

#FABCONSQLCON2026

FABCON

Microsoft Fabric
COMMUNITY CONFERENCE

SQLCON

Microsoft SQL
COMMUNITY CONFERENCE

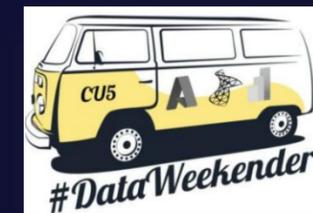
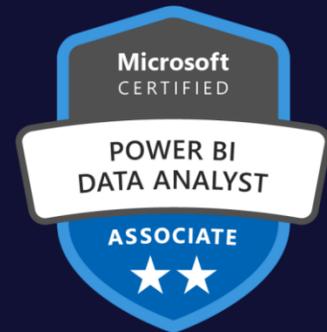
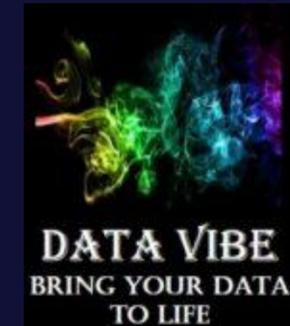
ATLANTA MARCH 16 - 20, 2026



The Fabric Access Puzzle: Cracking Permission Problems with Confidence

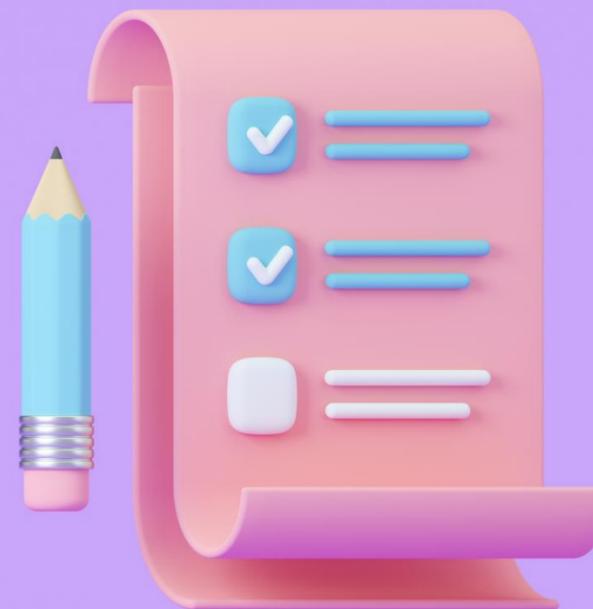
Pragati Jain
Fabric Consultant

- Microsoft Data Platform MVP
- Superuser at Microsoft Fabric Community
- 10+ years of industry experience
- Fabric Consultant, London
- Organizer at DataWeekender conference
- Manager at Microsoft Fabric UK User Group

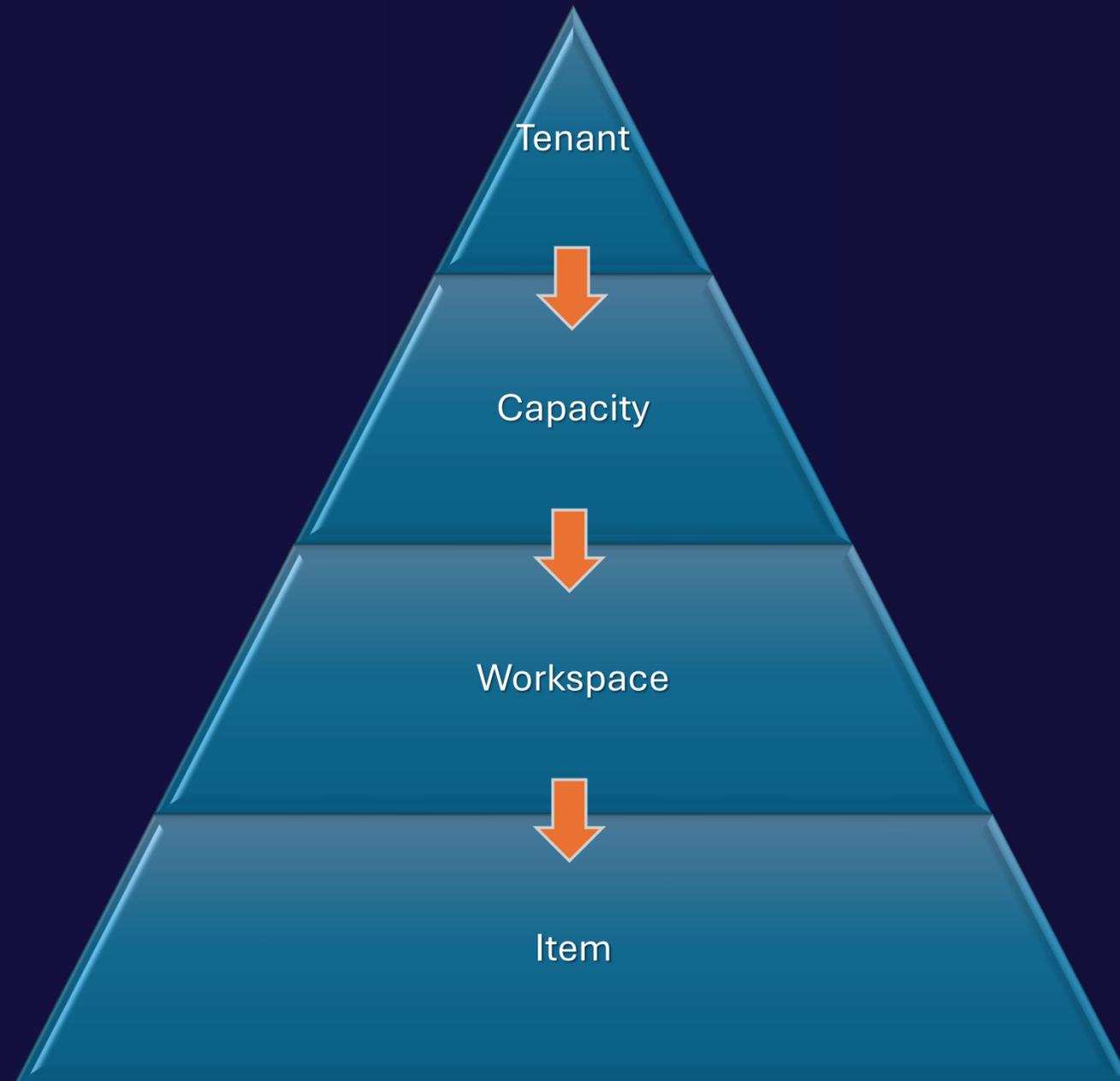


Agenda

- Introduction
- Fabric Security Funnel(Understanding Hierarchy)
- Workspace Roles (The “Big Four”)
- OneLake Data Access (Securing the Tables)
- Internal Data Mesh (Shortcuts)
- Governance & Auditing (Who did What & When)
- Troubleshooting & Takeaways



Fabric Security Funnel



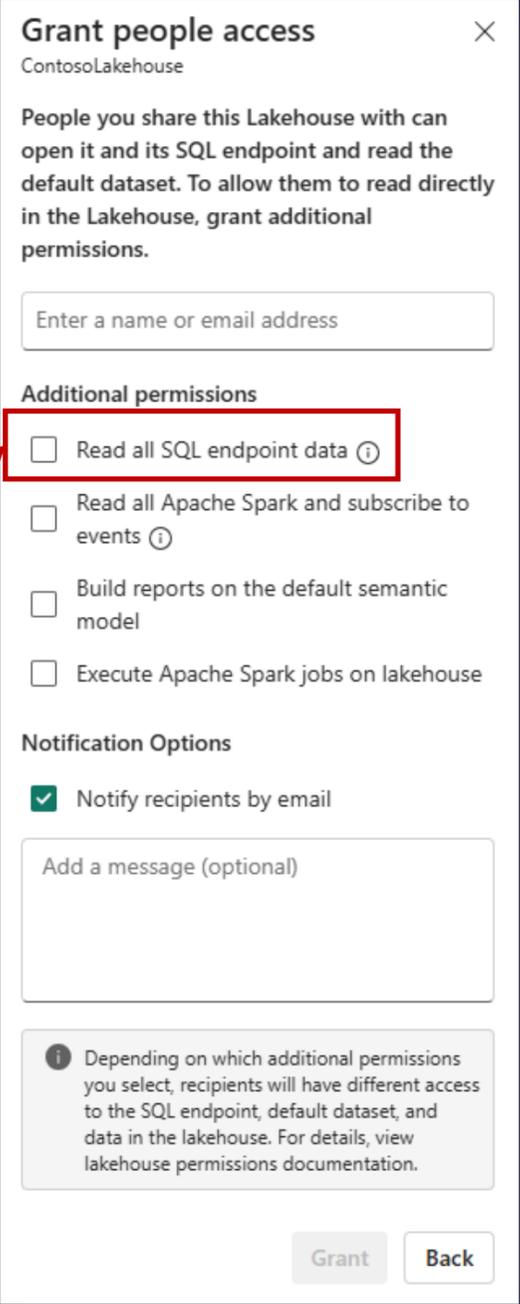
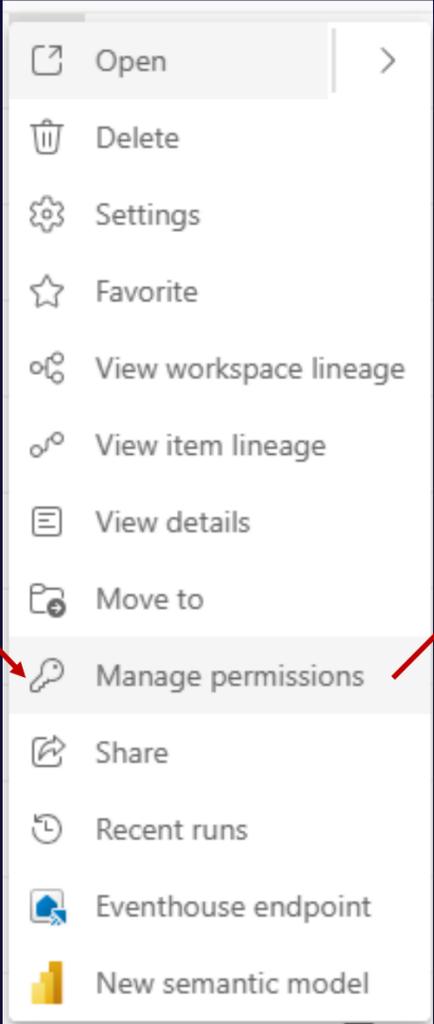
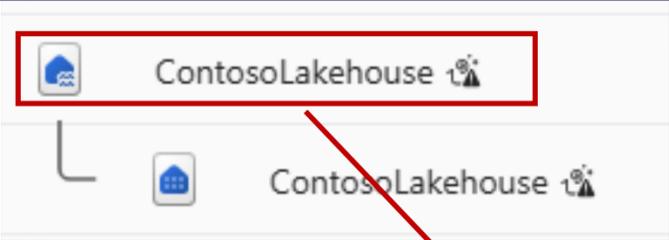
- Multi-layer security: Tenant → Capacity → Workspace → Item
- Workspaces: logical collaboration containers
- Items: Semantic model, reports, notebooks, pipelines, etc.
- Permissions flow top-down, *with item-level overrides*

Workspace Roles – The “Big Four”

Capability	Admin	Member	Contributor	Viewer
Update/Delete Workspace	✓	✗	✗	✗
Add/Remove Users	✓	✓	✗	✗
Create/Edit/Delete Items	✓	✓	✓	✗
Share Items (Reshare)	✓	✓	✗*	✗
Read Metadata (See Item)	✓	✓	✓	✓
Read Data (SQL/Spark)	✓	✓	✓	ReadData Needed

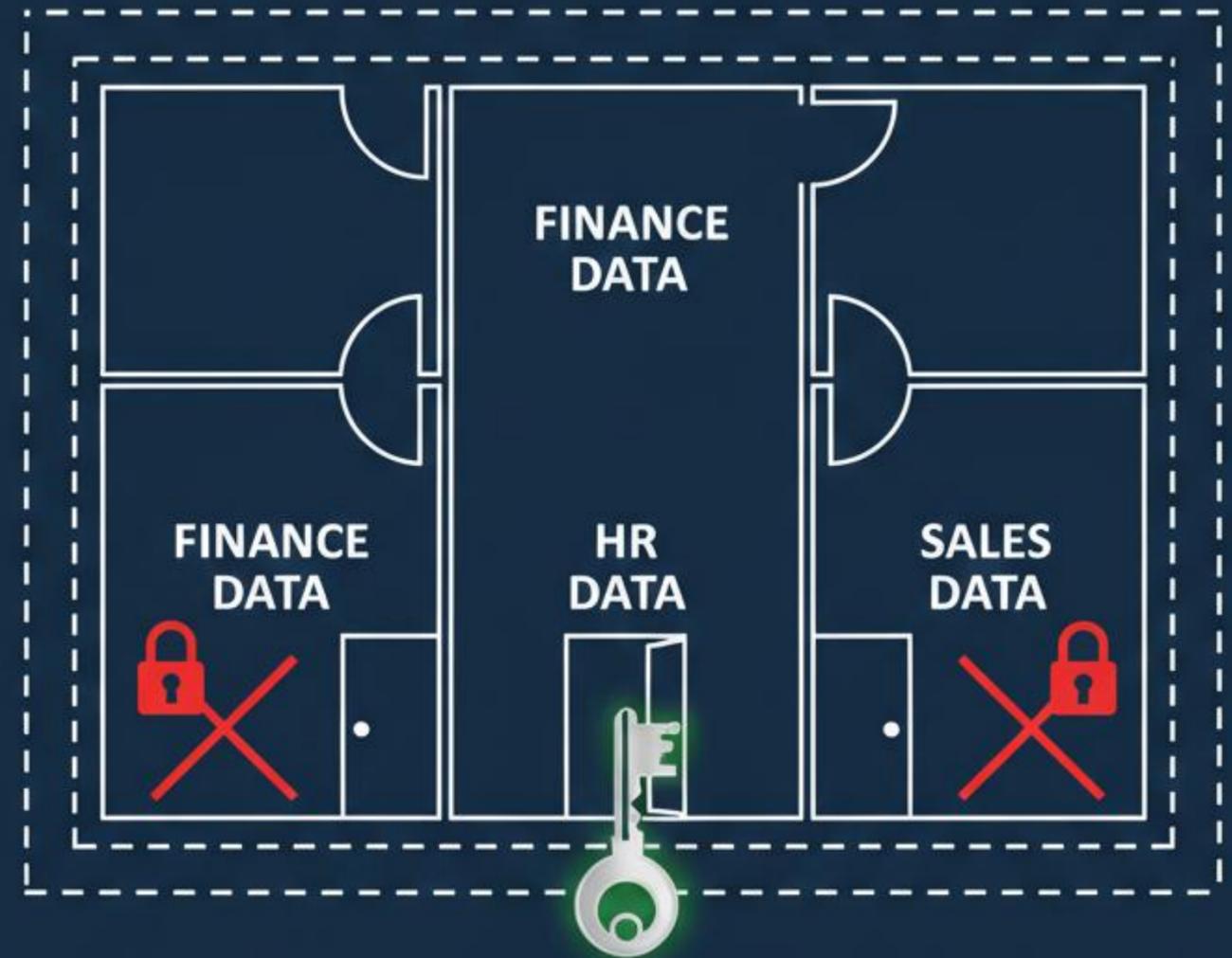
* Contributors can only share if the "Allow contributors to update the app" setting is enabled or if granted item-level permissions.

Demo 1 – The “Viewer” Trap & Item Sharing



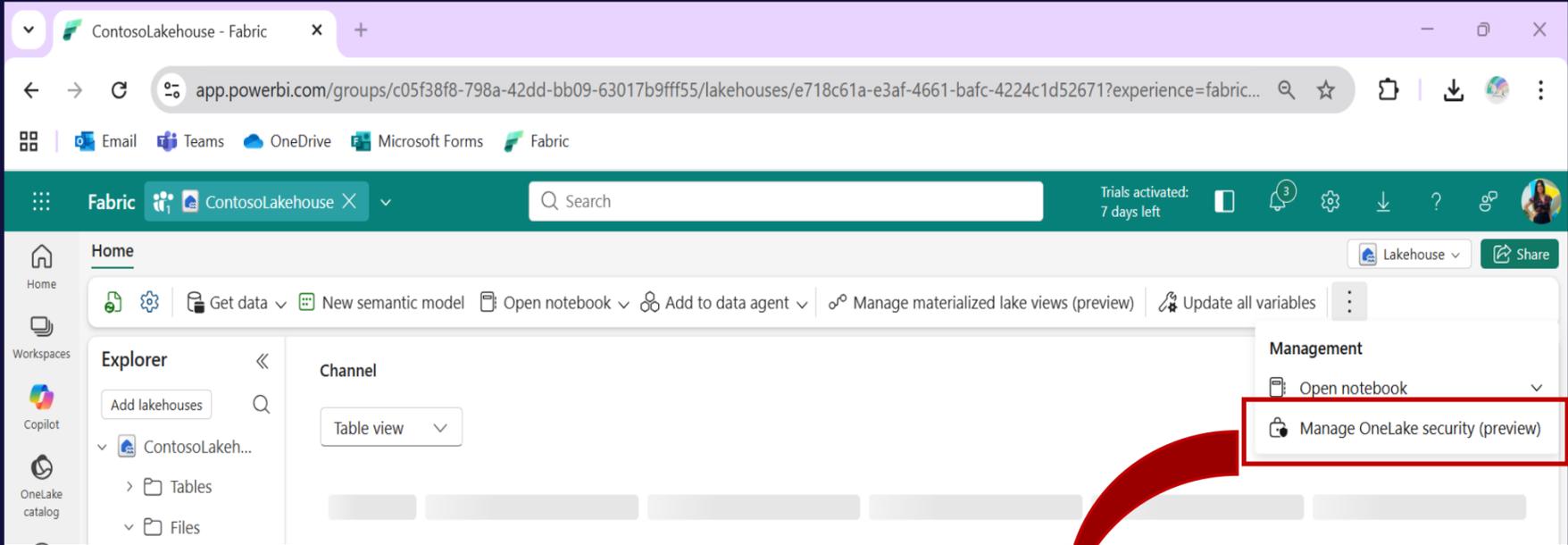
OneLake Security – Locking the Rooms

The Lakehouse



OneLake Security: Folder-Level Access Control

Demo 2 – Folder level Control



OneLake security

Manage data access roles in your Lakehouse

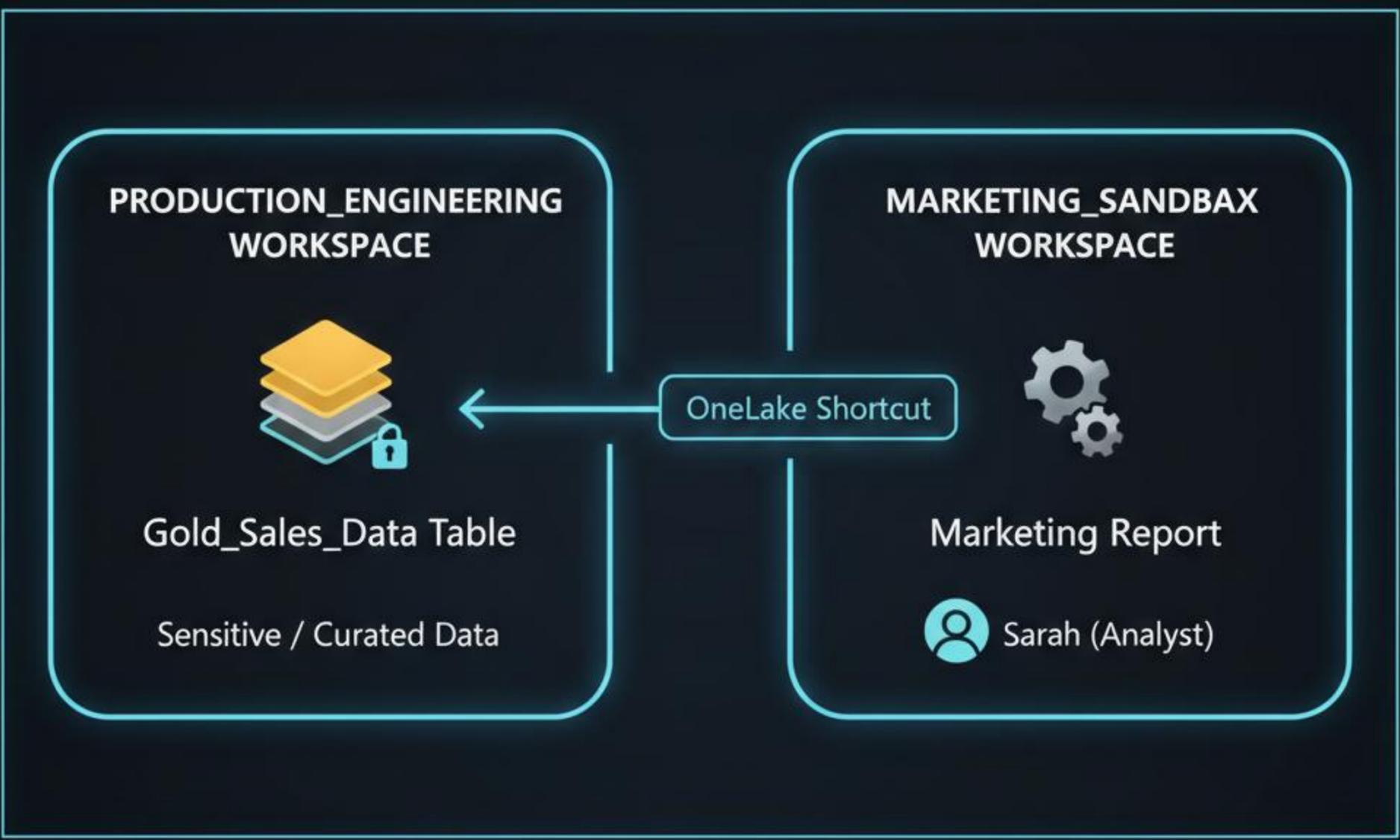
Roles are user groups that you can use to grant users access to data in your Lakehouse. On this page, you can create a new role, edit access, or delete a role in your Lakehouse. [Learn more](#)

+ New Permissions ▾ Duplicate Delete Filter by key...

Role name	Type ⓘ	Permissions ⓘ
-----------	--------	---------------

Internal Data Mesh

Data stays in Engineering;
Marketing queries it live.



Demo 3 – Cross Workspace Shortcuts

RetailsDataShortcut Create deployment pipeline

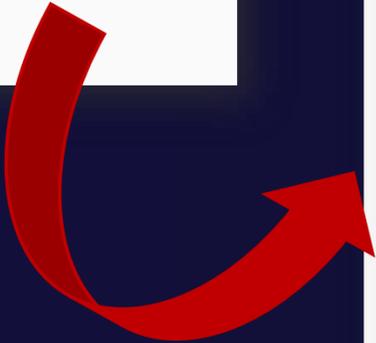
+ New item New folder → Import ⇅ Migrate

	Name	Status	Type	Task	Owner
	LH_Retail		Lakehouse	—	Sarah
	LH_Retail		SQL analytics end...	—	Sarah

Explorer ⏪

Add lakehouses 🔍

- ▼ LH_Retail
 - ▼ Tables
 - ▼ dbo
 - > dimension_customer
 - > fact_sale
 - ▼ Files

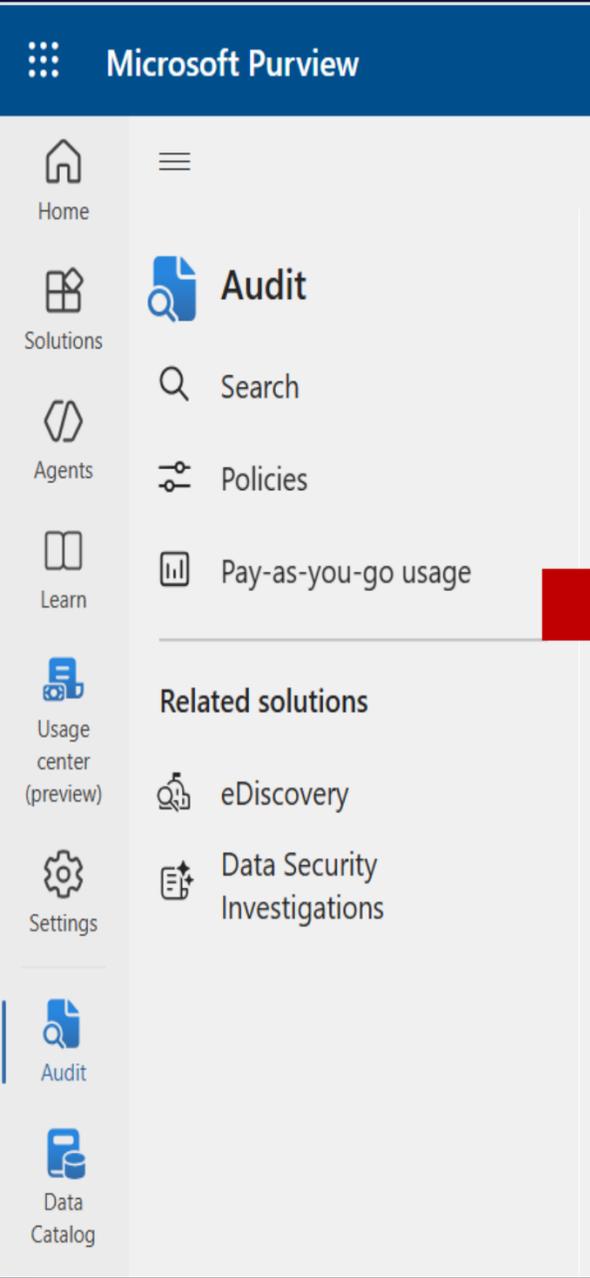


Governance & Auditing

- **The Audit Trail:** Every "Share" and "Role Change" is logged in the Fabric Activity Events.
- **Full Transparency:** Identify who granted access, to whom, and exactly when.
- **Proactive Monitoring:** Use Purview and Admin Reports to catch "Permission Creep."



Demo 4 – Proving “Who’s In”



The screenshot shows the Microsoft Purview navigation pane. The 'Audit' section is highlighted with a blue bar. A red arrow points from the 'Audit' icon in the navigation pane to the audit log table on the right.

Date (UTC) ↓	IP Address ↓	User ↓	Record Type ↓	Activity ↓	Item ↓	Admin Un
21 Jan 2026 06...	94.7.194.19	Sarah@Datavibes...	PowerBIAudit	Created an artifact		
21 Jan 2026 06...		Sarah@Datavibes...	PowerBIAudit	Created directory		
21 Jan 2026 06...	94.7.194.19	Sarah@Datavibes...	PowerBIAudit	Created Power BI folder	ContosoShortcut	
21 Jan 2026 06...	94.7.194.19	Sarah@Datavibes...	PowerBIAudit	Migrated workspace to a capacity	Display Name : Tri...	
21 Jan 2026 06...	94.7.194.19	Sarah@Datavibes...	PowerBIAudit	Listed tables in a lakehouse		
21 Jan 2026 06...	94.7.194.19	Sarah@Datavibes...	PowerBIAudit	Listed tables in a lakehouse		
21 Jan 2026 06...	94.7.194.19	Sarah@Datavibes...	PowerBIAudit	Read an artifact		
21 Jan 2026 06...	94.7.194.19	Sarah@Datavibes...	PowerBIAudit	Read an artifact		
21 Jan 2026 06...	94.7.194.19	Sarah@Datavibes...	PowerBIAudit	Read an artifact		

Common Gotchas

- **Visual:** * 1. Workspace Roles = Full Data Access.
 - Shortcuts require permissions at the *Source*.
 - Token Caching (Sign out/in).

⚠️. Workspace Roles are Powerful

Workspace Viewers see ALL data in the Lakehouse by default



⚠️ 2. Item Sharing Needs Data Keys

Sharing an item requires explicit "explicit Read all SQL" for query access.



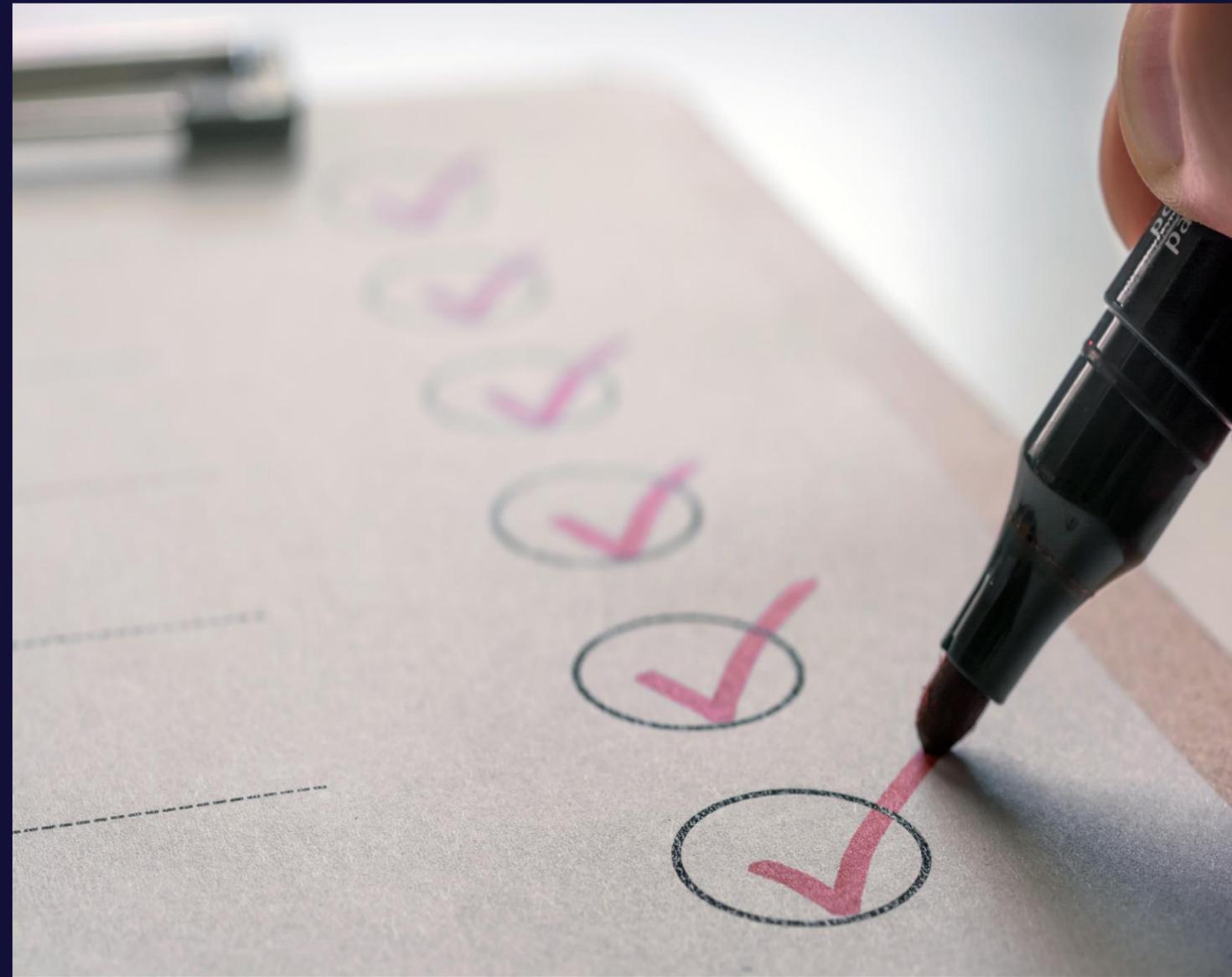
3. Token Caching

Permissions not updating? User needs to Sign Out & Sign In.

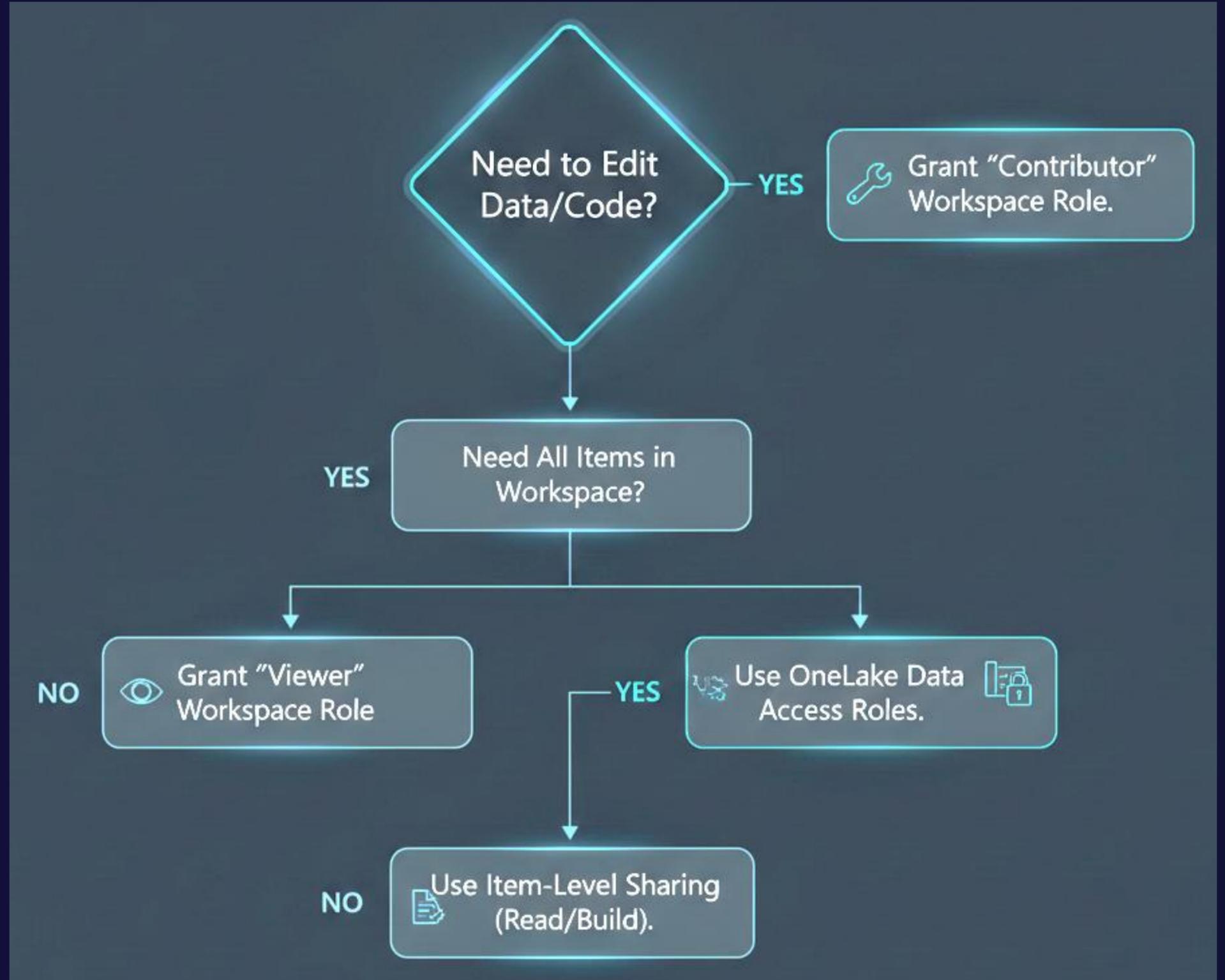


Best Practices Checklist

- ✓ Use **Entra ID Groups** (Never individuals)
- ✓ Grant **Least Privilege** (Most developers should be Contributors, use item-level for consumers).
- ✓ Audit **Admins** monthly.
- ✓ Review permissions regularly



Takeaway Decision Tree



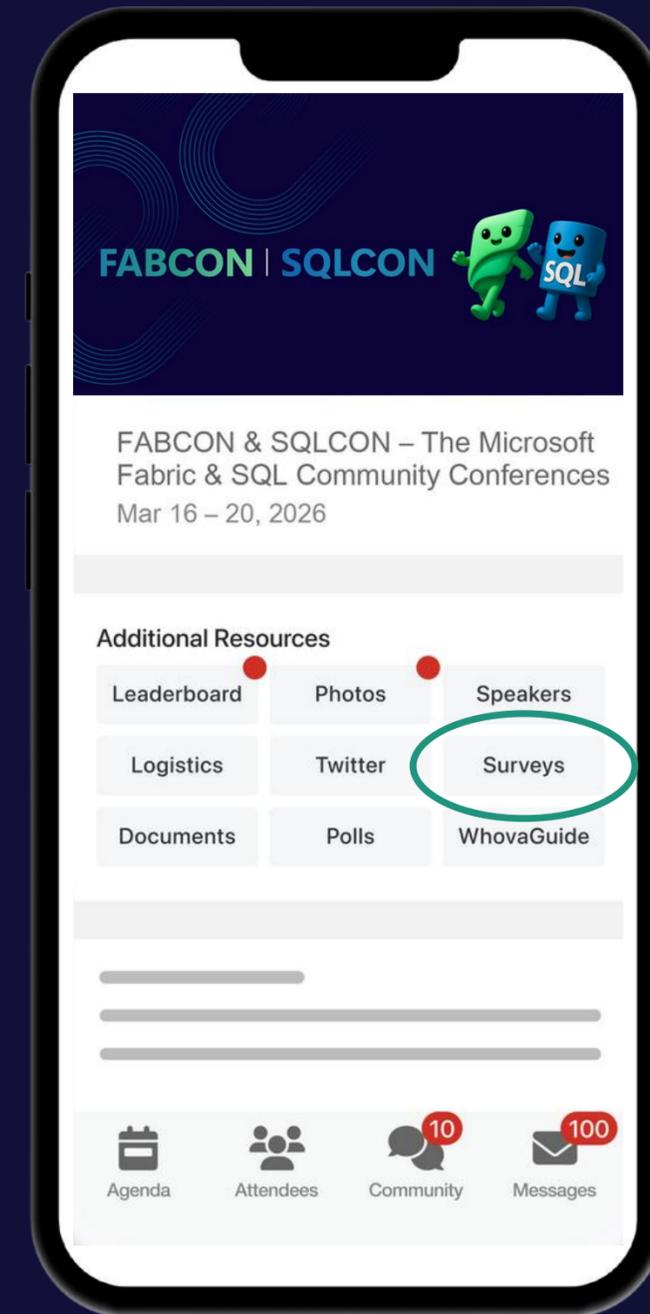
Troubleshooting Decision Grid

SYMPTOM	CAUSE	FIX
 User sees Report, No Data (Blank Visuals)	 Missing "ReadData" Permission	 Grant "Read all SQL" on on Lakehouse or Warehouse
 Access Denied in SQL / Spark	 Not in Workspace OR Missing Item Permissions	 Add to Workspace (Viewer) OR Share Item with "Read" "Read" & ReadData"
 Shortcut is Broken / Data Missing	 No Permission at Data Source Lakehouse	 Token Caching or Source Permissions. User Signs Out & Back In.

How was the session?



THANK YOU
Happy to Take
any Questions!



Complete Session Surveys in
Whova for your chance to WIN
PRIZES!

Sound off.
The mic is all yours.
Influence the product roadmap.

Join the Fabric User Panel



Share your feedback directly with our
Fabric product group and researchers.

<https://aka.ms/JoinFabricUserPanel>

Join the SQL User Panel



Influence our SQL roadmap and ensure
it meets your real-life needs

<https://aka.ms/JoinSQLUserPanel>

Get Two Fabric Certifications for FREE

Attendees of FABCON can take the Fabric Analytics Engineer or Fabric Data Engineer exam for free. Be part of the 2 fastest growing role-based certifications in Microsoft history.

Request your voucher by March 23, 2026.

<https://aka.ms/fabcon/cert100>

