Meeting Recap

Date & Time:
20 November 2024 5PM06

Attendees:

- Romain B
- Luxoria Team

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1. Executive Summary

The team reviewed storage strategies for our LuxStudio Solution. We initially considered migrating from a document-DB approach to a traditional file-system model. However, after evaluating long-term modularity, performance, and maintainability, we unanimously agreed to pursue a bucket-style database solution using MinIO.

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2. Discussion Points

Current Storage Model

- LuxStudio assets are presently stored in a document-oriented database.
- Concerns were raised about scalability and operational complexity.

File-System Migration Proposal

- **Pros:**
  - Simplifies backup and direct file access.
- **Cons:**
  - Limited scalability in distributed environments.
  - Potential performance bottlenecks under heavy I/O loads.

Bucket-Style DB (MinIO) Evaluation

- **Modularity:**
  - MinIO's S3-compatible API allows plug-and-play integration with existing cloud-native tooling.
- **Performance:**
  - Distributed, erasure-coded clusters ensure high throughput and fault tolerance.
- **Sustainability:**
  - Easier maintenance and upgrades via rolling updates.
  - Broad community and commercial support.

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3. Decision

Adopt a bucket-style object storage solution using MinIO for all LuxStudio asset storage moving forward.

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4. Next Steps & Action Items

- Prototype MinIO deployment (single-node) and validate core APIs.
- Benchmark read/write performance against existing document-DB setup.
- Draft architecture diagram and integration plan with LuxStudio
- Review security and backup strategies for MinIO cluster
