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Azure Redis





bit.ly/NSWI152

Redis

- Remote **D**ictionary **S**erver
- **in-memory** storage
- data stored as **key-value** pairs
- values could be various data types
- **single-threaded**
- operation are atomical
- optimised for **high performance**
- written in C, open source (BSD)
- no dependencies, easy to use

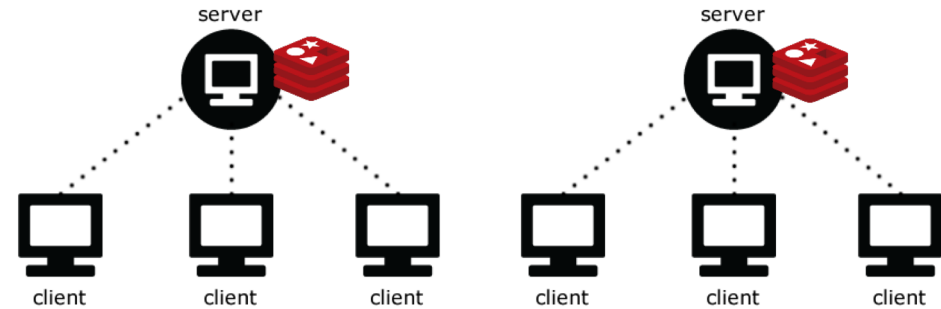
Special features

- persistence
- replication
- clusters
- pipelining / batching
- LRU cache
- LUA scripting
- high availability

Consideration: local or centralised

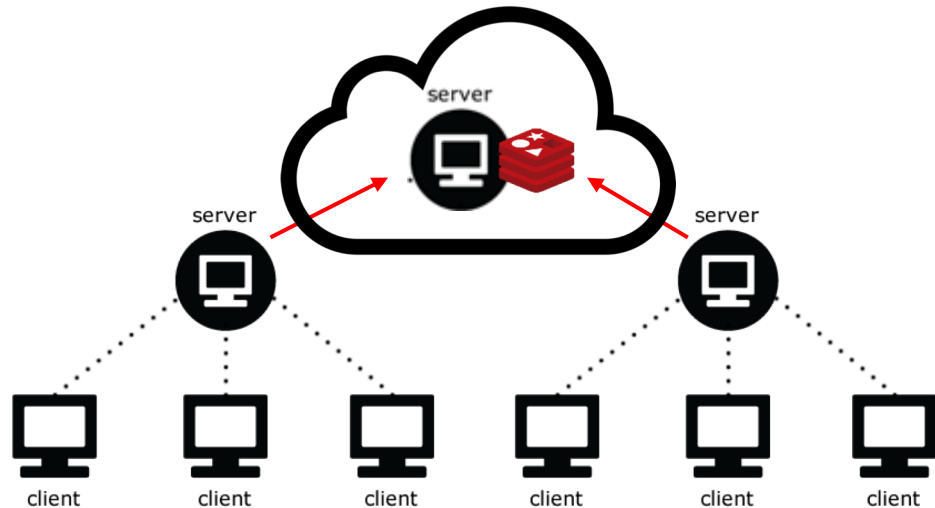
Local Redis

- no network latency
- reliability (distribution)
- sync in multitenant needed
 - data invalidation



Centralised Redis

- network latency (depends on infrastructure)
- single-point of failure
- consistent in multitenant environment



Redis in Microsoft Azure

- **Redis as a service** – based on **Redis 3.2.7**
- configuration in Azure portal (**restrictions in Redis CLI**)
- nice diagnostics features and system resources overview
- three pricing tiers (Basic / Standard / Premium)
- advanced features available only in Premium tier
 - **replication** (UI driven), **persistence** (RDB, page blobs), clusters..
- **low latency** in Azure infrastructure (choose proper region)
- <https://azure.microsoft.com/cs-cz/services/cache>

