

1. While developing whatsapp, alex didn't analyze (set of users) constraint

He used components based on arbitrary/guess idea.

1. 2 Servers
2. 1 Load balancer
2. Databases

1. Read
2. write

It can handle a traffic of ~50k users



Now, when Alex put this system in production line.
Suppose a traffic of 100k hit the platform.
What will happen?

Crash

Alex build a whatsapp platform
what are the problems it solves

1. Instant communication → Chat system → Socket ✓
 2. Voice & Video calls. → we need to stream live. [we don't need use Rest api / http req for this system]
- Video Transcoding
→ break a large video in small parts so that we can stream it online

1. We need to use Socket for communication b/w client & server.

1. **Set of user constraint** → helps us to analyze what should be the capacity of component/module we should use while system design

2. **Set of problem solved by system** → helps us to analyze what component/modules we need to use while designing a system.

We have already decided on what type of component.

