

Case Study

Design a twitter

1. The user should be able to tweet as fast as possible
2. The user should be able to see Tweet Timeline(s)
3. User timeline: Displaying user's tweets and tweets user retweet
4. Home timeline: Displaying Tweets from people user follow
5. Search timeline: Display search results based on #tags or search keyword
6. The user should be able to follow another user
7. Users should be able to tweet millions of followers within a few seconds (5 seconds)
8. The user should see trends

Design

1. Module/Logical Architecture
2. Data Flow Architecture (interaction between Modules using one or two sample flows)
3. Infra/Systems Architecture

Metrics

1. What tech metrics will you want to track for this architecture
2. *bonus* Infra capacity planning requirements wrt service scalability