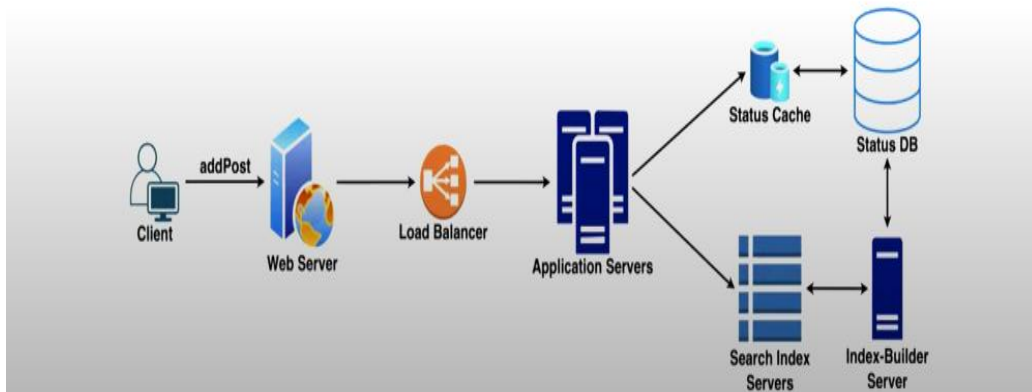


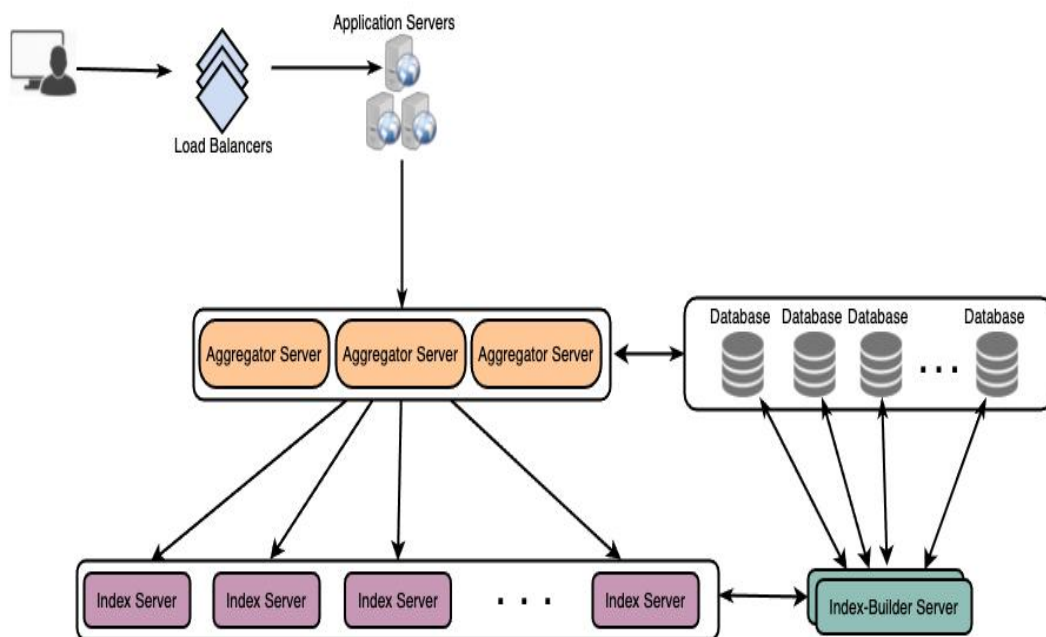
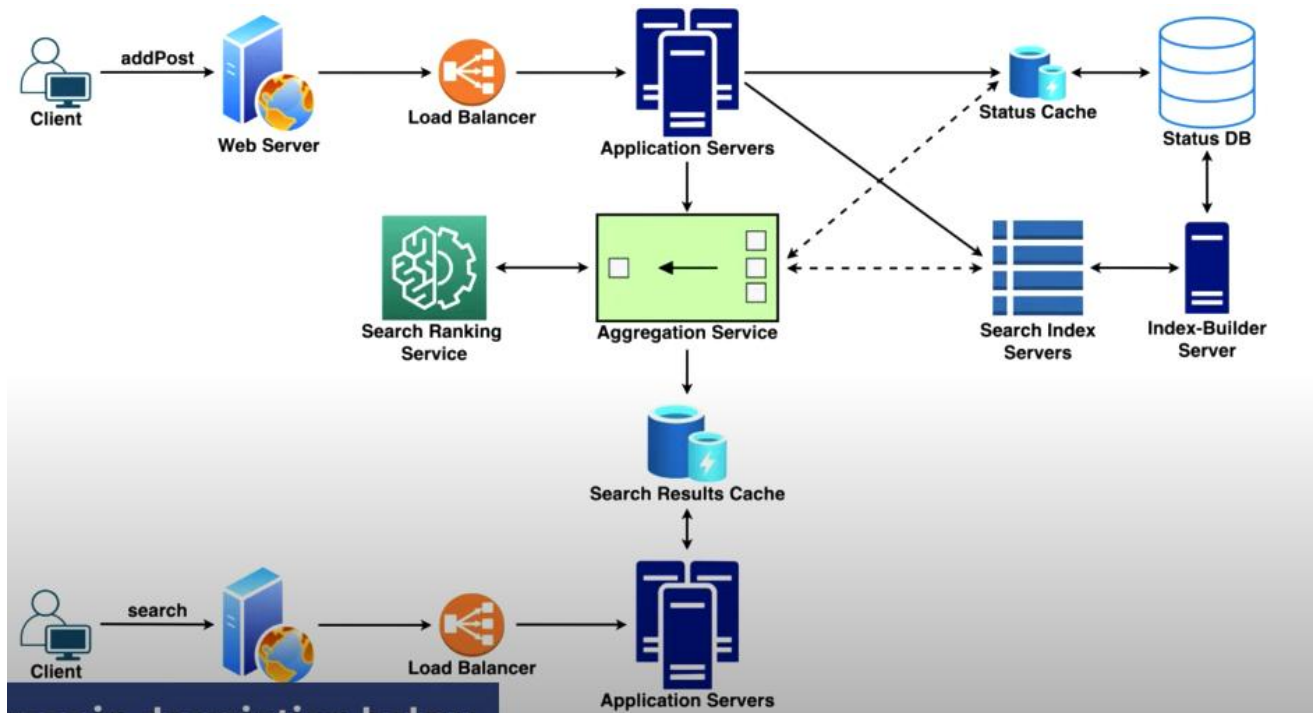
31. Search System

High-level design

1. Need to store all the statuses in a database.
2. Build a search index to keep track of which word appears in which status.
3. This index will help us to quickly find statuses that the users are trying to search for.



Detailed Design



Detailed Design

What if an index server dies?

Have a secondary replica of each server and if the primary server dies it can take control after the failover.

Rebuild index

iterate through the whole database

Build a reverse index that will map all the TweetID to their index server.

Our Index-Builder server can hold this information.

Key = index server number. Value = HashSet containing all the TweetIDs being kept at that index server.