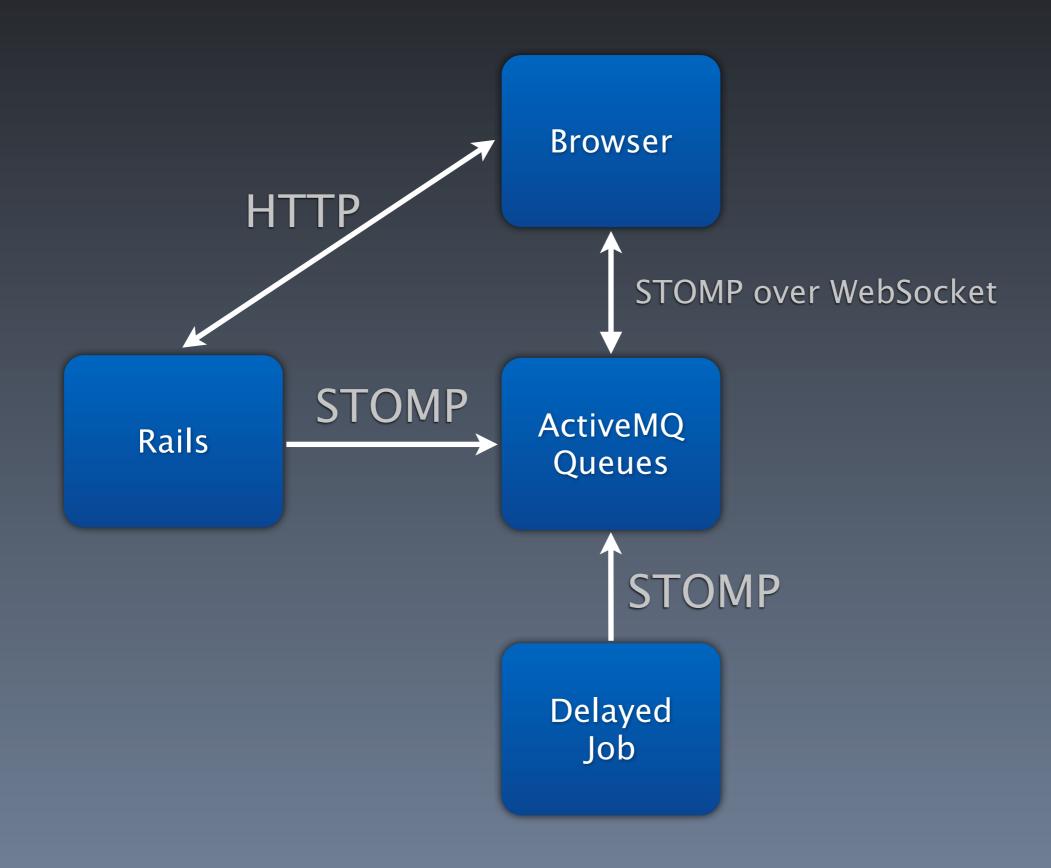
Notifications in Rails

Stomp WebSockets ActiveMQ

Architecture



STOMP

```
SEND
destination:/queue/a
content-type:text/plain
hello queue a
^@
```

Connecting with Ruby

```
hash = {
  hosts: [
      login: "system",
      passcode: "manager",
      host: "localhost",
      port: 61612, ssl: false},
      ],
  client = Stomp::Client.new(hash)
  client.publish(user.queue,
    "Welcome")
```

WebSocket

Looks like HTTP but isn't.

Client and Server (duplex) can send data or text back and forth.

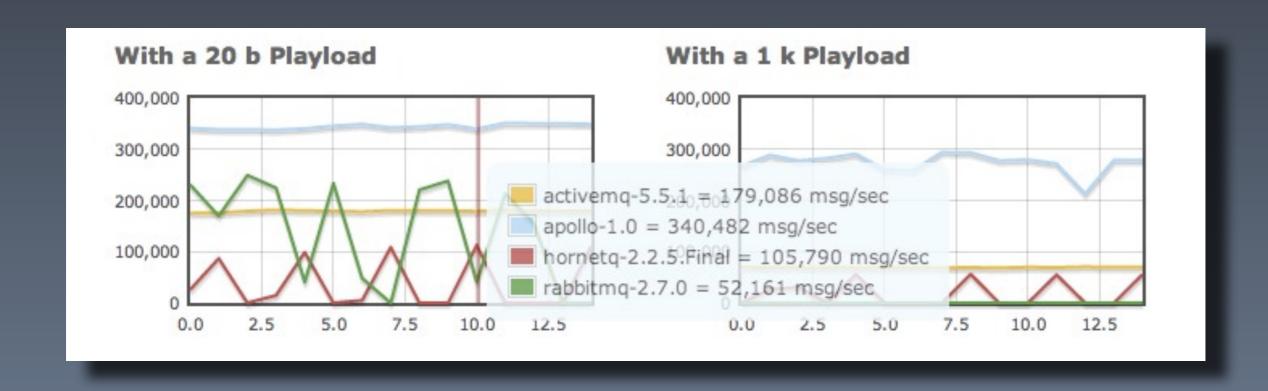
Messages can be split across several frames.

Connecting with JavaScript

```
var url = "ws://localhost:61614/stomp";
var login = "";
var passcode = "";
var destination = "test_...";
var client = Stomp.client(url);
var onconnect = function(frame) {
   client.subscribe(destination, function(message) {
        $("#messages").
            append("" + message.body + "\n");
   }
});
client.connect(login, passcode, onconnect);
```

ApacheMQ

Java based, Messaging Middleware, SSL, Fast Automatic removal of Queues 10,000s of Queues



http://hiramchirino.com/stomp-benchmark/ubuntu-2600k/index.html

WebSockets and STOMP

```
<transportConnectors
<transportConnector
    name="stomp"
    uri="stomp://0.0.0.0:61612"/>
<transportConnector
    name="websocket"
    uri="ws://0.0.0.0:61614"/>
</transportConnectors>
```

Queue Setup

```
<plugins>
  <authorizationPlugin>
    <map>
      <authorizationMap>
        <authorizationEntries>
          <authorizationEntry queue=">"
            read="admins,users" write="admins,users"
            admin="admins"/>
          <authorizationEntry topic="ActiveMQ.Advisory.>"
            read="users" write="users" admin="users"/>
          <authorizationEntry topic="*.reply.>"
            read="users" write="users" admin="users"/>
        </authorizationEntries>
</plugins>
```

Some Alternatives

Rails 4.0 ActionController::Live

- Server-Sent Events
- Limited to Server Threads and DB Connections

PrivatePub/Faye

- Private by Default
- Node.js and Rails versions
- Limited to Event Driven Servers (Thin, etc)

Pusher

SaaS solution

But wait...

NGINX

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NGINX Announces Support for WebSocket Protocol

San Francisco, California—February 19, 2013

Latest Version of NGINX Facilitates Real-Time Web Applications with WebSocket

Nginx, Inc., the high performance web company, today announced support for the WebSocket Protocol in the latest iteration of NGINX version 1.3. Available immediately, the functionality of the WebSocket Protocol is accessible within the core product. WebSocket provides exciting capabilities for web developers and service providers offering platforms as a service (PaaS), who are challenged by an ever increasing demand for high performance and low latency communications.

Makes Rails Solution feasible with SSL, nginx and Thin, Goliath, or Unicorn.

Links

JS Library

—https://github.com/jmesnil/stomp-websocket

Ruby Library

-https://github.com/stompgem/stomp

ActiveMQ

—<u>http://activemq.apache.org/</u>