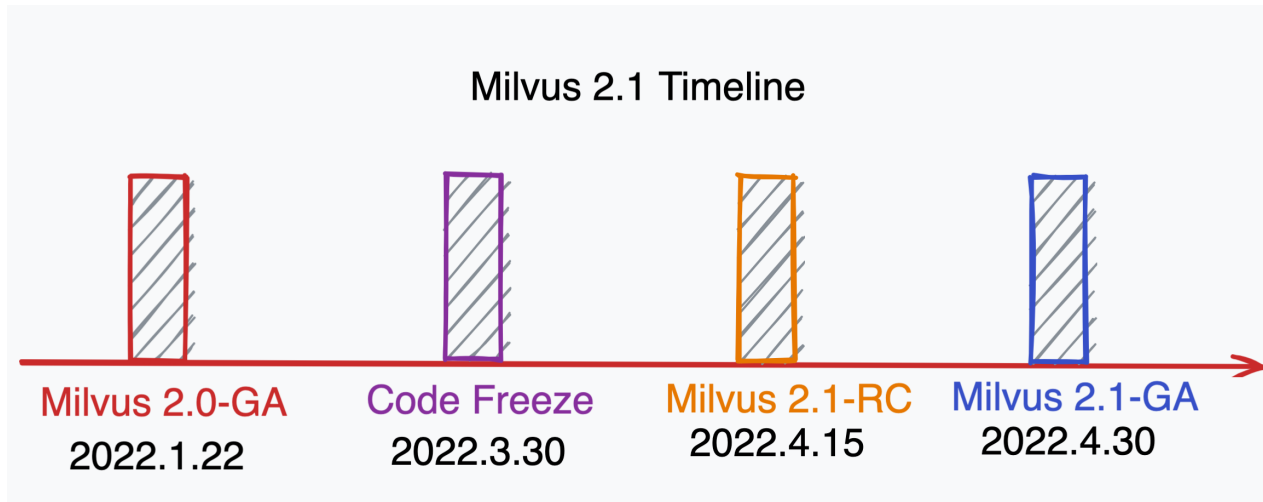


# Feature Plans of Milvus 2.1 & Milvus Community activities

## Milvus 2.1 Timeline



## What's inside milvus 2.1?

### Functionality:

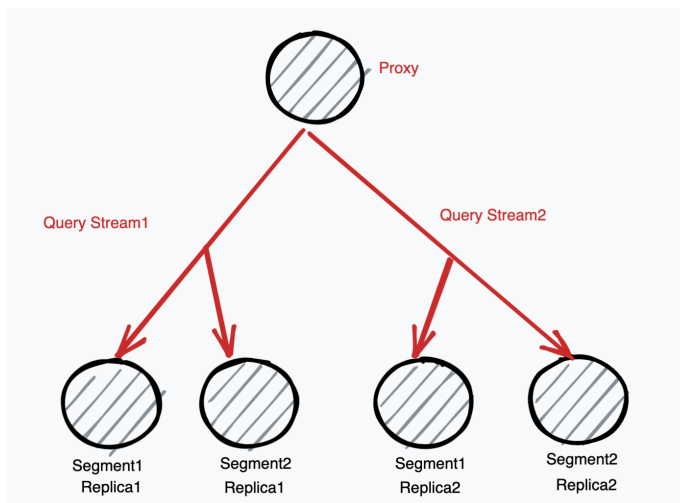
#### String Support

[MEP 11 -- Support String DataType](#)

#### Data Time To Live(TTL)

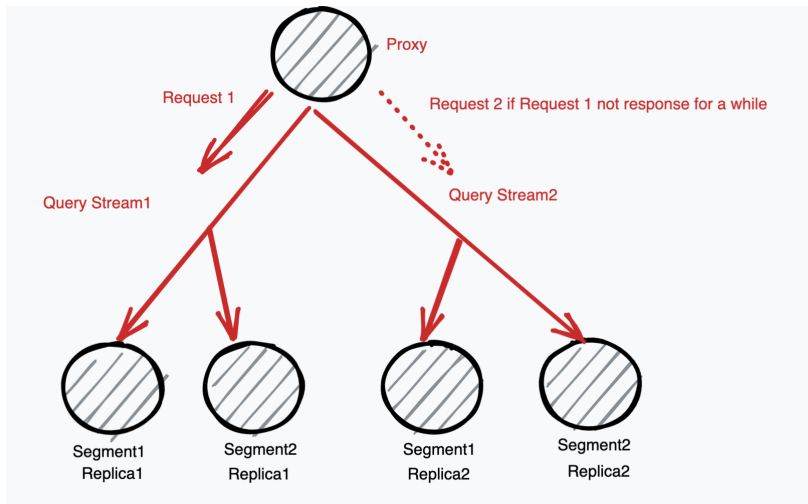
Support automatically purge outdated data

#### Multi Memory Replica



#### Speculative execution

Speculative execution is an optimization technique where a computer system performs some task that may not be needed



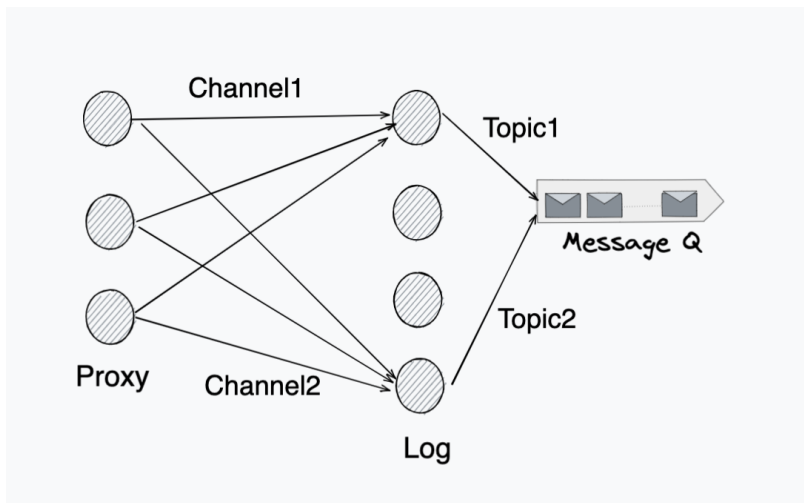
Account and password

Architecture Change:

Plugin Message Storage

More message storage options, such as Kafka, pulsar, rockmq...

Add Log node as a new component



each channel will be handled by one log node, all time tick will be sent by log node rather than root coord.

log node can implement log indexes for PK Segment mapping

Move knowhere out of Milvus as a independent oss project

Performance Boosting: Goal 10ms e2e latency under small data size (Minimize the overhead), 10000 + QPS for 100m 768 dim vectors (Maximize Throughput)

Full Performance benchmark

Performance bottle neck removal

In Memory RPC under standalone mode

change grpc into a new implementation

Request combination

Merge multiple small nq request into a large nq request to improve throughput

**Ease of use:**

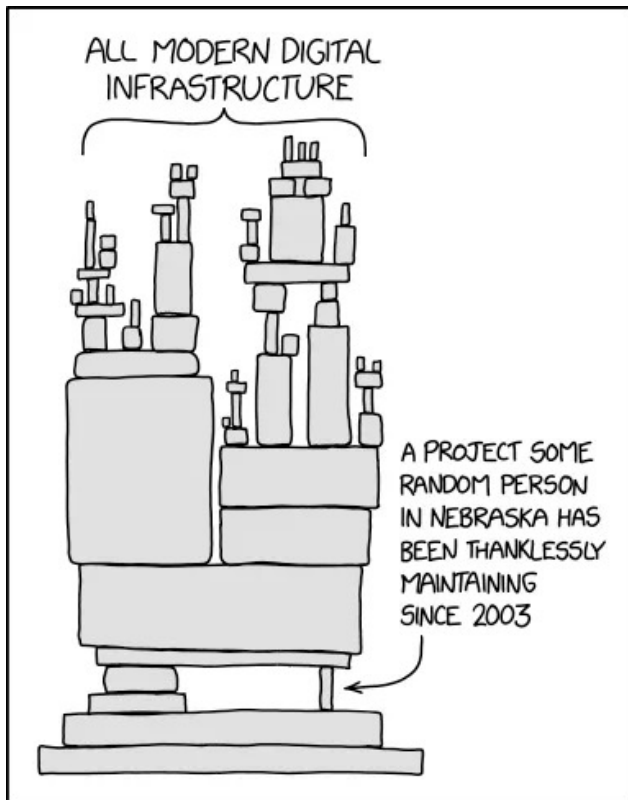
Support Milvus Standalone as a single process

Support Milvus as a python embedded library.

Dev && run milvus on Mac and Arm server

C++/Restful SDKs

**Other community improvements**



**Membership**

Mentorship

Looking for volunteers on refine technical documentation

Refines logs with new standard.