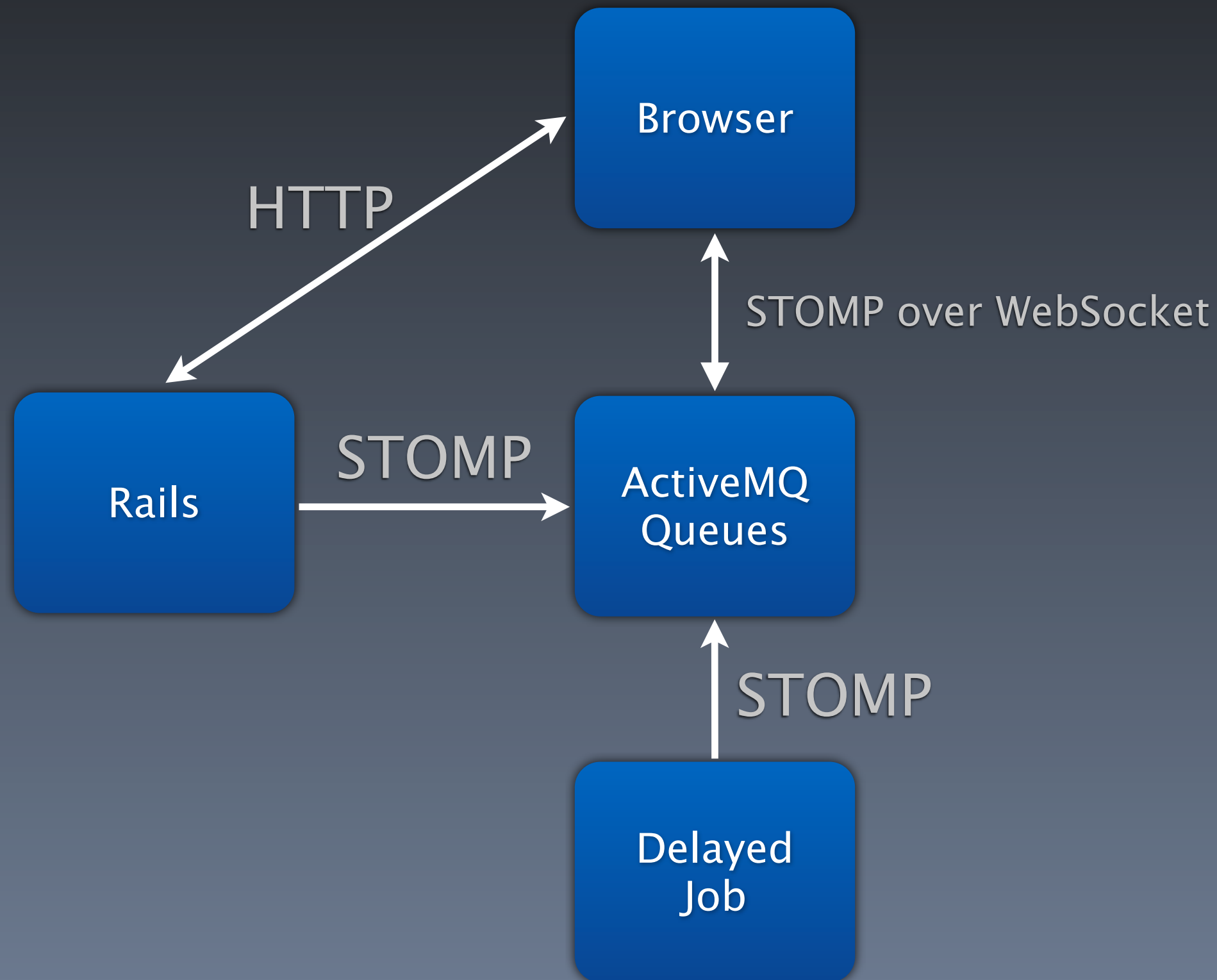


Stomp
WebSockets
ActiveMQ
Rails

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( "<p>" + message.body + "</p>\n" );
    });
};
client.connect(login, passcode, onconnect);
```

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>
      </map>
    </authorizationPlugin>
  </map>
</plugins>
```


Some Alternatives

ActionController::Live

- Live Streaming
- Rails 4.0
- 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

Links

JS Library

<https://github.com/jmesnil/stomp-websocket>

Ruby Library

<https://github.com/stompgem/stomp>

ActiveMQ

<http://activemq.apache.org/>