

Storing and Retrieving Data in Azure Redis Cache



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Azure Redis Cache Pricing Tiers

Basic

Standard

Premium

Minimal feature set

No SLA

Development and test

2 Replicated nodes

99.9% availability

53 GB of memory

20,000 clients

Redis cluster

Low latency

99.95% availability

40,000 clients

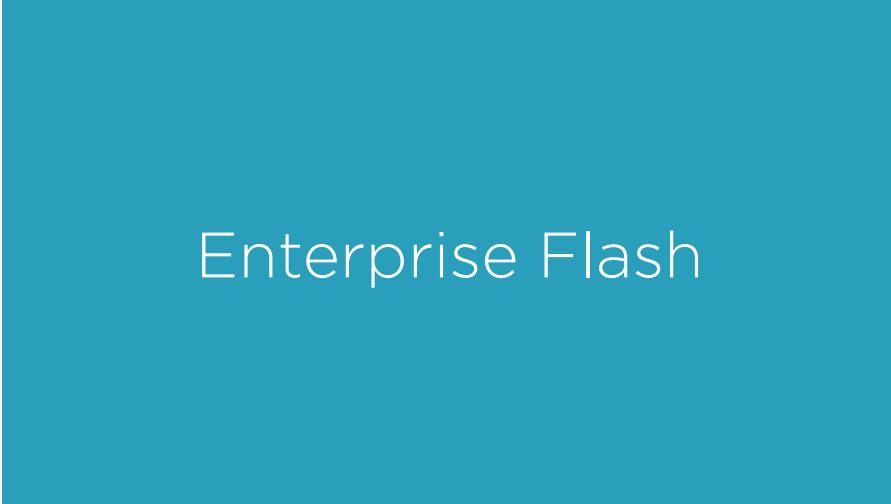


Azure Redis Cache Pricing Tiers



Enterprise

Full Redis feature set
99.99% availability



Enterprise Flash

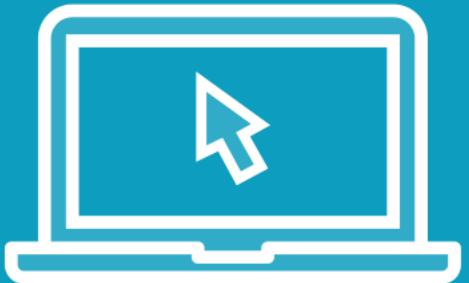
Fast non-volatile storage



You can scale up, but you
cannot scale down!



Demo



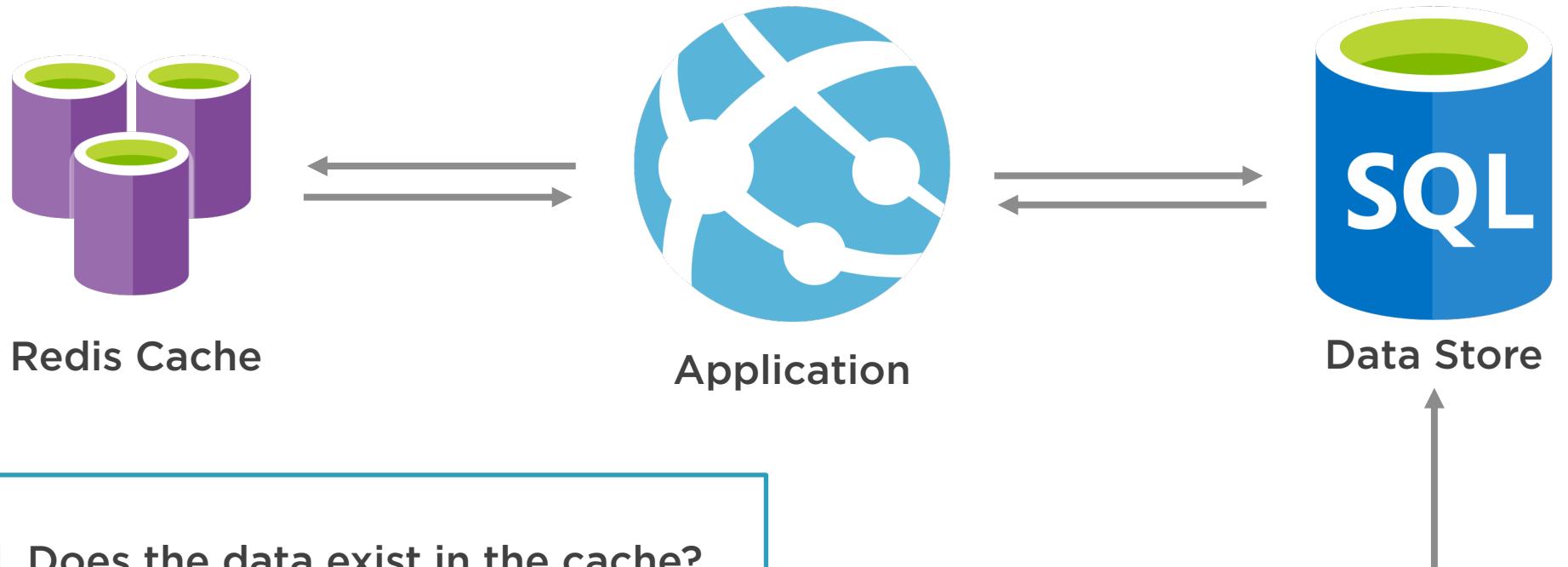
Create an Azure Redis Cache



Exploring Caching Patterns



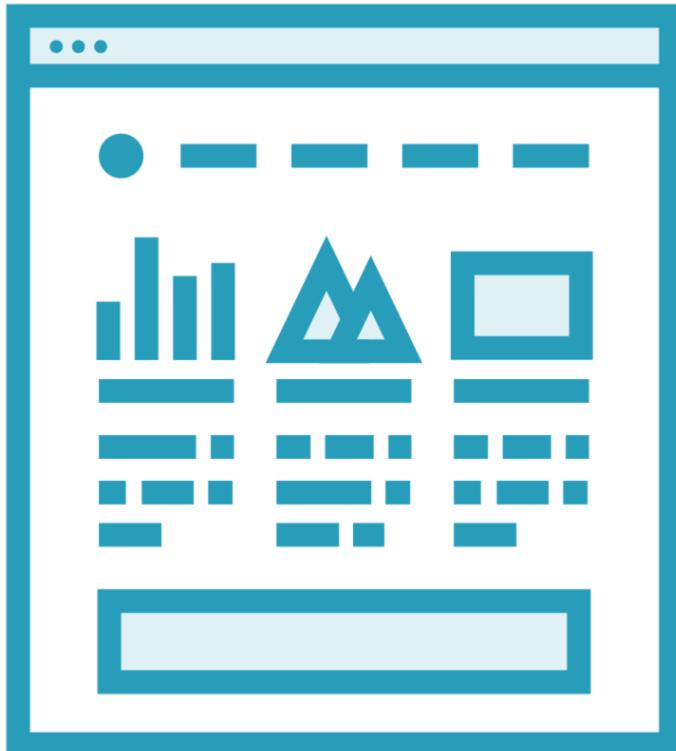
Cache-aside Pattern



1. Does the data exist in the cache?
2. If not, retrieve from the data store
3. Store a copy in the cache



Content Cache Pattern



Cache static content

- Images
- Templates
- Style sheets

Reduces server load

Redis Output Cache Provider for ASP.NET



User Session Caching Pattern



Maintain application state

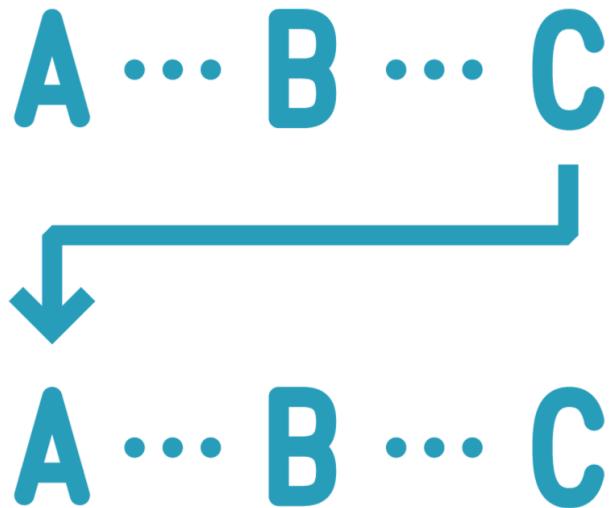
- Shopping cart

Session cookies or local storage

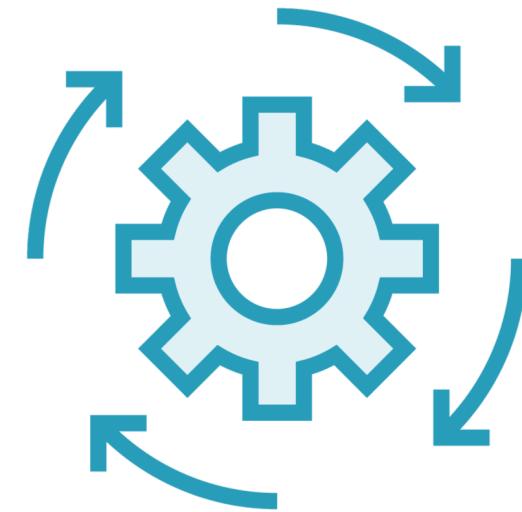
- Limited data storage
- Slow performance



Advanced Patterns



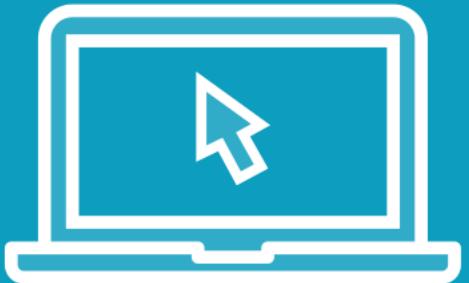
Job and Message Queuing



Distributed Transactions



Demo



Use Redis Cache in a web application

- Store and retrieve data
- StackExchange Redis client

