



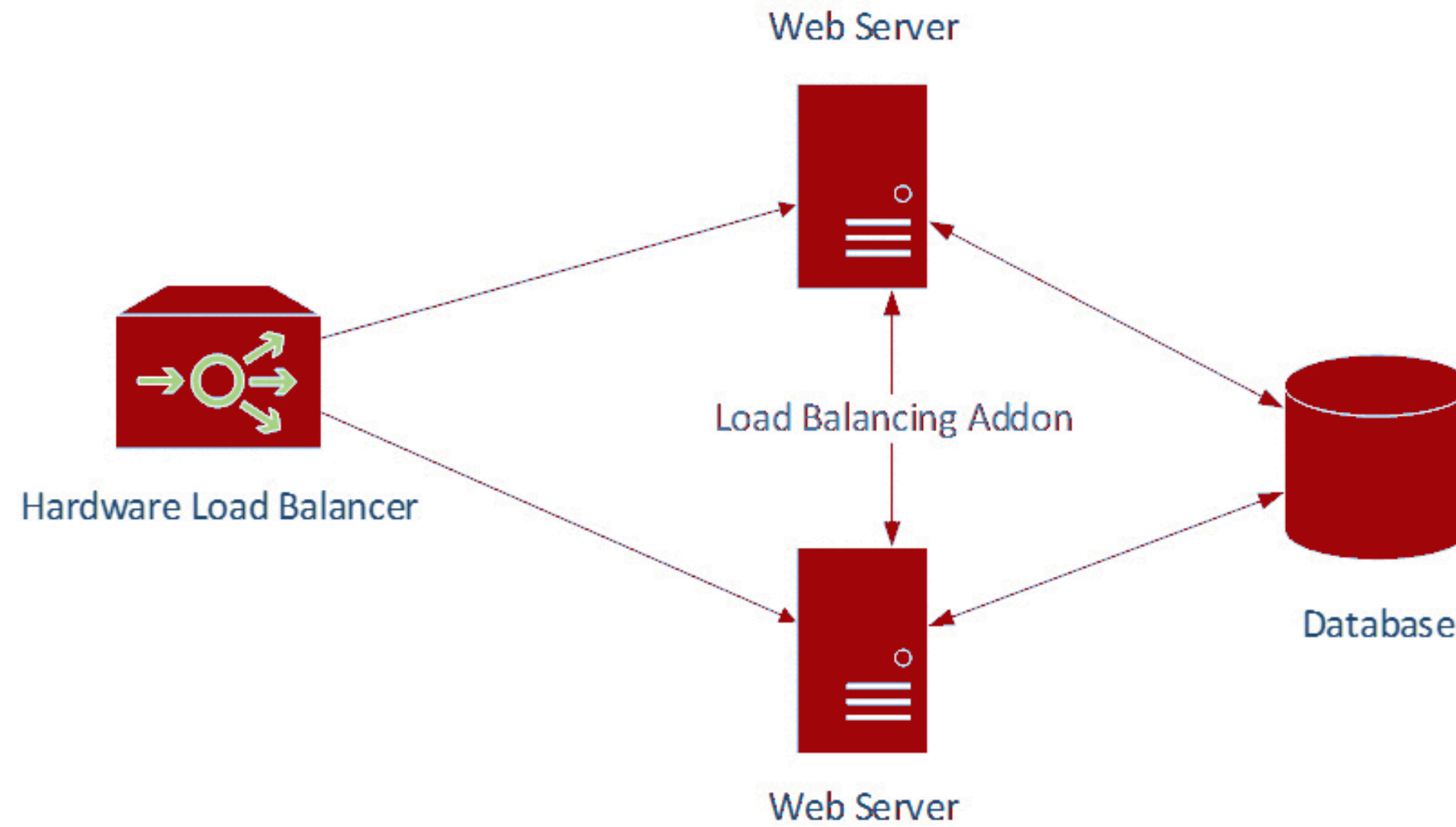
In-Memory Databases

- Unsung heroes of modern data management

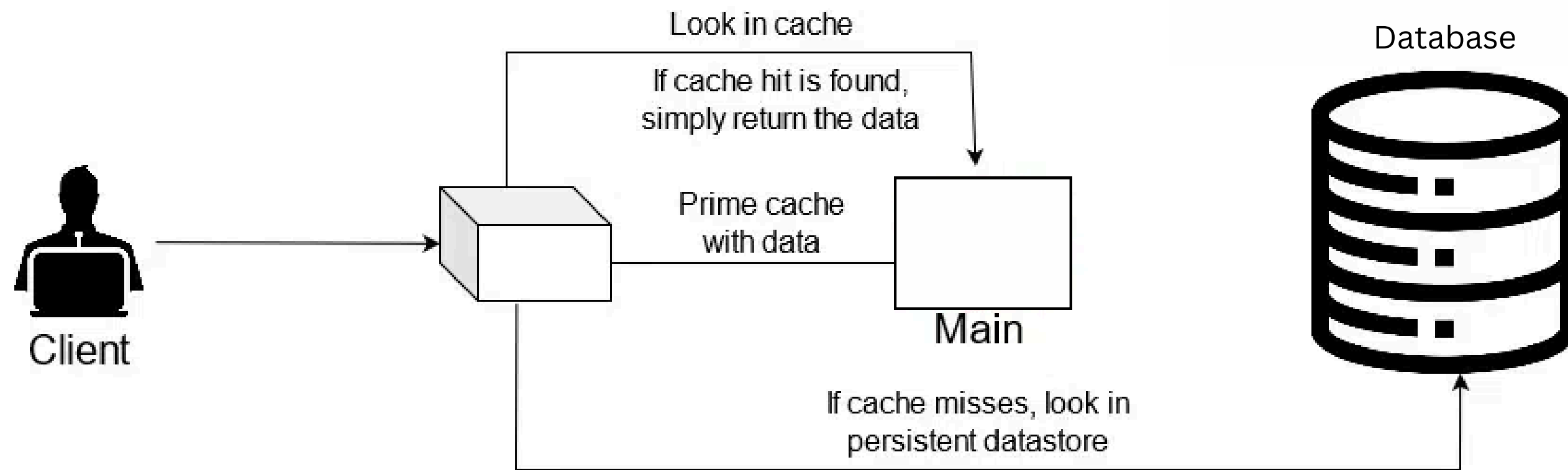
Index

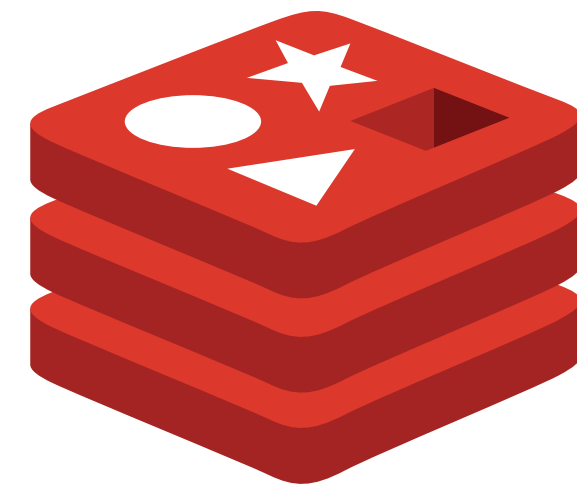
- Introduction to In-Memory Database
- What is In-Memory Database?
- Different types of In-Memory Database?
- Real World Use Cases

Without Caching

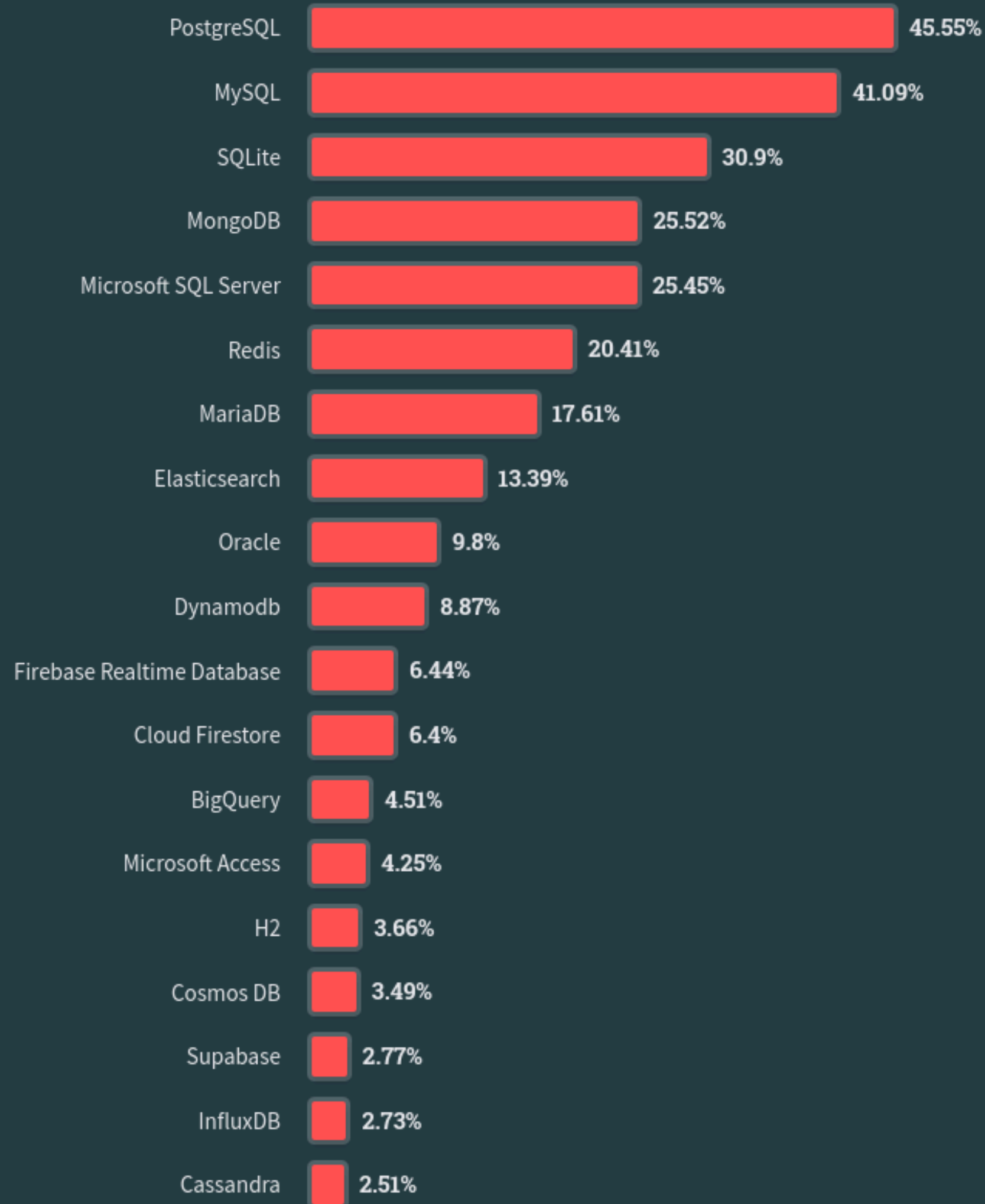


With Caching





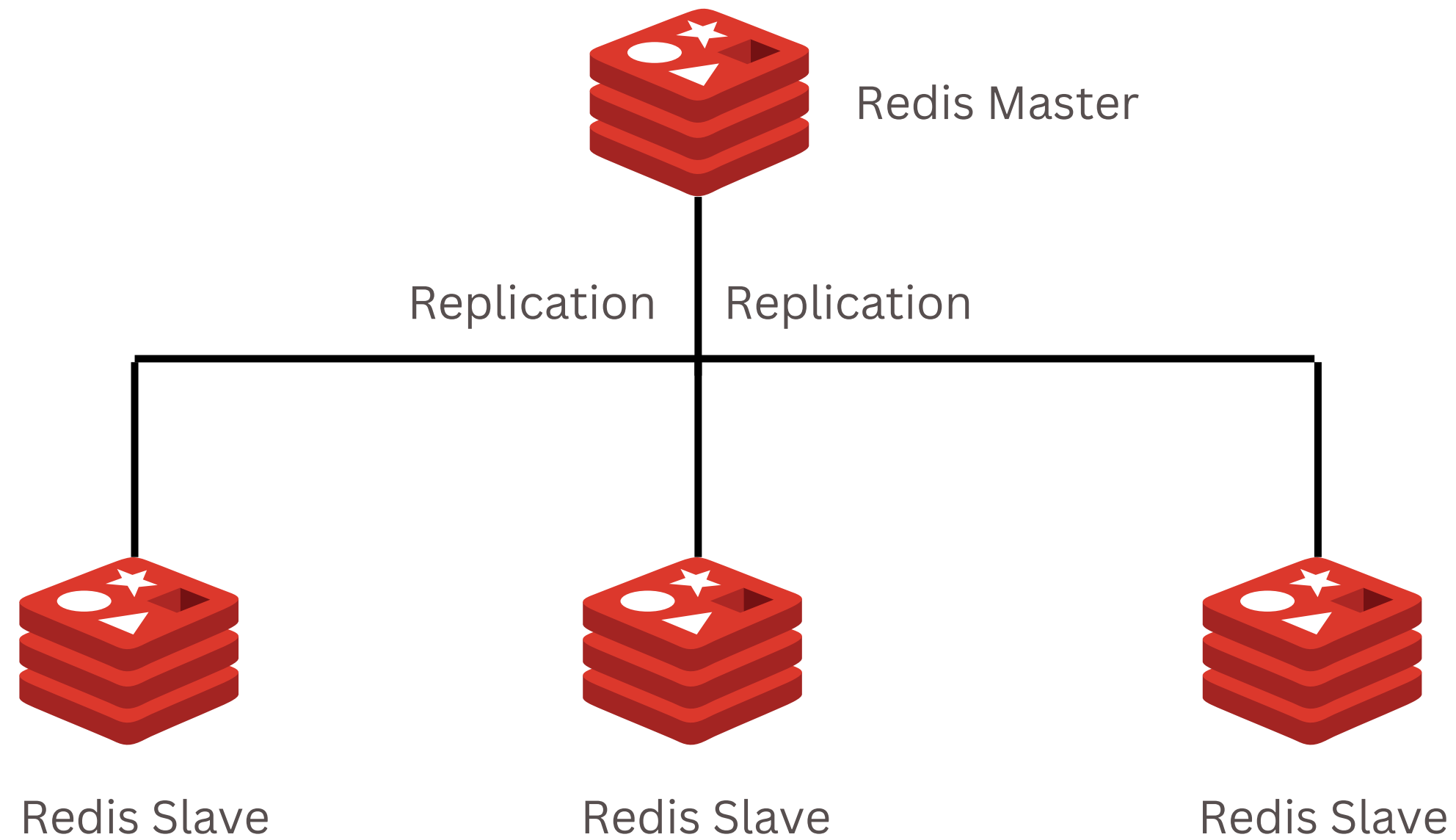
redis



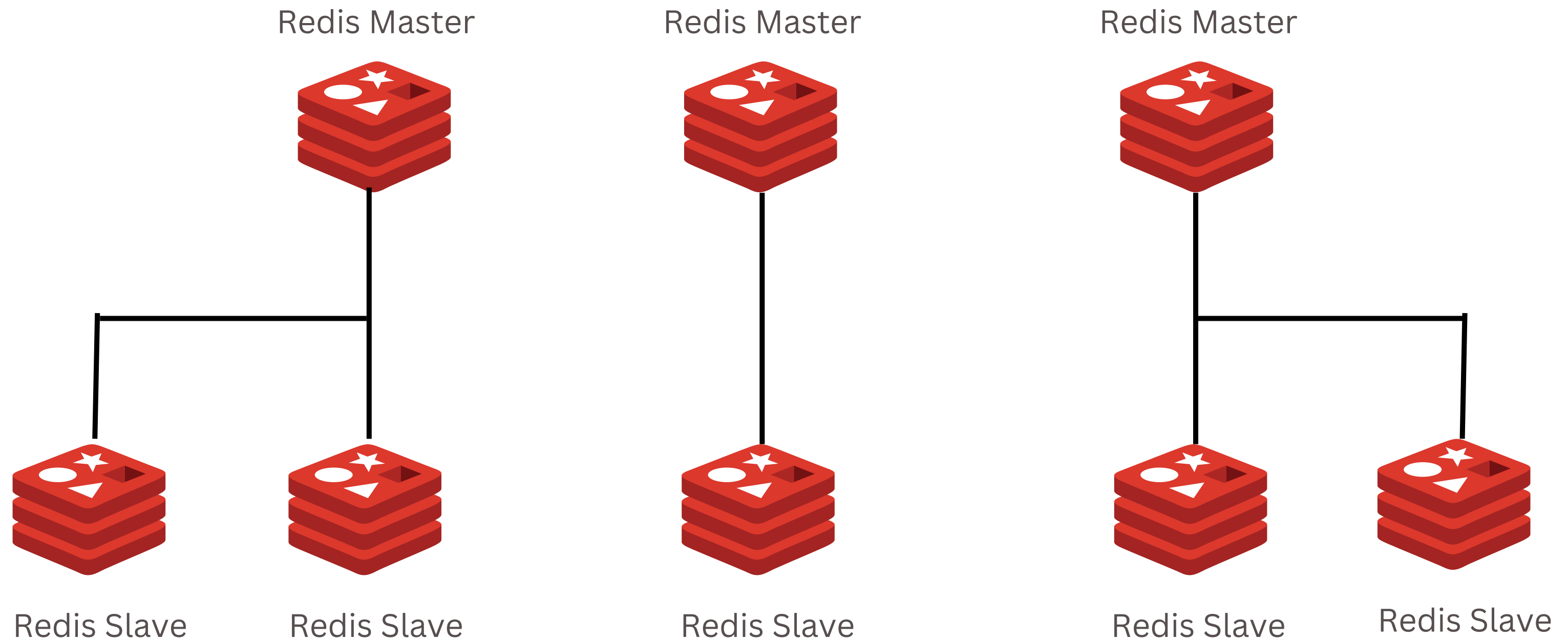
Most Popular Databases

Stack Overflow Developer Survey
2023

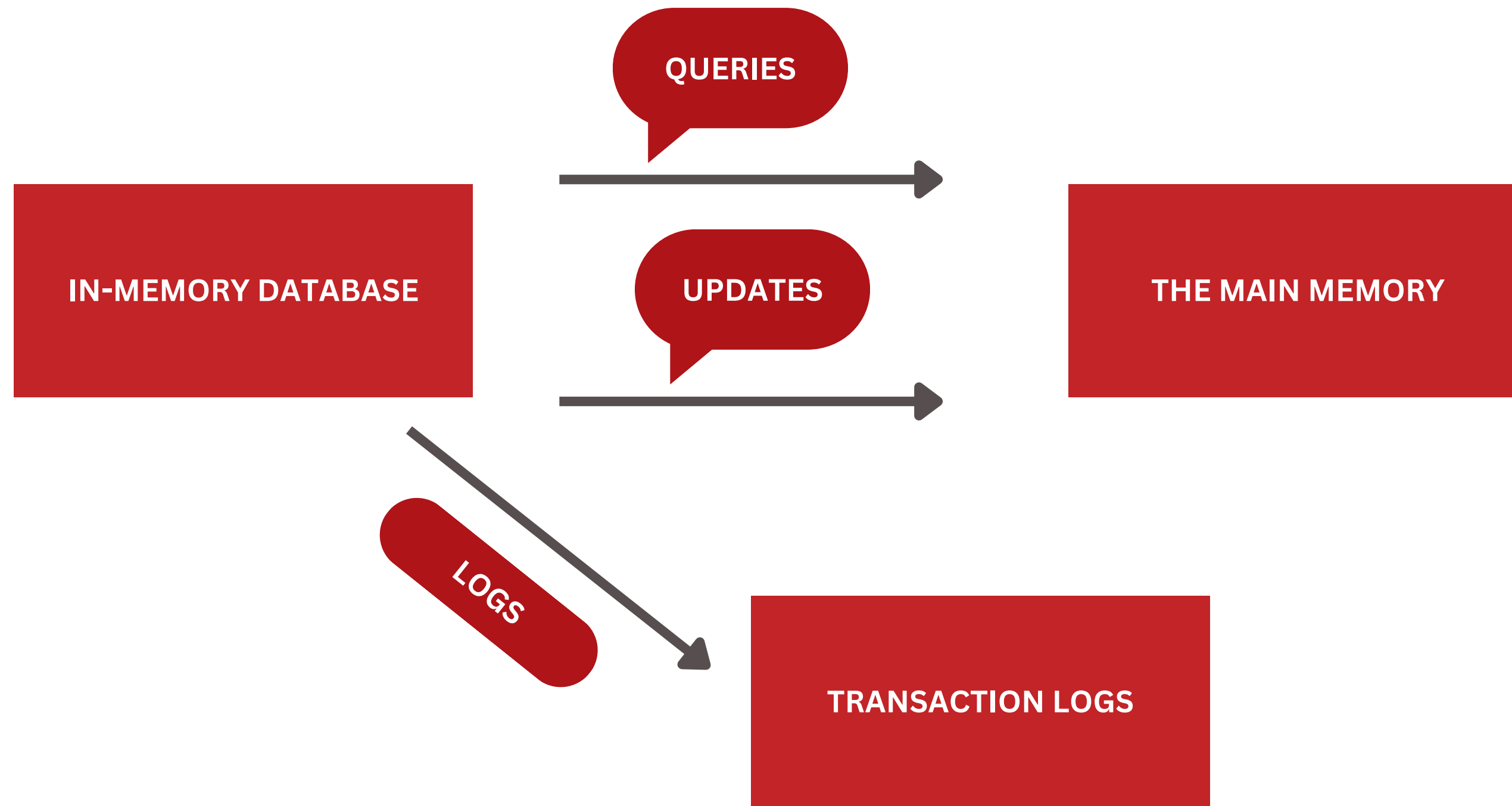
Master-Slave Architecture



Cluster Architecture



In-Memory Database



Applications of Redis

- **Gaming:** Manage game state, player interactions, and leaderboards in real time. It ensures that all players receive the latest game updates with minimal latency
- **Location-Based Services:** Redis' support for geospatial data can be used to build real-time location-based services, such as finding nearby restaurants, friends, or vehicles. Users' locations can be updated in real time, and Redis can efficiently handle spatial queries
- **Notifications and Alerts:** Redis can power real-time notification systems, alerting users to events, updates, or important information. This is commonly used in social media platforms, email services, and monitoring applications

Memcached



Thank You