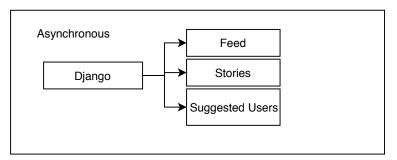


Server Instance: Consistent accros data centers

Server Instance:
Computing

Driven by
user
traffic, as
needed
basis

A canary deployment / canary test allows you to gradually release new features to a subset of your users while still serving your current branch to the rest of your users. It basically allows you to test things in parallel without having to make major merges/deployments.



Scale Up Memory Optimize memory Share more between

Scale Up Network L Synchronous Proces Asynchronous Proces



Scaling Strategy

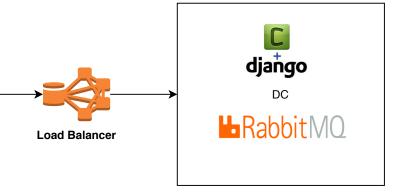


process

atency sing (Web ssing)

 ∞

Single Region





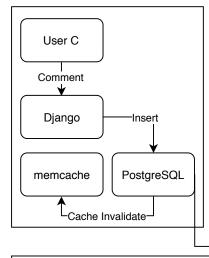
Individual DB Infra

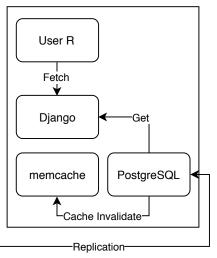
MemCache

High performance key-value store in memory

Millions of read/write per second

Sensitive to network condition No cross region operation





Heavy Load on PostGreSQL

memCache Lease

Several call from DCs to unreplicated memcache, one actual call to the DB