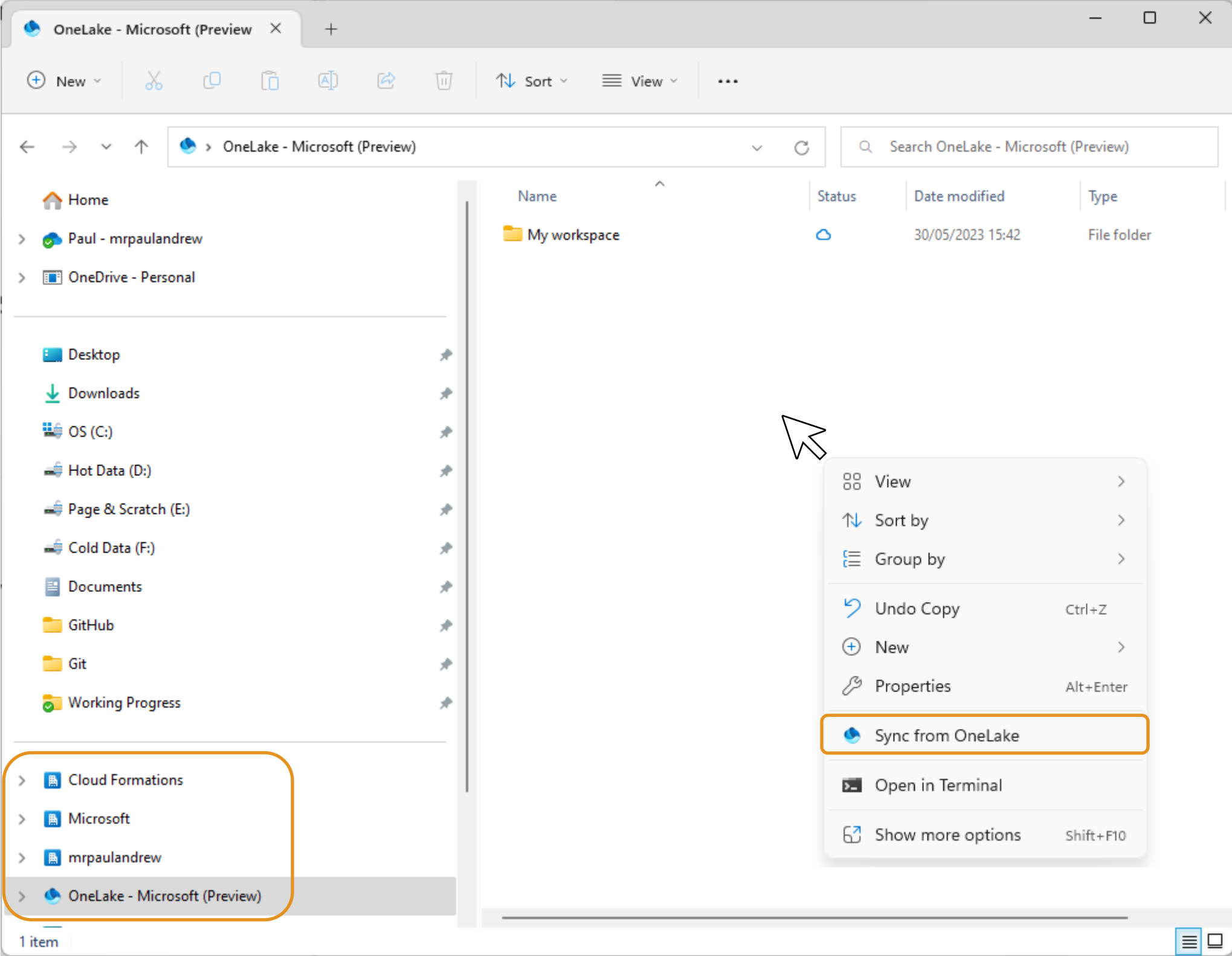
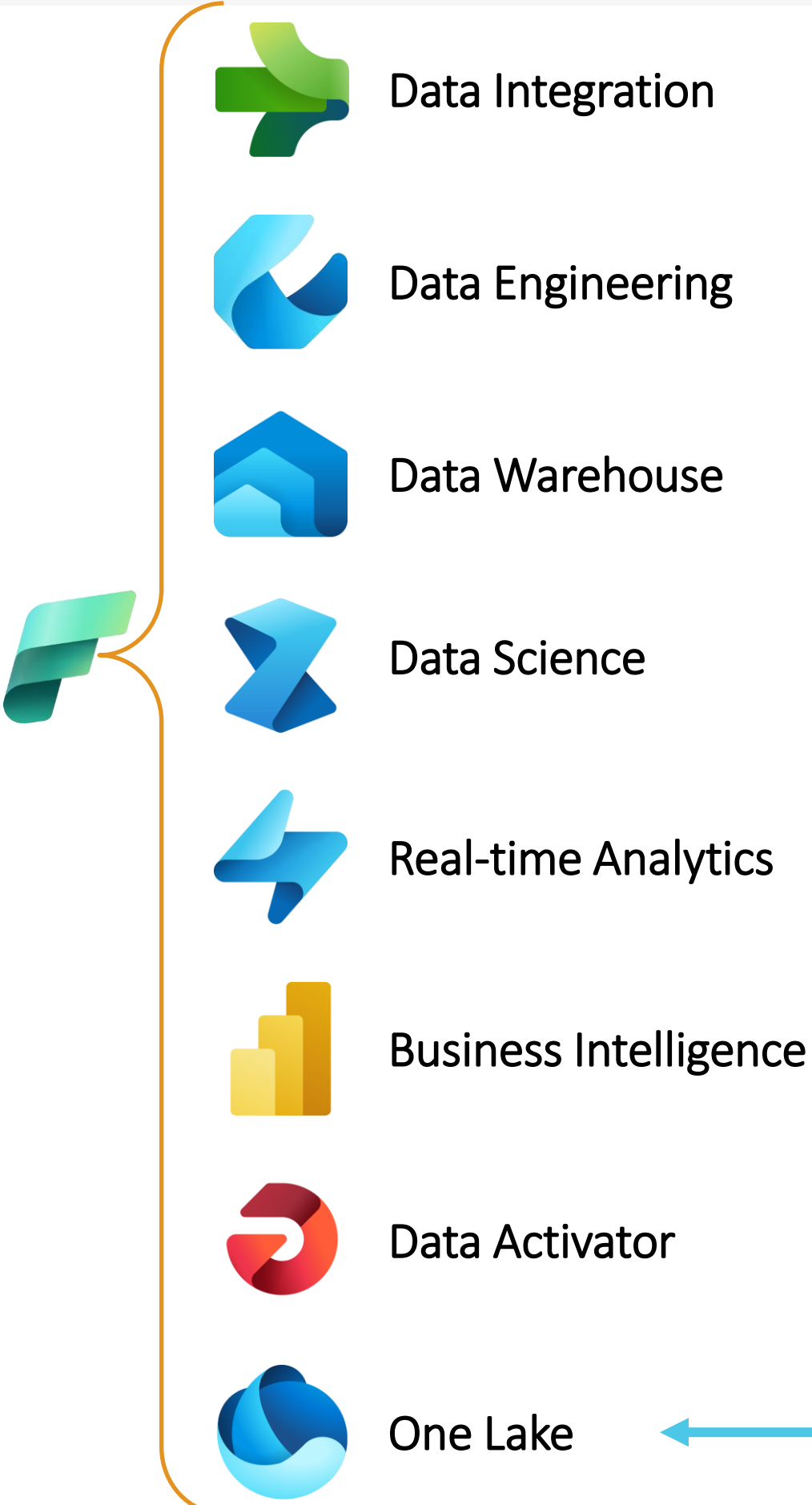
Fabric as a Service (FaaS)

Mesh as a Service (MaaS) © 2024 Cloud Formations Ltd. Confidential

Administering Microsoft Fabric – Perspective 4



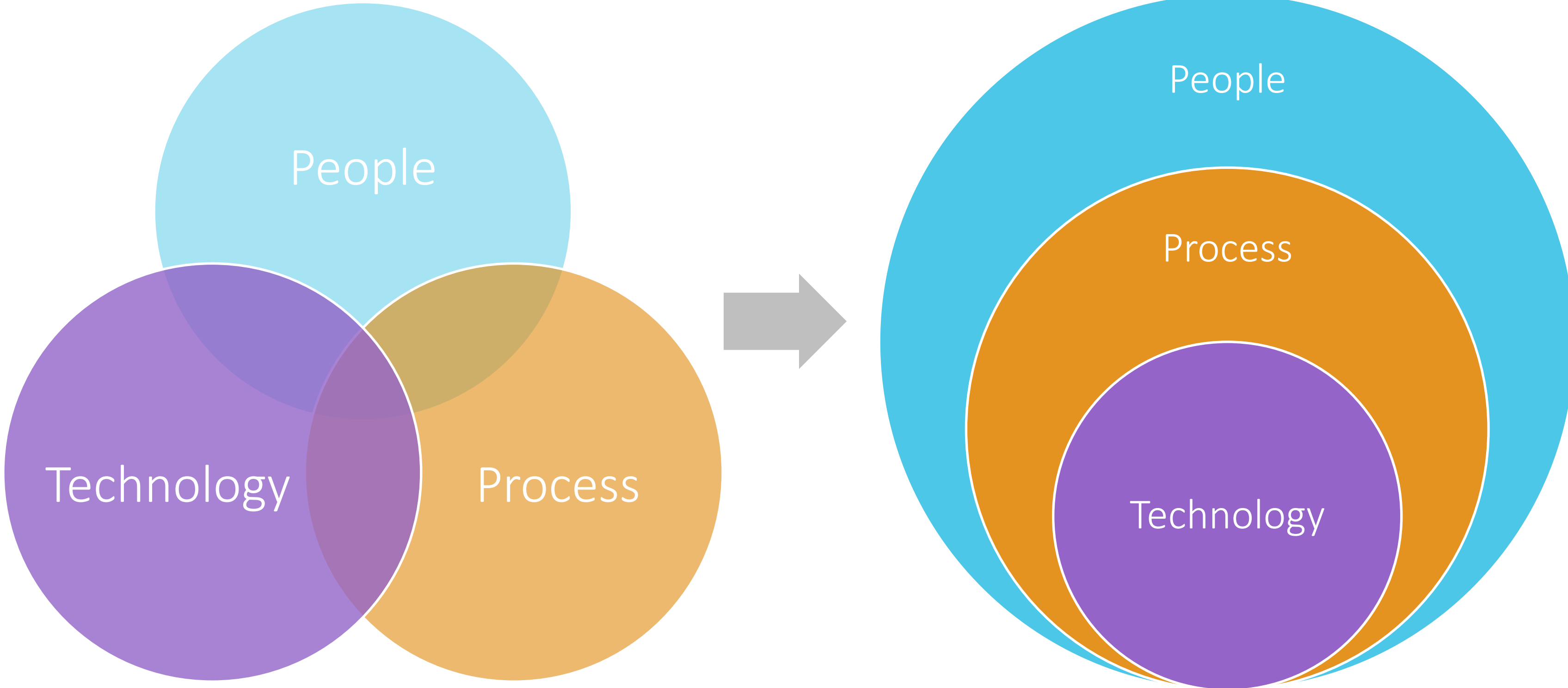
Administering Microsoft Fabric – Perspective 4



Reference: <https://learn.microsoft.com/en-us/fabric/onelake/onelake-file-explorer>

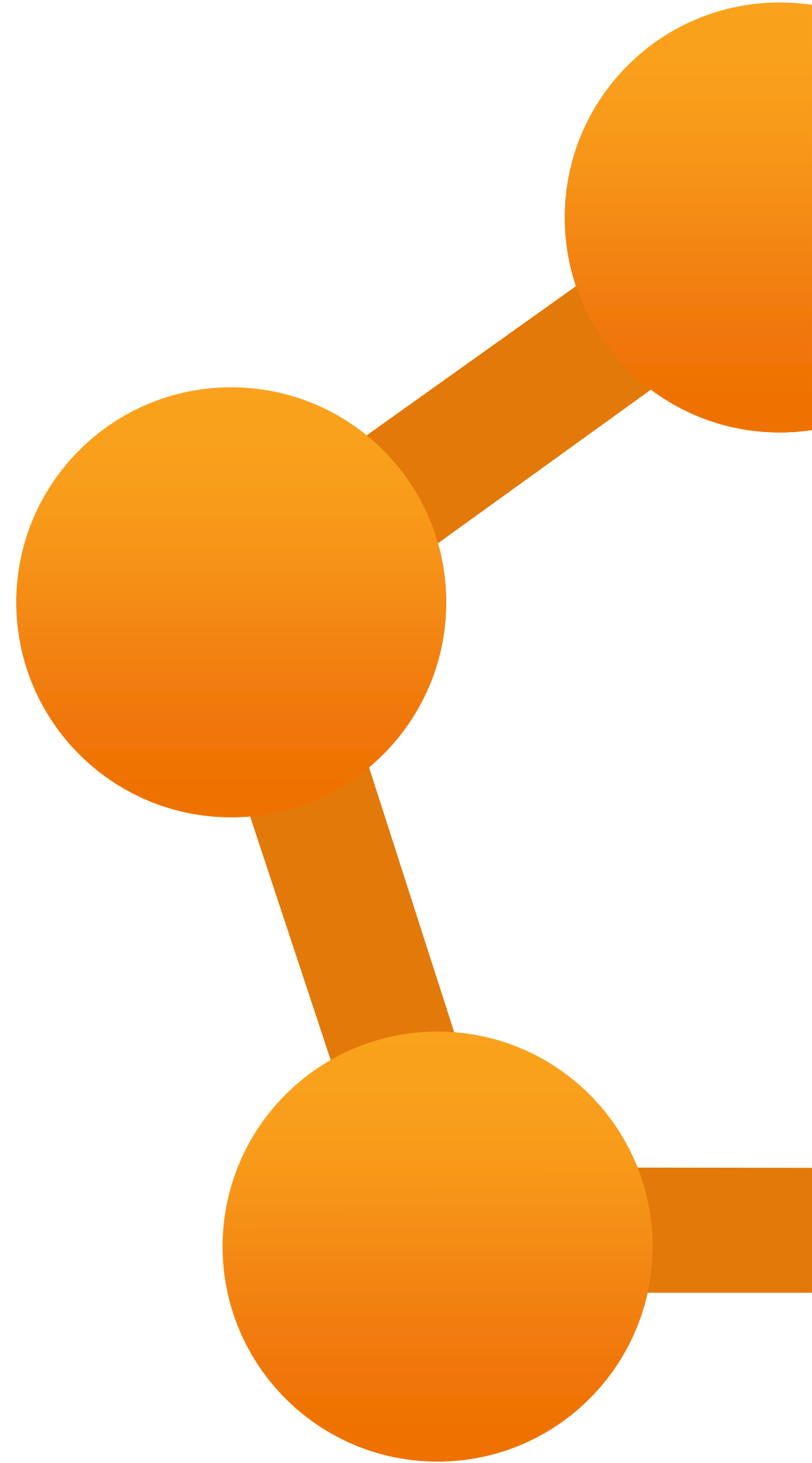
A Shift In Challenges Faced

Blogged: <https://www.cloudformations.org/post/shift-in-the-challenges>



Solution(s)

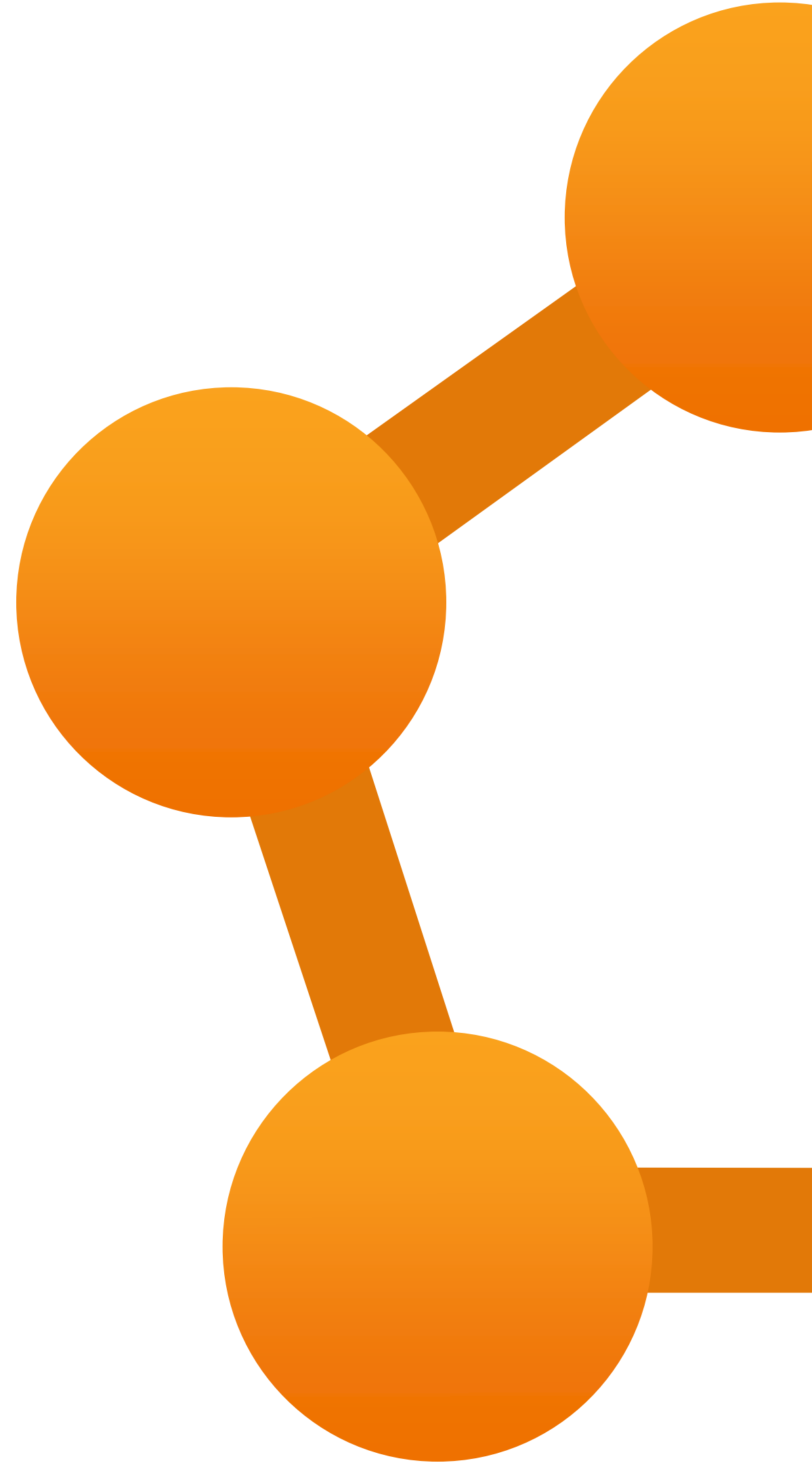
Cloud Formations



~~Solution(s)~~

Initial Steps

Cloud Formations



Step 1 – Connect With A Work Account



1. Authenticate with the correct work account to gain access to your Microsoft Fabric tenant. Personal accounts cannot and should not be used.

The screenshot shows a web browser window with the address bar displaying the URL: `https://app.fabric.microsoft.com/singleSignOn?ru=https%3A%2F%2Fapp.fabric.microsoft.com%2F%3FnoSignUpCheck%3D1`. The page content includes the Microsoft Fabric logo, the heading "Enter your email, we'll check if you need to create a new account.", an "Email" label, an input field containing the placeholder text "Enter email", and a "Submit" button. Below the input field, there are two lines of small text: "By proceeding you acknowledge that if you use your organization's email, your organization may have rights to access and manage your data and account. [Learn more about using your organization's email](#)" and "By clicking Submit, you agree to these [terms and conditions](#) and allow Microsoft to get your user and tenant details. [Microsoft Privacy Statement](#)". The background of the page features a stylized green leaf graphic.

In Private

Admin

User

Step 2 – Appoint Your Fabric Admins



2. Assign the Fabric Administrator role to senior team members. Carefully reviewing the role description and implications.

Paul - Admin | Assigned roles

Administrative roles

Role	Description
<input type="checkbox"/> Fabric Administrator	Can manage all aspects of Microsoft Fabric.

Fabric Administrator | Description

Summary

Name: Fabric Administrator

Description: Users with this role have global permissions within Microsoft Fabric, when the service is present, as well as the ability to manage support tickets and monitor service health.

Template ID: a9ea8996-122f-4c74-9520-8edcd192826c

Related articles: [Assigning administrator roles in Microsoft Entra ID](#)

Role permissions

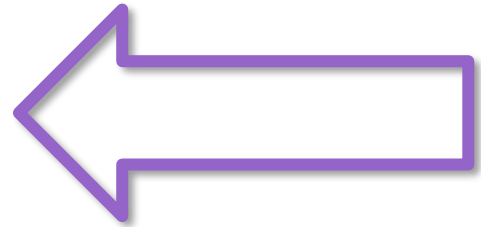
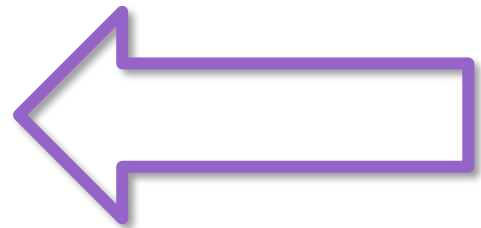
microsoft.azure.serviceHealth/allEntities/allTasks	Read and configure Azure Service Health
microsoft.azure.supportTickets/allEntities/allTasks	Create and manage Azure support tickets
microsoft.office365.serviceHealth/allEntities/allTasks	Read and configure Service Health in the Microsoft 365 admin center
microsoft.office365.supportTickets/allEntities/allTasks	Create and manage Microsoft 365 service requests
microsoft.office365.webPortal/allEntities/standard/read	Read basic properties on all resources in the Microsoft 365 admin center

Step 3 – Turn On Fabric Items



3. Enable Microsoft Fabric items via the admin portal. Limit this ability to a subset of users within or excluding specific Microsoft Entra security groups.

The screenshot shows the Microsoft Fabric Admin Portal interface. The left sidebar contains navigation options like Home, Create, Browse, OneLake data hub, Apps, Metrics, Monitoring hub, Learn, Workloads, Workspaces, and My workspace. The main content area is titled 'Admin portal' and shows 'Tenant settings' with a 'New' badge. A notification banner at the top says 'There are new or updated tenant settings. Expand to review the changes.' Below this, the 'Microsoft Fabric' settings are listed. The setting 'Users can create Fabric items' is expanded, showing it is 'Enabled for the entire organization'. The toggle switch is turned on. Under 'Apply to:', 'The entire organization' is selected with a radio button. Other options include 'Specific security groups' and 'Except specific security groups'. There are also checkboxes for 'Delegate setting to other admins' and 'Capacity admins can enable/disable'. At the bottom, there are 'Apply' and 'Cancel' buttons. Two large purple arrows point from the right towards the 'Users can create Fabric items' setting. A purple box highlights a search bar labeled 'Filter by keyword' in the top right corner of the admin portal.



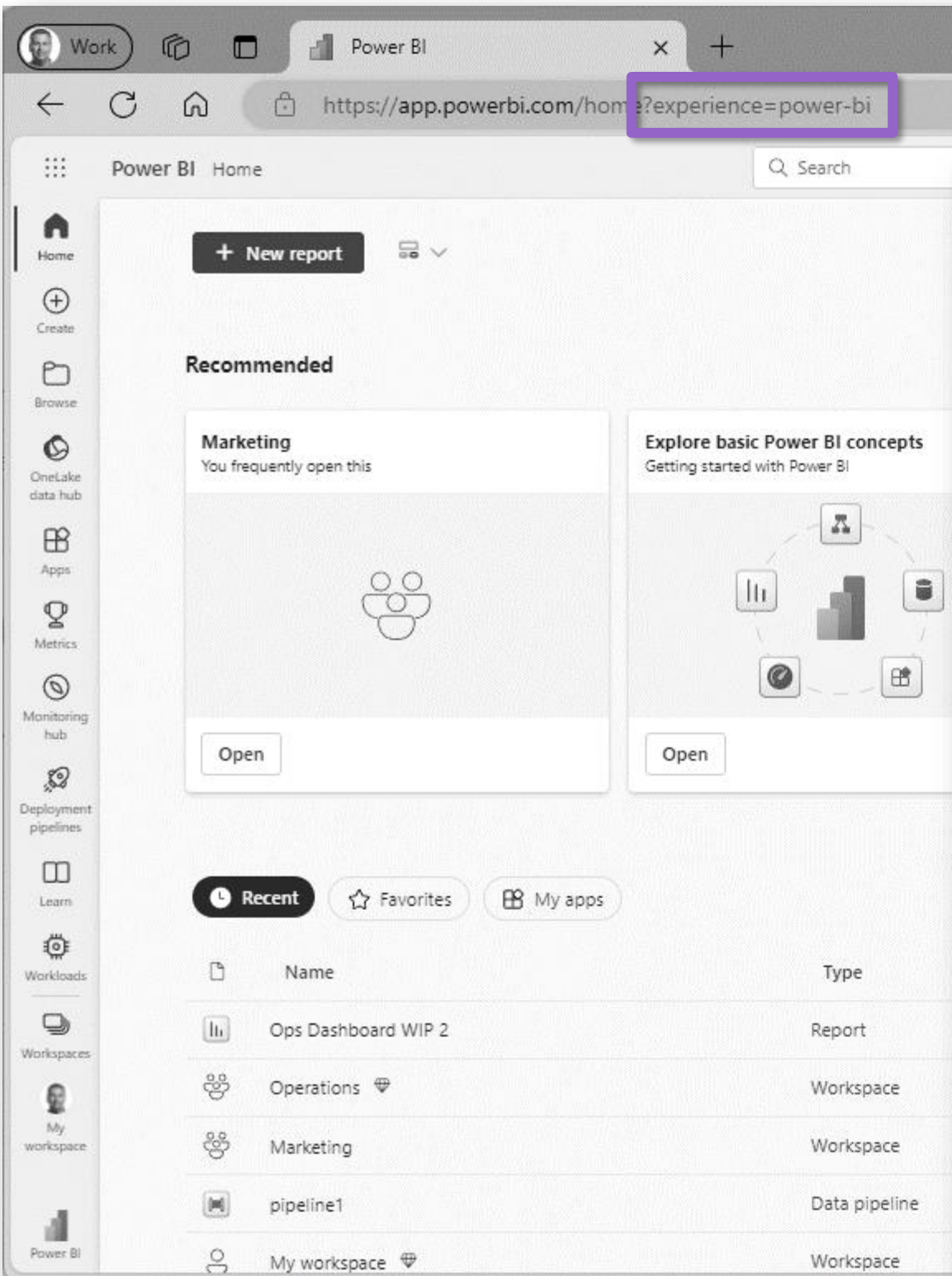
Step 4 – The Right URL

The screenshot shows the Power BI web application interface. The browser address bar displays the URL `https://app.powerbi.com/home?experience=power-bi`, which is highlighted with a purple box. The main content area features a 'Recommended' section with four cards: 'Marketing', 'Explore basic Power BI concepts', 'Intro—What is Power BI?', and 'Quick start—Getting around in the service'. Below this is a 'Recent' section with a table of items.

Name	Type	Opened	Location	Endorsement	Sensitivity
Ops Dashboard WIP 2	Report	6 days ago	Operations	—	—
Operations	Workspace	6 days ago	Workspaces	—	—
Marketing	Workspace	6 days ago	Workspaces	—	—
pipeline1	Data pipeline	a month ago	My workspace	—	—
My workspace	Workspace	3 months ago	Workspaces	—	—

powerbi.com

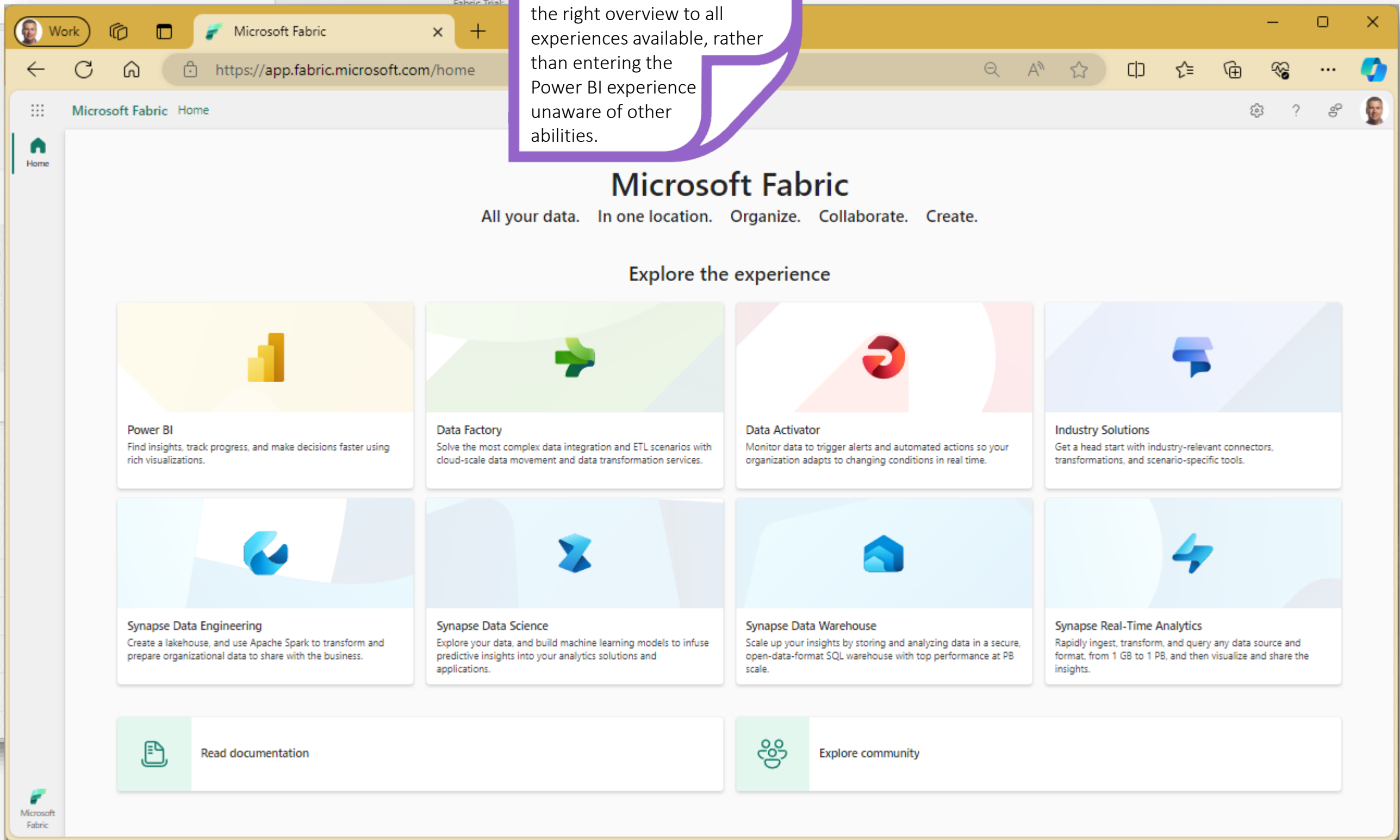
Step 4 – The Right URL



powerbi.com 

4. Bookmark the Microsoft Fabric URL to start users with the right overview to all experiences available, rather than entering the Power BI experience unaware of other abilities.

 fabric.microsoft.com



Step 5 – Get A Trial Capacity

The screenshot shows a web browser window displaying the Microsoft Learn page for 'Microsoft Fabric trial'. The browser's address bar shows the URL: <https://learn.microsoft.com/en-gb/fabric/get-started/fabric-trial>. The page header includes the Microsoft Learn logo and navigation menus for 'Discover', 'Product documentation', 'Development languages', and 'Topics'. A search bar and a 'Sign in' link are also present. The main navigation bar for 'Microsoft Fabric' includes links for 'Get started', 'Admin', 'Governance', 'Security', 'Fabric experiences', 'Fabric training', and 'Resources'. Two buttons, 'Free account' and 'Open Fabric', are visible in the top right.

The article content is as follows:

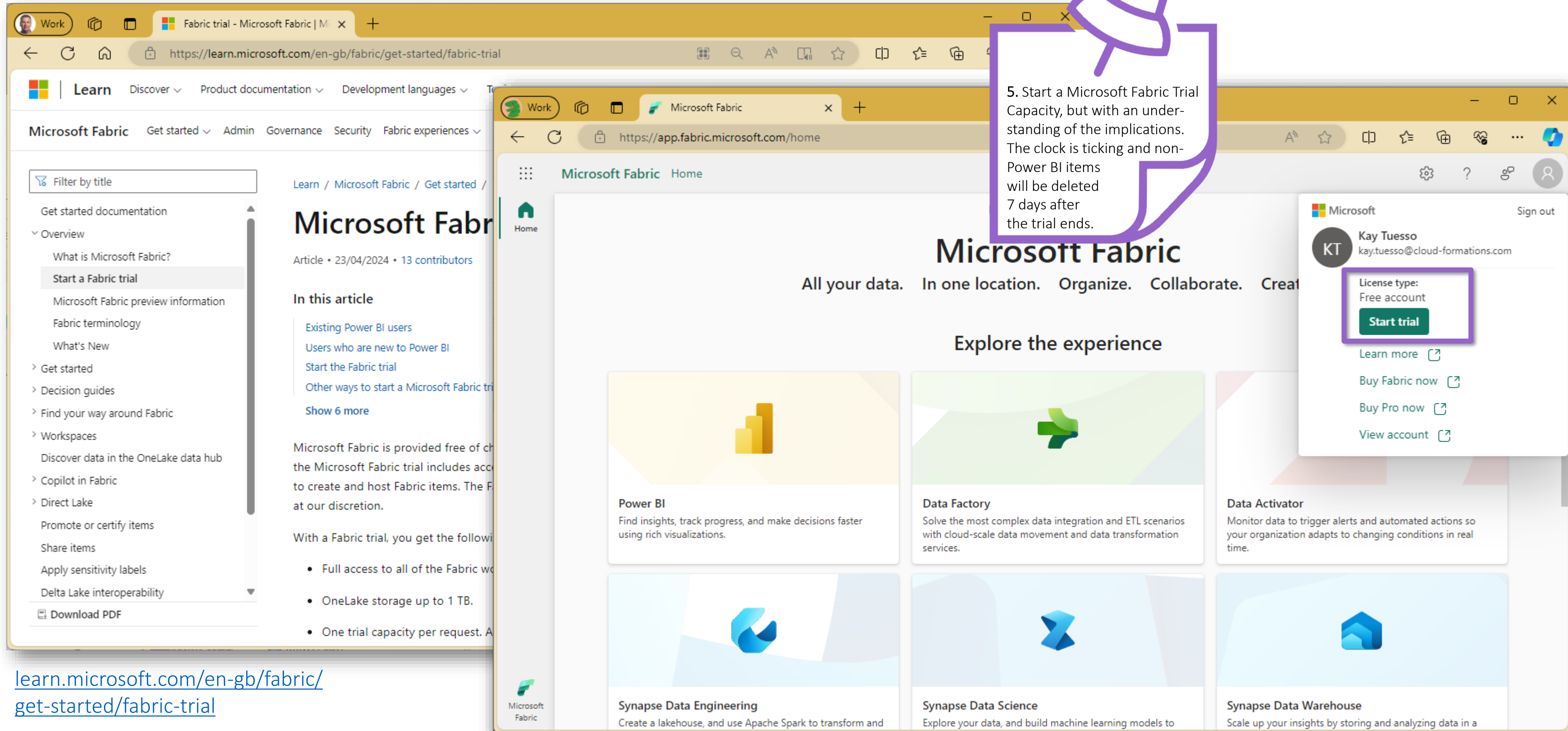
- Filter by title** (input field)
- Get started documentation** (dropdown menu)
 - Overview
 - What is Microsoft Fabric?
 - Start a Fabric trial** (selected)
 - Microsoft Fabric preview information
 - Fabric terminology
 - What's New
 - Get started
 - Decision guides
 - Find your way around Fabric
 - Workspaces
 - Discover data in the OneLake data hub
 - Copilot in Fabric
 - Direct Lake
 - Promote or certify items
 - Share items
 - Apply sensitivity labels
 - Delta Lake interoperability
 - Download PDF

- Learn / Microsoft Fabric / Get started /**
- ## Microsoft Fabric trial
- Article • 23/04/2024 • 13 contributors
- [Feedback](#)
- In this article**
- [Existing Power BI users](#)
- [Users who are new to Power BI](#)
- [Start the Fabric trial](#)
- [Other ways to start a Microsoft Fabric trial](#)
- [Show 6 more](#)
- Microsoft Fabric is provided free of charge when you sign up for the Fabric trial. Your use of the Microsoft Fabric trial includes access to the Fabric product workload and the resources to create and host Fabric items. The Fabric trial lasts for 60 days, but Microsoft can extend it, at our discretion.
- With a Fabric trial, you get the following features:

- Full access to all of the Fabric workloads and features.
- OneLake storage up to 1 TB.
- One trial capacity per request. Additional trial capacities can be requested until a
- Additional resources**
- Events**
 - [Microsoft Fabric Learn Together](#)
 - 16 Apr, 10 - 9 May, 10
 - Learn Fabric in free live sessions led by the best Microsoft experts. From Apr 16 to May 9 in English and Spanish.
 - [Register now](#)
- Training**
 - Learning path
 - [Get started with Microsoft Fabric - Training](#)
 - Microsoft Fabric learn modules, Fabric learn modules, learn Fabric, Fabric training, Microsoft Fabric training, Microsoft Fabric learning paths,...
 - Certification
 - [Microsoft Certified: Fabric Analytics Engineer Associate - Certifications](#)
 - As a Fabric analytics engineer associate, you should have subject matter expertise in designing, creating, and deploying enterprise-...

learn.microsoft.com/en-gb/fabric/get-started/fabric-trial

Step 5 – Starting A Trial Capacity



The image shows a multi-step process for starting a Microsoft Fabric trial. On the left, a browser window displays the Microsoft Learn article 'Microsoft Fabric: Start a Fabric trial'. The article's table of contents includes 'Start a Fabric trial', which is highlighted. The main content of the article states: 'Microsoft Fabric is provided free of charge. The Microsoft Fabric trial includes access to create and host Fabric items. The Fabric trial is provided at our discretion. With a Fabric trial, you get the following benefits: Full access to all of the Fabric workspaces, OneLake storage up to 1 TB, and One trial capacity per request. After the trial ends, all Fabric items will be deleted 7 days after the trial ends.' A purple pushpin icon is placed over the article text, pointing to a callout box. The callout box contains the text: '5. Start a Microsoft Fabric Trial Capacity, but with an understanding of the implications. The clock is ticking and non-Power BI items will be deleted 7 days after the trial ends.' In the center, a browser window shows the Microsoft Fabric application home page. The page features the Microsoft Fabric logo and the tagline 'All your data. In one location. Organize. Collaborate. Create.' Below this, there are several tiles for 'Power BI', 'Data Factory', 'Data Activator', 'Synapse Data Engineering', 'Synapse Data Science', and 'Synapse Data Warehouse'. On the right side of the application page, a user profile dropdown menu is open, showing the user's name 'Kay Tuesso' and email 'kay.tuesso@cloud-formations.com'. The dropdown menu is highlighted with a purple box, and it shows the 'License type: Free account' and a 'Start trial' button, which is also highlighted with a purple box.

5. Start a Microsoft Fabric Trial Capacity, but with an understanding of the implications. The clock is ticking and non-Power BI items will be deleted 7 days after the trial ends.

Microsoft Fabric Home

Microsoft Fabric

All your data. In one location. Organize. Collaborate. Create.

Explore the experience

Power BI
Find insights, track progress, and make decisions faster using rich visualizations.

Data Factory
Solve the most complex data integration and ETL scenarios with cloud-scale data movement and data transformation services.

Data Activator
Monitor data to trigger alerts and automated actions so your organization adapts to changing conditions in real time.

Synapse Data Engineering
Create a lakehouse, and use Apache Spark to transform and

Synapse Data Science
Explore your data, and build machine learning models to

Synapse Data Warehouse
Scale up your insights by storing and analyzing data in a

Microsoft Fabric

Microsoft

Kay Tuesso
kay.tuesso@cloud-formations.com

License type:
Free account

Start trial

Learn more

Buy Fabric now

Buy Pro now

View account

learn.microsoft.com/en-gb/fabric/get-started/fabric-trial

Step 6 – Managing Capacities



6. Work with your admin to manage all capacities and assign them to Workspaces within your tenant as required. *Creating fake users to create more trials isn't a sustainable practice.*

The screenshot shows the Microsoft Fabric Admin portal. The left-hand navigation menu is expanded to show 'Capacity settings'. The main content area displays a warning for 'Fabric trial capacity expiration' and a table of capacity details.

CAPACITY NAME	CAPACITY
Trial-20240109T10...	Paul A...
Trial-20240406T19...	Daniel...
Trial-20240507T08...	Kay Tu...

The screenshot shows the 'Capacity settings' page for a specific trial capacity. The 'Workspaces assigned to this capacity' section is highlighted with a purple box. It includes a search bar and a table of assigned workspaces.

Workspace name ↑	Workspace admins	Actions ⌵	Status ↕
My Workspace (Paul Andrew)	View admins	×	Assigned

Step 7 – Capacity Usage

The screenshot shows the Microsoft AppSource page for the 'Microsoft Fabric Capacity Metrics' app. The app is listed as a Power BI app with a 3.4 rating from 34 reviews. It is priced at 'Free' and has a 'Get it now' button. Below the app card, there is an 'Overview' section with a description: 'Fabric capacity admins can gain visibility into the resources used by Microsoft Fabric capacity admins can gain visibility into capacity resource compute and storage on their capacities. It includes analysis of utilization experiences running on a capacity. Gain visibility into overload causes, and easily identify the most demanding or most popular items.' There is also an 'At a glance' section with a small chart.

This screenshot shows the 'Connect to Microsoft Fabric Capacity Metrics' dialog box. It prompts the user to fill in parameters before connecting. The 'CapacityID' field is highlighted with a purple box and contains the text: 'For example: Enter a capacity ID of one capacity that you are an admin of'. The 'UTC_offset' field is also visible, with a value of '0'.

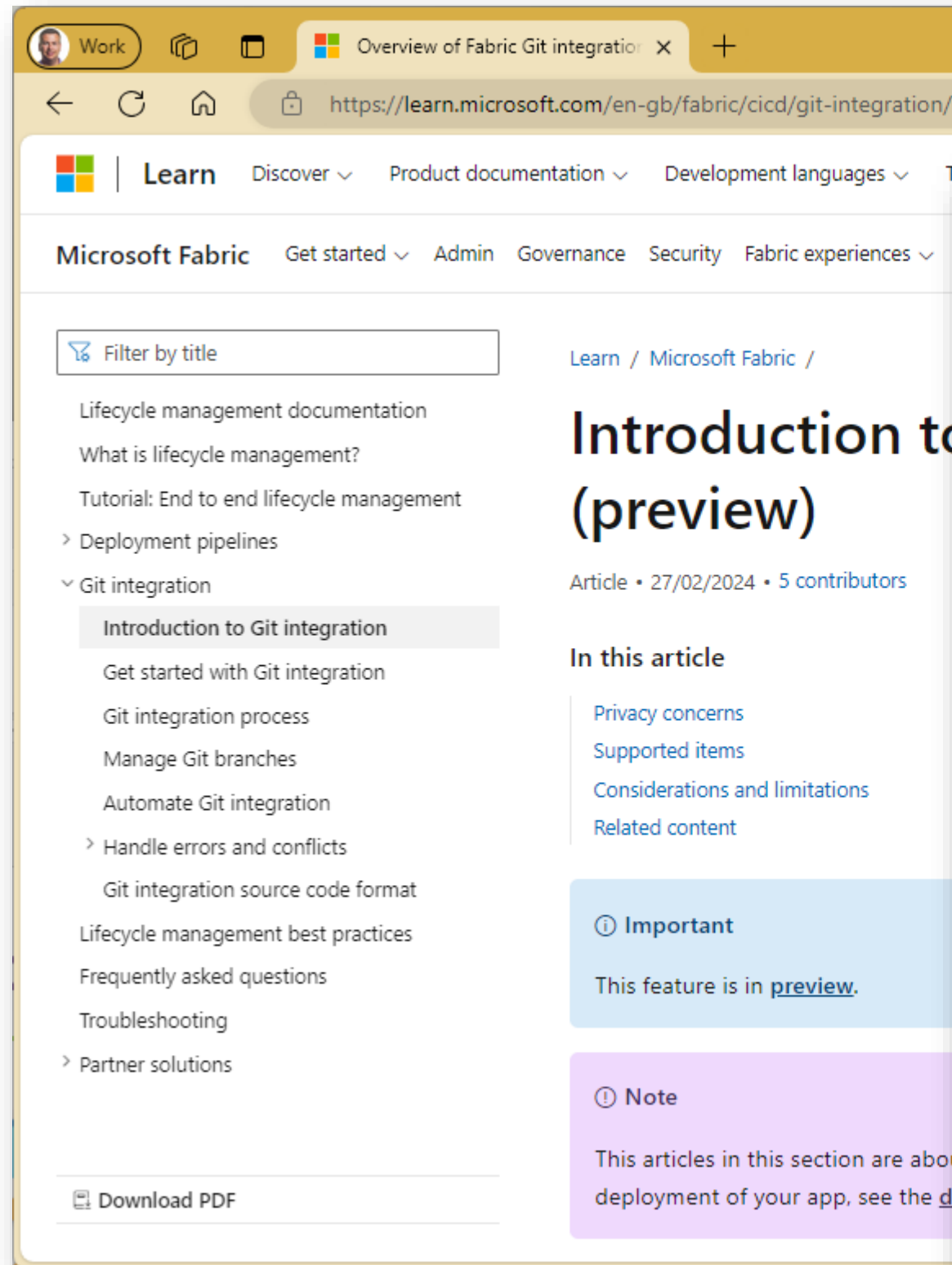
The screenshot shows the Microsoft Fabric Admin portal. The 'Capacity settings' section is active, displaying details for a trial capacity: 'Trial-20240109T101941Z-k...'. The 'Capacity name' is 'Trial-20240109T101941Z-kN2N1qHkSE-zRSp'. The 'Service admin' is listed as a user icon. The 'Sku/size' is 'FT1' and the 'Region' is 'UK South'. The 'Capacity ID' is '4A1FAA6D-60B1-4F06-A482-FAE90B5BFFD9', which is highlighted with a purple box. A purple arrow points from this box to the 'CapacityID' field in the dialog box above.

7. Use the Microsoft Fabric Capacity Metrics report (App) to understand compute and storage usage based on the experiences used. Informing the size of capacity required for production.

appsource.microsoft.com/en-us/product/power-bi/pbi_pcmm.microsoftpremiumfabricpreviewreport

Step 8 – Connect Source Control & Setup Branching

atlassian.com/git/tutorials/comparing-workflows/gitflow-workflow



Microsoft Fabric | Learn | Discover | Product documentation | Development languages

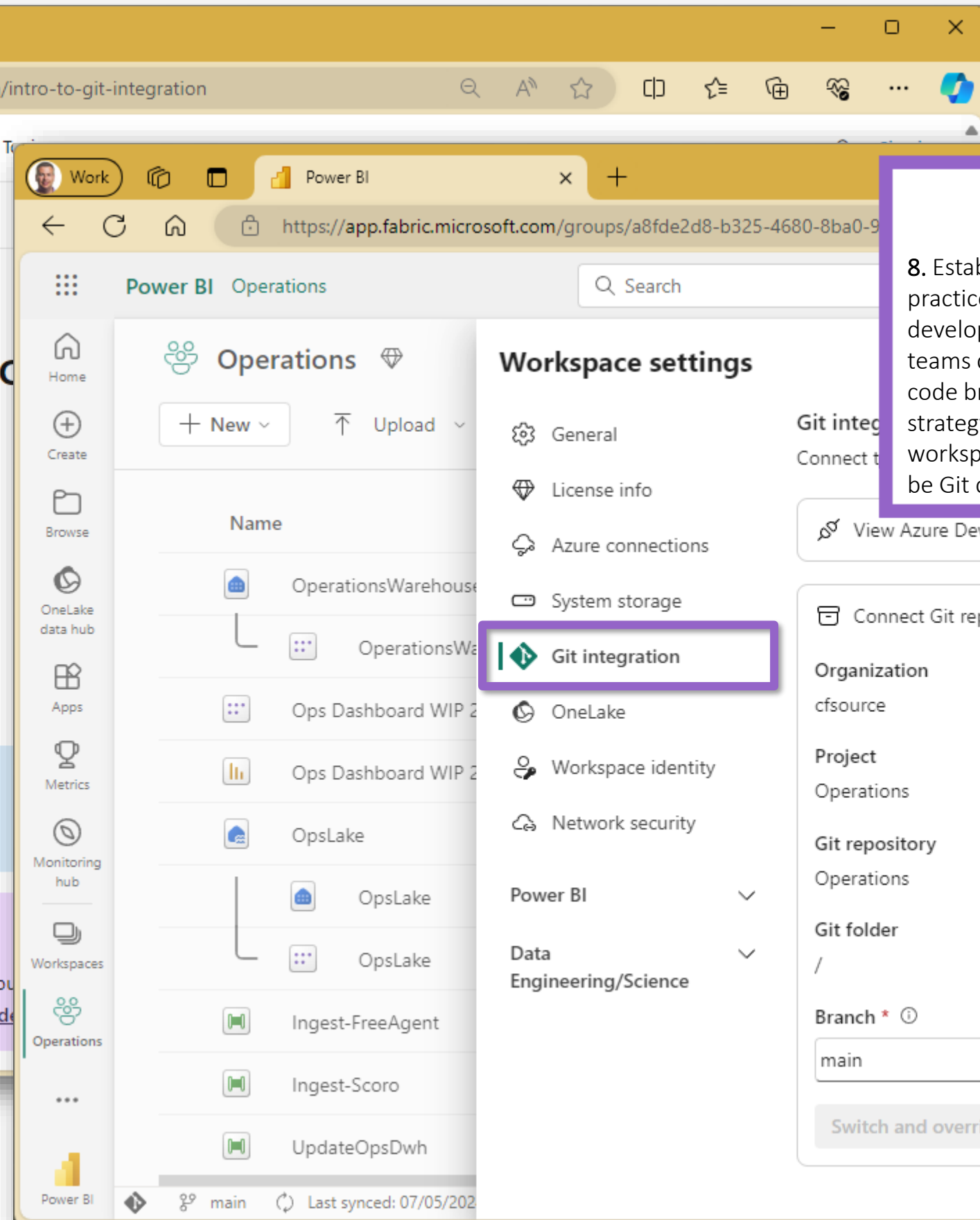
Introduction to Git integration (preview)

Article • 27/02/2024 • 5 contributors

Important
This feature is in **preview**.

Note
This articles in this section are about deployment of your app, see the d

learn.microsoft.com/en-gb/fabric/cicd/git-integration/intro-to-git-integration



Power BI Operations

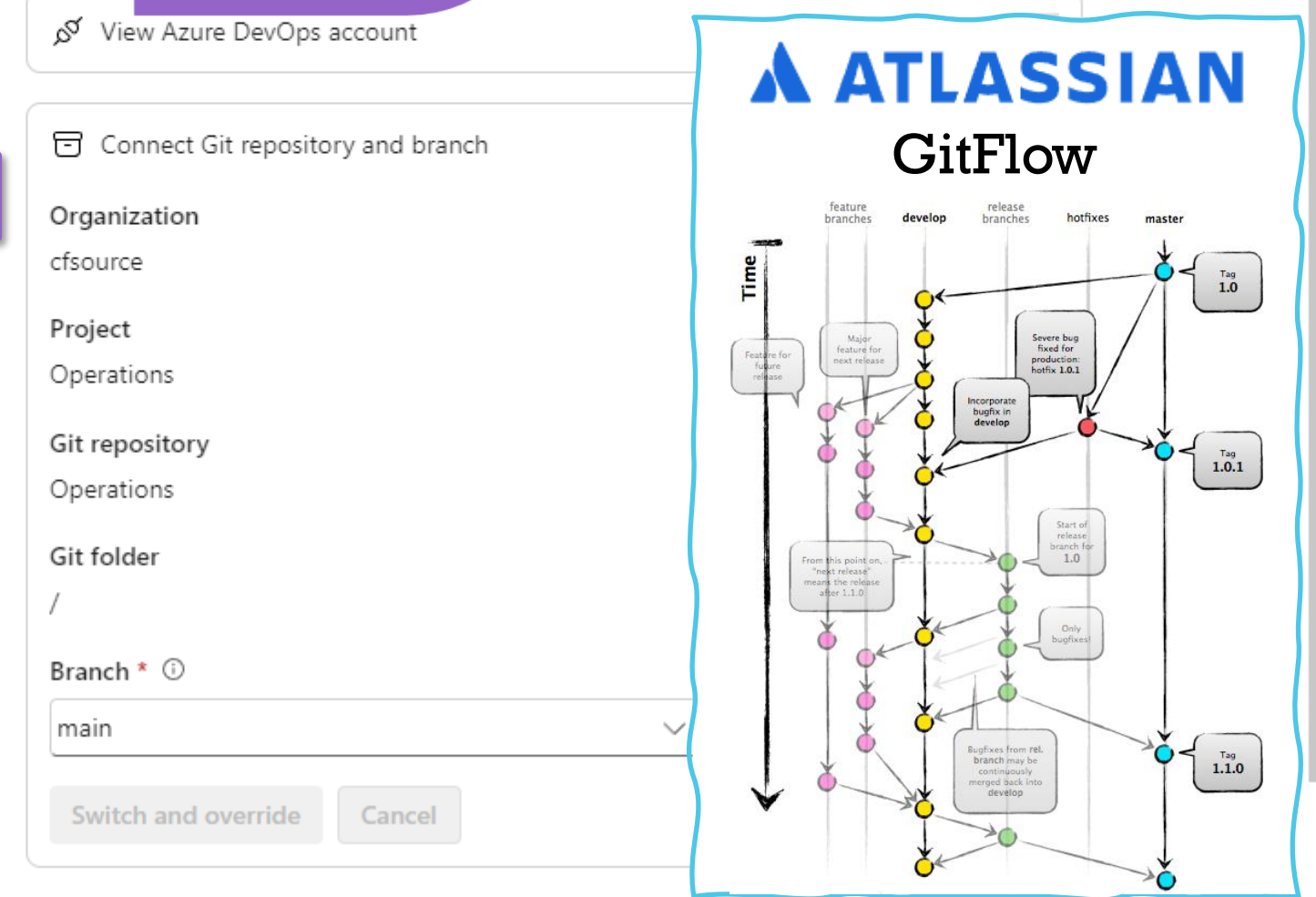
Workspace settings

- General
- License info
- Azure connections
- System storage
- Git integration**
- OneLake
- Workspace identity
- Network security

Power BI

Data Engineering/Science

8. Establish source control practices across your development/power user teams quickly with a suitable code branching strategy. Not every workspace should be Git connected.



Step 9 – Information Protection & Export

The image shows two overlapping screenshots of the Microsoft Fabric Admin Portal. The left screenshot shows the 'Information protection' section, which is currently disabled for the entire organization. The right screenshot shows the 'Export to Excel' settings, which are enabled for the entire organization. The 'Export to Excel' settings include a toggle switch set to 'Enabled', and the 'Apply to' options are set to 'The entire organization'. Below this, there are settings for 'Export to .csv', 'Download reports', and 'Users can work with semantic models in Excel using a live connection', all of which are also enabled for the entire organization.

9. Have a data governance strategy that aligns to the tooling available. It is not purely a technical problem; it involves people and process as well.
Disable export to Excel if you dare!

Step 10 – Upskilling

Work | Get started with Microsoft Fabric

https://learn.microsoft.com/en-us/training/paths/get-started-fabric/

Learn | Discover | Product documentation | Development languages | Topics | Sign in

Training | Products | Career Paths | Browse all training | Educator Center | Student Hub | FAQ & Help

Learn / Training / Browse /

Get started with Microsoft Fabric

10 hr 1 min • Learning Path • 11 Modules

Beginner | Data Analyst | Data Engineer | Data Scientist | Microsoft Fabric

Explore the capabilities of Microsoft Fabric.

Prerequisites
You should be familiar with basic data concepts and terminology.

[Start >](#) [Add](#)

Modules in this learning path

Introduction to end-to-end analytics using Microsoft Fabric

22 min • Module • 6 Units


Discover how Microsoft Fabric can meet your enterprise's analytics needs in one platform. Learn about Microsoft Fabric, how it works, and identify how you can use it for your analytics needs.

[Start >](#)


10. Check out all the great Microsoft Learn content available. Including the new DP-600 certification: *Implementing Analytics Solutions Using Microsoft Fabric.*

learn.microsoft.com/en-us/training/paths/get-started-fabric/


Steps Summary



1. Authenticate with the correct work account to gain access to your Microsoft Fabric tenant. Personal accounts cannot and should not be used.




2. Assign the Fabric Administrator role to senior team members. Carefully reviewing the role description and implications.




3. Enable Microsoft Fabric items via the admin portal. Limit this ability to a subset of users within or excluding specific Microsoft Entra security groups.



4. Bookmark the Microsoft Fabric URL to start users with the right overview to all experiences available, rather than entering the Power BI experience unaware of other abilities.




5. Start a Microsoft Fabric Trial Capacity, but with an understanding of the implications. The clock is ticking and non-Power BI items will be deleted 7 days after the trial ends.



6. Work with your admin to manage all capacities and assign them to Workspaces within your tenant as required. Creating fake users to create more trials isn't a sustainable practice.



7. Use the Microsoft Fabric Capacity Metrics report (App) to understand compute and storage usage based on the experiences used. Informing the size of capacity required for production.



8. Establish source control practices across your development/power user teams quickly with a suitable code branching strategy. Not every workspace should be Git connected.



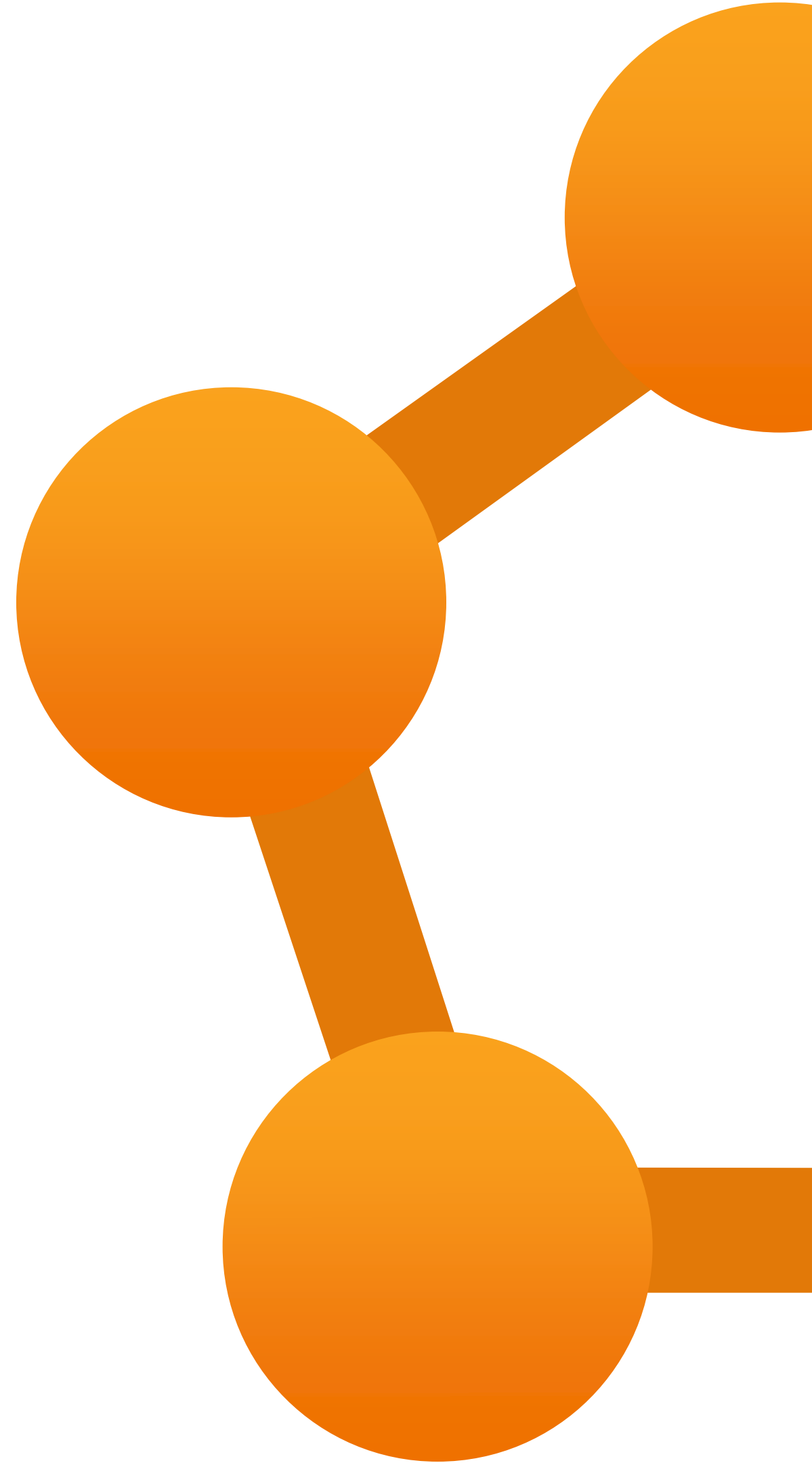
9. Have a data governance strategy that aligns to the tooling available. It is not purely a technical problem; it involves people and process as well. *Disable export to Excel if you dare!*



10. Check out all the great Microsoft Learn content available. Including the new DP-600 certification: *Implementing Analytics Solutions Using Microsoft Fabric.*









Capacity Usage

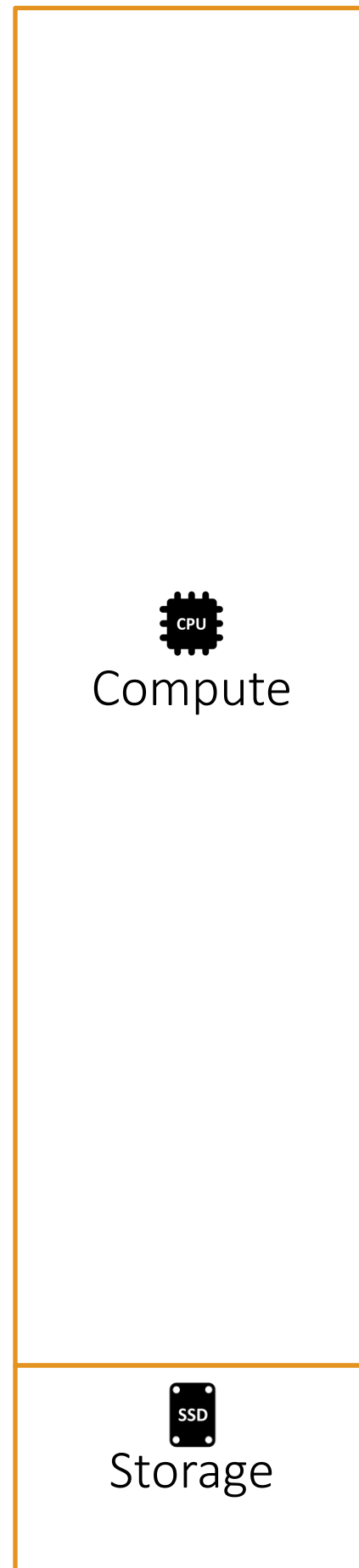
Cloud Formations



Microsoft Fabric Capacity Usage

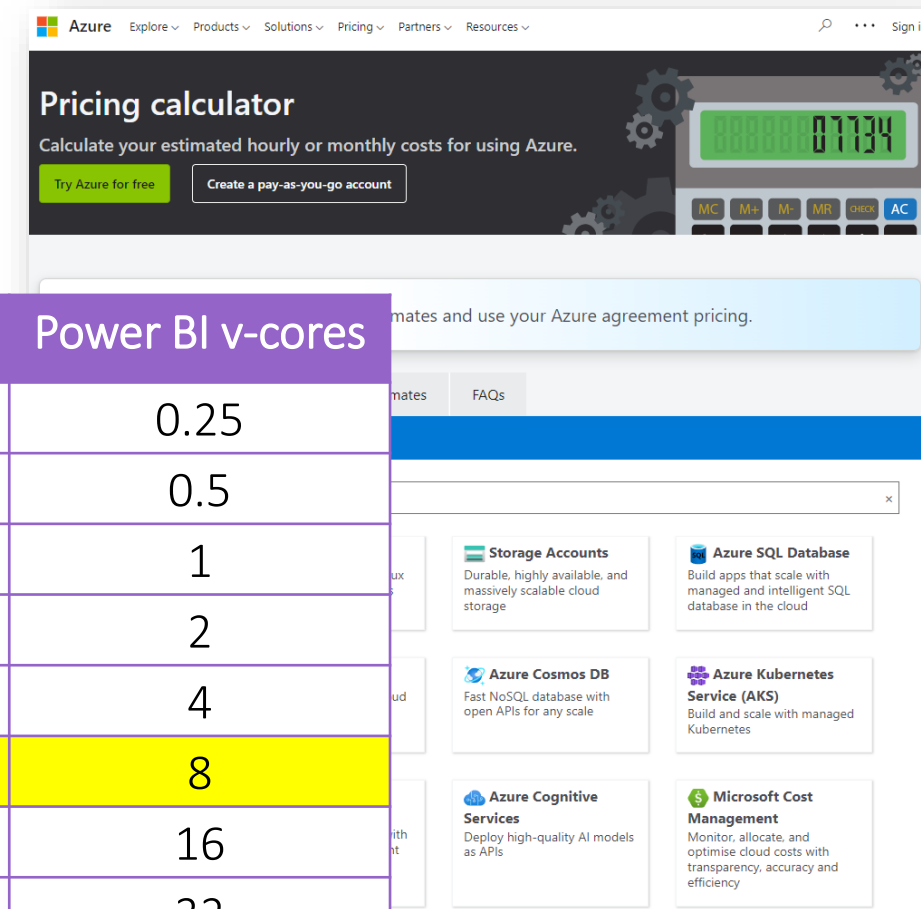


-  Data Integration
-  Data Engineering
-  Data Warehouse
-  Data Science
-  Real-time Analytics
-  Business Intelligence
-  Data Activator
-  One Lake



Capacities









SKU	Capacity Units	Power BI SKU	Power BI v-cores
F2	2	-	0.25
F4	4	-	0.5
F8	8	EM/A1	1
F16	16	EM2/A2	2
F32	32	EM3/A3	4
F64	64	P1/A4	8
F128	128	P2/A5	16
F256	256	P3/A6	32
F512	512	P4/A7	64
F1024	1024	P5/A8	128
F2048	2048	-	256

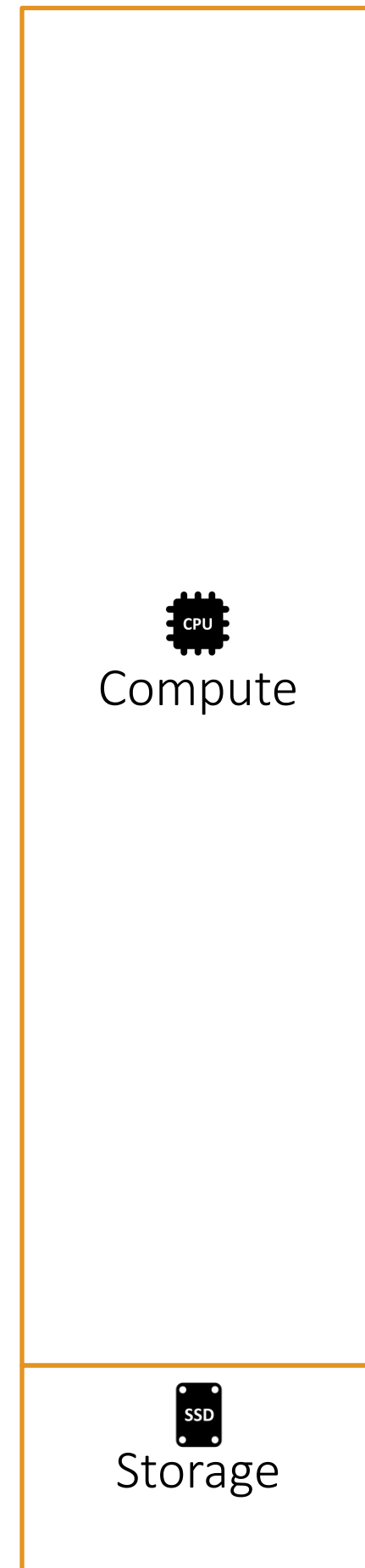


Reference:
<https://blog.fabric.microsoft.com/en-us/blog/capacity-metrics-in-microsoft-fabric>
<https://learn.microsoft.com/en-us/fabric/enterprise/licenses>
<https://learn.microsoft.com/en-us/power-bi/enterprise/service-premium-smoothing>
<https://learn.microsoft.com/en-us/fabric/data-engineering/spark-job-concurrency-and-queueing>

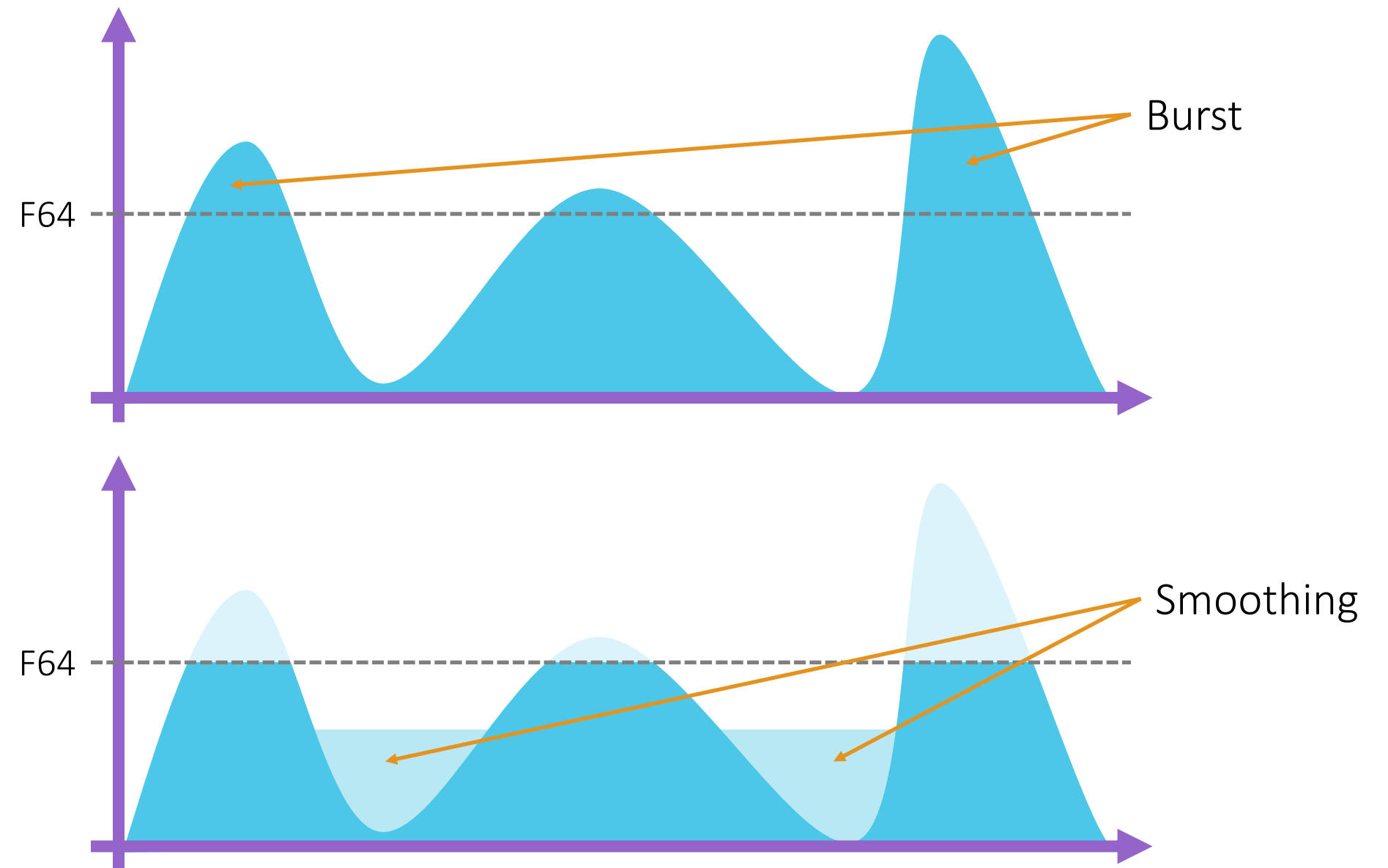
Microsoft Fabric Capacity Usage



-  Data Integration
-  Data Engineering
-  Data Warehouse
-  Data Science
-  Real-time Analytics
-  Business Intelligence
-  Data Activator
-  One Lake



Bursting and Smoothing

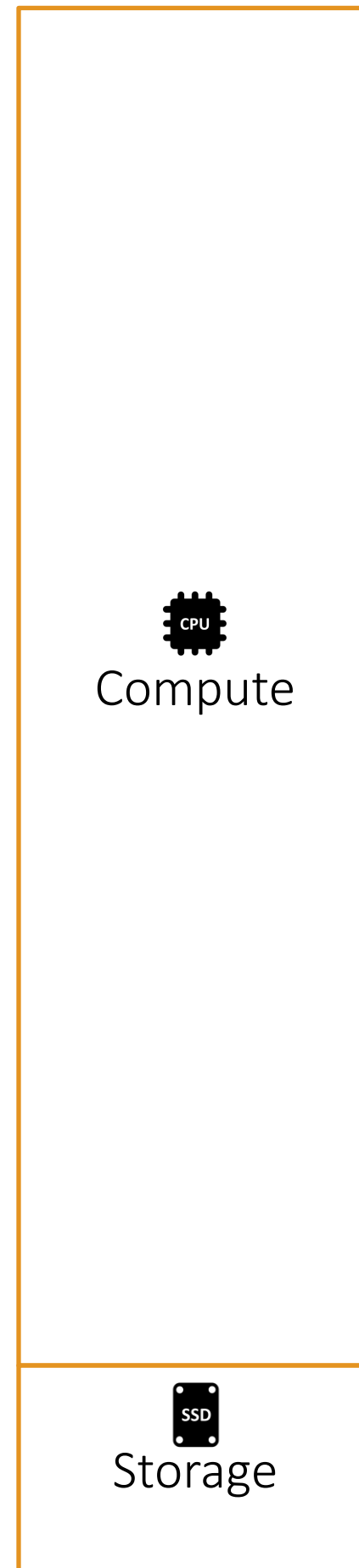


Reference:
<https://blog.fabric.microsoft.com/en-us/blog/capacity-metrics-in-microsoft-fabric>
<https://learn.microsoft.com/en-us/fabric/enterprise/licenses>
<https://learn.microsoft.com/en-us/power-bi/enterprise/service-premium-smoothing>
<https://learn.microsoft.com/en-us/fabric/data-engineering/spark-job-concurrency-and-queueing>

Microsoft Fabric Capacity Usage

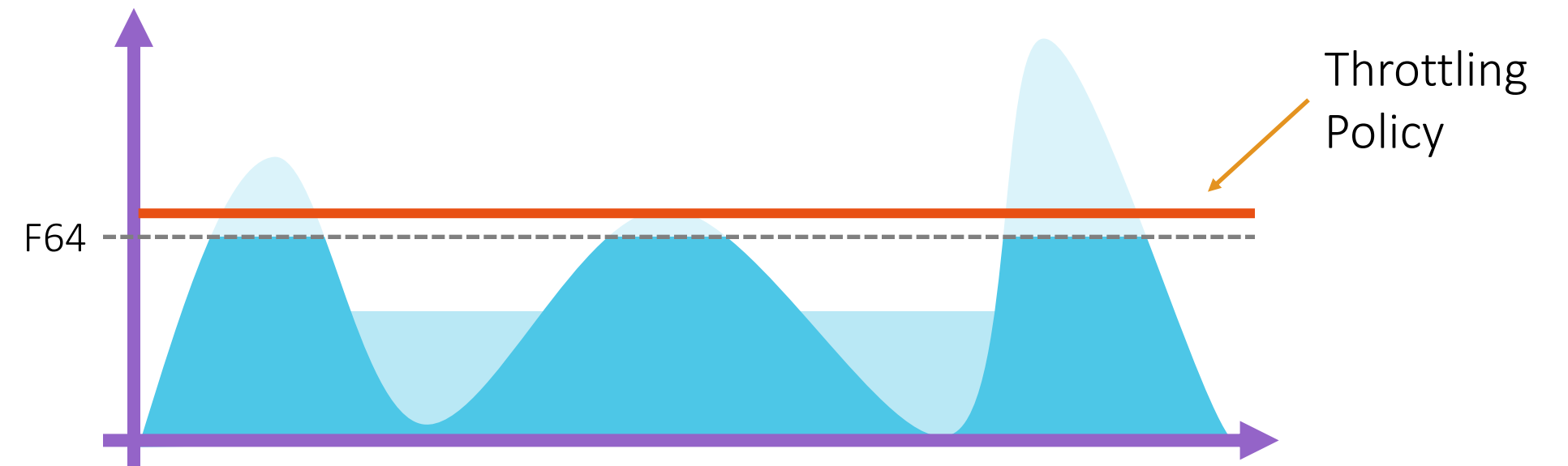


- Data Integration
- Data Engineering
- Data Warehouse
- Data Science
- Real-time Analytics
- Business Intelligence
- Data Activator
- One Lake



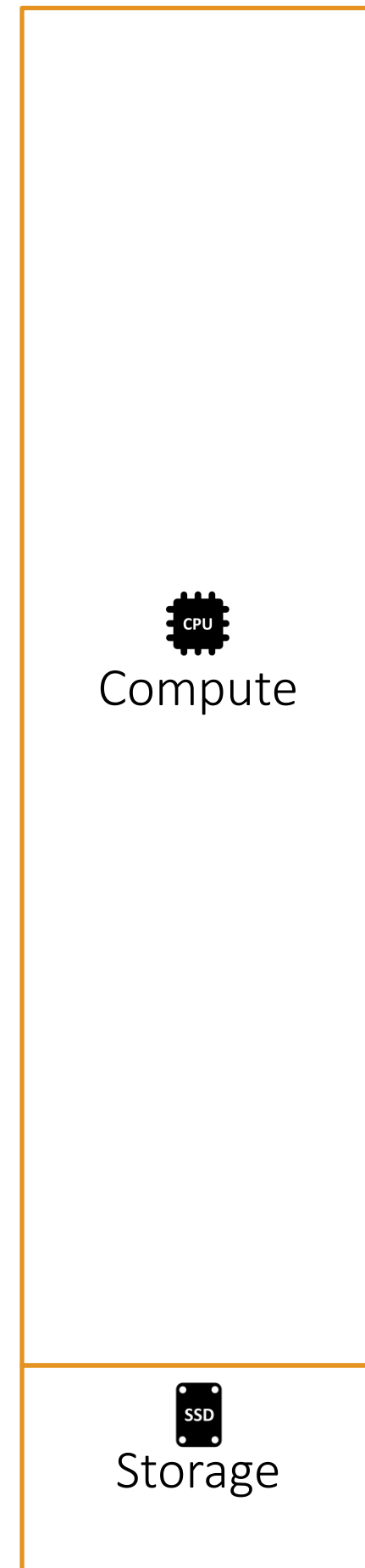
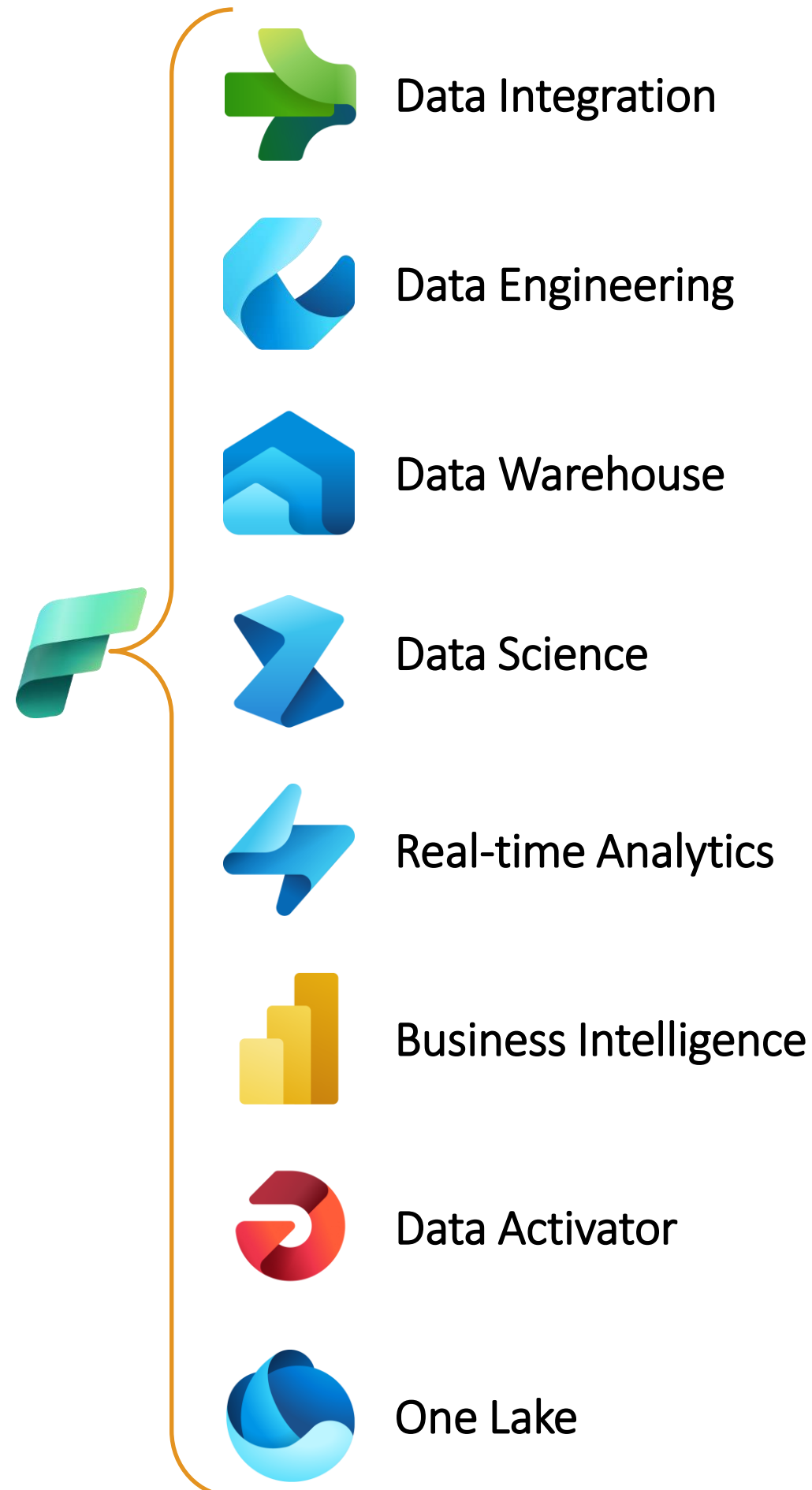
Throttling

“Throttling occurs when a tenant’s capacity consumes more capacity resources than it has purchased. Too much throttling can result in a degraded end-user experience. A Microsoft Fabric tenant can create multiple capacities and assign workspaces to a specific capacity for billing and sizing.”



Reference:
<https://learn.microsoft.com/en-us/fabric/enterprise/throttling>

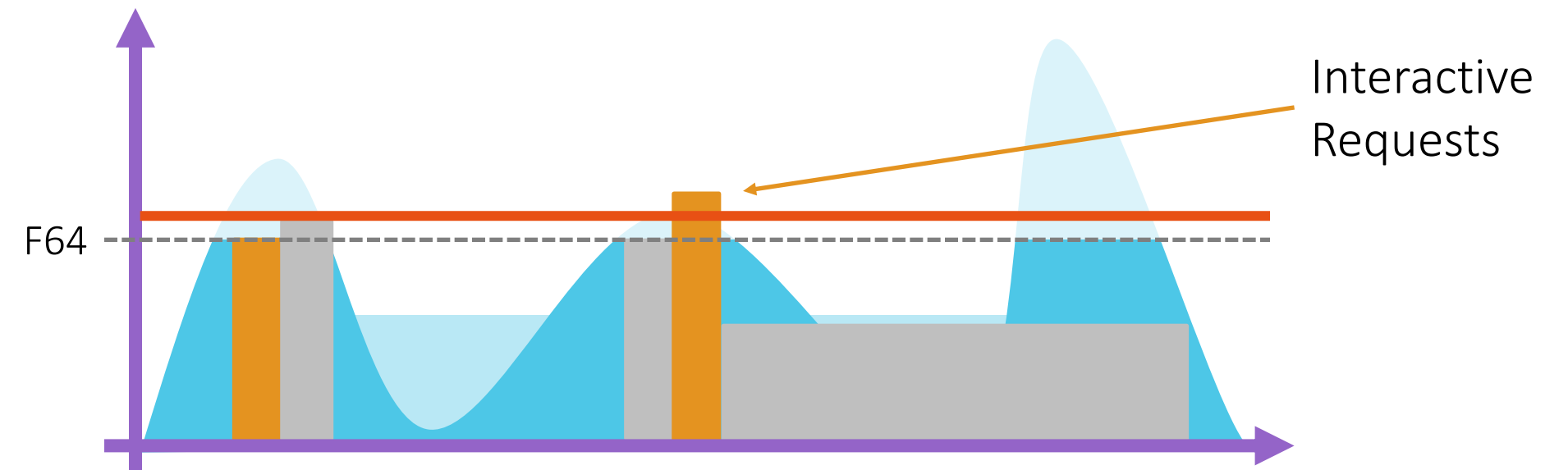
Microsoft Fabric Capacity Usage



Operation Types

Interactive – On-demand requests and operations that can be triggered by user interactions with the UI, such as data model queries generated by report visuals, are classified as interactive operations.

Background – Longer running operations such as semantic model or dataflow refreshes are classified as background operations. They can be triggered manually by a user, or automatically without user interaction.



Reference:
<https://learn.microsoft.com/en-us/fabric/enterprise/fabric-operations>

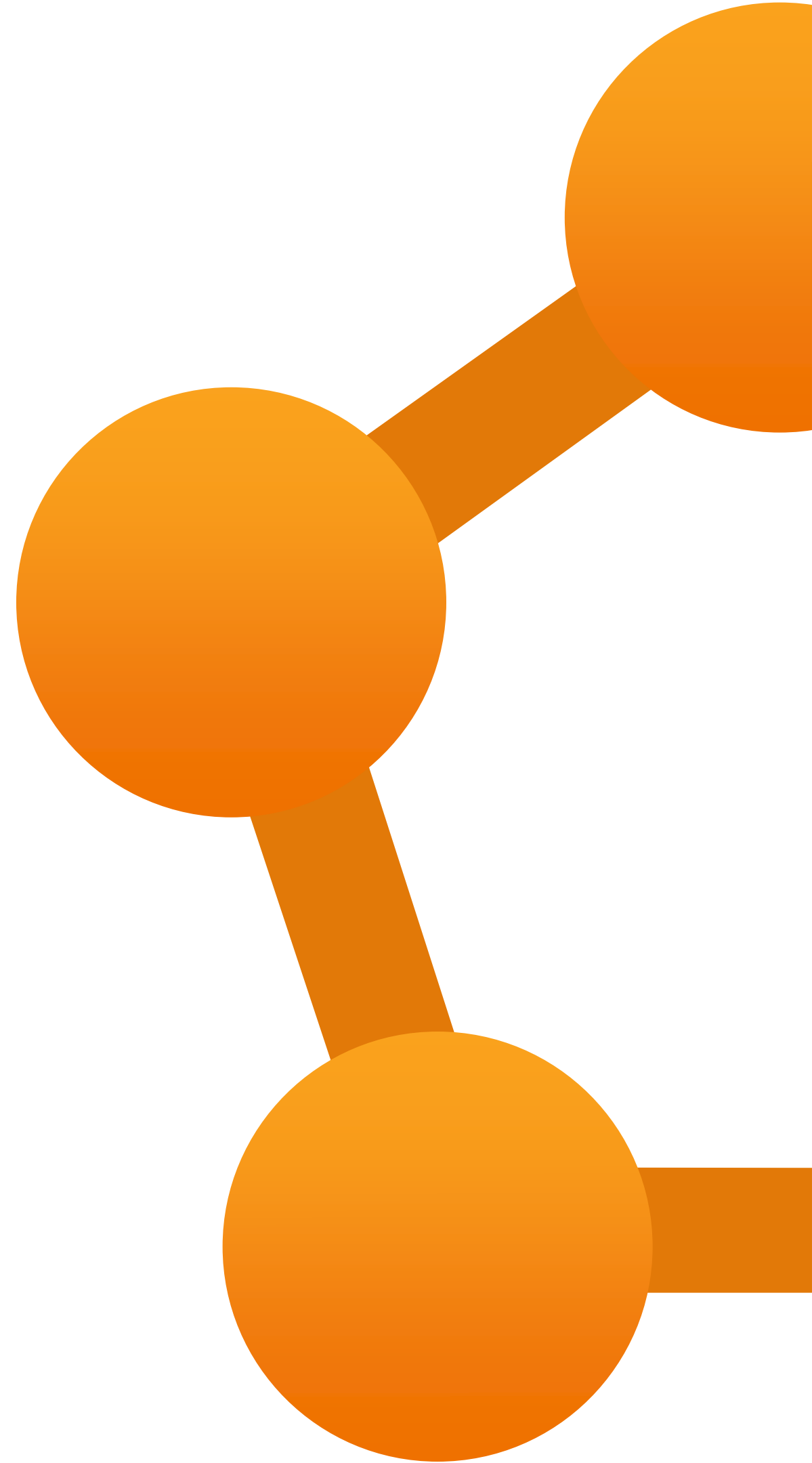


Copilot is a background operation.

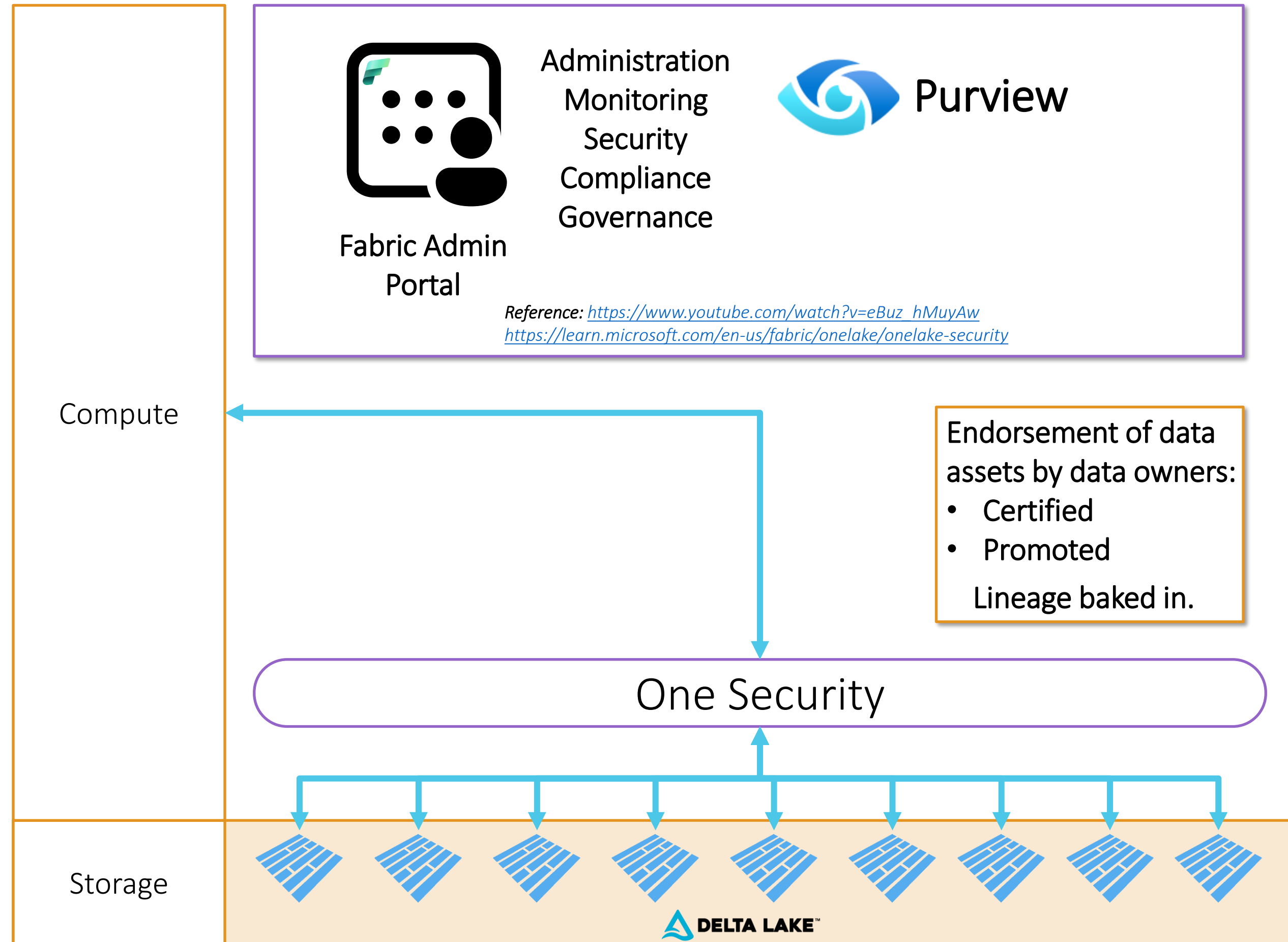
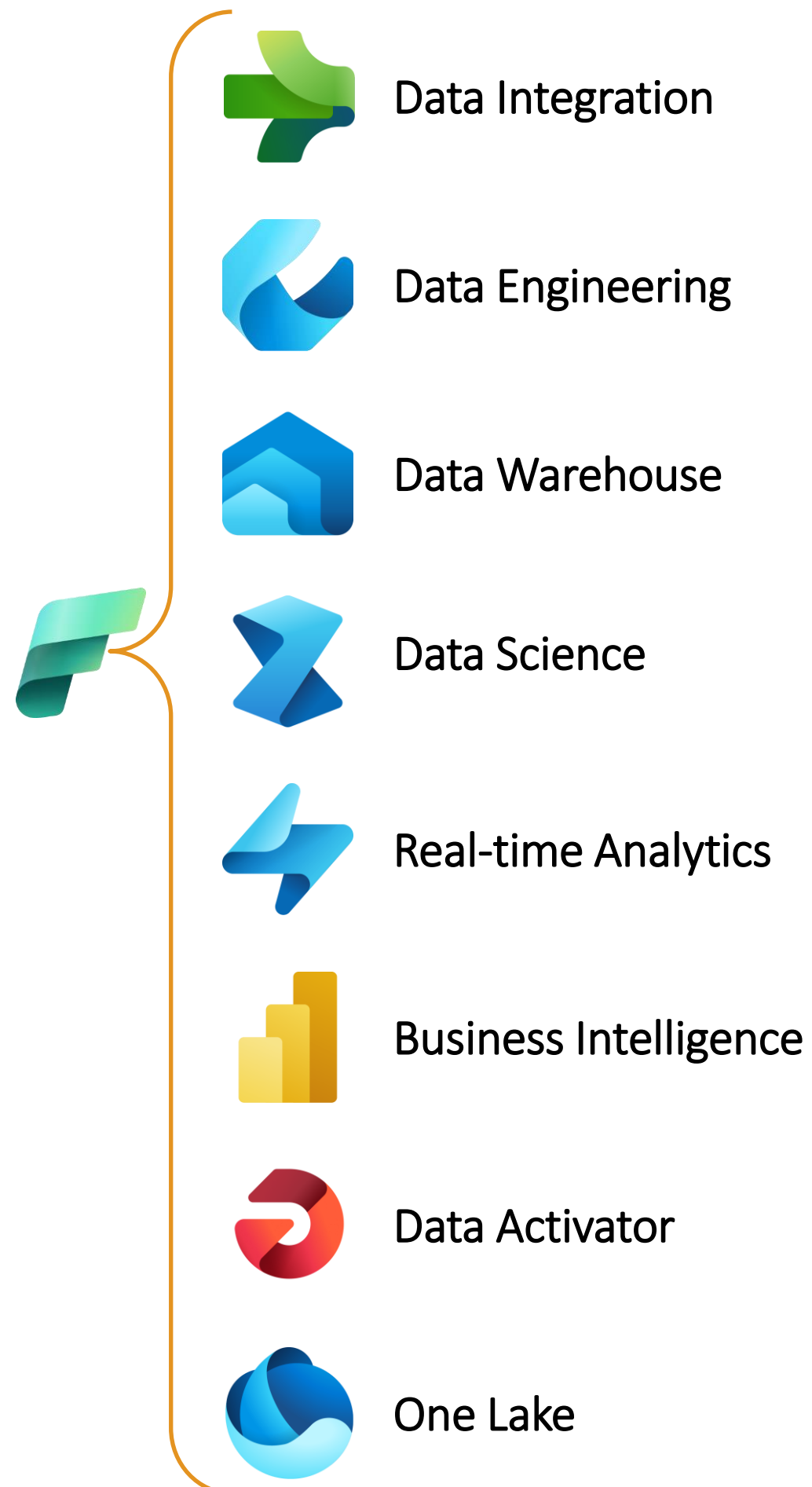
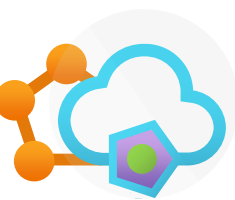
“Compute cost associated with input prompts and output completion”

Governance – *The Story So Far*

Cloud Formations











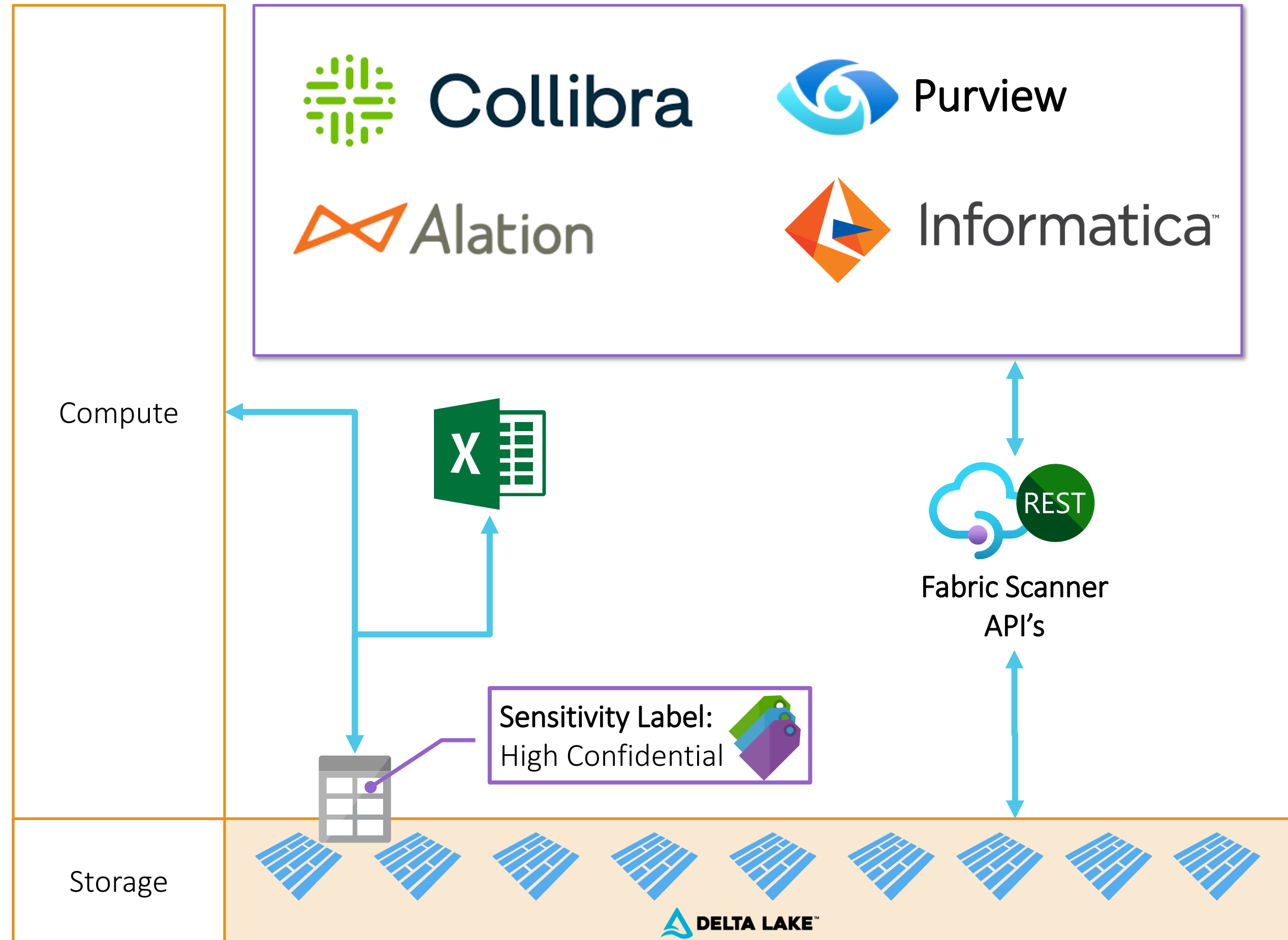
Improving Governance – One Security & Admin



Improving Governance – Sensitivity & Tooling



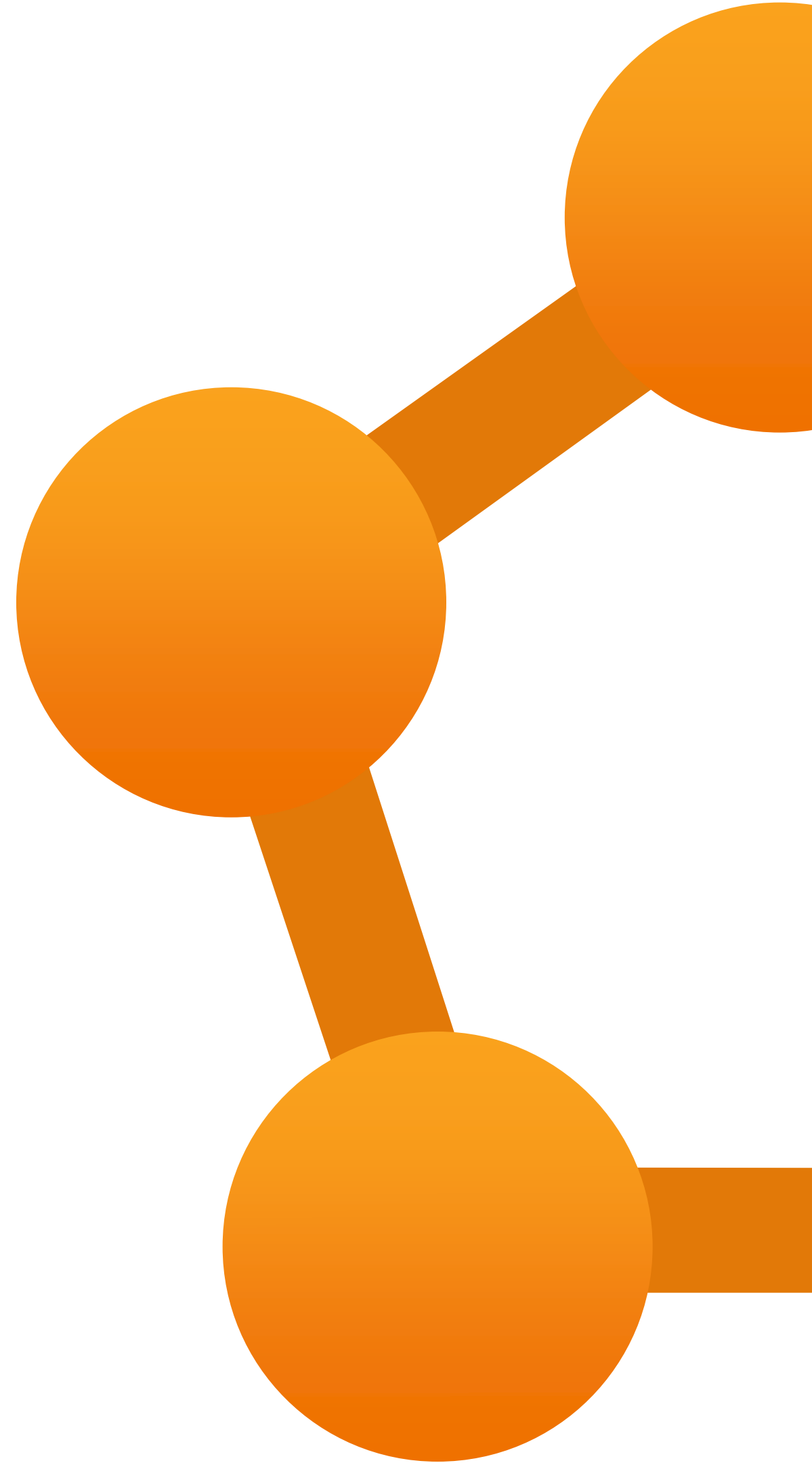
-  Data Integration
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-  Data Activator
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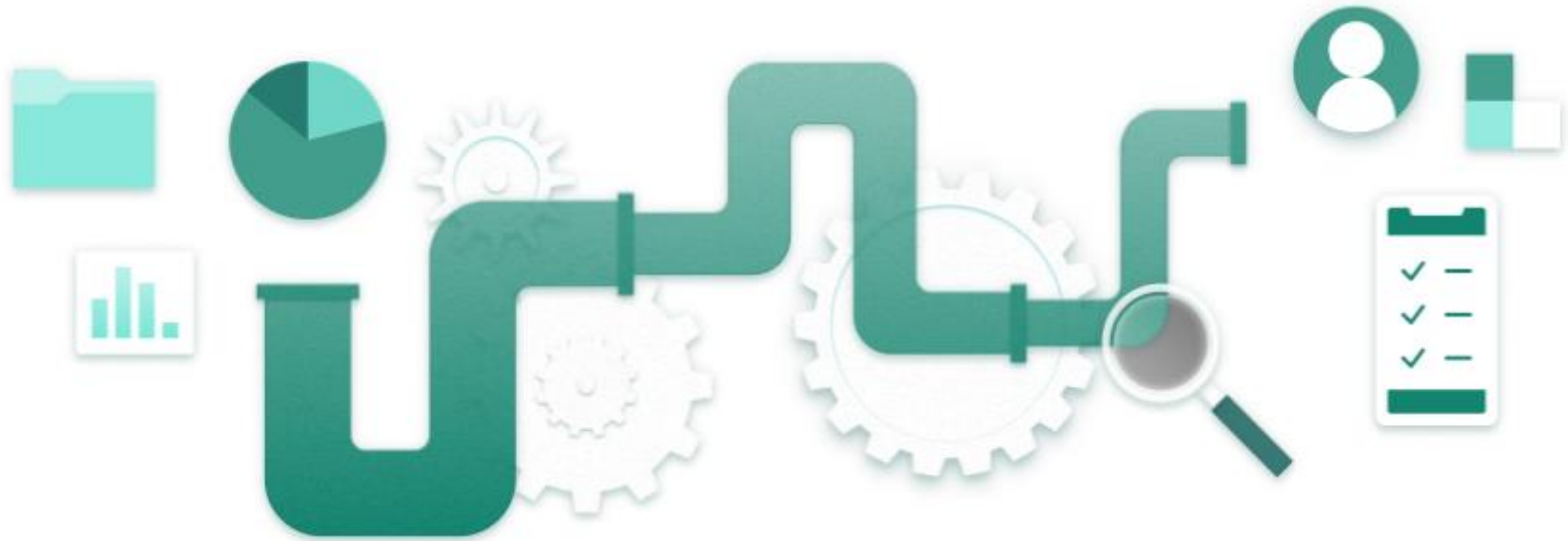
Source Control & Deployments

– *The Story So Far*

Cloud Formations

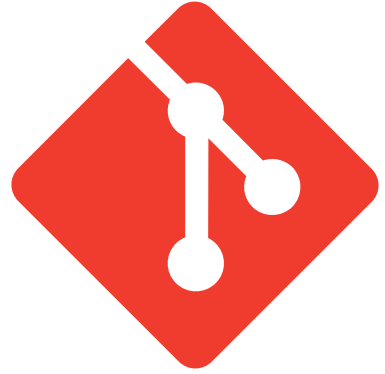


Source Control & Deployments – Things I Like



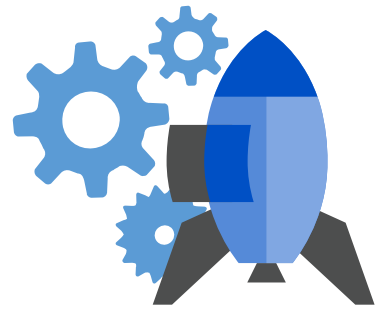
We have a nice graphic in the UI.

Source Control & Deployments



Most items still only preview support, or not at all.

<https://learn.microsoft.com/en-us/fabric/cicd/git-integration/intro-to-git-integration>

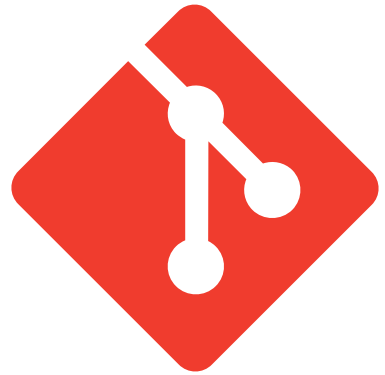


Very simple change comparisons. No dynamic pipelines.

Unable to deploy items built in 'My Workspace'.

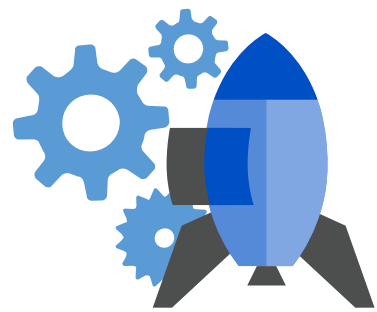
<https://learn.microsoft.com/en-us/fabric/cicd/deployment-pipelines/intro-to-deployment-pipelines>

Source Control & Deployments



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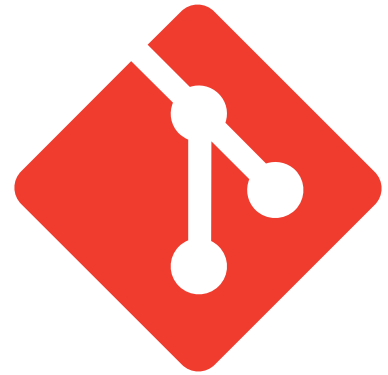
Very simple change comparisons. No dynamic pipelines.

Fall back to the Fabric APIs

Unable to deploy items built in my workspace.

<https://learn.microsoft.com/en-us/fabric/cicd/deployment-pipelines/intro-to-deployment-pipelines>

Source Control & Deployments



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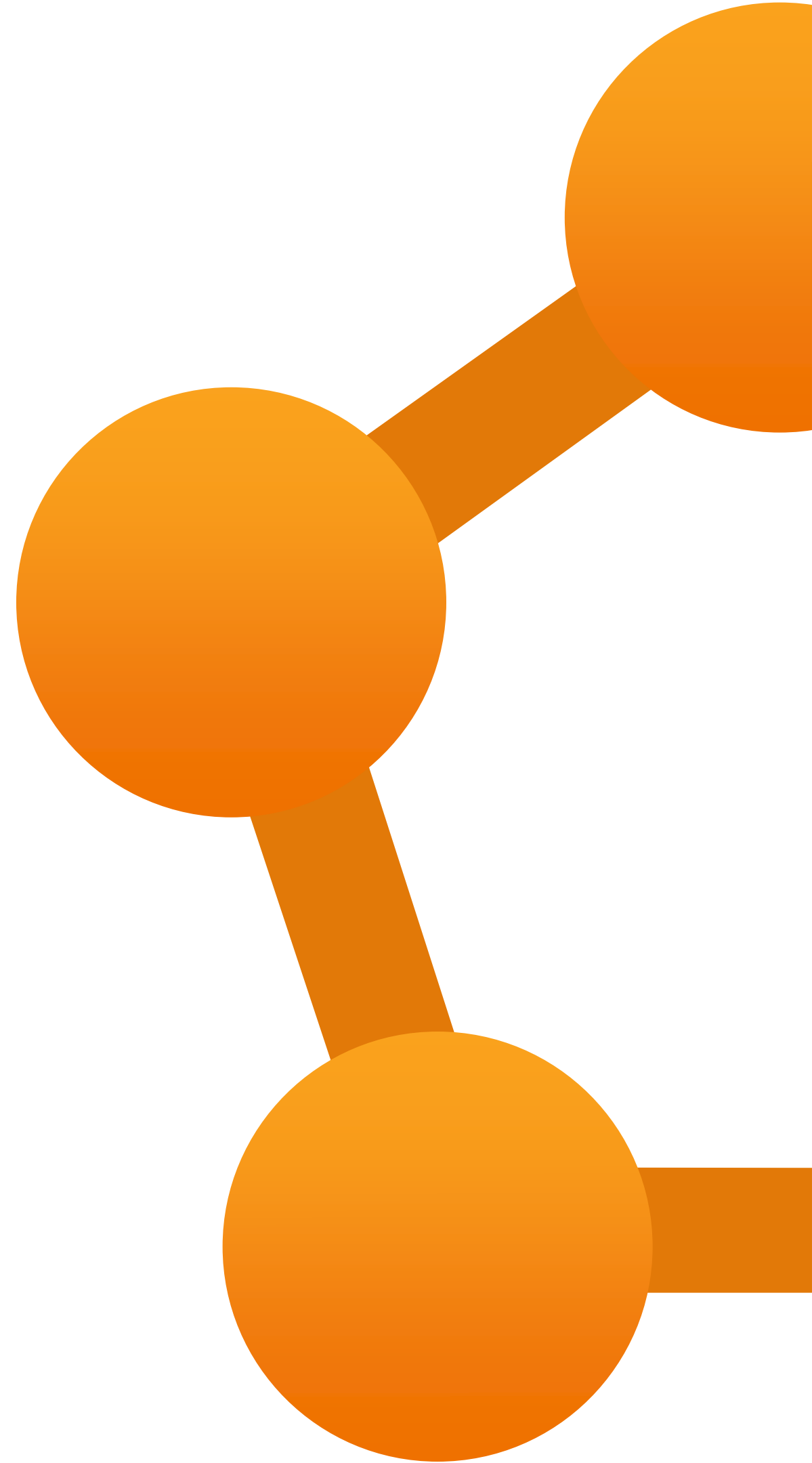
<https://learn.microsoft.com/en-us/fabric/cicd/deployment-pipelines/intro-to-deployment-pipelines>



POWER BI SENTINEL

Implementation Options & Current Conclusions

Cloud Formations



Implementation Options – That we have seen work well.

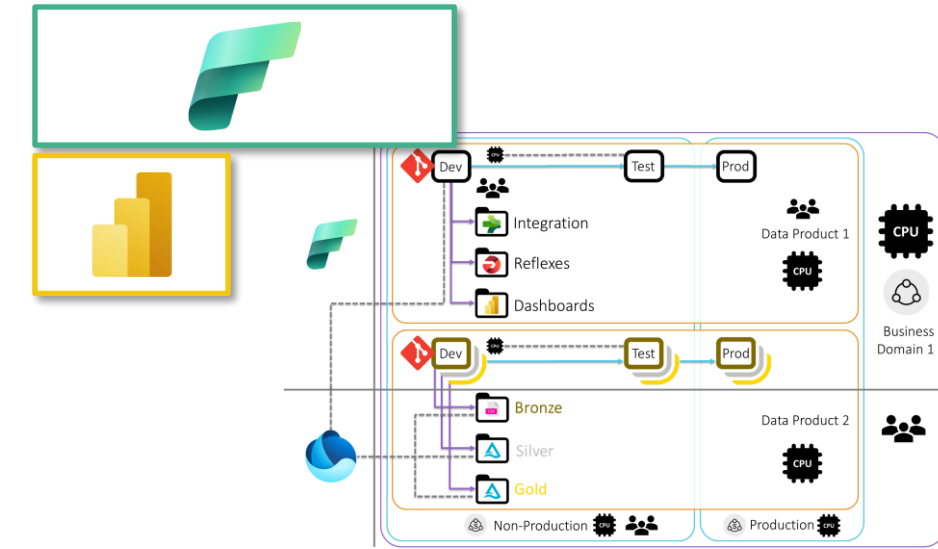
Option 1 – Create an *extended* proof of concept solution.

Scope

Target a subset of use cases aligned to two/three experiences or ‘Happy Path’ patterns within the Microsoft Fabric product. Keeping the development effort small.

Objective

Deliver business value from the use cases on the data plane. Establish development team practices, change manage and access models as a secondary exercise.



Implementation Options – That we have seen work well.

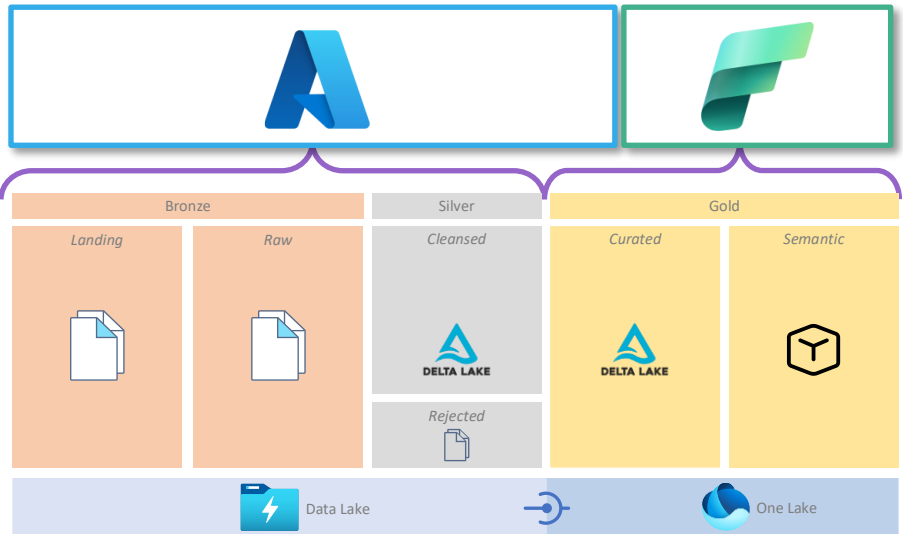
Option 2 – Mount existing data products from Azure into Fabric for serving and exploration.

Scope

Using Delta Lake open-standards to expose Data Lake entities from a curated data layer into Microsoft Fabric with mounting capabilities. Serve data as a parallel process.

Objective

Explore the Fabric ecosystem using existing data product outputs. Gain environment understanding and upskill delivery teams without affecting data delivery.



Implementation Options – That we have seen work well.

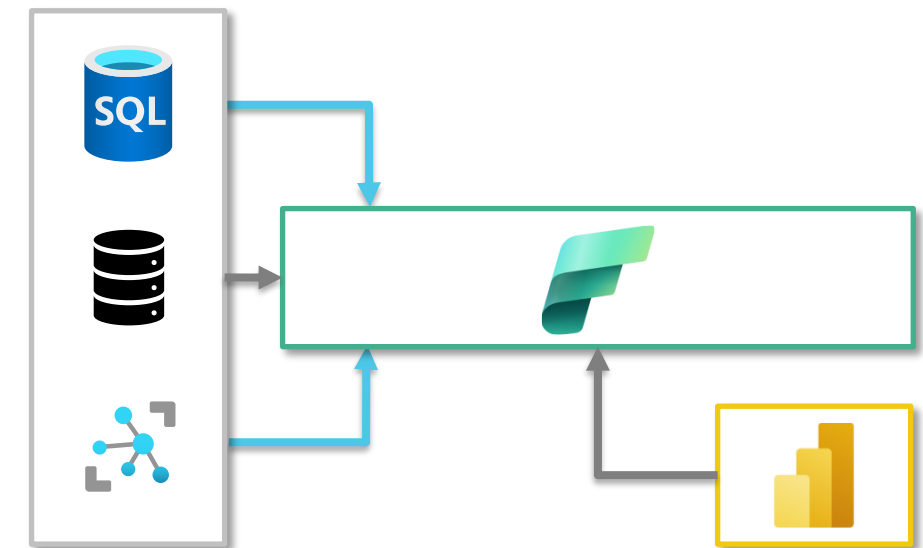
Option 3 – Migration of existing solutions either on premises or in Azure into Fabric.

Scope

Exploit the innovations in Microsoft Fabric from a data ingestion and serving perspective as replacements to current ETL/ELT workloads. Rehost, refactor, rearchitect, rebuild, replace.

Objective

Simply data product total cost of ownership with advantages of Fabric, reducing licencing costs and existing infrastructure maintenance.



Implementation Options – That we have seen work well.

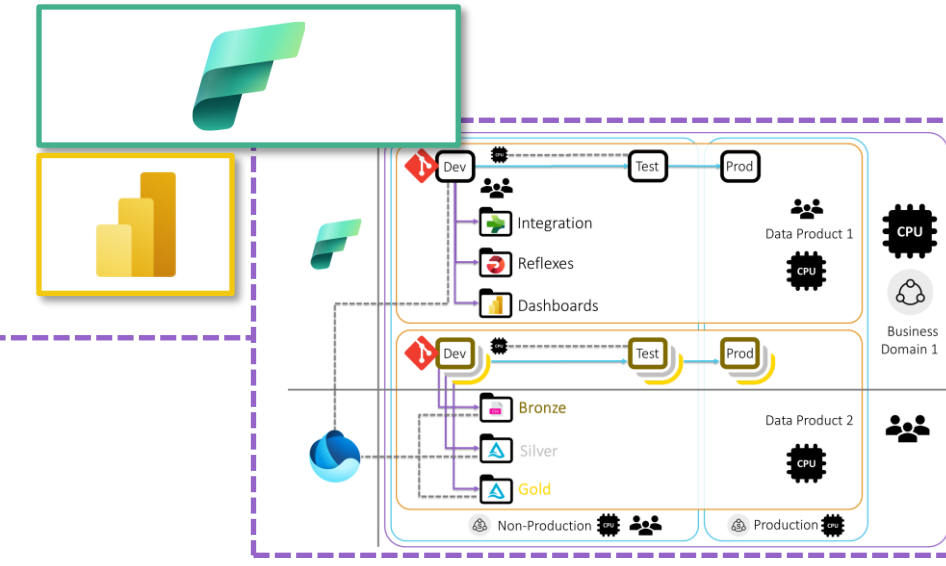
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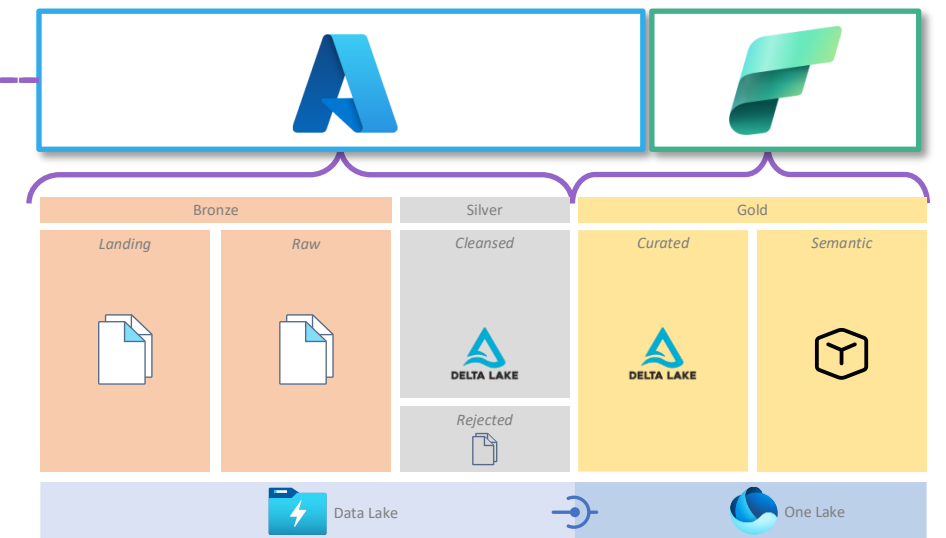
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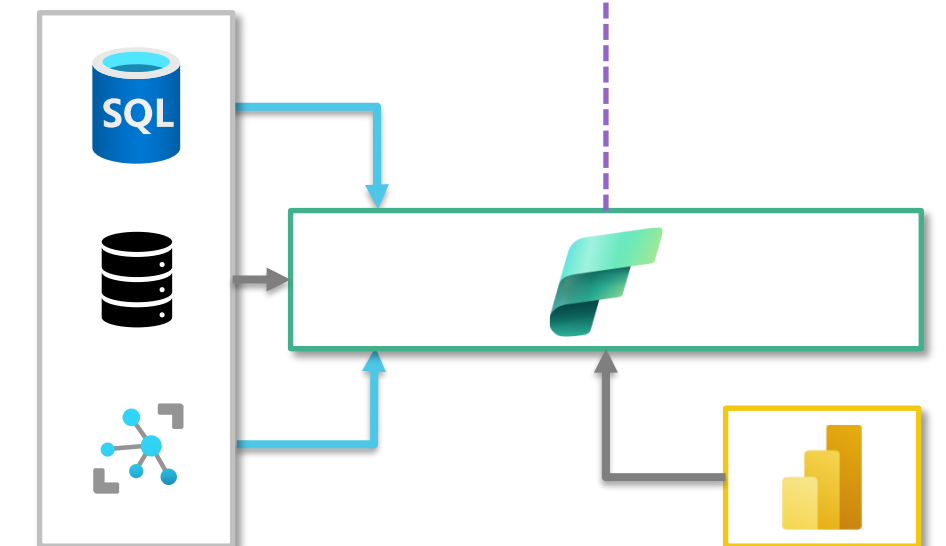
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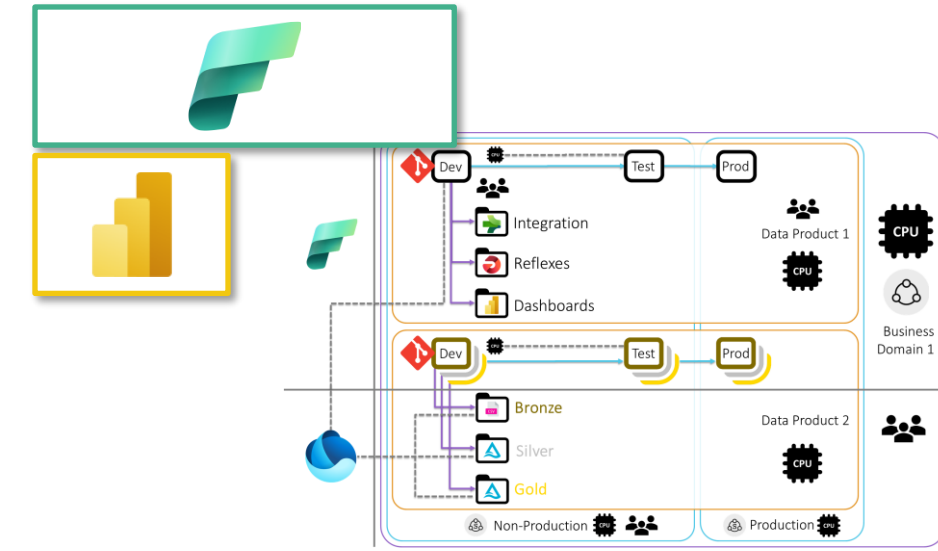
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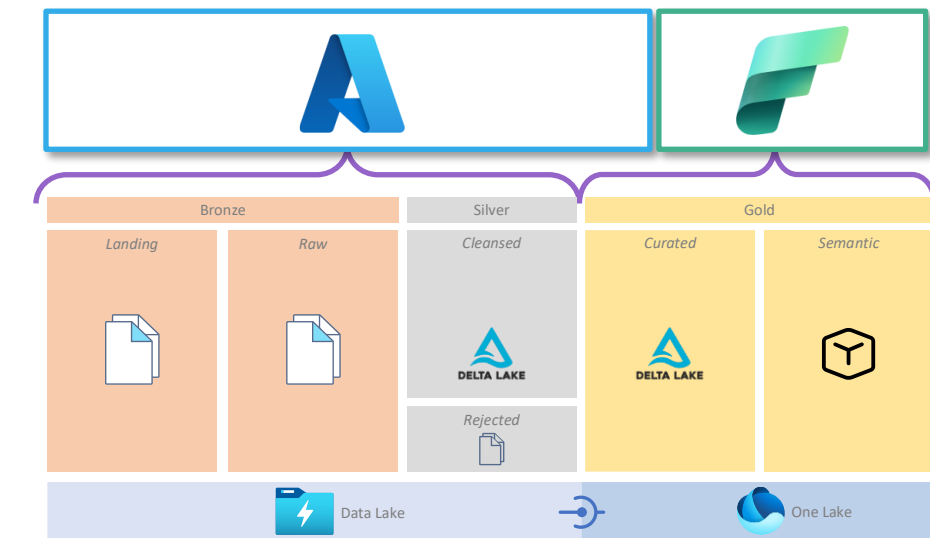


Implementation Options – Consider a Wider Technical Strategy

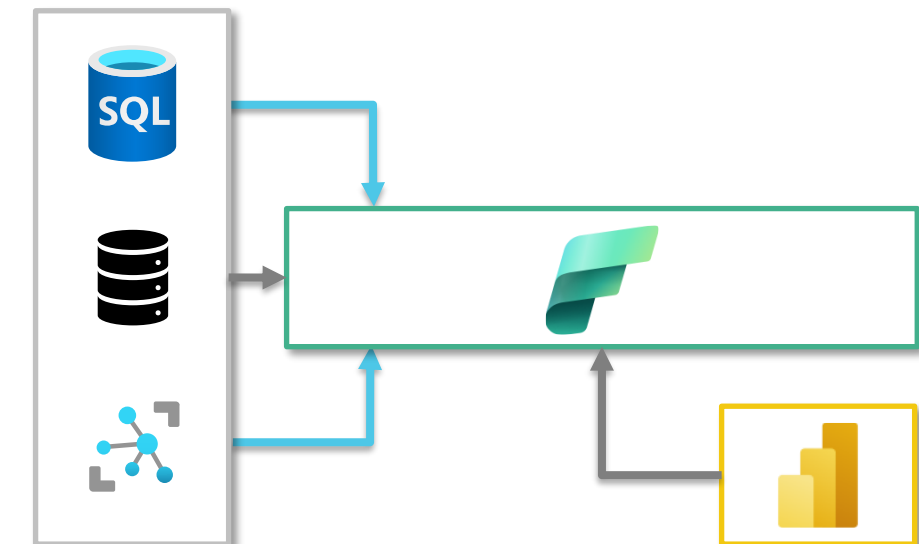
Option 1 – Create an extended proof of concept solution.



Option 2 – Mount existing data products from Azure into Fabric for serving and exploration.

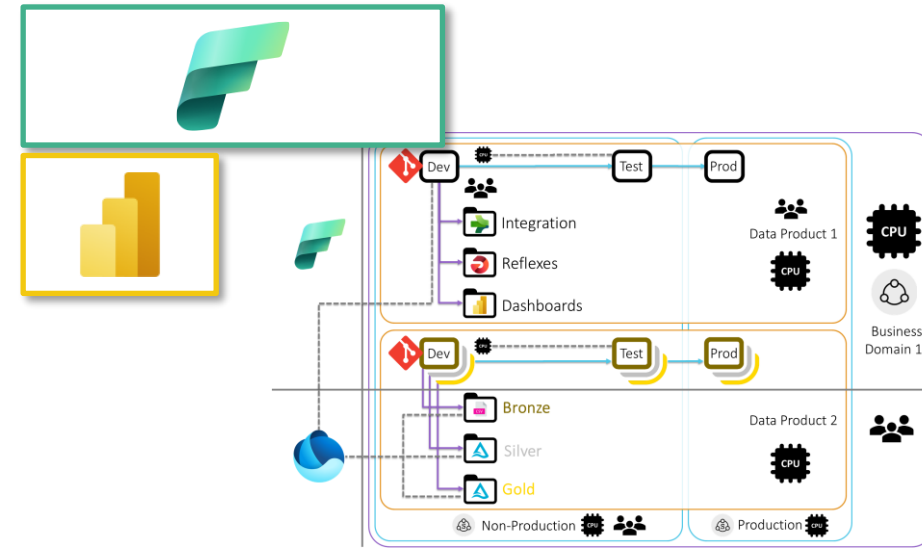


Option 3 – Migration of existing solutions either on premises or in Azure into Fabric.

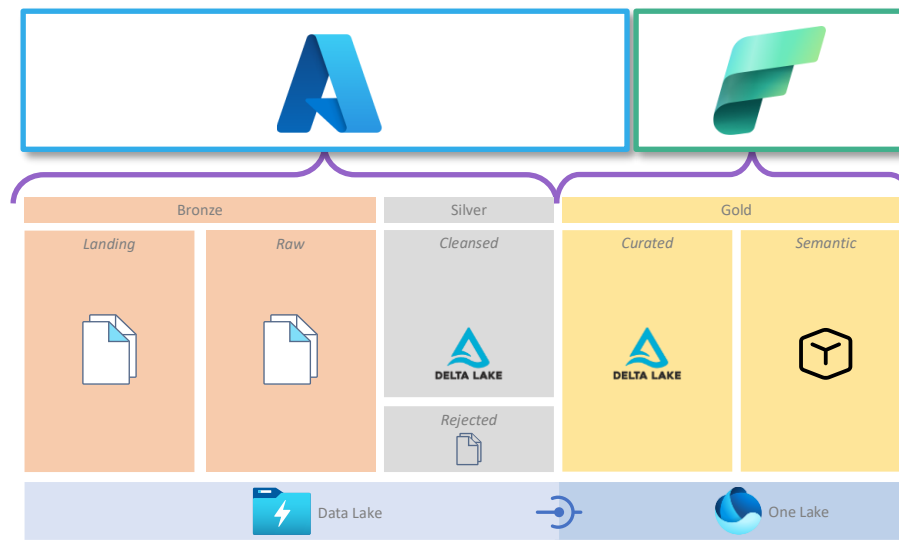


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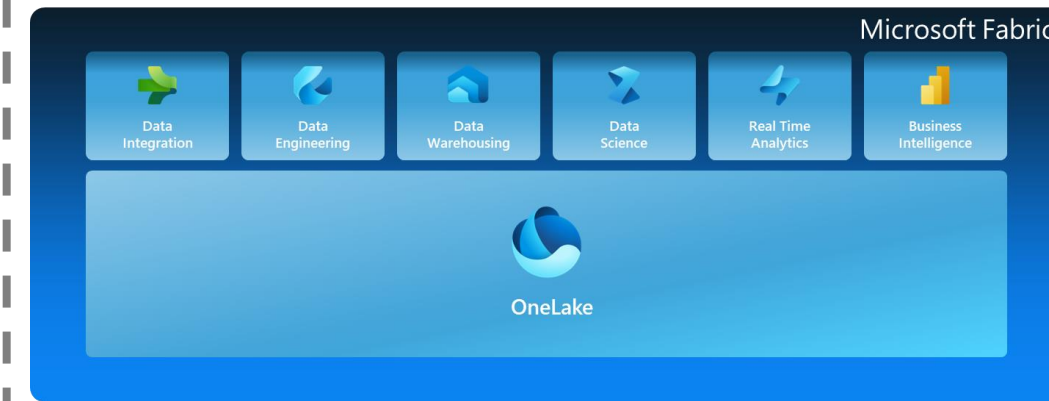
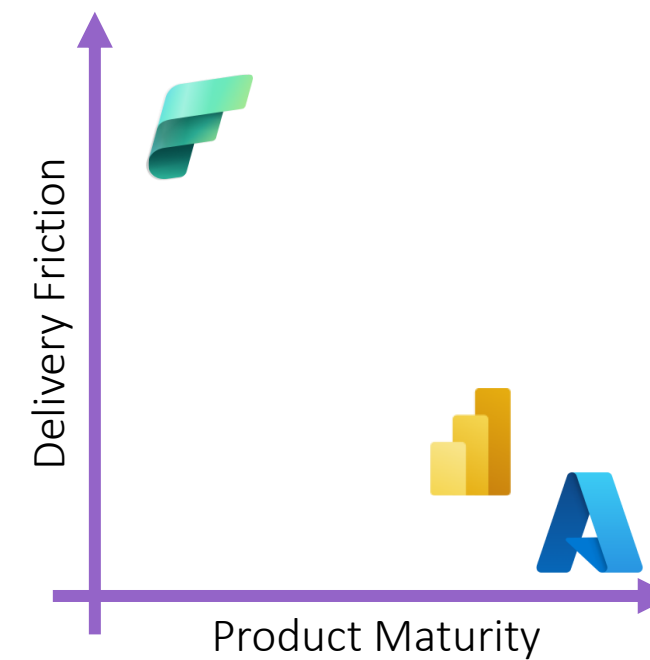
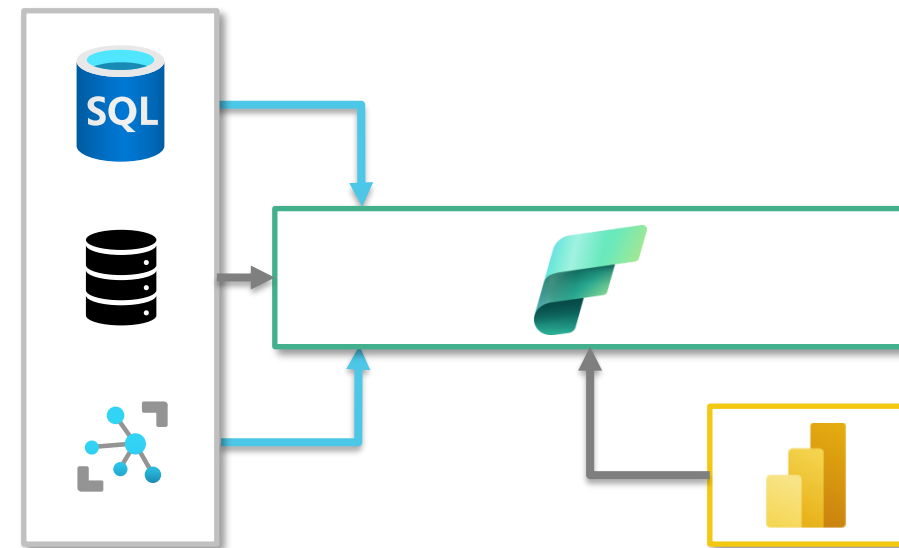
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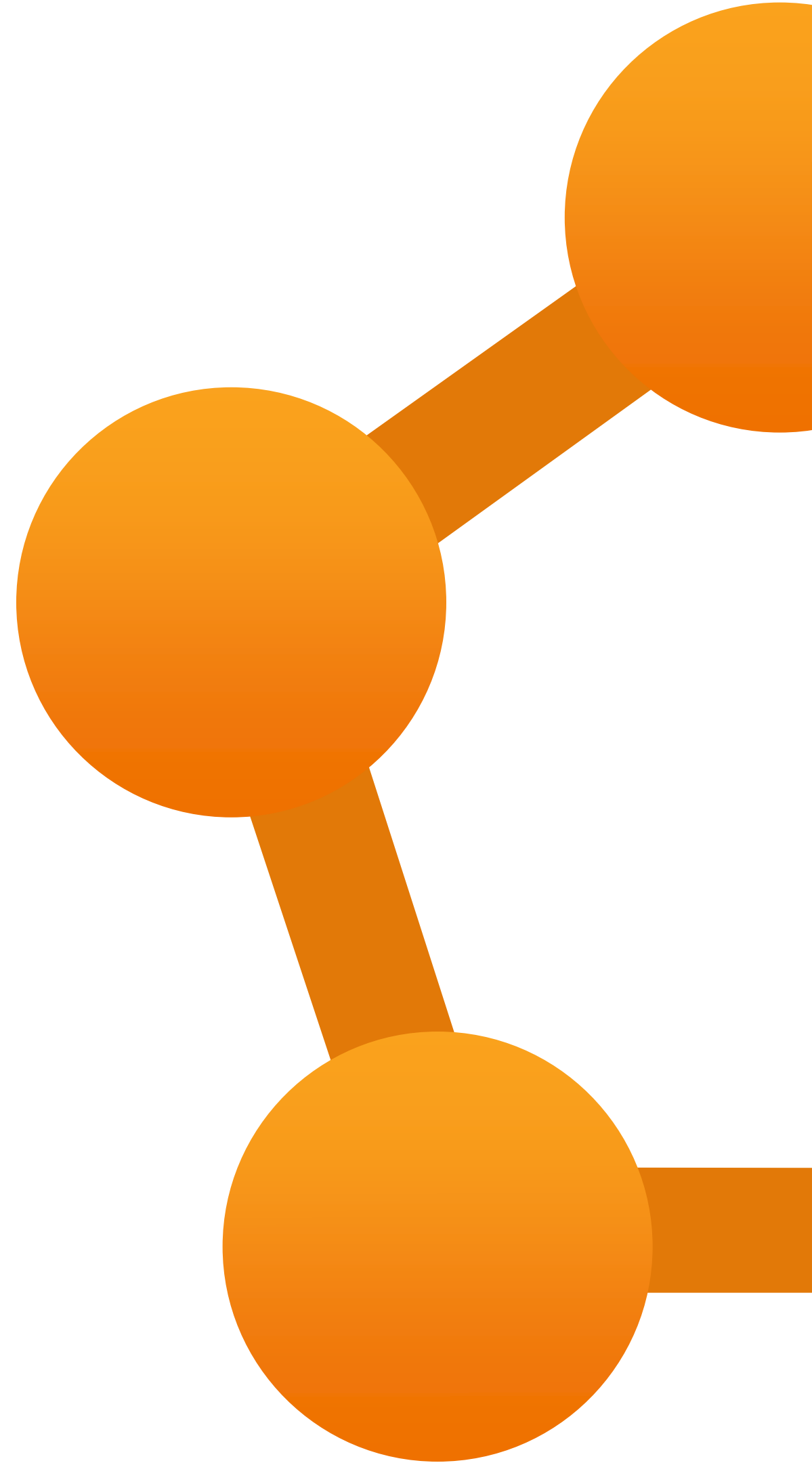
Option 3 – Migration of existing solutions either on premises or in Azure into Fabric.



An evolution of implementation efforts and learnings to date. Giving us solid foundations to create a complete Microsoft Fabric solution.

Wrap Up

Cloud Formations



Training Catalogue

Cloud Formations Proudly presents...

Fabric Real-time Intelligence

The cover features the Microsoft Fabric logo on the left and a central cluster of icons representing various data and analytics services, including a bar chart, a pie chart, and a document icon.

Cloud Formations Proudly presents...

Compute & Storage 101

The cover displays the letters 'A', a blue cylinder representing a storage tank, and a grid of blue squares representing data or storage blocks.

Cloud Formations Proudly presents...

Integration Pipelines

The cover shows three stylized pipes of different colors (yellow, blue, and orange) connected in a sequence, representing data integration.

Cloud Formations Proudly presents...

Intelligent Automation

The cover features three blue geometric shapes: a ribbon-like arrow, a chevron, and a cube, symbolizing automation and process flow.

Cloud Formations Proudly presents...

Fabric for the Business User

The cover shows a series of blue and green arrows pointing right, with a bar chart and a pie chart at the end, representing business user interaction with data.

Cloud Formations Proudly presents...

Microsoft Fabric for the Platform Administrator (DBA)

The cover includes icons for a person, a network diagram, a green ribbon, a blue ribbon, and a blue ribbon with a star, representing platform administration.

Cloud Formations Proudly presents...

Creating a Data Lakehouse

The cover shows three data grids connected by arrows, with the Delta Lake logo and the text 'DELTA LAKE' at the bottom.

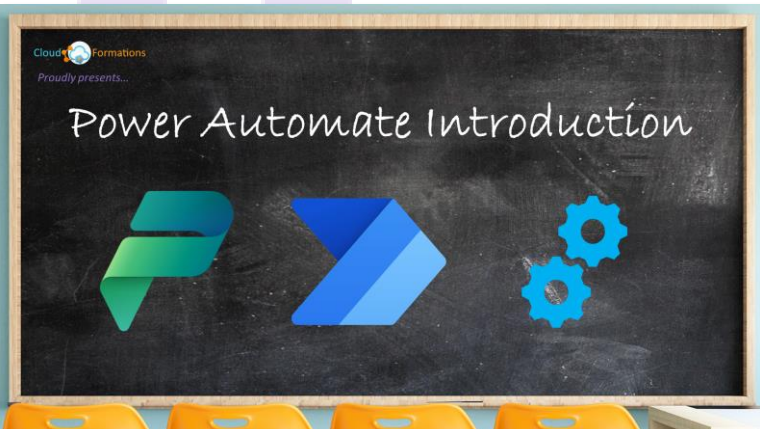
Cloud Formations Proudly presents...

Engineering with Apache Spark

The cover features the Apache Spark logo, a star, and a Python logo, representing data engineering.

Cloud Formations Proudly presents...

Power Automate Introduction

The cover shows the Power Automate logo, a blue ribbon, and a gear icon, representing workflow automation.

Cloud Formations Proudly presents...

Getting Started with Fabric Learn By Doing

The cover displays a grid of various icons representing different data and analytics services, including a bar chart, a pie chart, and a document icon.

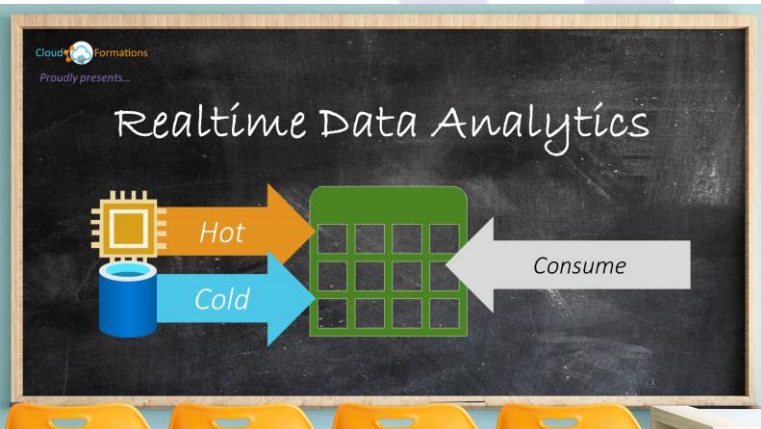
Cloud Formations Proudly presents...

Power BI Essentials

The cover features a bar chart, a pie chart, and a purple starburst icon, representing data visualization.

Cloud Formations Proudly presents...

Realtime Data Analytics

The cover shows a data grid with arrows labeled 'Hot', 'Cold', and 'Consume', representing real-time data processing.

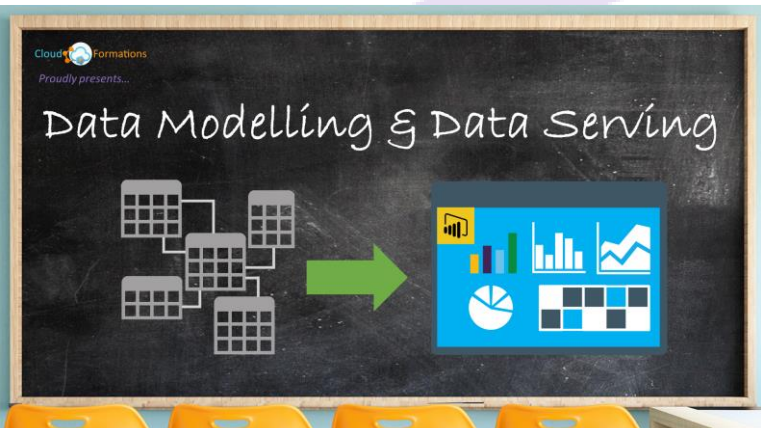
Cloud Formations Proudly presents...

Power Apps Essentials

The cover features the Power Apps logo and a purple ribbon, representing application development.

Cloud Formations Proudly presents...

Data Modelling & Data Serving

The cover shows a data grid with an arrow pointing to a dashboard with various charts, representing data modeling and serving.

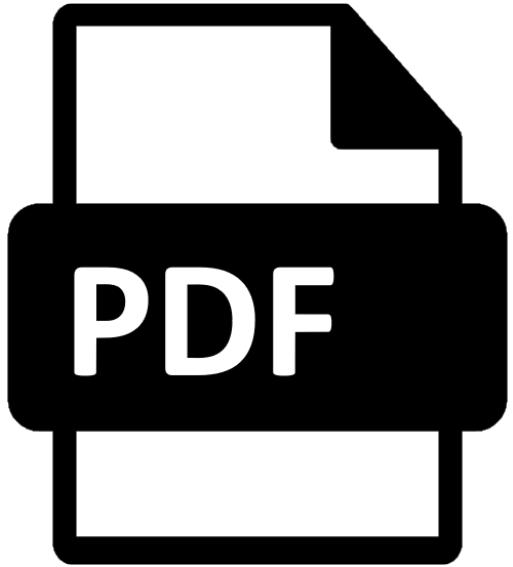
cloudformations.org/training-courses



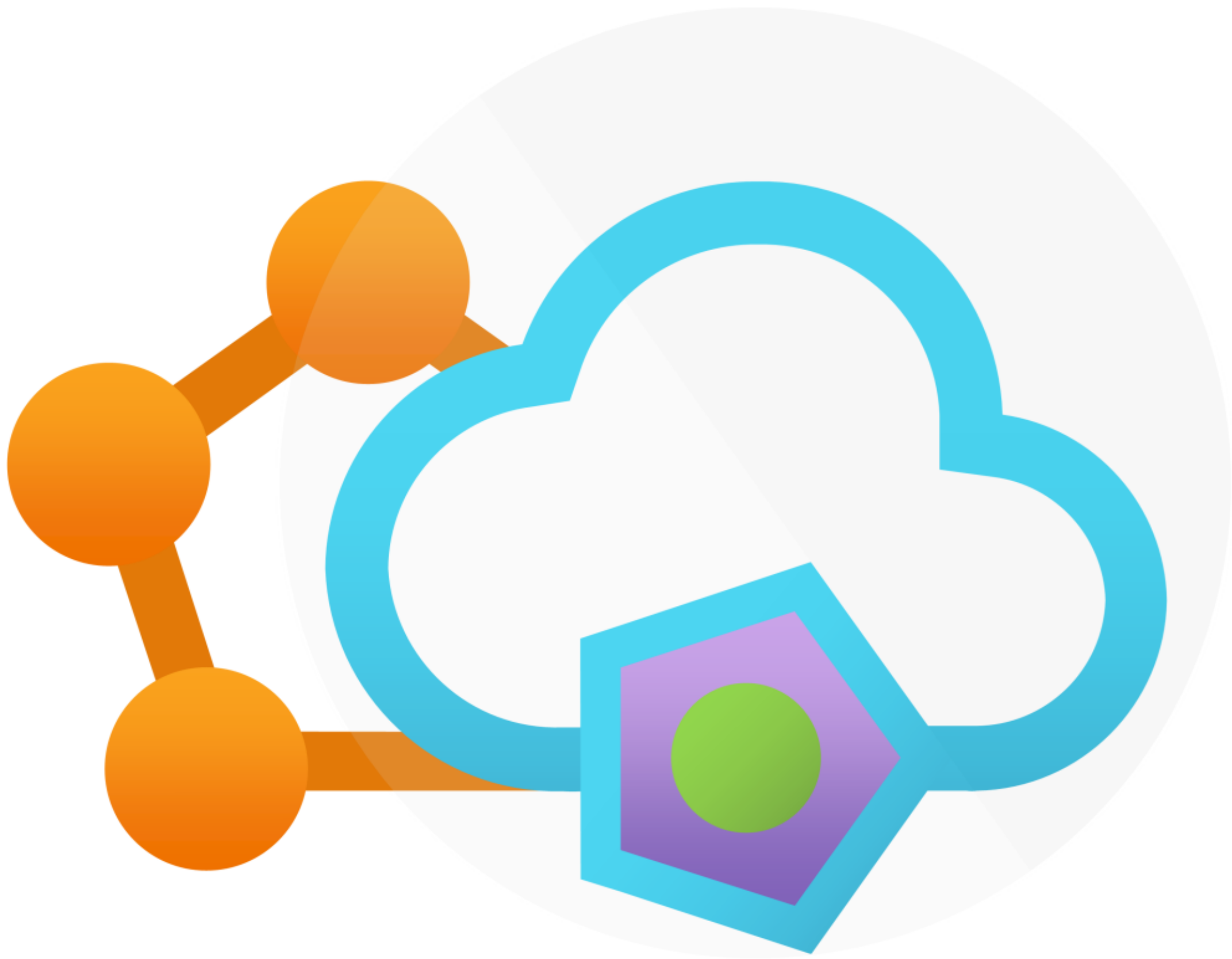
The screenshot shows the Cloud Formations website with a navigation menu (Home, About, Services, Resources, Careers, Contact Us) and a large image of a community event. Below the image is a presentation slide titled "How Can Microsoft Fabric Have an Impact on Your Business?". The slide includes the following details:

- Speaker: Paul Andrew
- Date: 13 July 2023
- Hosts: Microsoft Fabric- UK User Group

A button labeled "PDF of Slides" is visible on the slide. An orange arrow points from this button to a PDF icon.



<https://www.cloudformations.org/community-content>



Thank You



- mrpaulandrew.com
- paul@mrpaulandrew.com
- [In/mrpaulandrew](https://www.linkedin.com/in/mrpaulandrew)
- [@mrpaulandrew](https://twitter.com/mrpaulandrew)



- <https://cloudformations.org>
- contactus@cloudformations.org
- [In/CloudFormations](https://www.linkedin.com/company/CloudFormations)
- [@CloudFormsLtd](https://twitter.com/CloudFormsLtd)
- [CloudFormationsLtd](https://www.facebook.com/CloudFormationsLtd)

Cloud Formations