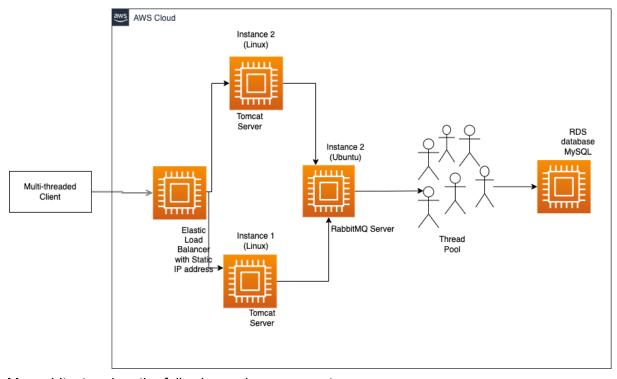
Github URL:

https://github.com/NabeelHR/CS6650-Milestone-2

Description:

The architecture

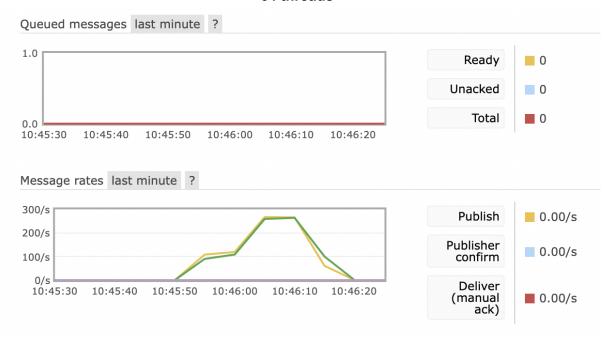


My architecture has the following main components:

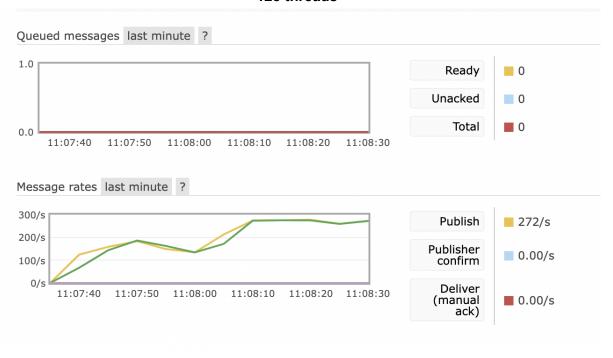
- 1. A multi-threaded client (from lab 4) running locally that bombards the server with POST requests
- 2. A load balancer with a static IP address
- 3. 2 tomcat servers running on an EC2 instances that sends the appropriate messages on a rabbitMQ channel and responds to the client's queries
- 4. Another EC2 instance (Ubuntu version) that hosts the rabbitMQ server
- 5. A multi-threaded consumer also on EC2 that consumes the threads and commits the messages to a database (mySQL)

Results and Explanations

64 threads



128 threads



256 threads



All clients were run with a constant number of skiers ie 1024

Key points:

- The queue never gets piled up
- Rate of messages incoming and messages ACKed is fairly constant across increasing client threads