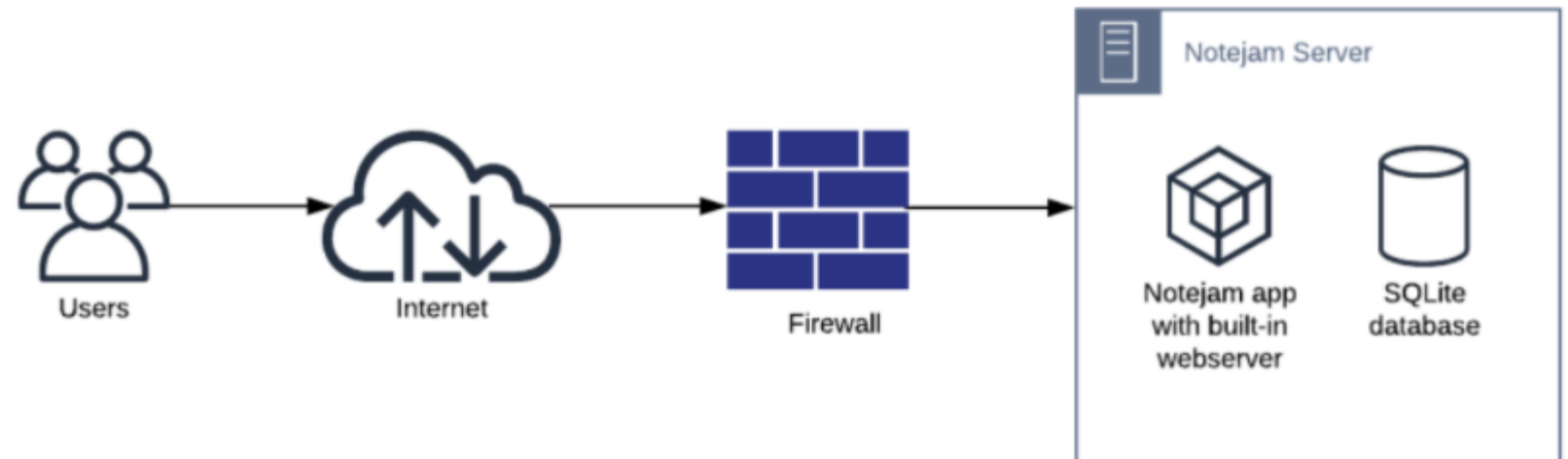


NoteJam on the Cloud

Roadmap for migrating Notejam app to the cloud

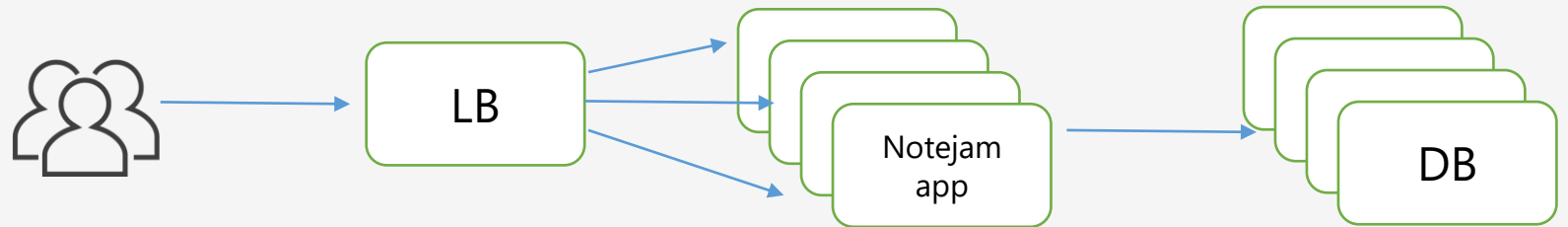
Current Architecture Problems

- 1 Scalability
- 2 Service Delivery
- 3 Recovery
- 4 Logging and Monitoring

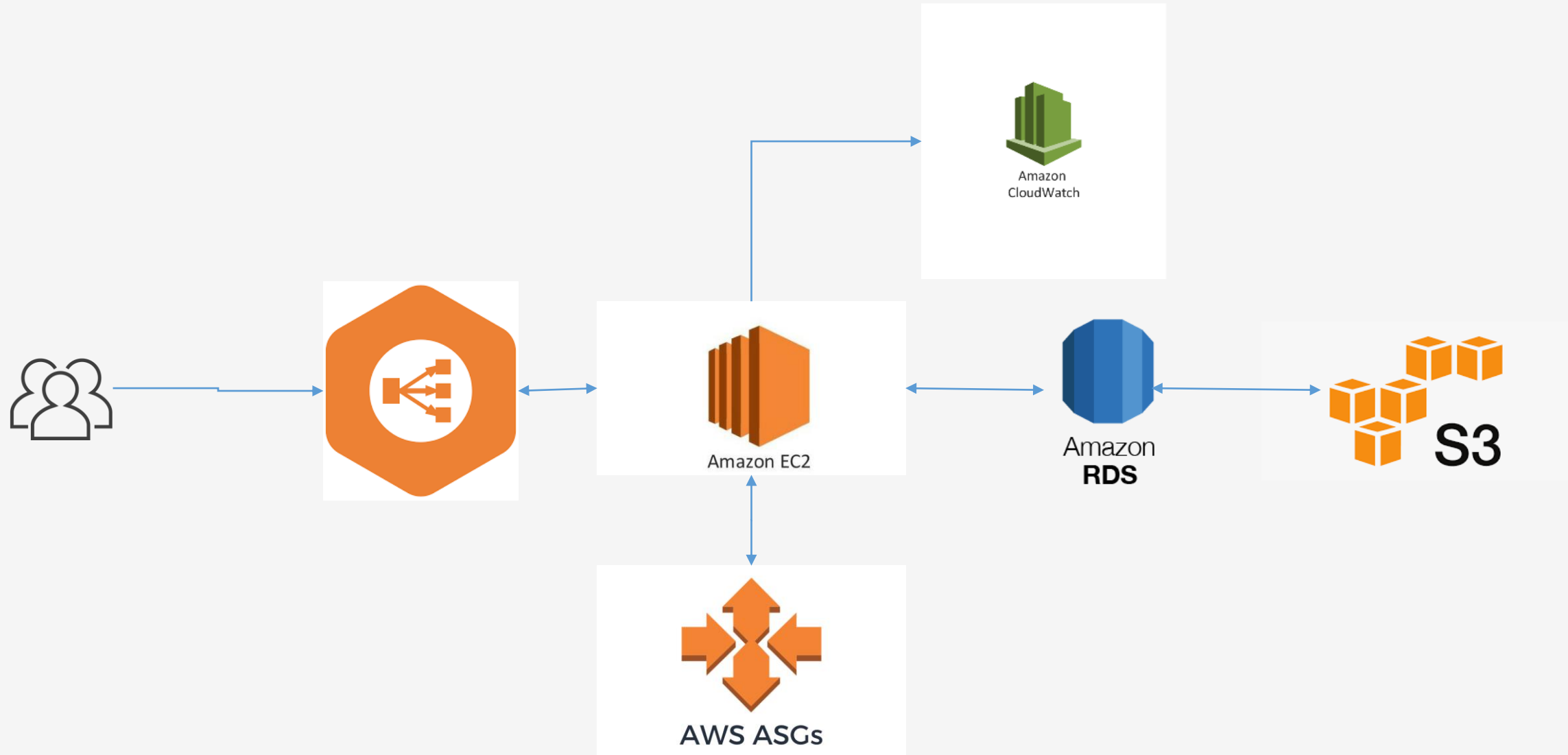


Suggested Changes

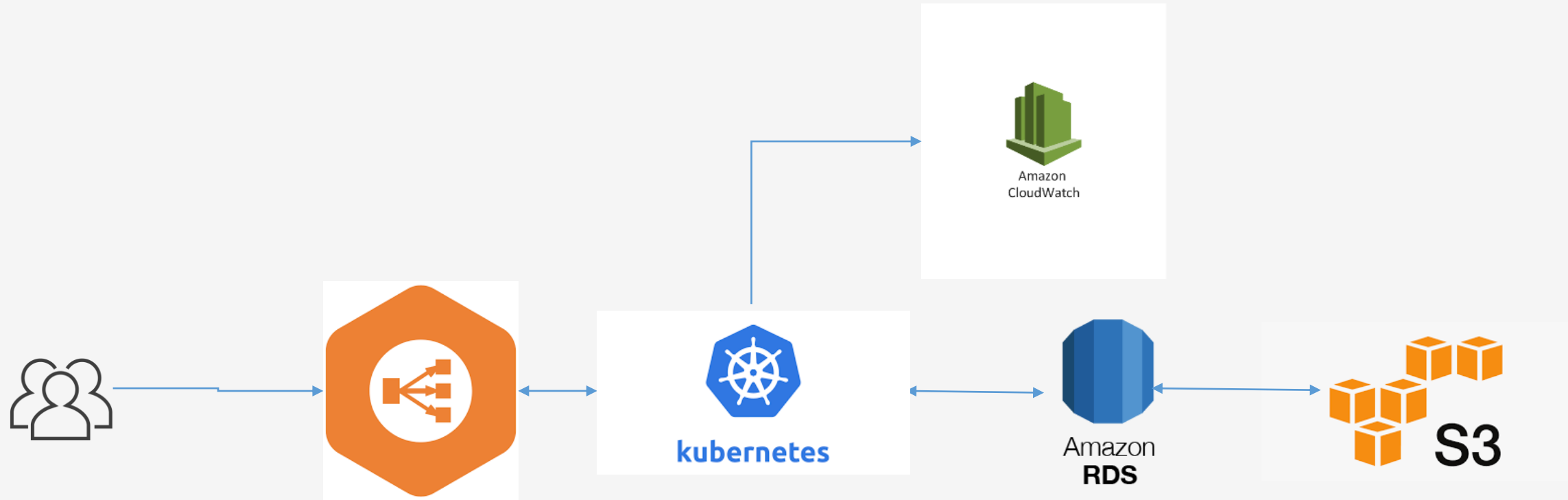
- 1 Change from sqlite to postgres
- 2 Upgrade to the latest version of laravel
- 3 Architecture Changes
- 4 Change to nginx web-server



AWS Architecture (EC2)



AWS Architecture (Kubernetes)



Scalability

1 Instances are added when needed

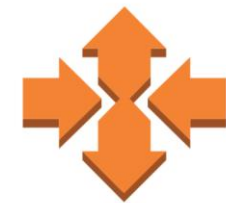
2 High load => increase number of running instances

Low load => decrease the number of running instances

3 Scale horizontally and vertically



Amazon
RDS



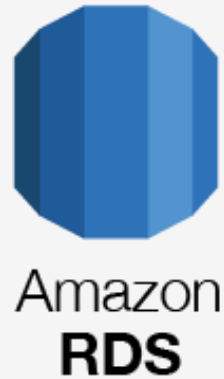
AWS ASGs

Backup and Restore

1 Backup Periodically

2 Retention Period of 3 Years

3 Restore to anypoint of time during the retention period



Disaster Recovery

Continuously replicates machines into a low-cost staging area in your preferred Region.

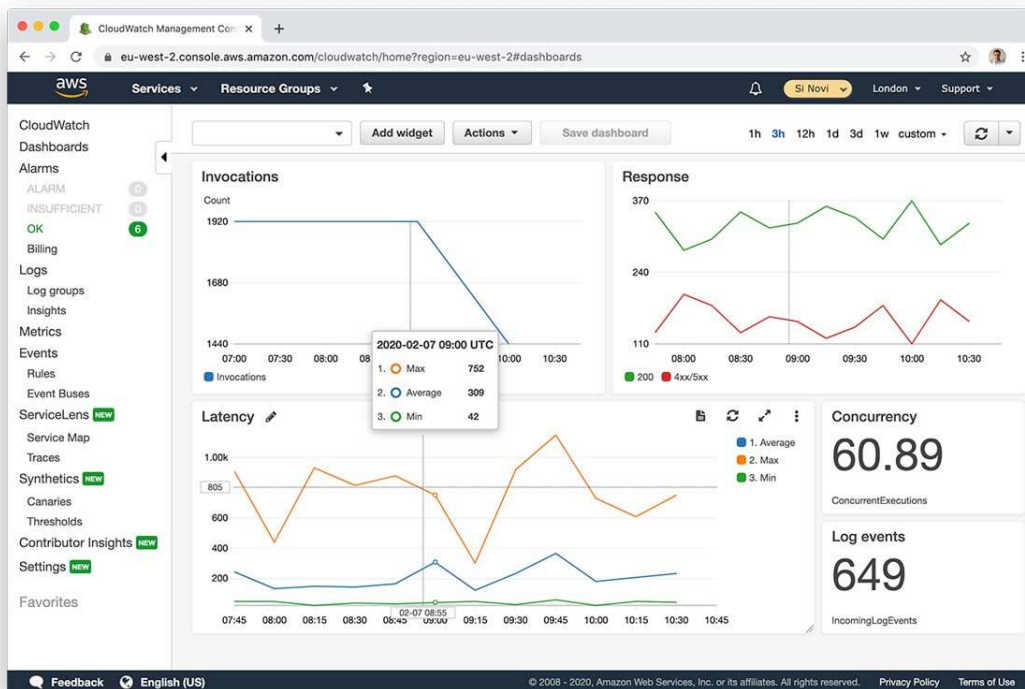


Monitoring

- 1 Store logs
- 2 Search logs for errors.
- 3 Monitor different metrics



Amazon
CloudWatch



Build and Deployment

- 1 Dockerize Notejam app
- 2 Create different environments.
- 3 Deploy without interruption
- 4 Deploy on different platforms

