

EUROPEAN MICROSOFT FABRIC Community Conference

VIENNA 15-18 SEPTEMBER 2025

▶ JOIN THE CONVERSATION

#FABCONEUROPE25





Brian Bønk

MVP and Data geek, Denmark



thttps://dcode.bi

https://aka.bi/slides







BUT WHY, BRIAN? Should really care?





BUT WHY, BRIAN? Should I really care?







OneLake security

Application could do it

Just like any other database in Fabric



END-TO-END SECURITY



OPTIONS IN KQL DATABASE



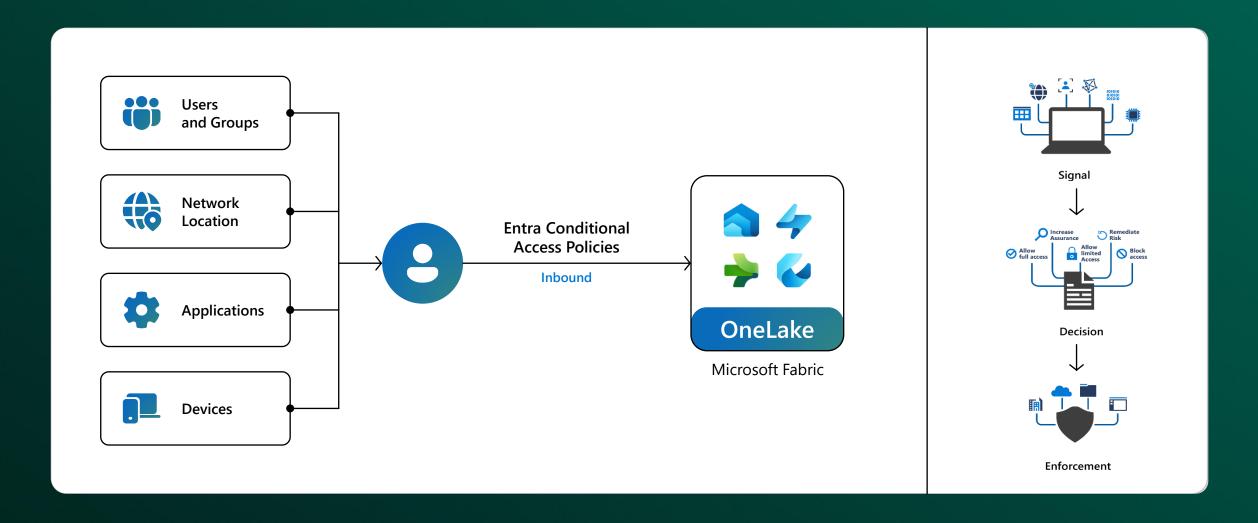
OBJECT SECURITY







The big picture and what are my options



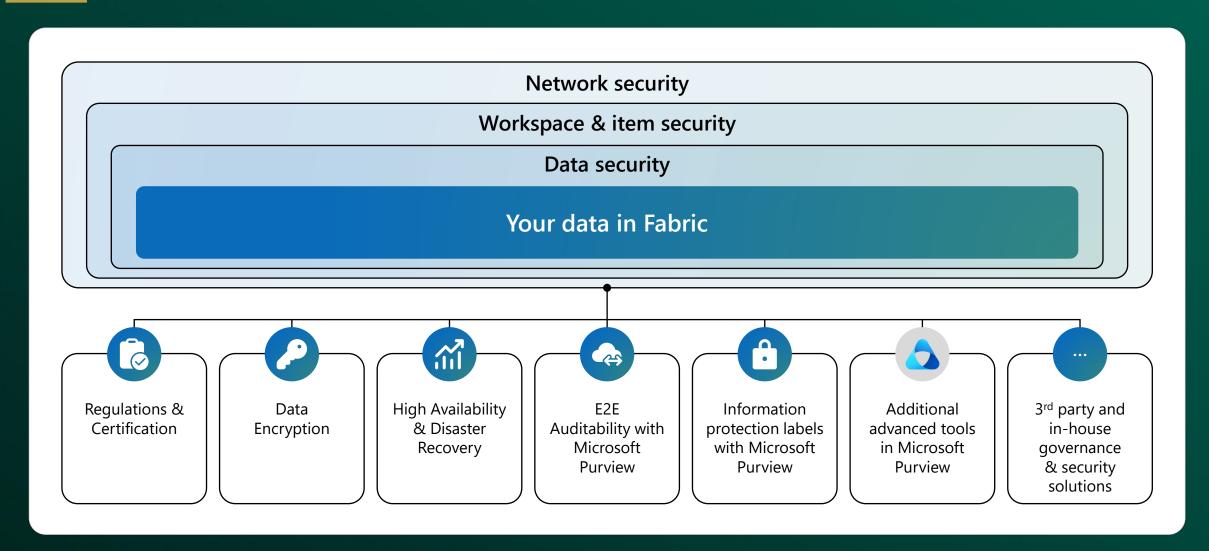








The big picture and what are my options



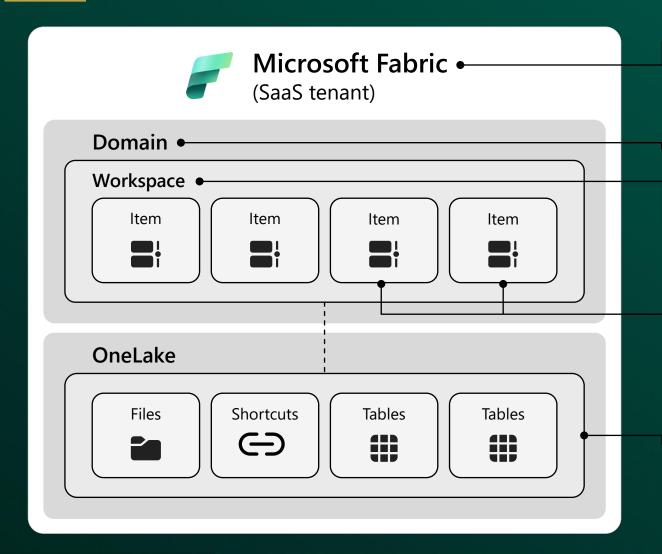








The big picture and what are my options



Platform level access.

Authentication through Entra ID. Inbound through Private Link or Conditional access

Domain specific configuration.

by domain admins

Workspace level access.

Boundary for managing items. E.g. admin, contributor and viewers.

Compute security.

e.g. Warehouse access through GRANT/DENY or Semantic Models & Warehouse RLS \ OLS.

Item level access.

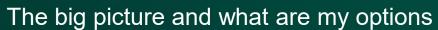
e.g. read all only via OneLake or read access to only subset of data. More granular roles for files and folders.

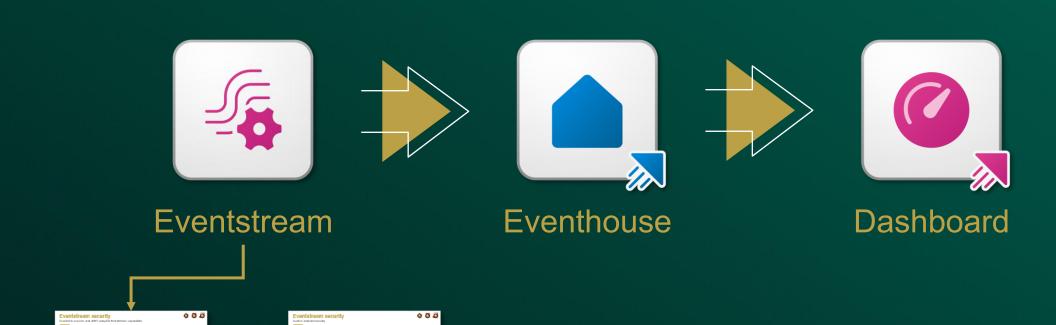














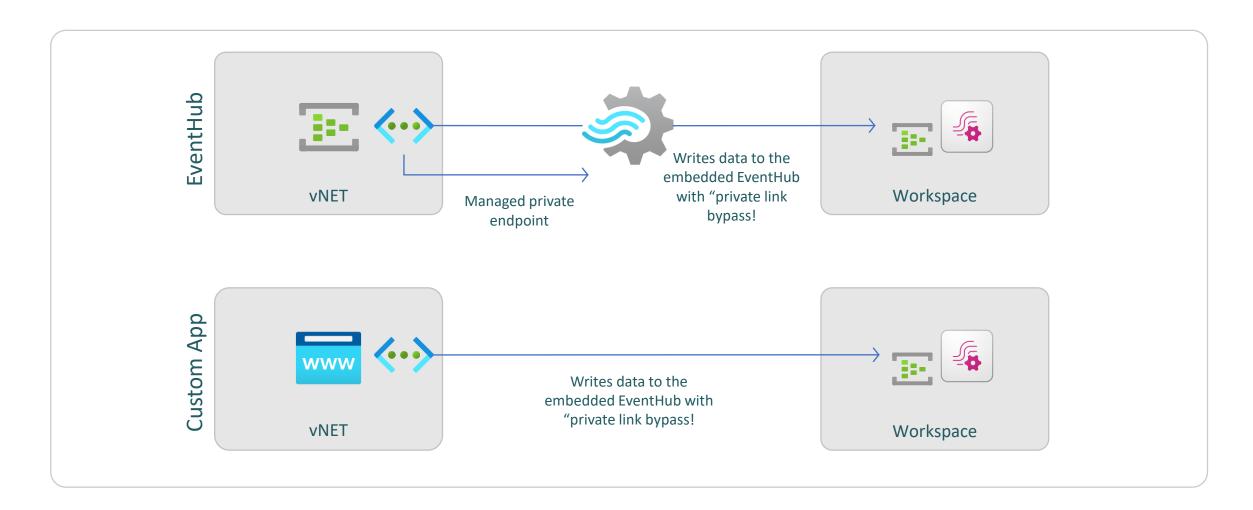
Eventstream security







Connect to on-prem and vNET using the Eventstream capabilities





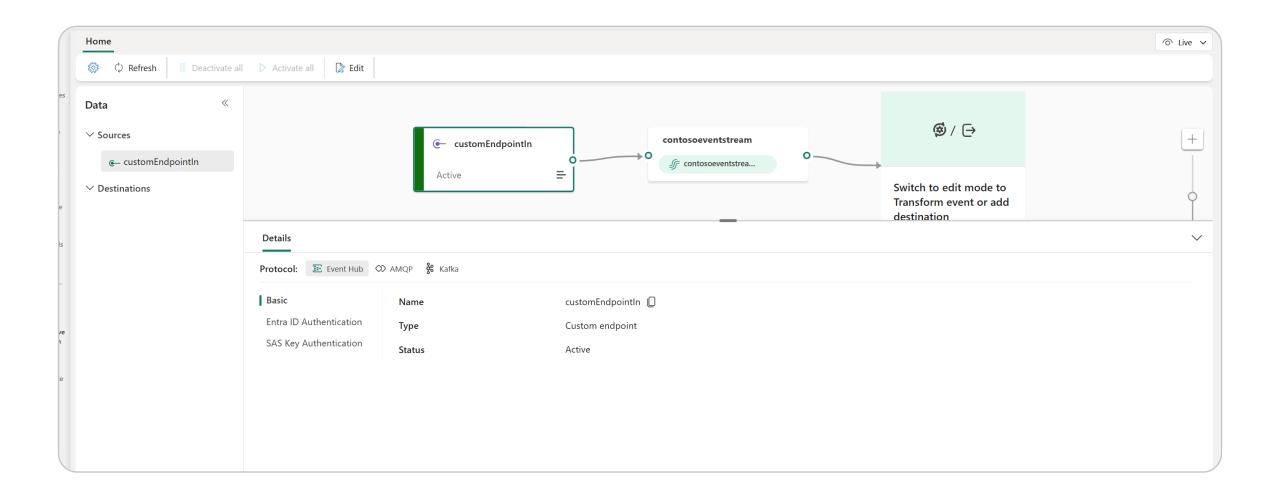
Eventstream security







Custom endpoint security



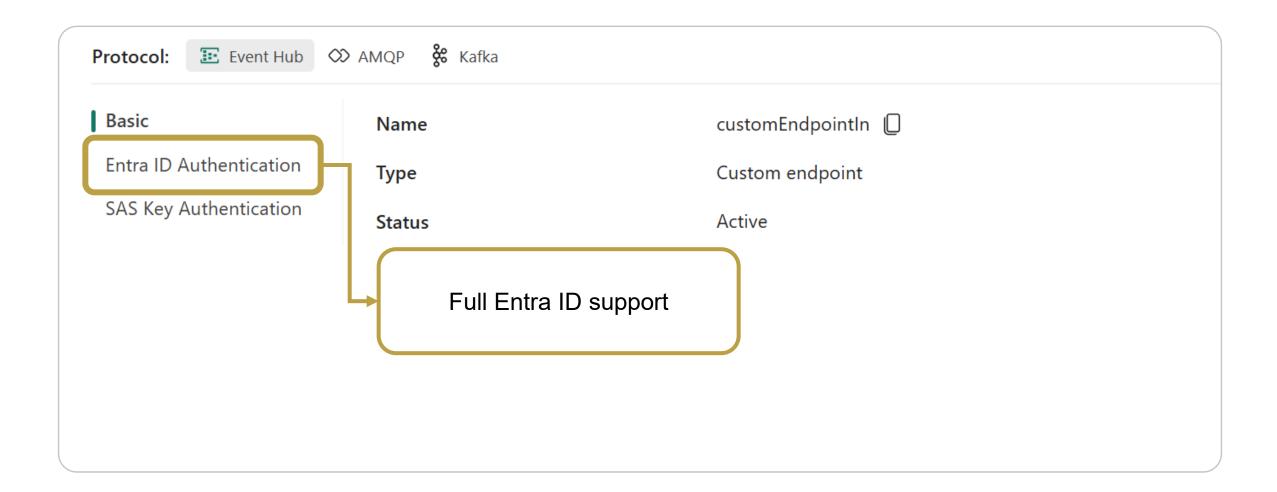
Eventstream security







Custom endpoint security

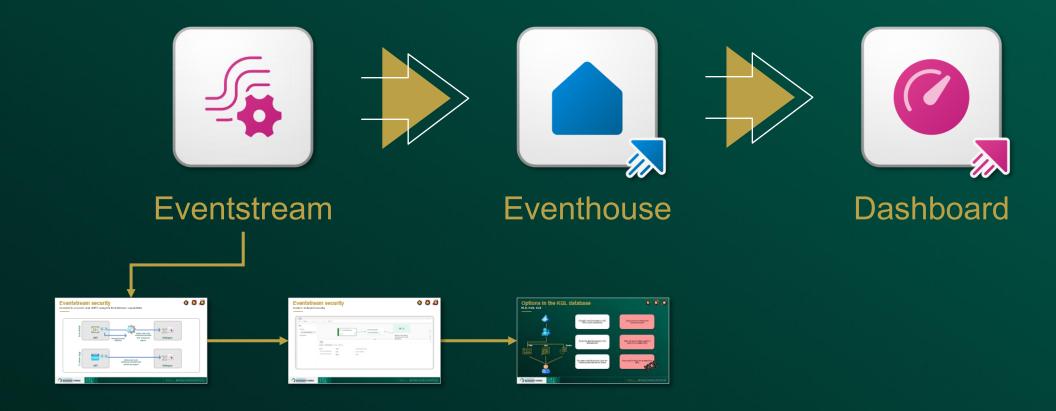








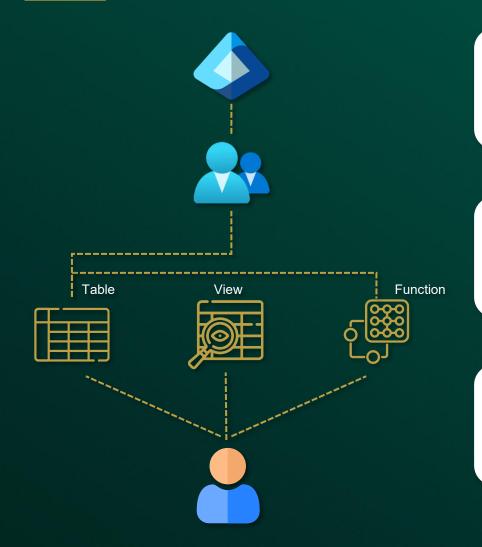
The big picture and what are my options







RLS, OLS, CLS



Evaluation happens based on AAD UPN or group membership

All security settings happens in the database level

No matter what object type is used, the underlying table defines the access

Does not work on tables with continuous import

Does not work on tables used in a query for an update policy

Only one RLS policy can be added to a table



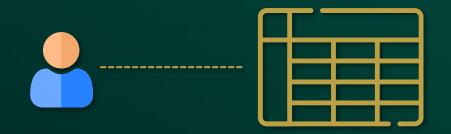








RLS, OLS, CLS – Use cases



Data masking

Col A	Col B	Col C
xxxx@gmail.com	Name	4571 xxxx xxxx 1234
xxx@microsoft.com	Name	4571 xxxx xxxx 1234

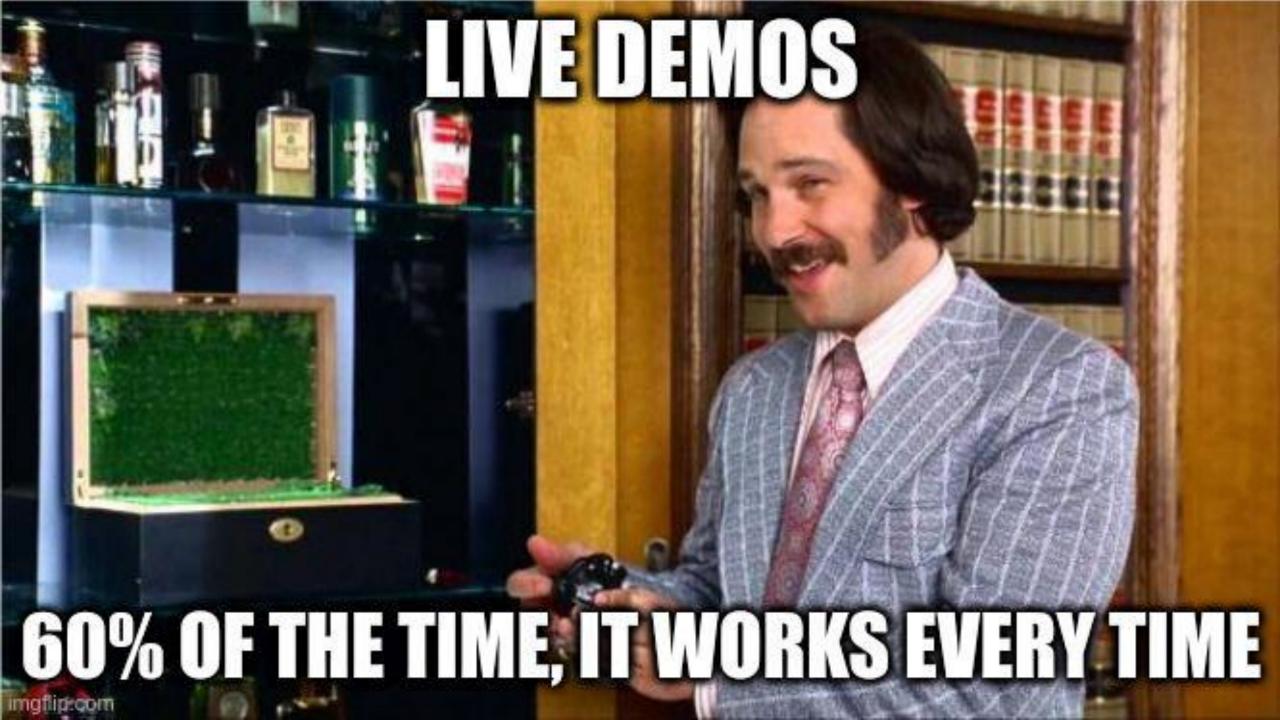
"Column Level Security"

Col B	Col C
Name	4571 xxxx xxxx 1234
Name	4571 xxxx xxxx 1234

Row Level Security

Col A	Col B	Col C
xxx@microsoft.com	Name	4571 xxxx xxxx 1234











RLS, OLS, CLS - Use cases

① Note

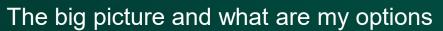
- To avoid throttling from Microsoft Entra ID, the current_principal_is_member_of() function only works with string literals. Using values that aren't string literals will result in an error in order to avoid a potentially large number of gueries to Microsoft Entra ID.
- Checking group memberships can be resource-intensive. Since group memberships don't change frequently, the membership check results are cached. The caching duration varies and determines how quickly changes to group memberships are updated.
- For more information on Group Membership cache behavior, see Access control overview.

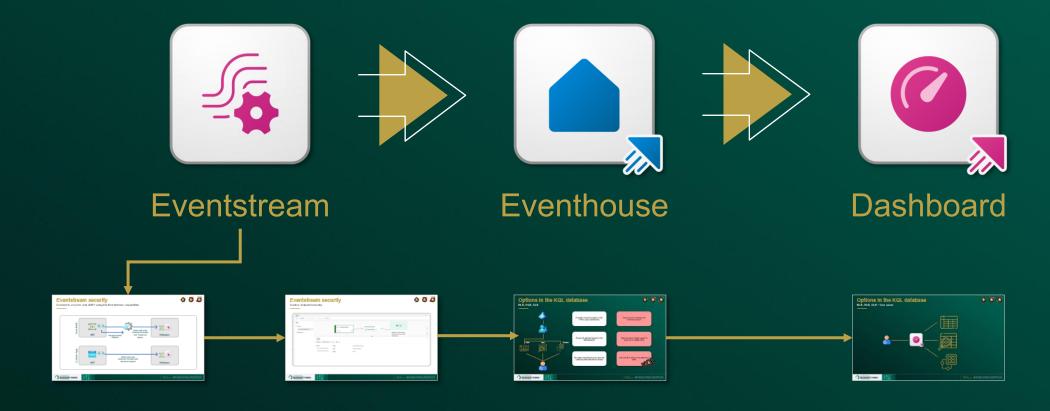
https://learn.microsoft.com/en-us/kusto/query/current-principal-is-member-of-function?view=microsoft-fabric











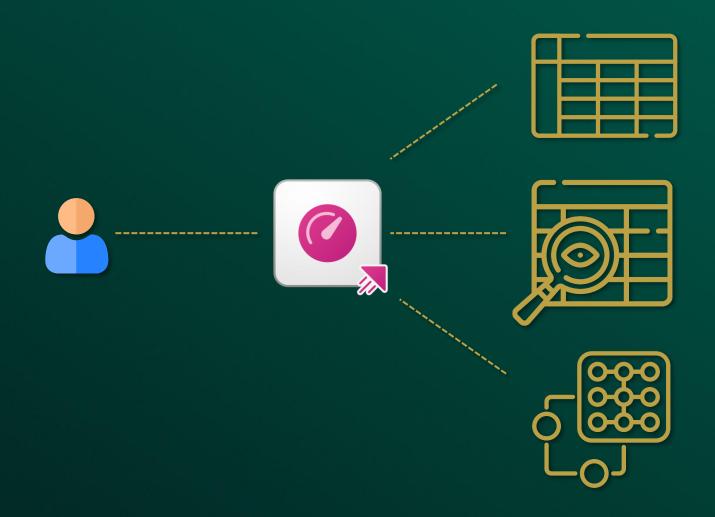








RLS, OLS, CLS – Use cases











The big picture and what are my options





END-TO-END SECURITY



OPTIONS IN KQL DATABASE



OBJECT SECURITY



Thank you

Please rate this session on the app



Brian Bønk

MVP and Data geek, Denmark

in https://aka.bi/brian https://kql.how

ttps://dcode.bi

https://aka.bi/slides





