Hazelcast

Applications are talking directly with a database which has its backup as another machine. To increase performance, tuning or a faster machine is required. This can cost a large amount of money or effort.

There is also the idea of keeping copies of data next to the database, which is performed using technologies like external key-value stores or second level caching

Hazelcast, a brand new approach to data, is designed around the concept of distribution

It is an in-memory data grid for clustering and highly scalable data distribution.

One of the main features of Hazelcast is not having a master node. Each node in the cluster is configured to be the same in terms of functionality. The oldest node (the first node created in the node cluster) manages the cluster members, i.e. automatically performs the data assignment to nodes. If the oldest node dies, the second oldest node will manage the cluster members.

 This is a consequence of the fact that the price of RAM is dropping significantly and rapidly and as a result, it has become economical to load the entire operational dataset into memory with performance improvements of over 1000x faster. In-Memory Compute and Data Grids provide the core capabilities of an in-memory architecture.   
  
The goal of In-Memory Data Grids (**IMDG**) is to provide extremely high availability of data by keeping it in memory and in highly distributed (i.e. parallelized) fashion. By loading Terabytes of data into memory IMDGs are able to work with most of the **Big Data** processing requirements today.

Installation :

1.download hazelcast.zip

2.unzip ,put it in the server(tomcat) webapp folder to run mancenter in the browser

3.