

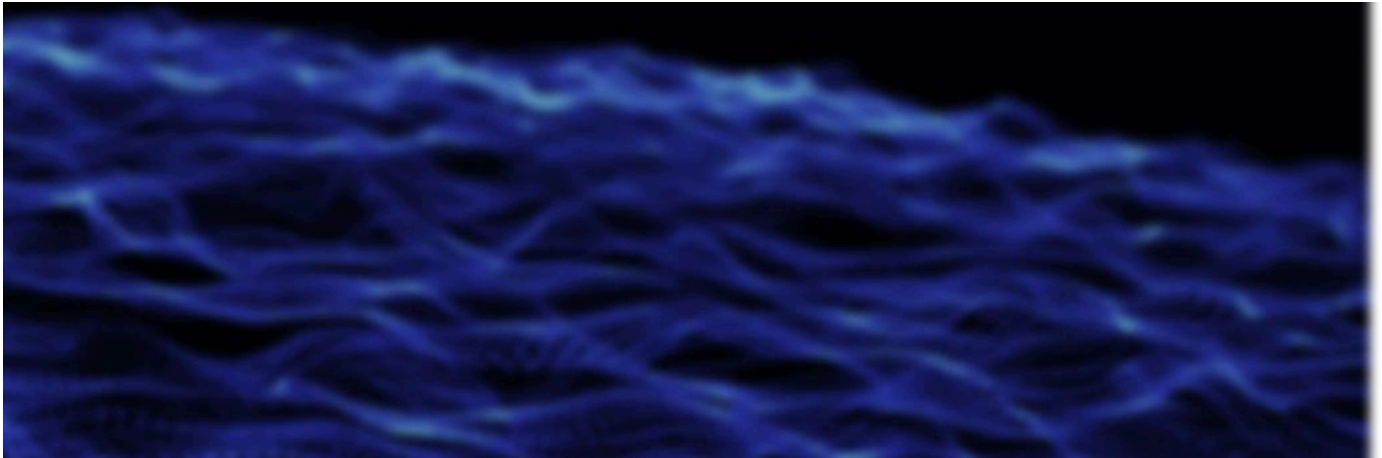
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# Build Secure Multi-Tenant Applications on Microsoft Fabric with AcuLoom

Deliver Scalable, Governed, and Future-Ready Multi-Tenant Solutions





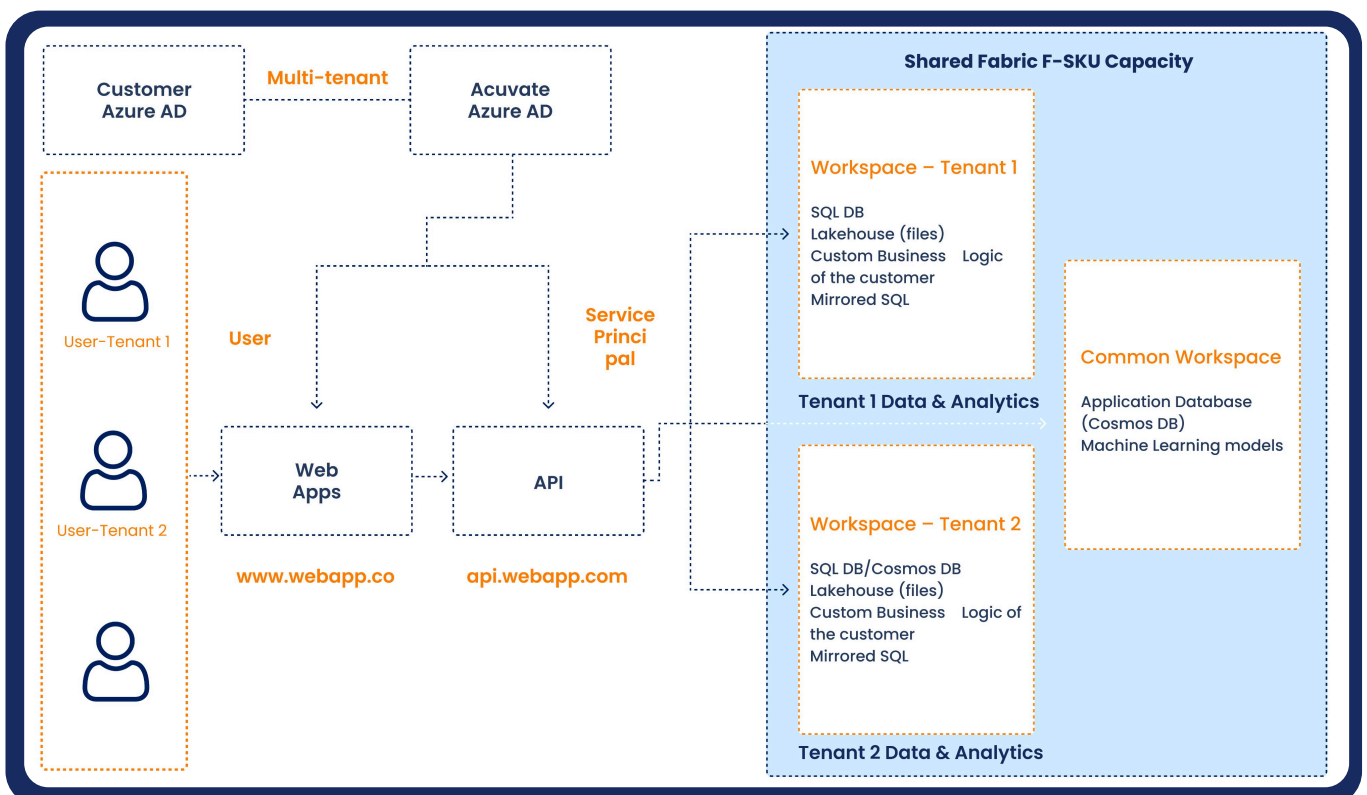
## Introducing AcuLoom – The Microsoft Fabric Multi-Tenant Accelerator

AcuLoom by Acuvate is a Microsoft Fabric Multi-Tenant Accelerator designed to help organizations build and deploy secure, efficient multi-tenant applications.

It enables you to serve multiple customers, business units, or operational entities from a single codebase — while ensuring strict data isolation, governed access, and optimal performance.

## Architecture That Scales with You

AcuLoom’s architecture is built on core Microsoft Fabric components to ensure secure, scalable, and cost-efficient multi-tenant deployments.



# AcuLoom: Key Capabilities



## OneLake – Unified Data Foundation

AcuLoom leverages OneLake as a single logical data foundation across the organization. All tenant data coexists within OneLake while maintaining strict isolation.

- Centralized and secure data repository
- Logical tenant separation through workspace segmentation
- Unified governance and access control
- Analytics and AI-ready data structure



## Capacity – Optimized Compute Resources

Microsoft Fabric capacity powers all workloads within AcuLoom. This model supports balanced performance, controlled cost, and flexible scaling.

- Scale using F-SKU tiers such as F4, F8, F16 and beyond
- Share capacity across tenants where appropriate
- Provision dedicated compute for high-performance needs
- Monitor performance using Fabric Capacity Metrics



## Workspaces – Tenant-Level Isolation

AcuLoom implements a workspace-per-tenant model for complete data and analytics isolation. Common workspace for shared services like:

Application database | Shared logic and services |  
Machine learning models

Each workspace:

- Operates within assigned capacity
- Can be region-aligned
- Maintains independent billing
- Enforces strict ownership and access control



## Secure and Cost-Efficient Data Strategy

AcuLoom is designed for efficient storage and compute utilization. Organizations pay only for compute when it is used, reducing idle infrastructure costs.

- Single OneLake foundation
- Tenant separation through workspace isolation
- Parquet-based storage
- Serverless compute model

## Built-In Security and Governance

AcuLoom integrates with governance platforms such as Microsoft Purview or Collibra to extend cataloging, classification, lineage tracking, and compliance policies across tenant environments.



### Workspace-Level Isolation

Each tenant's data and analytics remain isolated.



### Shared or Dedicated Capacity

Select shared capacity for efficiency or dedicate capacity for strict SLAs.



### Service Principal Profiles

Each workspace operates under its own identity profile, preventing cross-tenant identity exposure.



### Row-Level Security in Power BI

Fine-grained report-level control ensures users only see authorized data.



### Governed Access Layer

All access flows through a secure web application layer, eliminating direct bypass to underlying data systems.

## Single Codebase and Continuous Innovation

AcuLoom supports a unified development approach with controlled configuration. This structure enables feature expansion without code fragmentation.

- One application version across tenants.
- Shared core functionality.
- Tenant-specific configuration stored in the application database.
- Flexible customization including branding, menus, and feature controls.



# Business Impact with AcuLoom



## Accelerated Time to Market

Pre-structured accelerator framework reduces development timelines.



## Optimized Cost Structure

Shared infrastructure, serverless compute, and efficient storage reduce operational overhead.



## Built-In Scalability

Onboard new tenants, business units, or regions with confidence.



## Enterprise-Grade Security

Workspace isolation, identity separation, and governed access.



## AI and Analytics Ready

Native Microsoft Fabric capabilities support lakehouse, analytics, and machine learning integration.



## Future-Ready Architecture

Enhance tenant capabilities progressively without disrupting the core platform.

## Ready to Build Secure Multi-Tenant Applications with AcuLoom?

Reach out to discover how AcuLoom can accelerate your multi-tenant journey on Microsoft Fabric. Our specialists will help you define your multi-tenant model, align workspace and capacity planning, and design a secure, scalable foundation tailored to your business needs.

[Get Started](#)

Contact: [advisors@acuvate.com](mailto:advisors@acuvate.com)

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