AWS, Docker, Architecture
Programming

Architecture

Exercise 1. Follow the tutorial: `http://www.rabbitmq.com/getstarted.html`.

Exercise 2. Install RabbitMQ, and make a web app (with TypeScript) with two buttons:

Send will push a message to a Rabbit queue.

Fetch will pop a message from the Rabbit queue.

Reference (in Ruby): `https://blog.heroku.com/rabbitmq_add_on_now_available_on_heroku`

Exercise 3. Deploy the app to Heroku (https://devcenter.heroku.com/articles/rabbitmq-bigwig). Also remember to use `heroku addons:create rabbitmq-bigwig:pipkin` (so its free).

Exercise 4. Install Kafka (and zookeeper). Extend your app to post to the Kafka rapid, then – using a service – move the message from Kafka to a Rabbit queue.

AWS

Exercise 5. Follow these links to deploy Kafka on AWS.

`https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/EC2_GetStarted.html?icmpid=docs_ec2_console`

`https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/putty.html`

`https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/authorizing-access-to-an-html`

`https://blog.knoldus.com/2017/04/19/installing-and-running-kafka-on-aws-insta`

Docker

Exercise 6. Follow the tutorial: `https://docs.docker.com/get-started/`