

■ Redis Technical Challenge – Customer Test Instructions

This document demonstrates Redis Enterprise capabilities across replication, CRUD operations, and semantic routing for AI. It includes setup instructions, testing procedures, architecture diagrams, and business value mapping.

■ Architecture Diagrams

Below are conceptual diagrams to illustrate the Redis setups:

1. Replication (Source → Replica)

Source-db replicates data to Replica-db using Redis Enterprise replication.

[Diagram: Source-db → Replica-db replication]

2. Semantic Router

Queries are vectorized and routed to the most relevant category.

[Diagram: Query → Vectorize → Match Route (GenAI / Sci-Fi / Music)]

■ Business Value Mapping

Exercise	Technical Feature	Business Value
Replication	Source → Replica sync	High availability, disaster recovery
CRUD Ops	Namespaces & User Management	Governance, compliance (GDPR, HIPAA)
Semantic Router	Vector search & routing	AI-ready personalization, intelligent search

■ By completing these exercises, Redis Enterprise demonstrates enterprise reliability (replication), governance (CRUD operations), and innovation (semantic router for GenAI). This positions Redis Enterprise as both a high-performance operational database and a future-ready AI platform.