

#FABCONSQLCON2026

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# Herding Fabric Cats: Administration and Governance Guidance



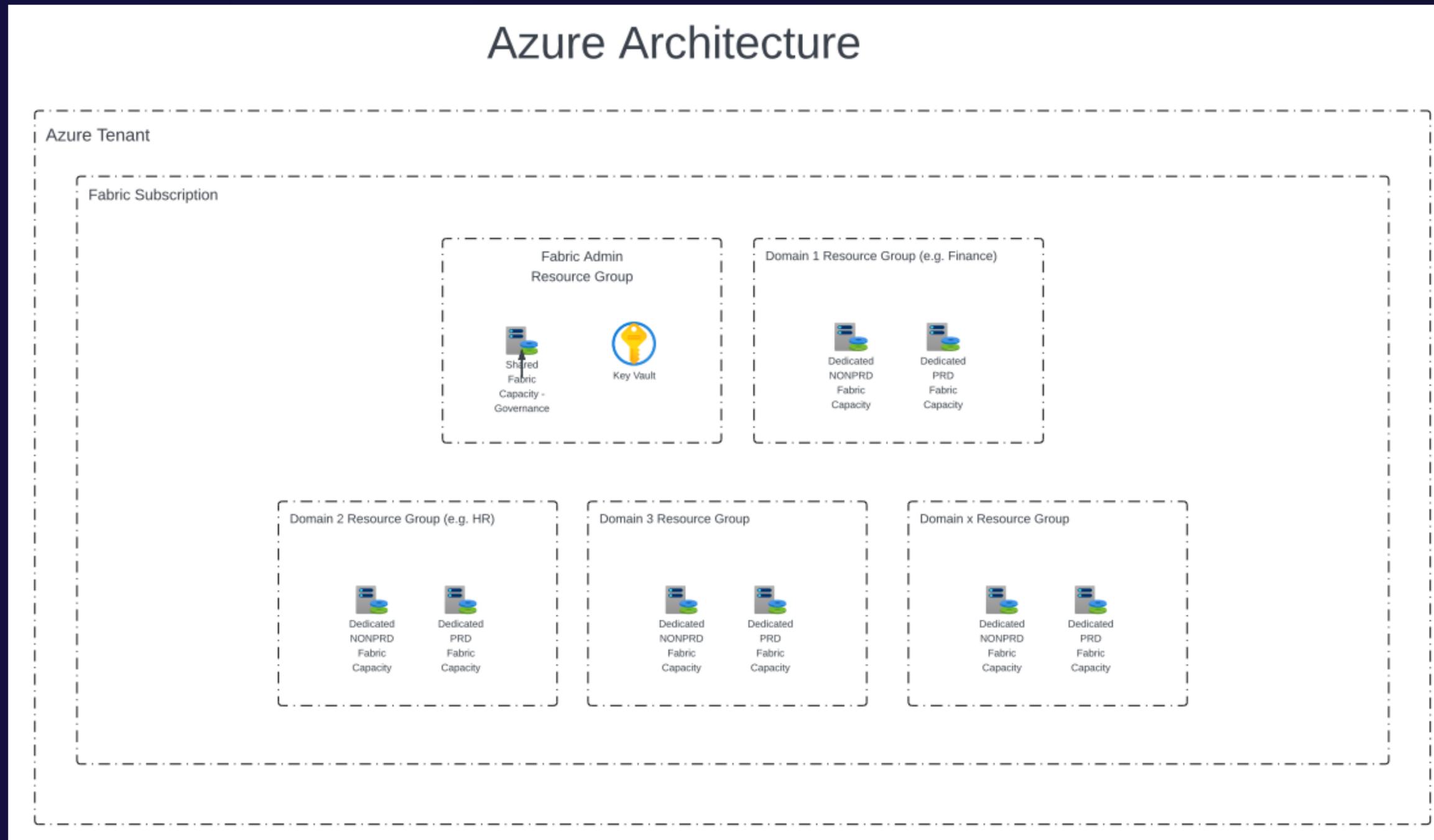
# Fabric Administration Framework



# Fabric Administration Framework

- Dedicated Fabric Azure Subscription
- Fabric Administrator Assignable Entra Group w/ PIM
- Fabric Administrator Service Principal
- Fabric Governance Workspace
- Semantic Link Labs with Governance Lakehouse

# Dedicated Fabric Azure Subscription



# Fabric Admin Entra Group w/ PIM

- Needs to be an Assignable security group
- Fabric Administrator role is assigned to this AAD Group
- Owner should be Fabric Admin
- Fabric Admin Service Principal becomes a permanent member
- Temporary or part-time Admins can be added as Member via PIM
- Fabric Administrator role is assigned to this AAD Group

# Fabric Admin Service Principal

- Needs special privileges (look up the App Reg Read Directory settings)
- Secret is used to authenticate as SP
- Secret is stored in Fabric Admin resource group key vault
- All Semantic Link Labs notebooks use this SP to call Admin APIs
- Tenant Settings for APIs (look them up)

# The Apps...



# The Apps...

- Capacity Metrics App – monitors Fabric capacity usage over time, highlighting which workloads and workspaces drive utilization, so Admins (Fabric and Capacity) can quickly identify bottlenecks and optimize capacity performance.
- Fabric Chargeback App – helps you understand which teams, users, and workloads are driving capacity usage, enabling you to build chargeback processes that fairly allocate costs based on actual consumption.

# Capacity Metrics App

## What it does:

- Shows capacity usage over time
- Identifies usage signatures and trends of capacities
- Helps monitor overages and throttling events
- Provides insights into compute usage at the workspace level

## How it helps govern:

- Shows peak utilization by workload
- Breaks down background vs. interactive
- Helps isolate problem workspaces / models
- Pinpoints execution bottlenecks directly to the user or artifact
- Forecasts future capacity needs based on historical usage patterns
- Facilitates cost allocation and chargeback models

# Fabric Chargeback App

## What it does:

- Shows what percent of your capacity was utilized by workspaces, items, or domains / subdomains
- Shows your daily utilization
- Utilization (CU) details
- Maps compute utilization to specific billing tags or departments
- Tracks accumulated costs over custom billing cycles

## How it helps govern:

- Allows for a “skin-in-the game” approach to internal cost allocation
- Decommoditizes Fabric capacity, which increases attention to usage / costs by business units
- Helps business units forecast / budget for *their* capacity usage
- Enables greater accountability for resource-heavy workloads
- Simplifies cross-charging metrics for financial reporting

# Fabric Cost Analysis (FCA)



# Fabric Cost Analysis (FCA)

## What it does:

- Integrates billing data directly into Power BI dashboards
- Provides granular visibility into daily consumption costs
- Highlights subscription usage against allocated limits

## How it helps govern:

- Empowers teams to proactively manage and reduce their spend
- Ensures budget alignment across multiple Fabric workspaces
- Streamlines cloud cost reporting for stakeholders

# Fabric Unified Admin Monitoring (FUAM)



# Fabric Unified Admin Monitoring (FUAM)

## What it does:

- Consolidates admin logs and metrics across all Fabric capacities
- Tracks access patterns, sharing activities, and workspace creation
- Provides pre-built reports for auditing platform-wide usage

## How it helps govern:

- Enforces internal compliance and security boundaries
- Identifies orphaned or inactive workspaces for cleanup
- Simplifies audit reporting for external assessments

# Fabric Spark Monitoring (w/ RTI)



# Fabric Spark Monitoring (w/ RTI)

## What it does:

- Provides real-time telemetry into Spark job execution and queueing
- Analyzes node utilization, memory consumption, and shuffle data
- Alerts administrators of long-running or failed Spark applications

## How it helps govern:

- Optimizes Spark pool configurations to reduce compute waste
- Prevents bad code from monopolizing shared capacity limits
- Speeds up root-cause analysis during data engineering incidents

# Admin Monitoring Workspace



# Admin Monitoring Workspace

## What it does:

- Provides a dedicated environment for centralized administrative reporting
- Hosts datasets with tenant-level activity logs and inventory data
- Serves as the foundation for custom governance dashboards

## How it helps govern:

- Restricts sensitive backend telemetry to authorized tenant admins
- Creates a definitive single source of truth for platform governance
- Enables deeper analysis into workspace and capacity utilization trends

# Other Resources



# Other Resources

- Workspace Monitoring w/ Report Templates
- OneLake Catalog Govern Tab

# •Workspace Monitoring w/ Report Templates

## What it does:

- Supplies ready-to-use Power BI templates for workspace-level monitoring
- Visualizes item usage, user interaction, and performance metrics
- Allows immediate deployment against built-in admin datasets

## How it helps govern:

- Accelerates the implementation of localized monitoring solutions
- Standardizes tracking and reporting terminology across departments
- Lowers the barrier to entry for establishing baseline governance

# OneLake Catalog Govern Tab

## What it does:

- Surfaces endorsement states (Promoted vs. Certified) across the tenant
- Displays data sensitivity classifications and lineage structures
- Highlights discoverable items available within the data estate

## How it helps govern:

- Drives the adoption of high-quality, certified data assets
- Helps data stewards quickly identify untagged or unclassified items
- Increases overall trust and transparency within self-service pipelines

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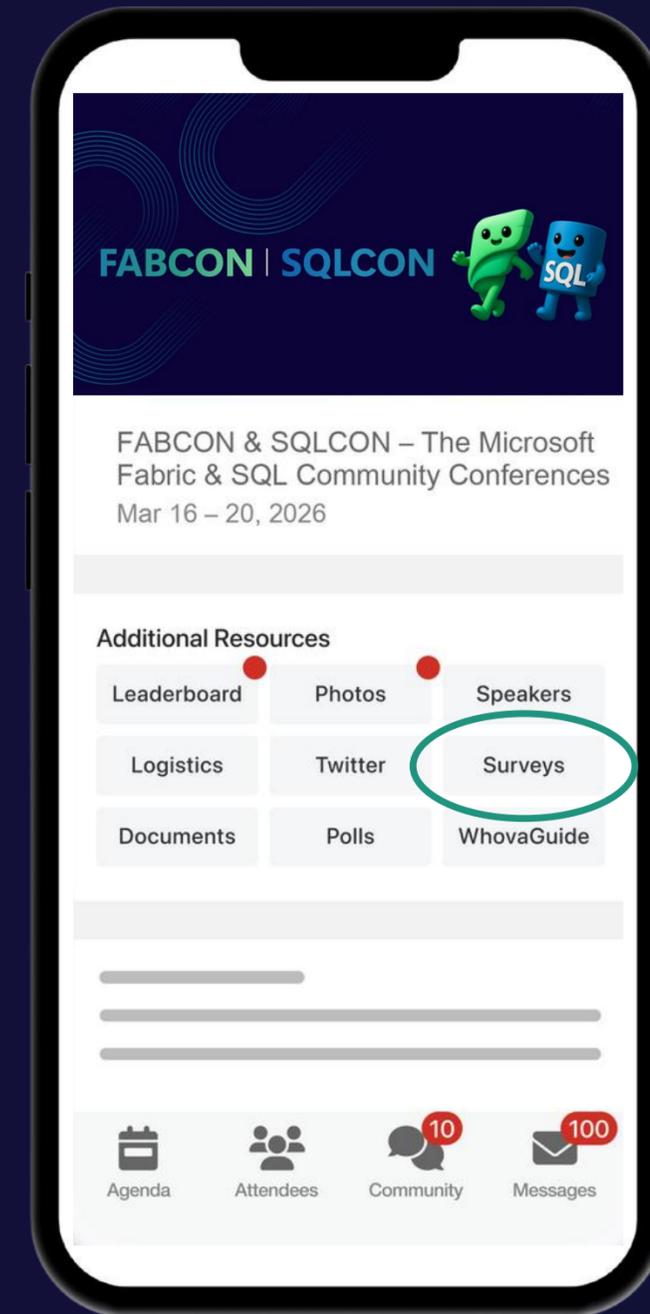
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