

Verteilte Systeme: File-Sharing Plattform

Agenda

Teammitglieder

Use Case

Architektur

Projekt

Teammitglieder

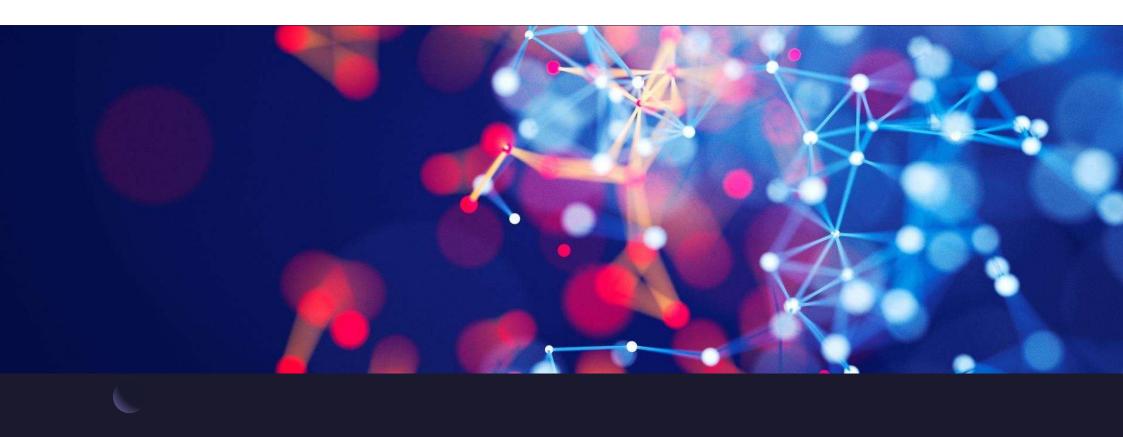


Sven Sendke



Aziz Carducci





Anforderungen

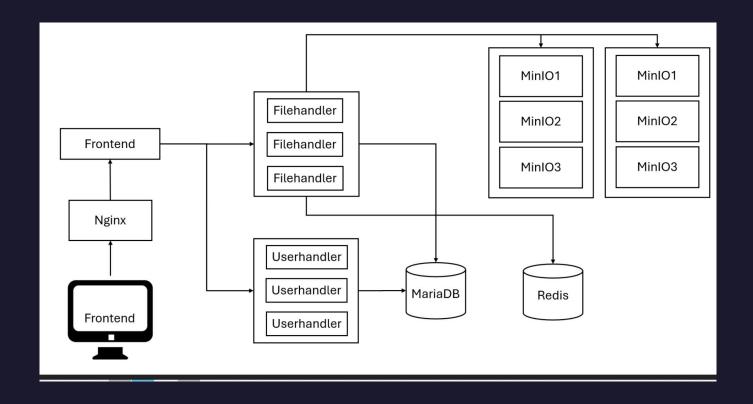
Anforderungen

- File-Sharing Plattform
- Zwischen 2 Personen
- Skalierung
- Load Balacing





Architektur





MinIO / Shards

minio shard1 → □ data1 iminio.sys aziz-sven-bucket √ □ data2 minio.sys aziz-sven-bucket √ □ data3 iminio.sys aziz-sven-bucket shard2 adata1 data2 adata3

Partitionierung

- Tabelle FileDetails
- Horizontale Partitionierung
- Spalte "yearweek"

```
→ III FileDetails

✓ □ columns 7

       file_id int (auto increment)

    □ bucketname varchar(63)

       filename varchar(255)

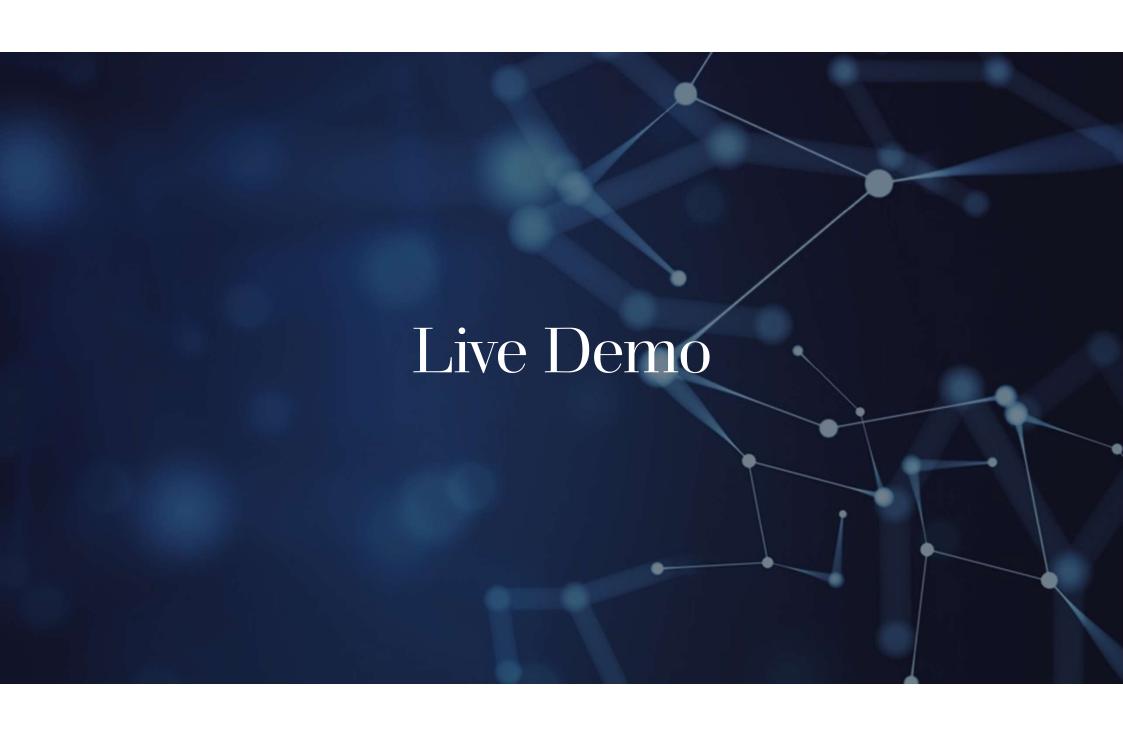
    □ shardeins tinyint(1)

       shardzwei tinyint(1)
       yearweek int
       timestamp timestamp = current_timestamp()
  > 🛅 keys 🕆
    indexes 1
    partitions 3
```



Error handling

```
log.error("Error occurred while uploading file", e);
```



Vielen Dank!

