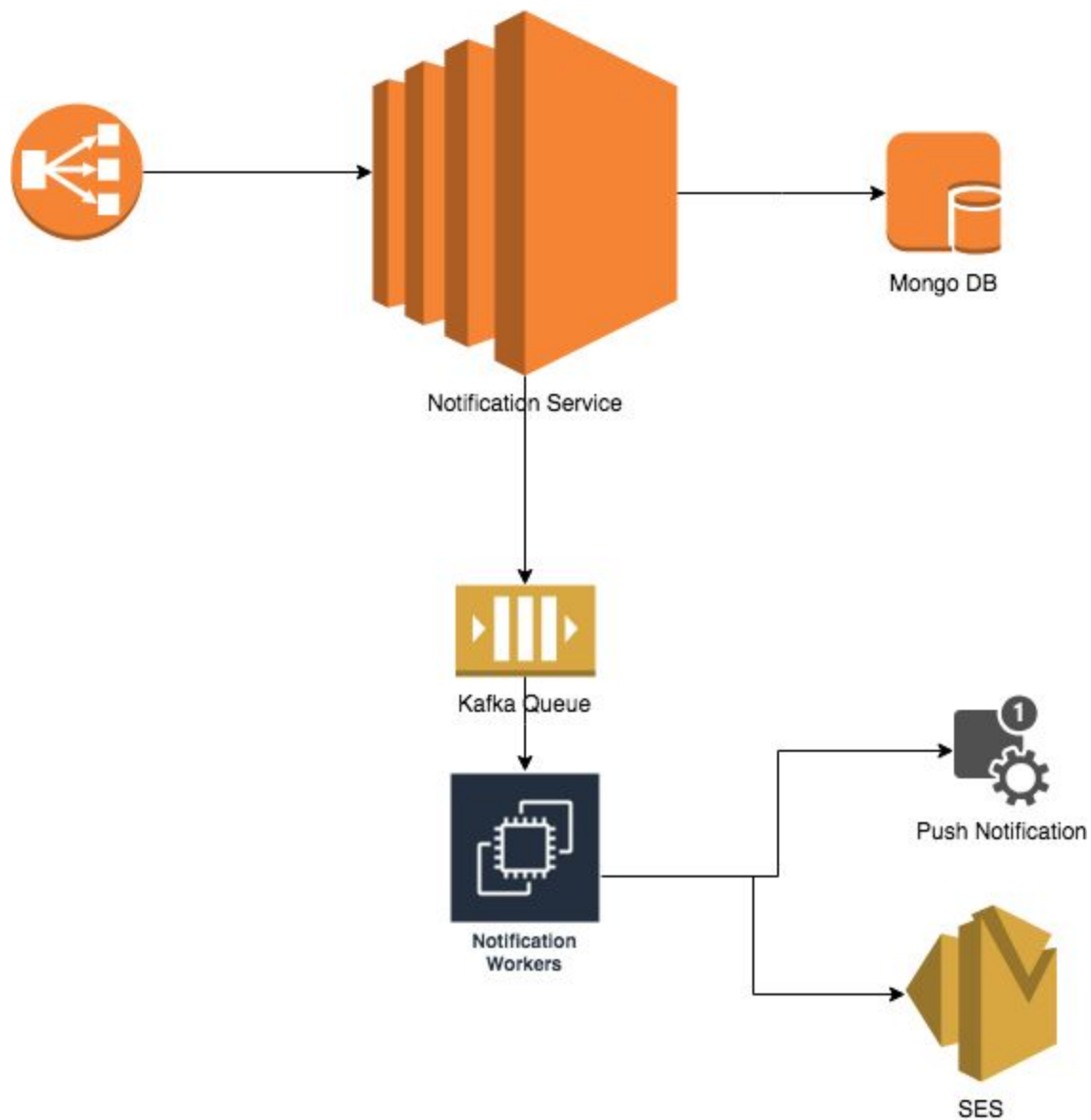


Architecture



Load Balancer

We will be running atleast 2 instances of notification service to make sure high availability.

Notification Service

This will expose all the required APIs for the consumers to post notifications/emails.

Kafka Queue

This will enqueue all the emails/notifications to be sent. This will also have payload for the schedules.

Notification Workers

Workers will consume the payloads from the queue, and identify if this is email or notification or scheduled job and run accordingly.

Database Design

1. **Notifications:**
 - a. Notifications with the state(success/failed)
2. **Scheduled**
 - a. Pending schedules with the time