

Implementation of in-Memory database in Enterprise Applications

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What is IMDB

in-memory database (IMDB) is a database management system

Data store in Main Memory (RAM)

It's support:

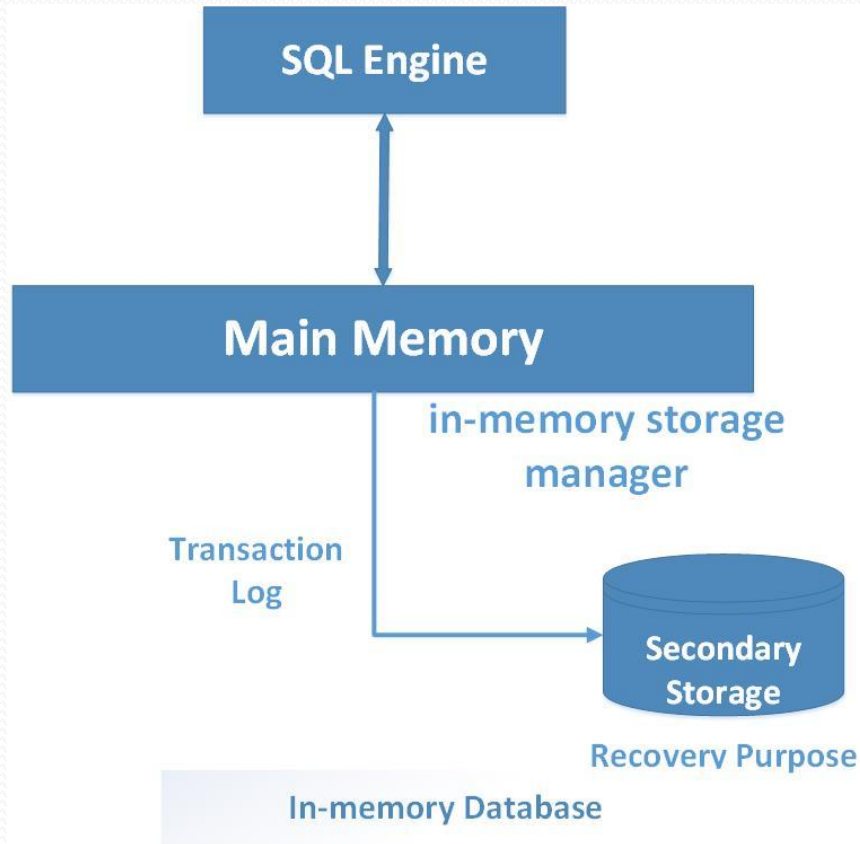
- DDL

- Database schema

- Database indexing

- Client/Server

in-memory Database architecture



Difference Between IMDB & Traditional Disk DB

In-memory Database	On-Disk Database
All data stored in main memory	All data stored on disk
Data may be persistent or volatile	Data is always persisted
Database size limited	Unlimited database size
Access speed near real time	Access speed slow
Data type structure and Unstructured	Data type structure
Data security unsafe	Data security safe

IMDB Key Benefits

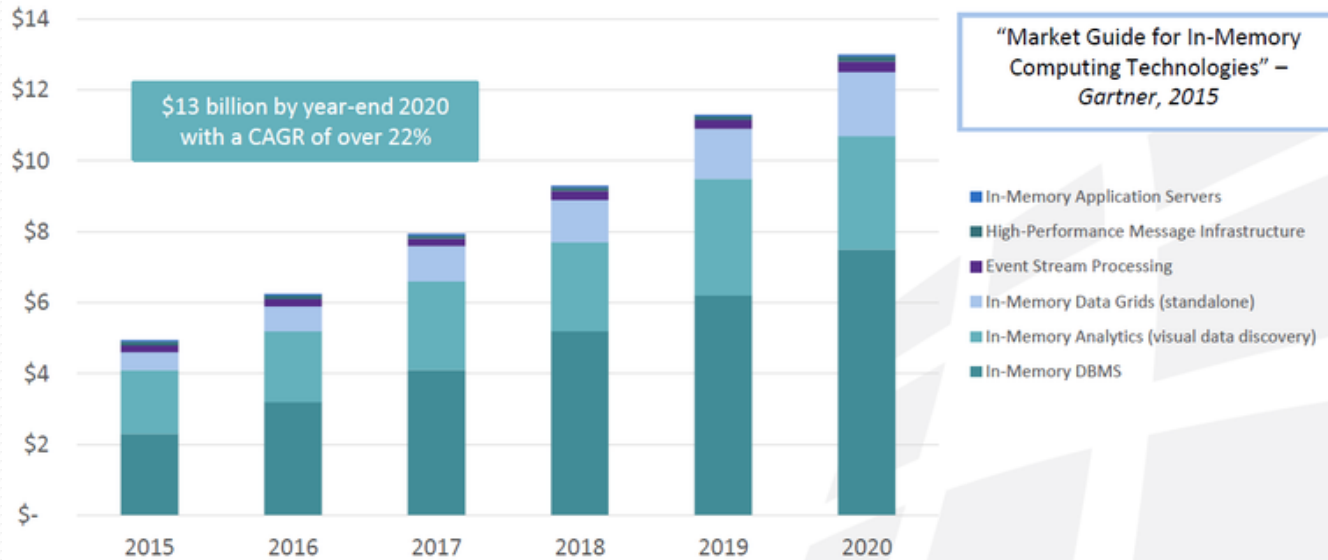
Performance	Faster access to data
Flexibility	Store all database in-memory and/or on-disk
Reliability	Ensure ACID compliance in diskless mode
Ease of Use	Move data on disk to in-memory

Why IMDB?

Low cost	6/7\$ dollar cost 1 GB memory
Hardware Availability	8 socket server support 24 TB of RAM
DB Tools	Many database vendor support popular IMDBs
Language	Most of the Popular programming language support IMDBs

IMDB Technology Market

The Rapidly Growing In-Memory Technology Market (in \$Billions)





Thank You