TinyURL

# Introduction

The project consists of one (or more) HTTP frontends and one (or more) Redis databases. The assumption is that the number of lookups on a URL will be (much) larger than the number of creations of shortened URLs. Therefore the lookups are done on the Redis slaves.

# Scale out

Several frontends and Redis slaves can be added to the setup.

# Fail over

Several frontends give failover if any of those fails. The lookups are automatically spread over the slaves.

To prevent the Redis master to be the single point of failure, one of the slaves will be promoted to master if the current one goes offline. (Not implemented).

Redis slave

Frontend

Frontend

Redis master

Redis slave(s)

Frontend(s)

Create