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Advanced requirements for Turing Backend Challange

1. The current system can support 100,000 daily active users. How do you design a new system to support 1,000,000 daily active users?

If 1 docker can support 100,000 daily active users, then just use kubernetes which contain 10 docker. Kubernetes can handle load balancing.

1. A half of the daily active users comes from United States. How do you design a new system to handle this case?

Use 2 database with Amazon Aurora Mysql Multi Master

<https://aws.amazon.com/about-aws/whats-new/2019/08/amazon-aurora-multimaster-now-generally-available/>

1 database for US (default) and 1 database for outside US.

Use default database first. If customer login, check its country, if it is not equal to US, then the next connection is database for outside US.