Message Queueing

Web Developer Meetup - August 20, 2013
Nathan Shirlberg

Agenda

Message Queueing

RabbitMQ

ZeroMQ

IronMQ (by Chris Turner)

Message Queueing
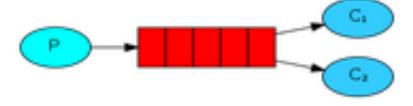
Work queues

2 Work queues

Distributing tasks among workers

Publisher / Subscriber

RabbitMQ

- Open Source
- Runs on Erlang VM
- Implements *Advanced Message Queueing Protocol* (AMQP)
- Developed and supported by Springsource (now a division of VMware)

Erlang

- Developed at by Joe Armstrong in 1986

- Released Open Source in 1998

- Originally used by Ericsson to provide highly available phone systems

- http://www.erlang.org

RabbitMQ: Installing Rabbit

1. Install Erlang
2. Install Rabbit
3. Enable Management Plugin

- Management plugin runs on port 15672
  - Try http://10.192.1.67:15672 while on the guest wifi
- User: guest Password: guest

RabbitMQ: Lessons Learned

- Clustering over an unreliable network: Split Brain!

- *At-Least-Once* is not the same as *Once-and-Only-Once*

- Logging

- Manage Rabbit via Puppet

ZeroMQ

- *"The simplest way to connect pieces" - http://zeromq.org/*
- Blazing Fast
- Native code in 40+ languages
- Brokerless
- Socket based
- Non-durable queues (unless you implement durability yourself!)

IronMQ

http://www.iron.io/mq

Other Message Queues

- RabbitMQ

- ZeroMQ

- IronMQ

- MSMQ - Microsoft license

- ActiveMQ - Apache project AMQP and JMS

Questions

Images are taken from the excellent tutorials on
http://www.rabbitmq.com/getstarted.html