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Deep insights in your Microsoft Fabric landscape



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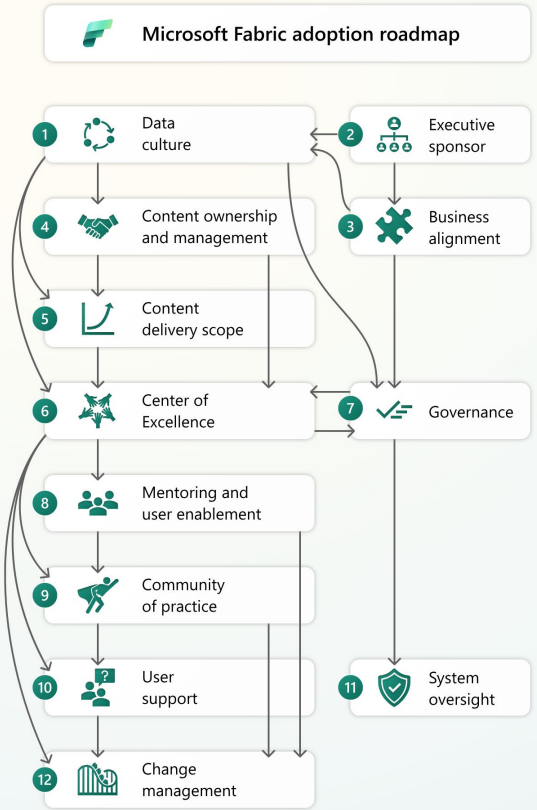
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What's in it for you in our session?

- Why Deep Insights ?
- Microsoft Adoption Roadmap
- System Oversight = Auditing & Monitoring
- What is currently available?
- Intro to FUAM
- Architecture, Prerequisites
- Possibilities, "Dimensions" & "Facts"
- Roadmap, What is available for Community
- What is in for the audience (Summary)



Why do we need deep insights in Microsoft Fabric?





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Microsoft Adoption Fabric Roadmap

- **System oversight**—also known as Fabric administration—is the ongoing, day-to-day, administrative activities. It's specifically concerned with:
  - **Governance:** Enact governance guidelines and policies to support self-service and enterprise data and business intelligence (BI) scenarios.
  - **User empowerment:** Facilitate and support the internal processes and systems that empower the internal user community to the extent possible, while adhering to the organization's regulations and requirements.
  - **Adoption:** Allow for broader organizational adoption of Fabric with effective governance and data management practices.



Microsoft Fabric Adoption

Adoption isn't just about using the technology regularly; it's also about using it effectively!!.

- **Understand usage patterns**
  Analyzing usage patterns is primarily about understanding the user activities that occur in your Fabric tenant
  - User Activities
  - Content Usage
- **Understand published items**
  It’s necessary to have an inventory of the content that exists in your Fabric tenant



Microsoft Fabric System Oversight

What is in it for me?

- Security and Threats
  - Microsoft Defender for Cloud Apps & Microsoft Sentinel (Azure Service $)
- Performance Tracking on Workspace Level
  - Azure Log Analytics (Azure Service $)
- Performance Tracking on Capacity Level
  - Capacity Metric App
- Simple Process Overview
  - Monitoring hub
- Asset Overview
  - Microsoft Purview Hub
  - Microsoft Purview (Azure Service $)



What is in it for me?

- Problem:
  - Information is not integrated = Separate Silos for Assets & Transactions
  - Data is stored not long enough for detailed time related analysis
  - Monitoring can’t be integrated or enriched with customer specific information (Org, Cost, License etc.)
  - RLS only partially implemented
- Problem Solver: Fabric APIs ?
  - Complicated to be used (Authentication, Storage, Semantics)
  - Performance Data not available
  - Perfect if you need a highly customized solution

Anything on the roadmap?

- Announcements for better monitoring solutions were made a lot over the years
- Different concepts and technologies were presented – Nothing survived

- New attempt was presented at FabCon 2024 in Stockholm
- Have a look to some official screenshots

Roll-up view of all your capacities

Shows the health of all your capacities in a single screen

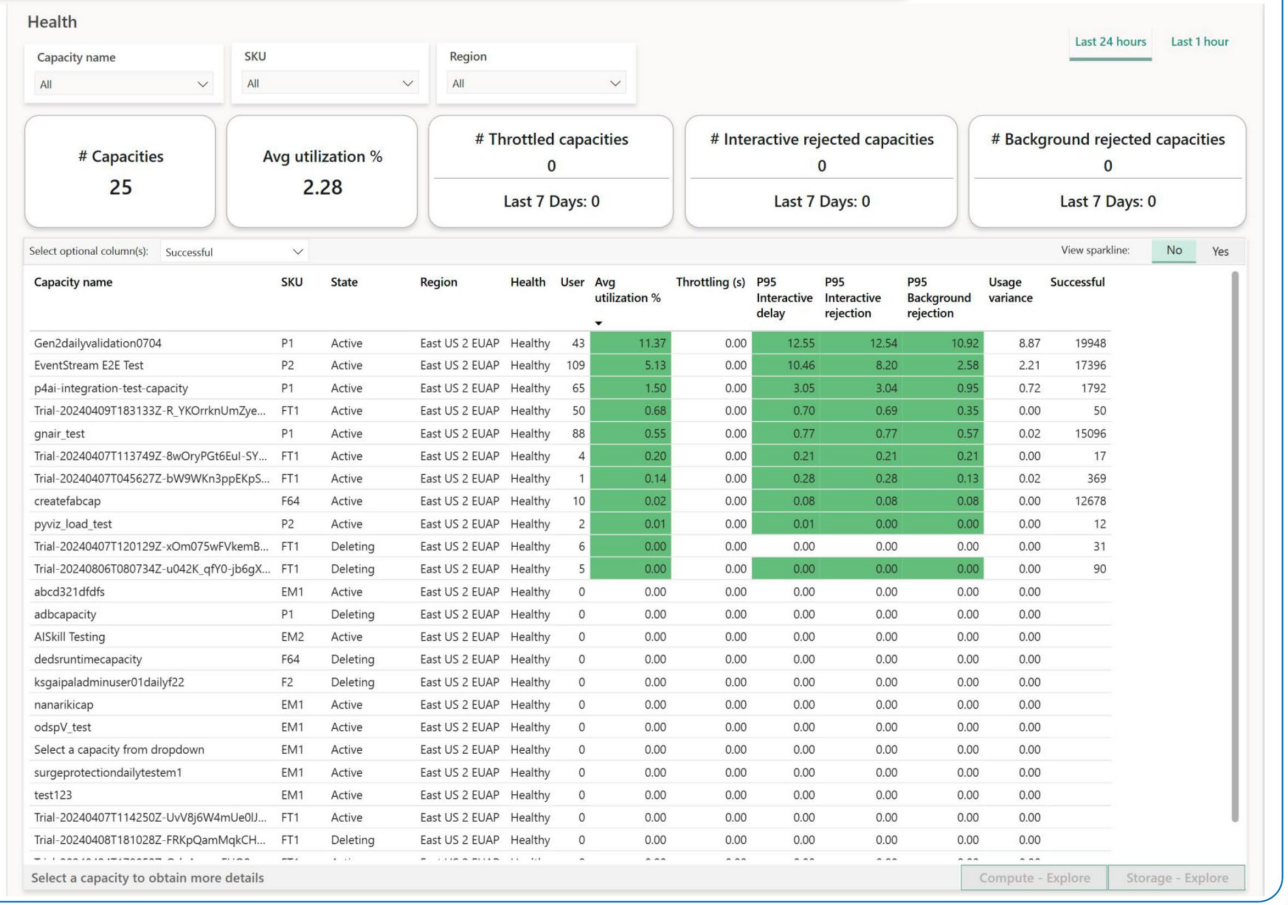
- Admins can monitor overall trends to ensure capacities are factored and sized correctly.

Helps identify overuse

- Shows which capacities are experiencing throttling (delays, rejections)

Impact

- Easier to manage multiple capacities
- Easier weekly health reviews



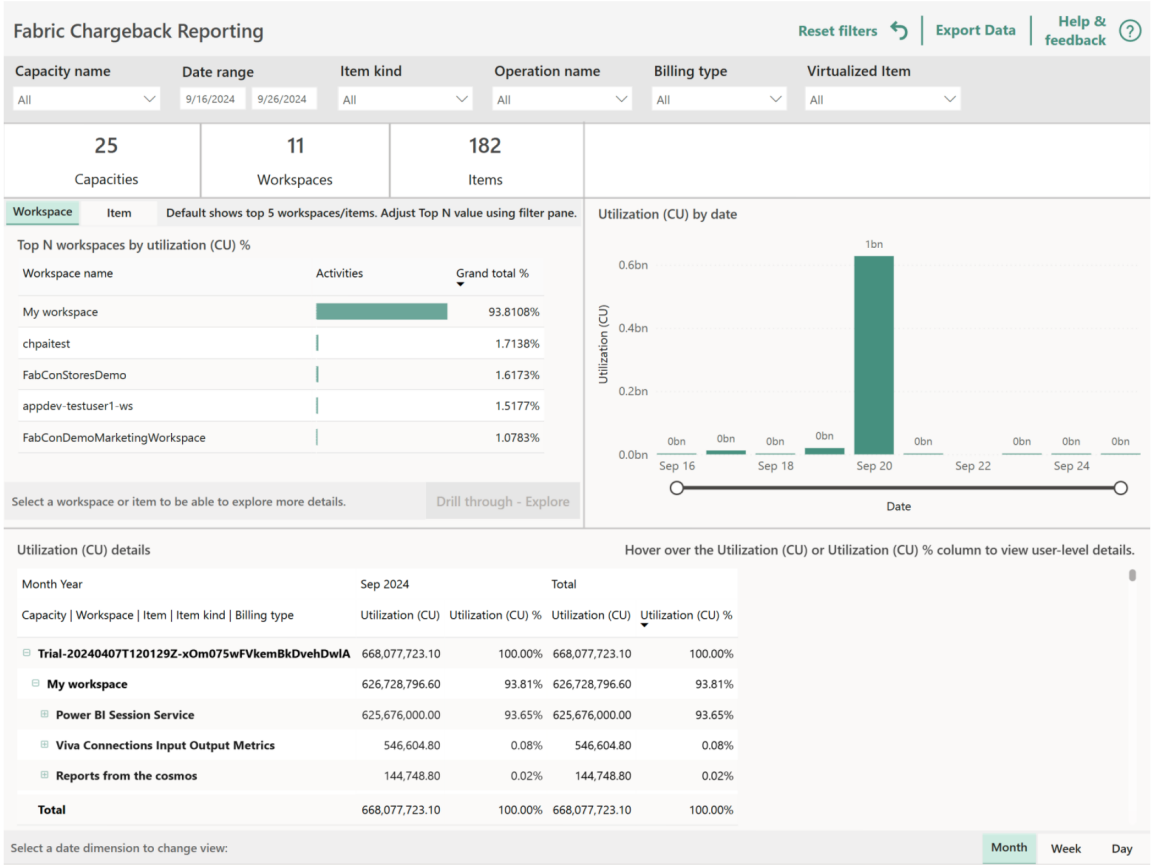
Source: Understanding Microsoft Fabric Capacities, FabCon 2024 Presentation, Stockholm | by Lukas Pawlowski | Principal Program Manager | Microsoft Fabric Product Group

Chargeback

Helps allocate costs across your org
- Built-in reporting
- Rolls up usage per workspace

Focuses on % utilization
- Orgs need to look at cost in Azure billing and then allocate that cost to their content owners.

Impact
- Less need to build custom solutions



Source: Understanding Microsoft Fabric Capacities, FabCon 2024 Presentation, Stockholm | by Lukas Pawlowski | Principal Program Manager | Microsoft Fabric Product Group

Monitor Capacity Events using Real-Time Hub

Proactively monitor your capacities

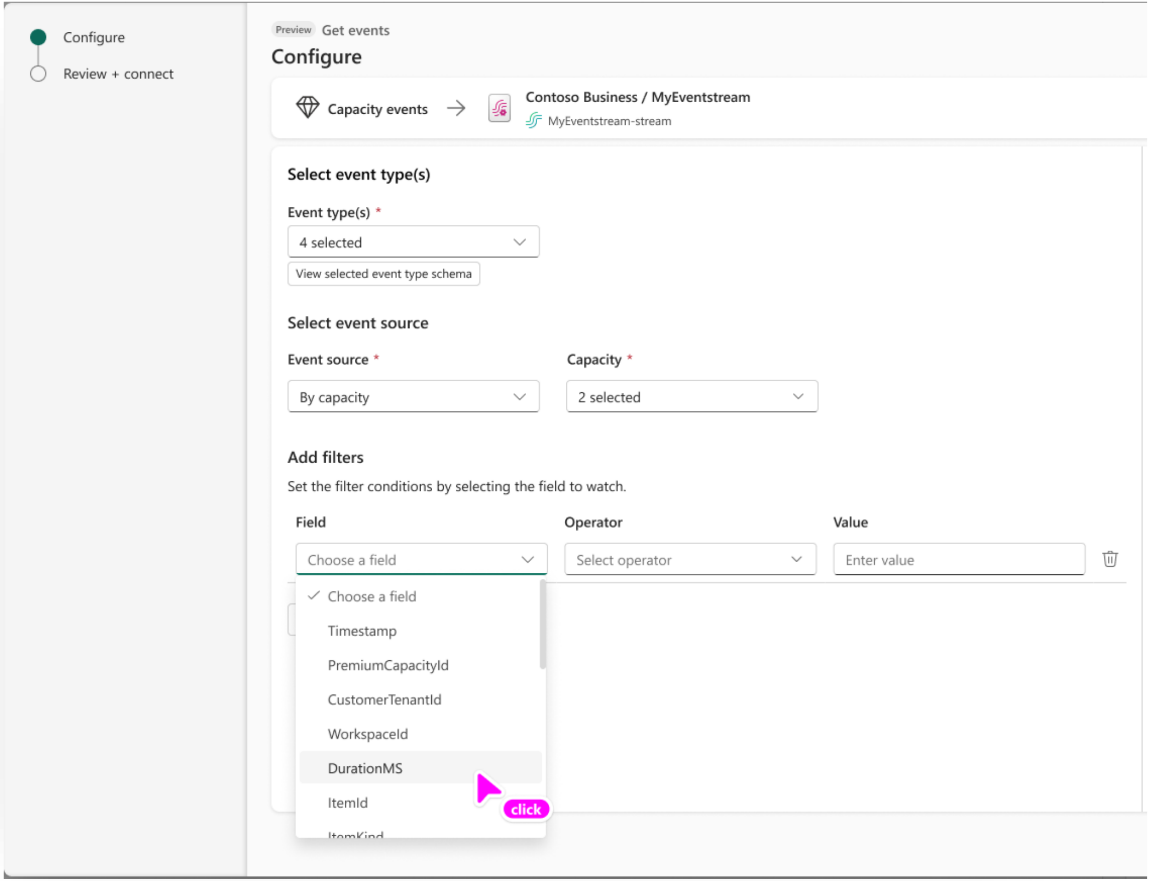
- Capacity events will be available in Real-Time Hub
- Configure alerts using Data Activator or your own systems
- Save data to your own store

Multiple event types

- Operations
- Utilization
- Capacity State Events
- Resource Allocation Change

Impact

- Integrated solution for detailed monitoring
- Build your org specific processes using Fabric



Source: Understanding Microsoft Fabric Capacities, FabCon 2024 Presentation, Stockholm | by Lukas Pawlowski | Principal Program Manager | Microsoft Fabric Product Group

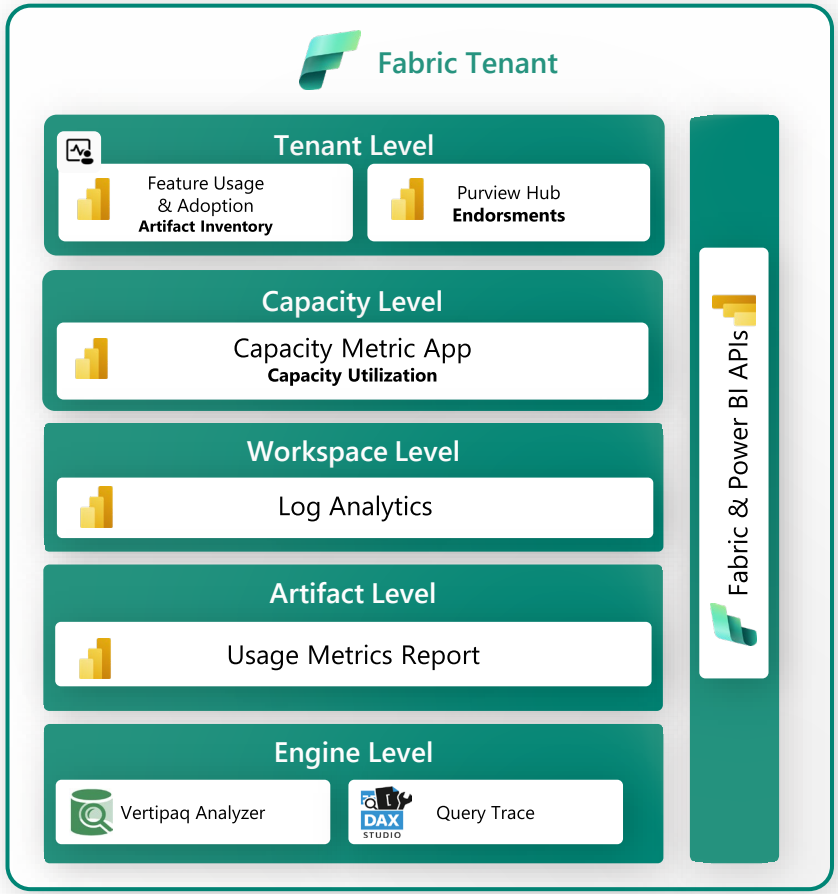
Anything on the roadmap?

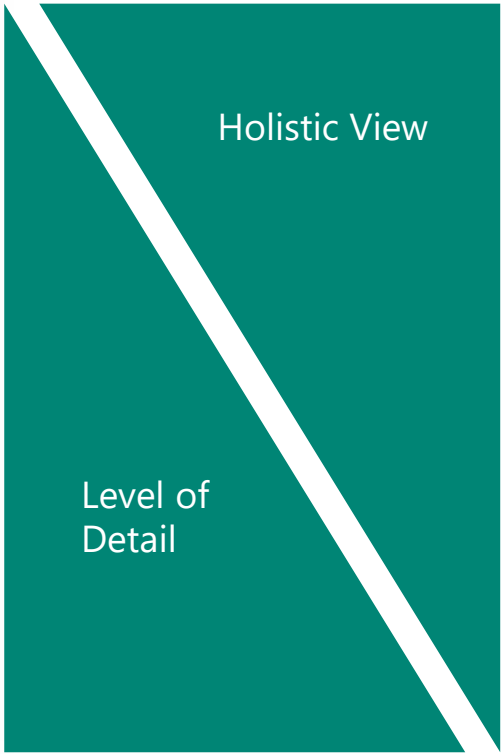
- Looks promising
- Be patient, no ETA announced
- Still not an integrated solution

But wait…..



Fabric Monitoring Landscape



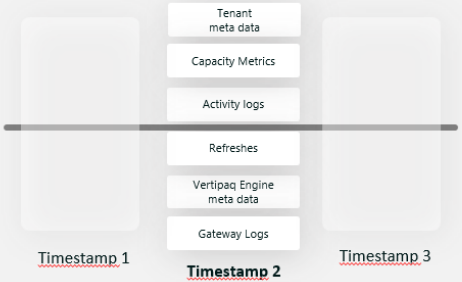




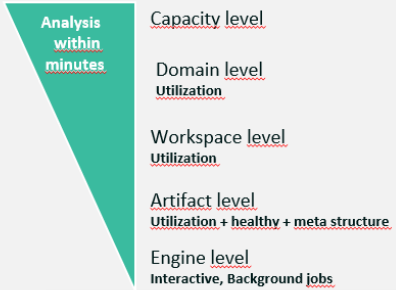
What is missing?

What we heard from customers (consolidated by CSAs)

What happened on our tenant in a particular time



What was the root cause of the 200% capacity utilization and how can we prevent that in the future?



Where are hotspots or noise neighbors in our tenants?

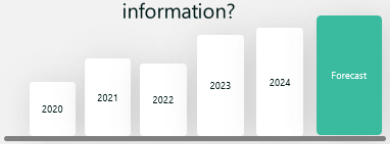
(main semantic model will be used in multiple other semantic models)



We would like to automatize the **semantic model** optimization & certification (endorsement) processes



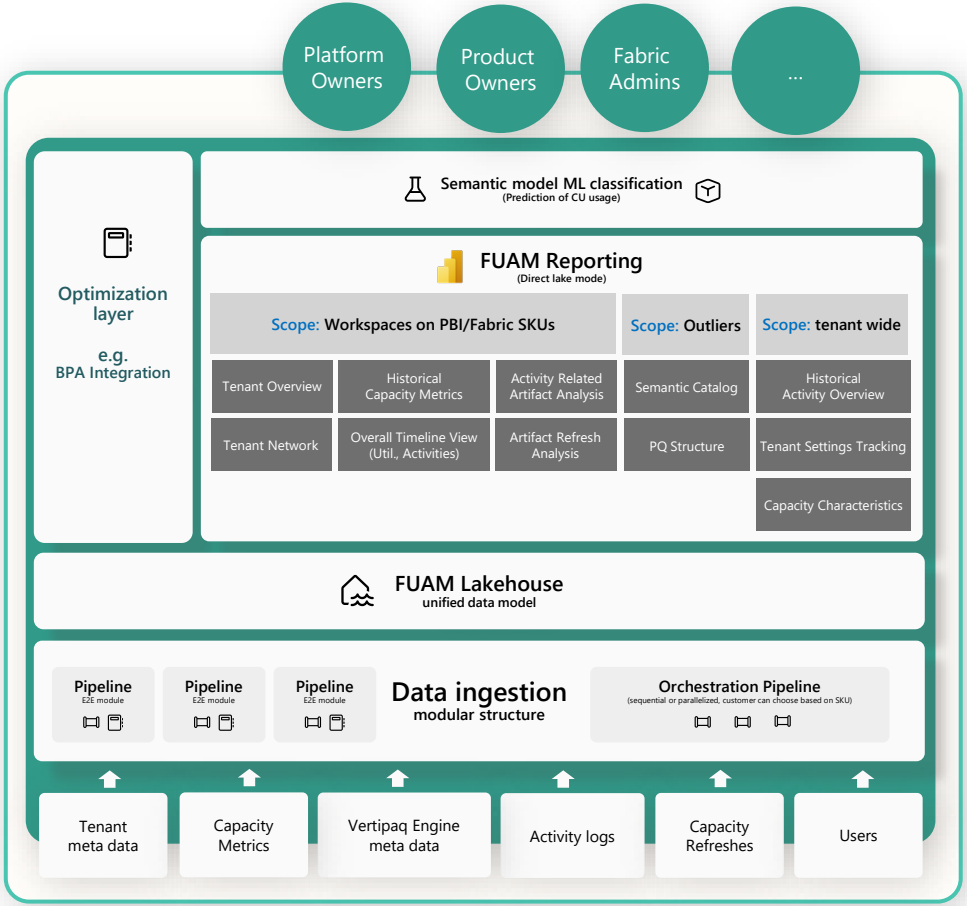
How can we plan the resources (capacities) for the next year based on historical information?



Is it possible to run the PBI/Fabric assessment automatically, multiple times in a year?

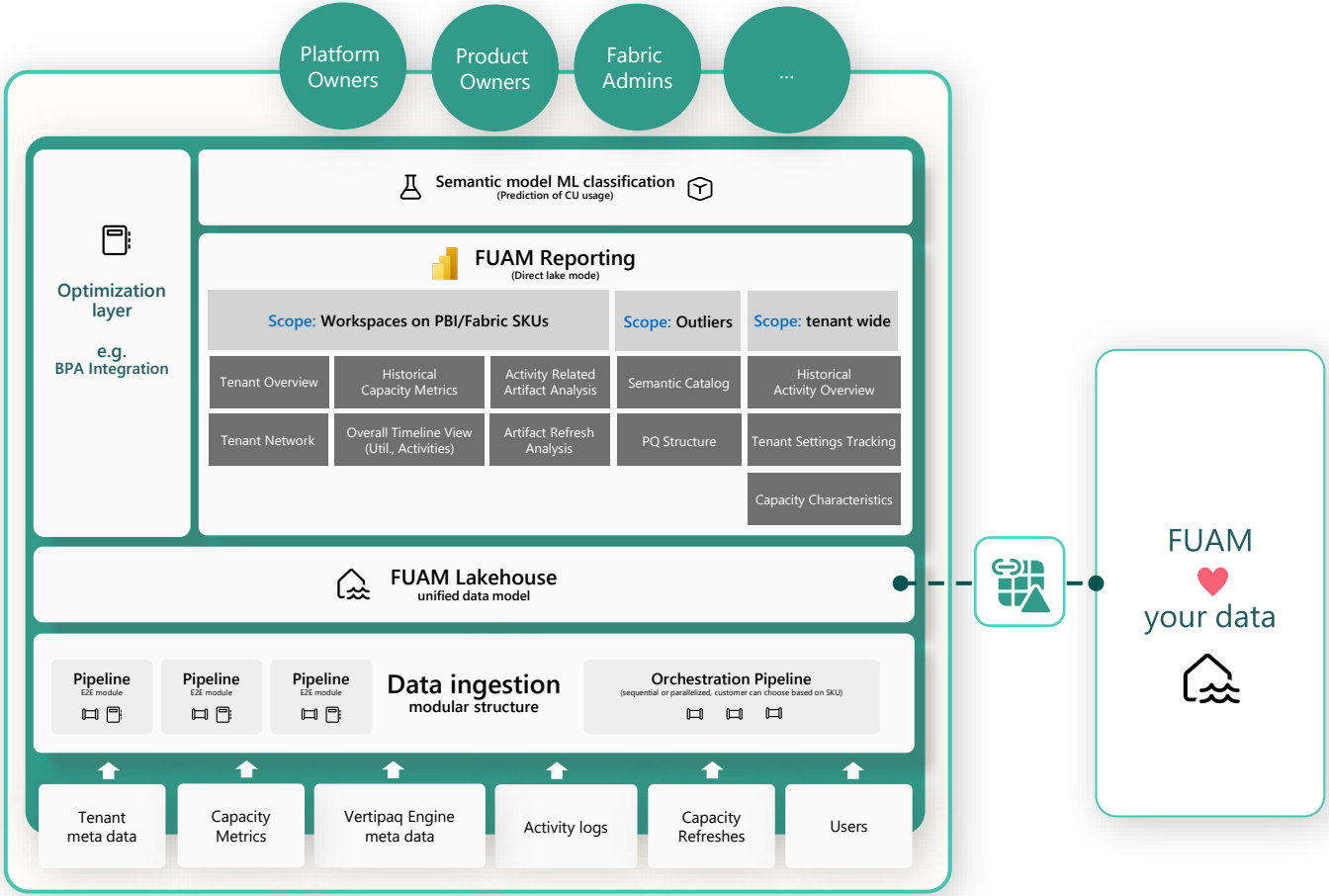
Is it possible to identify pure implemented semantic models before they cause peaks on the capacities?

Fabric Unifed Admin Monitoring (FUAM)



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Fabric Unifed Admin Monitoring (FUAM)



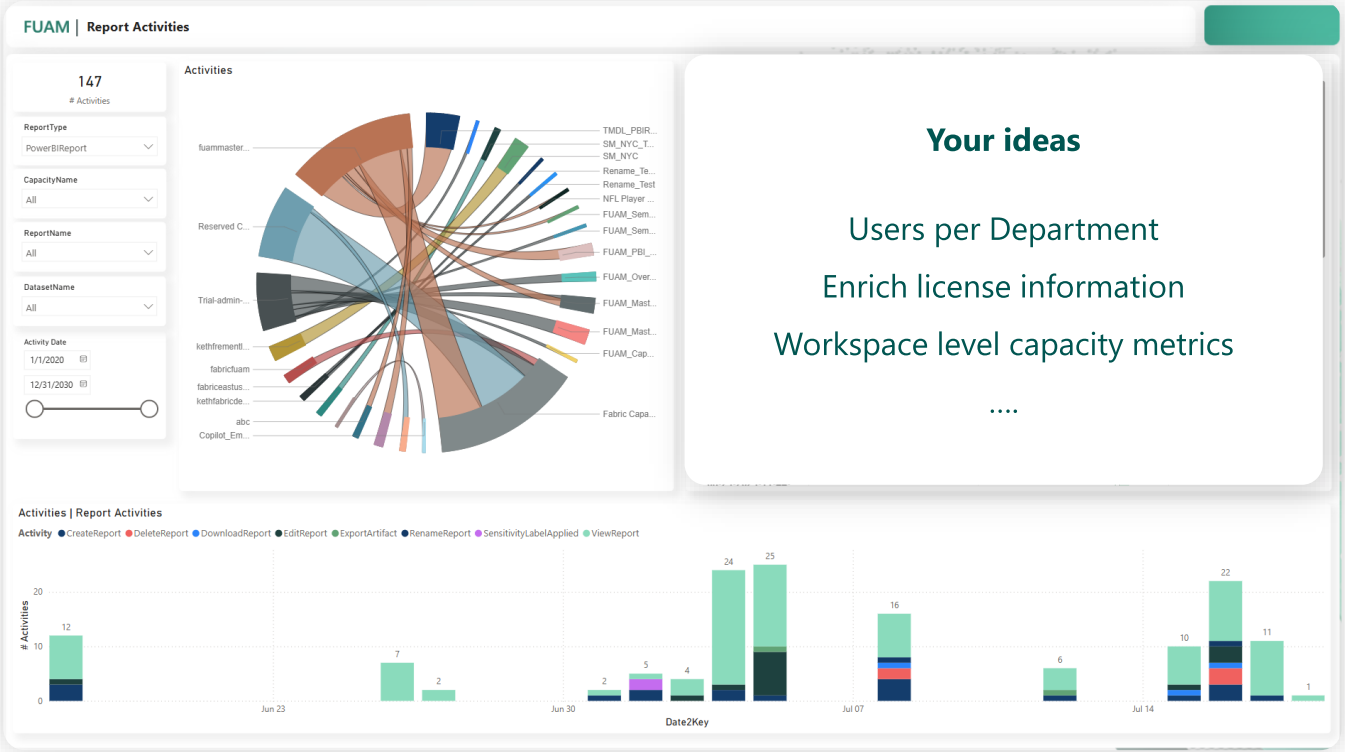
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Live demo

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Enrich FUAM for your organization.

We'd love it!





Our Story

FUAM Plus Package

"Tenant monitoring on next level with insightful details on artifact level"

- Deep Dive Reports on Artifact Level
- Automatic Analysis of Detail Data
- Extended Data Extraction of Detail APIs

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Deployment & Analysis Support

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Basic Package

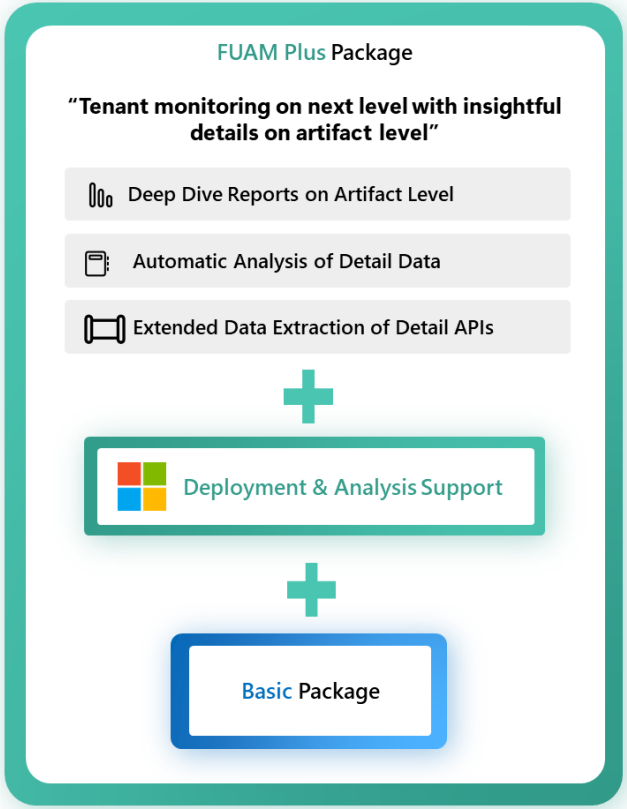
FUAM Basic Package

"Solid base for your Fabric tenant transparency."

- FUAM Basic Monitoring
- FUAM Data Foundation
- FUAM Basic Data Extraction

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Packages



Benefits

- Support from Microsoft
- Advanced Analytics with help of Capacity metrics data
- Customization to your monitoring needs

Next Steps (in case of Microsoft Unified Contract)

- Contact your Microsoft Account Manager



For the community



Your way to FUAM Basic Package

SCAN ME

GitHub

FUAM Basic Package

"Solid base for your Fabric tenant transparency."

FUAM Reporting layer

- Tenant overview
- Tenant network
- Artifact activities
- User activities
- Activity anomalies
- Tenant Settings
- Capacity Refreshables

FUAM Lakehouse

FUAM Ingestion layer

Load data
"Schedule the main pipeline"

Ready to go
"Analyze your tenant"

„10 min to deploy"

..with a little preparation 😜

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Please give us feedback for this session





Vielen Dank!

Thx a lot!

