

Introduzione a Microsoft Fabric, la nuova piattaforma di analisi basata sull'Al

Ci presentiamo!

Accompagniamo le aziende clienti nell'adozione di servizi di **tecnologia innovativa**, progetti di **formazione IT** e servizi di **conservazione** e **gestione documentale**.

Ci contraddistingue la nostra competenza nella **consulenza** e nella **personalizzazione** delle soluzioni.

Come **Gold Partner Microsoft**, decliniamo la nostra specializzazione in M365 attraverso molti dei nostri servizi.

40

DGROOVERS

Un team in continua crescita in numero e competenze

34

ANNI

Di esperienza attentamente costruita in ambito ICT 9

PARTNER STRATEGICI

Con i quali condividiamo obiettivi, risultati e soprattutto valori

Linee di Offerta

System Integration

- Consulenza sistemistica
- Servizi di consulenza e migrazione M365
- Sicurezza
- Gestione attacchi informatici

Sviluppo applicazioni custom

- Sviluppo applicazioni custom ed integrazione con software esistenti;
- Refactoring di software legacy
- Microsoft Azure
- SharePoint
- Power Platform
- Angular, .NET

Industria 4.0

- Soluzione *Place* 4 You
- Soluzioni custom di raccolta dati
- Soluzioni e consulenza Augmented Reality e Mixed reality
- Supporto finanza agevolata per l'Industria 4.0

Gestione documentale

- Software di gestione documentale DocSuite Next
- Consulenza normativa
- Consulenza archivistica
- Sviluppo custom
- Soluzioni di conservazione e certificazione documenti

Education & Training

- Formazione, certificazione, Training on the job
- IT e Soft skills
- Gestione piani finanziati
- Sede territoriale PCSNET
- Testing center Pearson Vue e EC-Council

Tecnologie Innovative | Consulenza | Progettazione | Formazione | Training on the job | Service & Customer Care



Buon ascolto!

Chi è Regolo Farm



Règolo Farm S.r.l. è un'azienda specializzata nell'adozione di soluzioni Microsoft orientate ai temi di organizzazione aziendale, business work flow e business Intelligence (Power BI). Rileviamo le informazioni dettagliate necessarie per prendere decisioni strategiche. Automatizziamo il lavoro d'ufficio consolidando i dati storici e correnti, presentando i risultati in formati visivi intuitivi



Chi Sono

Consulente e formatore in ambito business intelligence

Nel 2023 Fondatore e CTO start-up Regolo Farm per Business Intelligence e Power Platform

Nel 2020 Fondatore e CTO start-up Cargo BI per insurance data analytics per le compagnie assicurative

Dal 2017 mi occupo di architetture big Data e in generale di tutta la proposizione data platform di Microsoft.

Docente all'Università di Pordenone per i corsi IFTS di analisi Big Data

Community Lead di 1nn0va (<u>www.innovazionefvg.net</u>)

MCP,MCSA,MCSE dal 2017 MCT e dal 2014 MVP, Azure Data Engineer e relatore in diverse conferenze sul tema.

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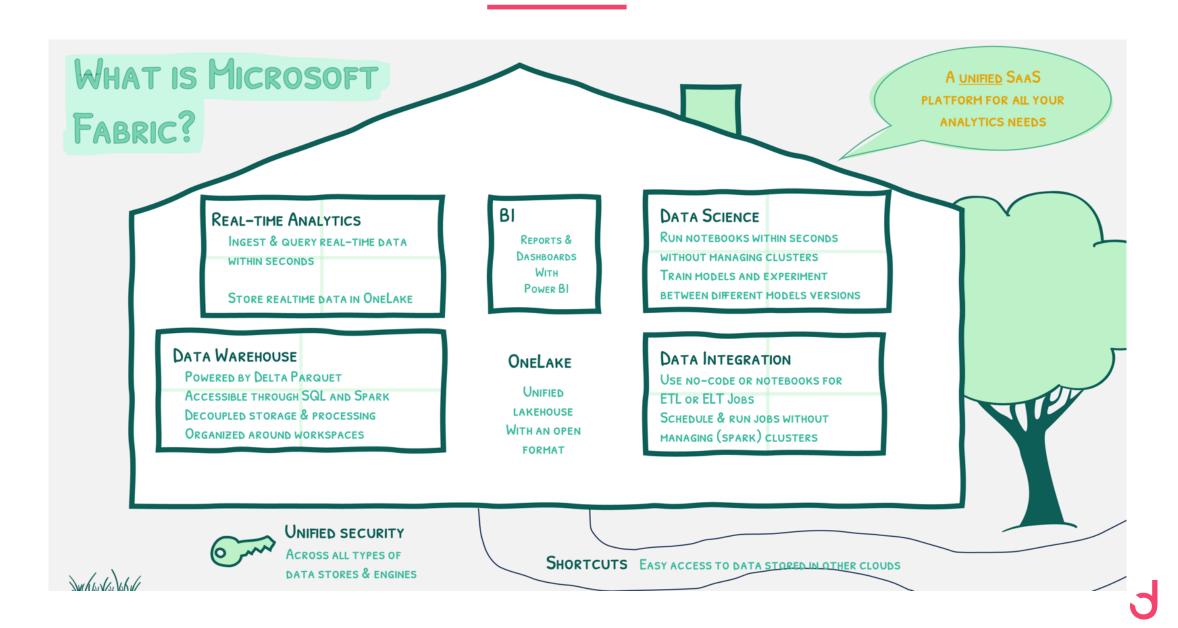


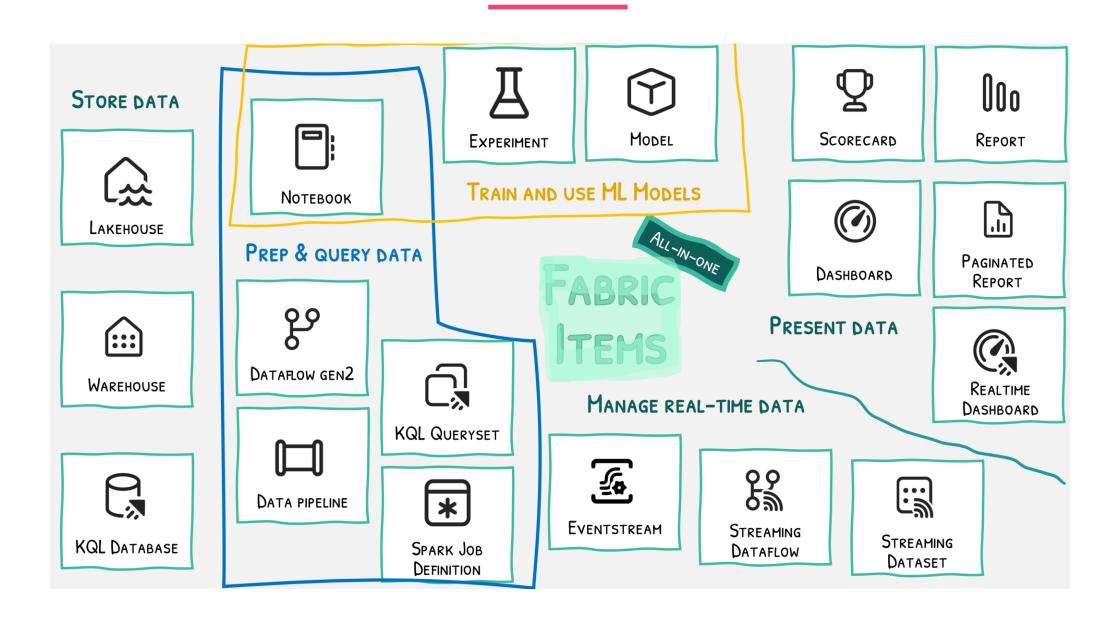




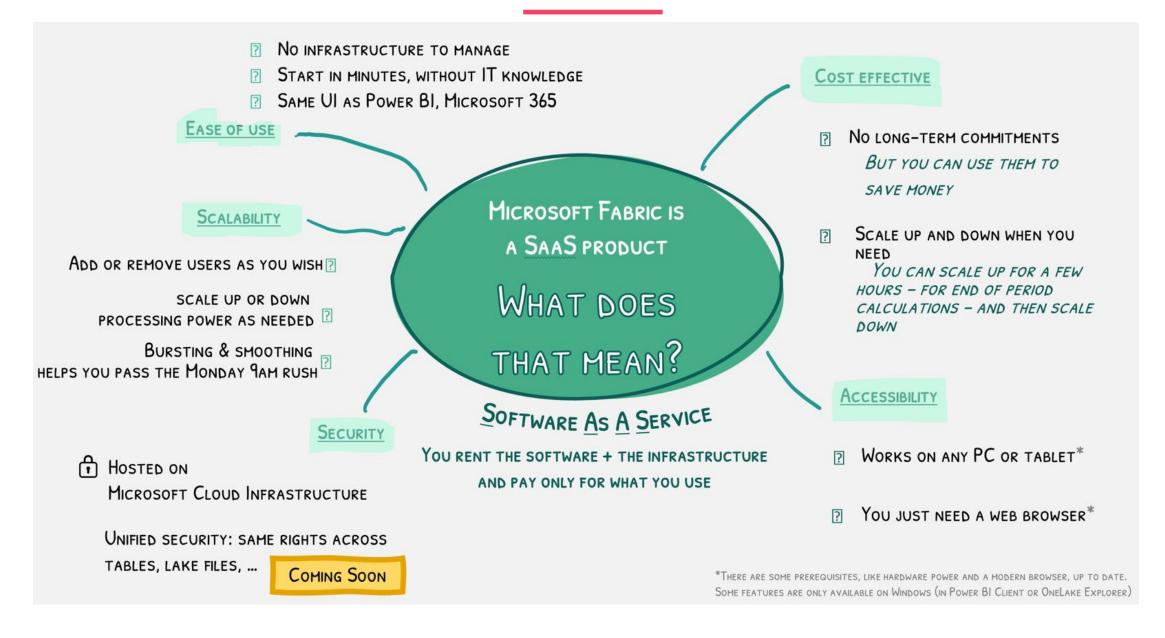




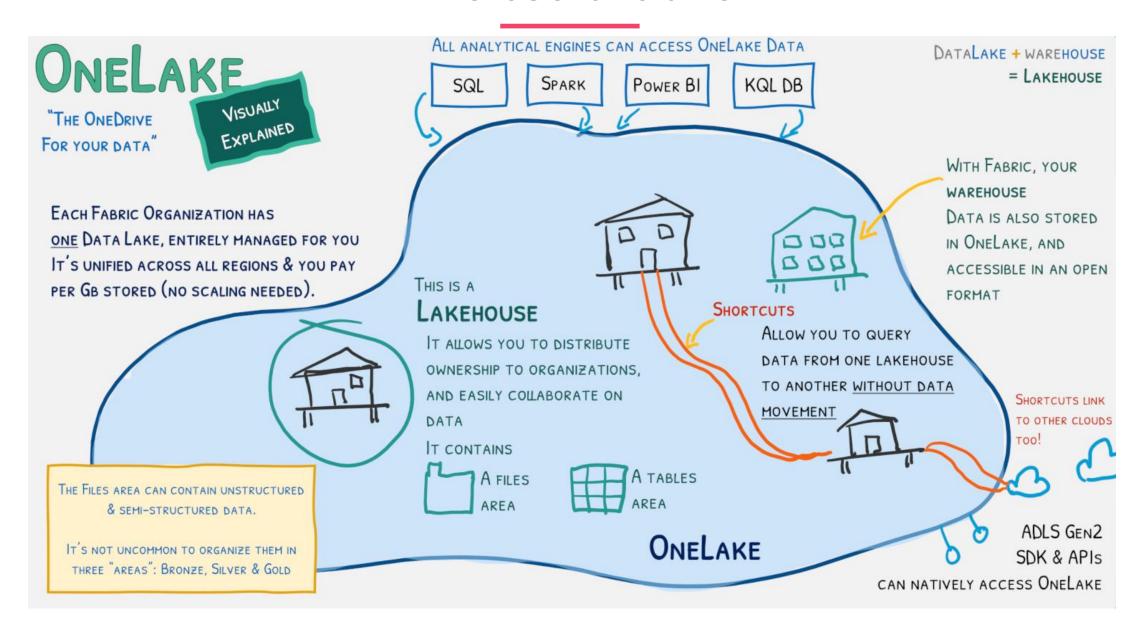


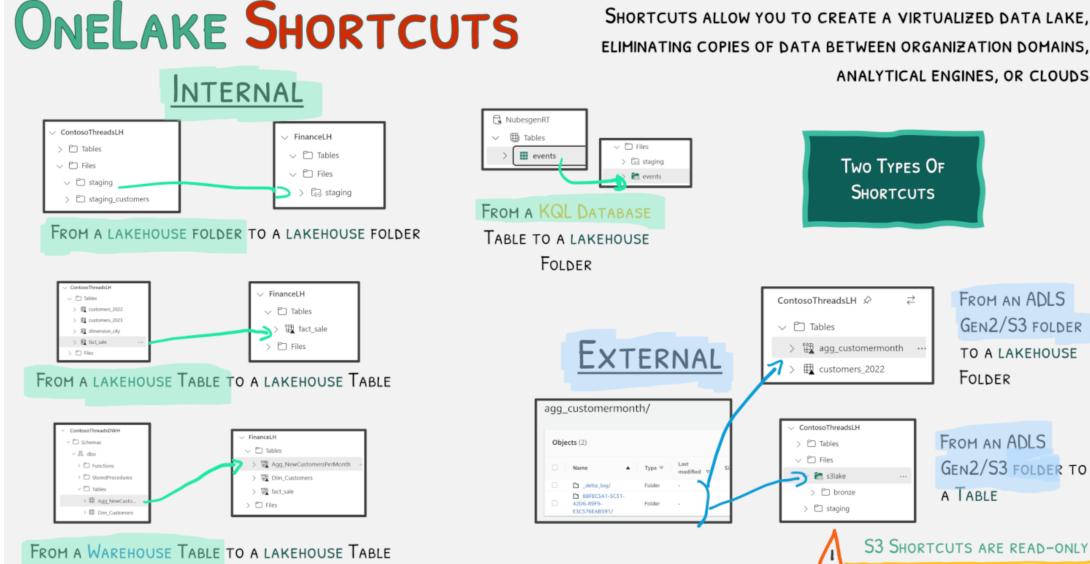














A TABLE



INSIDE THE APACHE PARQUET FORMATIT'S OPEN SOURCE!

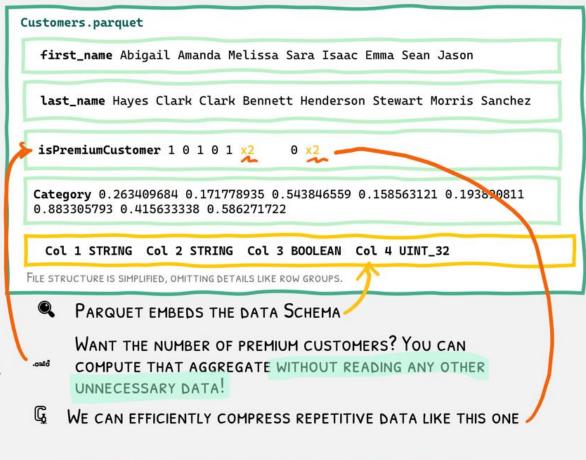
IN TRADITIONAL DATABASES (POSTGRES, SQL SERVER*) AND FILE TYPES (CSV, JSON), DATA IS STORED AS ROWS...

FIRST_NAME	LAST_N	AME STREET	USTOMER	PROBABLILTY	
ABIGAIL	HAYE	S 4009 9TH STREET	1	1	•
AMANDA	CLAR	K 87 5TH STREET	0	2	
MELISSA	Ct	10100.0			
SARA	BEN	Customers.csv	,		
ISAAC	HEND				iumCustomer,nextmbuyprob
Енна	STE	Abigail, Haye	s,4009 9t	h Street, 1, 0.	26340968441351104
SEAN	Mc				77893540625921
JASON	SAI	Melissa,Clar	k,12650 5	th Street Nor	th,1,0.5438465585898219
ALEXANDER	W	Sara, Bennett	,203 Stat	e Street,0,0.	15856312140709694
MEGAN	М	Isaac, Hender	son,732 M	agnolia Drive	,1,0.19389081059172666
				32,1,0.88336	
					.4156333382834478
		Jason, Sanche	z,26050 M	adison Avenue	,0,0.5862717219123177
		Alexander, Wa	lker, 5405	1 Valley Road	,1,0.5941814808482648
		Megan, Morris	,31 Delaw	are Avenue, 1,	0.6289626353900487
	- 1			· · · · · · · · · · · · · · · · · · ·	
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... WHICH IS NOT OPTIMAL FOR ANALYTICAL NEEDS:

- For some file types (LIKE CSV), THERE IS NO EMBEDDED SCHEMA
- Compression is not good (You're kinda limited to Text compression)
- You need to scan(READ) ALL THE ROWS

IN PARQUET, DATA IS STORED AS COLUMNS



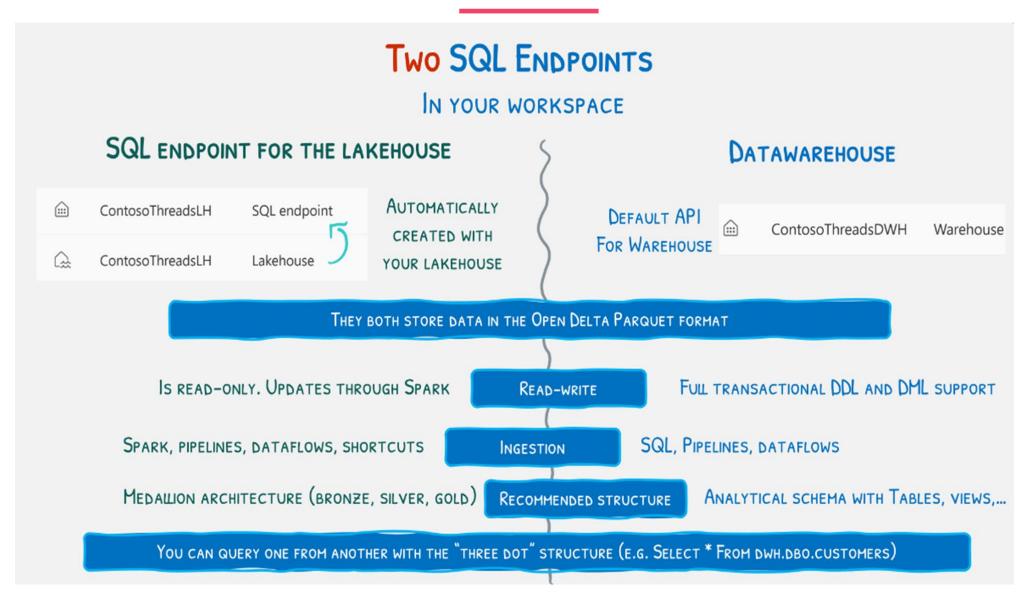
WITH FABRIC, YOU CAN EASILY READ PARQUET FILES STORED

IN ONELAKE OR IN OTHER CLOUDS

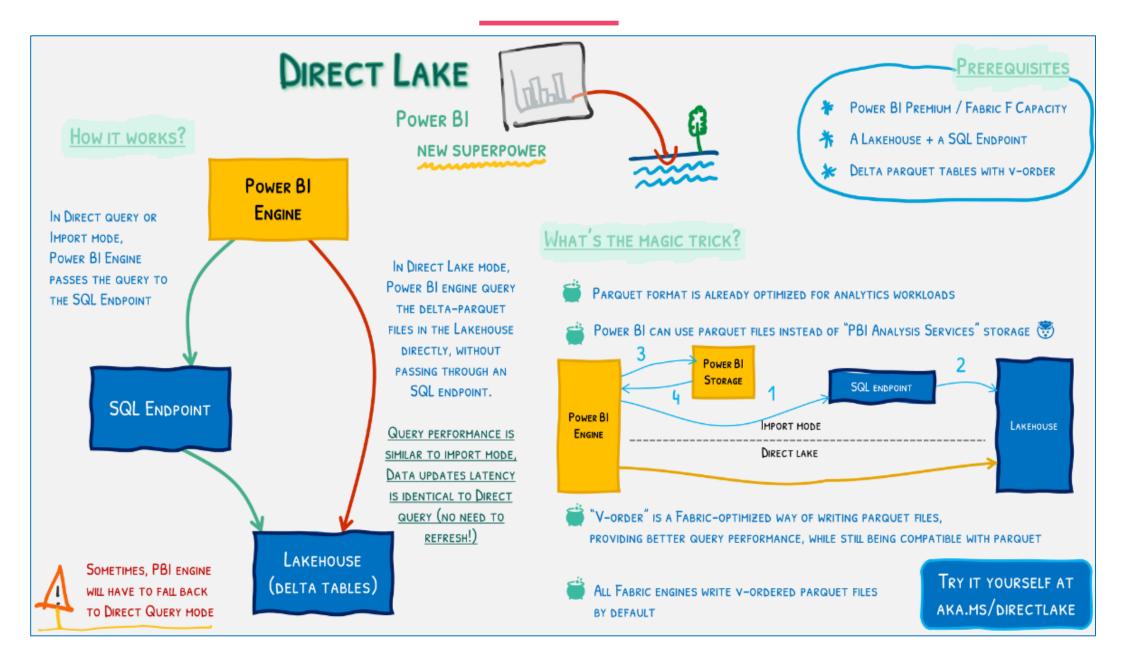
*Unless you're using columnstore tables :)





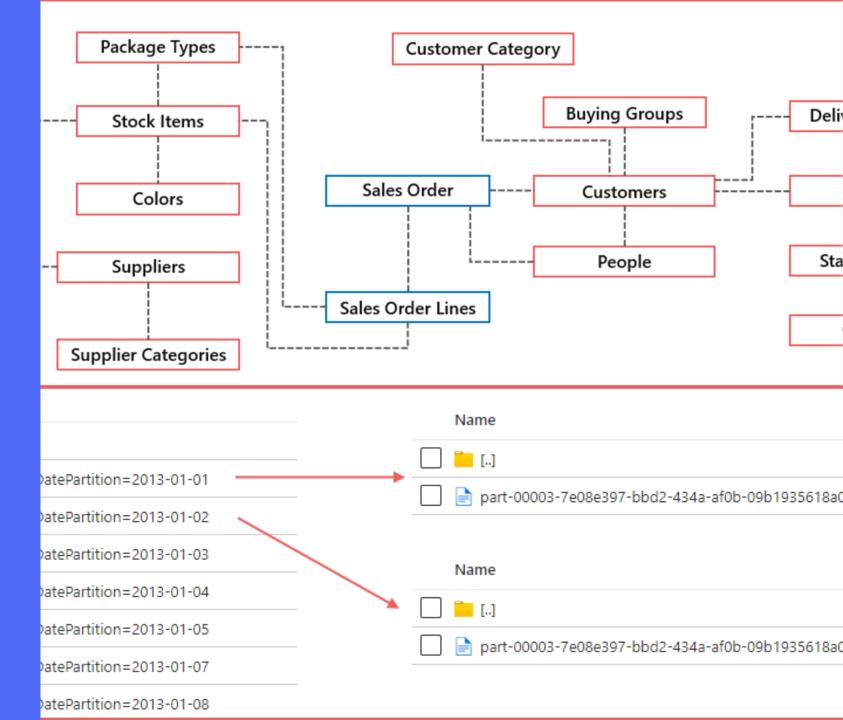




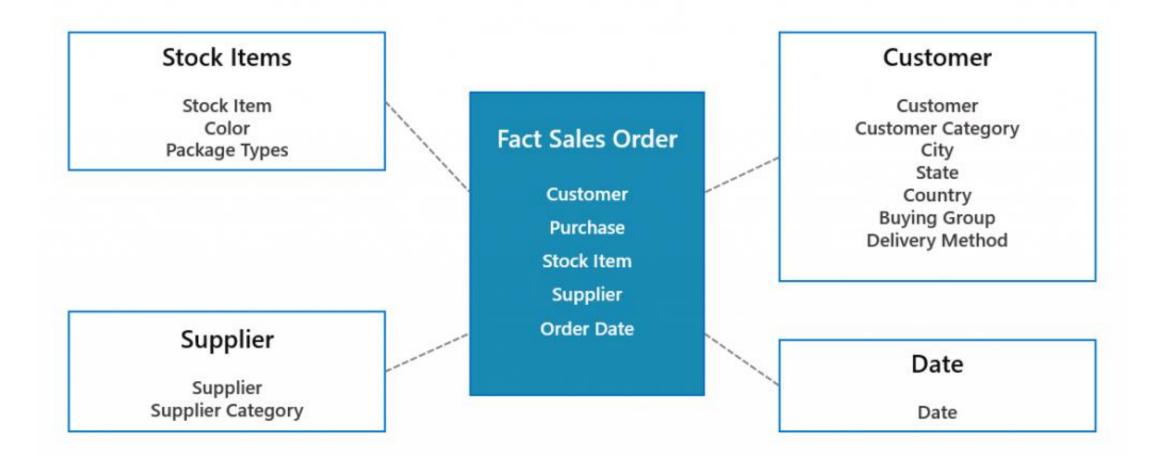




DEMO



Demo - Load gold layer with sql queries



License

INFRASTRUCTURE CAPACITY SHARED ACROSS ALL ANALYTICS WORKLOADS CAN BE RESIZED UP, DOWN AND EVEN PAUSED ATTACHED TO A SPECIFIC REGION SOLD AS CAPACITY UNIT (CU), FROM 2 TO 2048 **\$0.18/CU/Hour**, MINIMUM 2 CU (ONLY \$9/DAY!) STORAGE YOU PAY FOR THE STORAGE YOU CONSUME. PRICE VARIES FROM REGION TO REGION \$0.023/GB/MONTH FOR US WEST 2 NETWORK CROSS-REGION DATA TRANSFER CHARGES, EGRESS CHARGES FOR MULTI-CLOUD SHORTCUTS



You only pay what goes beyond the limit that is provided by default for OneLake (1TB)

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



Pay as you Go:

Microsoft Fabric has two declinations, one as a pay-as-you-go service within Azure.

With the Power BI P1 SKU you have the equivalent of the Fabric F64 SKU as seen in the table below

The CU (Capacity Units) are used to measure the computing power available for each SKU while for Power BI SKU we still think about V-Cores

Reserved Instance

Corresponds to Power BI Premium Capacity





Fabric SKU	Capacity Units (CU)	Power BI SKU	Power BI V-Cores
F2	2	Θ.	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

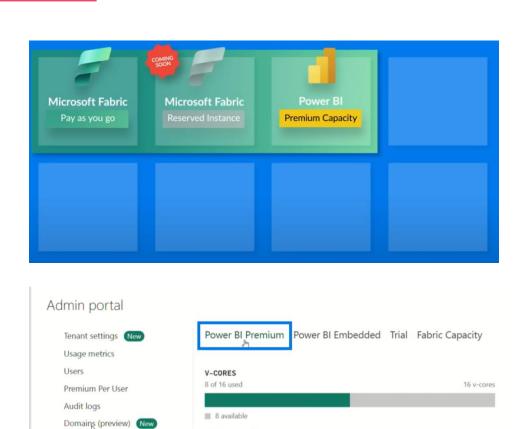


Capacity settings
Refresh summary

Power BI Premium Capacity

Power BI Premium Capacity provide all the features of Fabric

Recall that Microsoft Fabric (reserverd Instance) is the same thing as Premium capacity but it is different ③ as they are different only where you buy one through Microsoft 365 and the other from the Azure portal



Learn more about capacity sizes

Set up new capacity



Power BI Embedded

Power BI Embedded can always be purchased through the Azure portal

It includes only one A SKU and therefore only Power BI features and not Fabric features

For each A SKU there are equivalent licenses in Fabric as shown in the table below to purchase





Fabric SKU	Capacity Units (CU)	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

Power BI Fabric

Power BI Fabric replaces the old Power BI Free license

It has no trial period

A user with a free license can consume contents if the respective workspaces are created in a Fabric F64 or in Power BI P1 SKU (all the colored part in the table)





Fabric SKU	Capacity Units (CU)	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



Power BI Pro

Power BI Pro is the same as before and does **not include Fabric features**

Power BI functionality within a Fabric workspace requires a Power BI Pro license

A user needs a Power BI Pro license if their workspaces are created in a Fabric lower than F64 or anything lower than Power BI P1 SKU (all colored part in the table)



Fabric SKU	Capacity Units (CU)	Power BI SKU	Power BI V-Cores
F2	2		0.25
F4	4		0.5
F8	8	EM/A1	1 PRO
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

Power BI Premium per User

Power BI Premium per user offers features similar to Premium Capacity with partial access to Fabric obviously at a lower cost of \$20 per user

Ideal for small companies or small work teams



Power BI Premium Governament

This remains the same for US Government customers and will be released after Fabric general availability





