

Redis Schema

Things to consider...

1. How many Redis databases do I need?
2. What should I use for the Redis database names?
3. How should my Redis keys be structured?
4. Which keys should have expirations? Which ones permanent?
5. When should Redis data be SAVED?

Redis Database Names

- 0: Default database. Use for prototyping --> SANDBOX
- 1: Database for storing Schema data (Avro, Redis itself, Sqlite, Topics, etc.) --> SCHEMA
- 2: Database for storing message result/response data --> RESULT
- 3: Logging and monitoring database using Streams --> LOG

Redis Keys

- Use colons as separators
- Include tokens as in the keys when it makes sense to do so.
 - For example, if the data is sensitive and the reader should be authorized.
- SCHEMA Key structures
 - SchemaType:SchemaName:SchemaVersion
 - TopicName:MessageName:MessageAction:Version
 - Examples:
 - Avro:UserSchema:0.1.0
 - Avro:MessageRequestSchema:0.1.0
 - Avro:MessageResponseSchema:0.1.0
 - Redis:NamespacesSchema:0.1.0
 - Redis:KeysSchema:0.1.0
 - Sqlite:CreateTableSchema:0.1.0
 - Owl:SaskanOntologySchema:0.1.0
 - Topic:ontology_file:GetOntologyFile:request:0.1.0
 - Topic:ontology_file:GetOntologyFile:response:0.1.0
 - RESULT Key structures
 - Topic:Message:MessageId
 - Examples:
 - ontology_file:GetOntologyFile:asiuofas908r7we9r8h3ruioh3rhupiou8
 - saskan_concept:GetSaskanDataObject:lihkkklfdga980-sadfsdaf-dsfds
 - STREAM Key structures

- StreamID
- Examples:
 - [timestamp]-[sequencenumber]