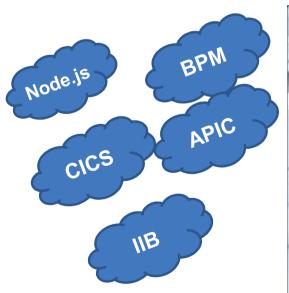
MQ Light & MQ connection test

Carl Farkas
IBM Europe zHybrid Cloud consultant
farkas@fr.ibm.com

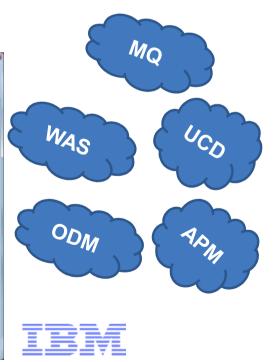
© Copyright IBM Corporation 2016

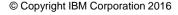
IBM Cloud Technical University The IBM software event-of-the-year in Europe is now open for registration!

- Over 170 sessions designed to give you that edge in mastering the latest in IBM software as well as other industry technologies running on all platforms.
- Presentations and hands-on labs an investment in your skills.
- A terrific opportunity to meet and discuss with the worldwide experts.
- Sessions on the leading technologies that you're using today... and that you'll want to learn about for tomorrow.
- Madrid, 25-28 October 2016
- Details and Registration at http://learnquestconference.com/ctu16/







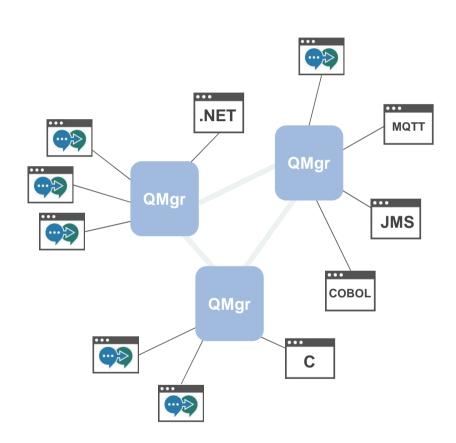


MQ Light

- A new messaging API proposed by IBM
- Designed for "light" messaging... quick to install, implement... for the cloud
- Simple, programming-language-neutral messaging model
 - For now: Node.js, Java, Ruby, Python....
- Facilitates community drivers for languages & frameworks
- Pub/Sub model
- Open wire protocol (AMQP 1.0) & Open Source client libraries
- IBM supporting for...
 - IBM MQ (distributed) as of v8.0.0.4
 - IBM MessageHub on Bluemix (Kafka base)

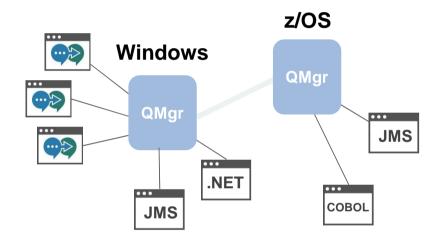
Connecting MQ Light applications to MQ

- MQ Light applications connect directly into MQ queue managers
- A new MQ channel type of "AMQP"
 - Supported from MQ 8.0.0.4
 - Similar in style to an MQTT channel
 - Supports the subset of the AMQP 1.0 Oasis specification required for MQ Light applications
 - Distributed MQ only
- MQ Light applications interoperable with all other MQ applications
 - All share the same topic space



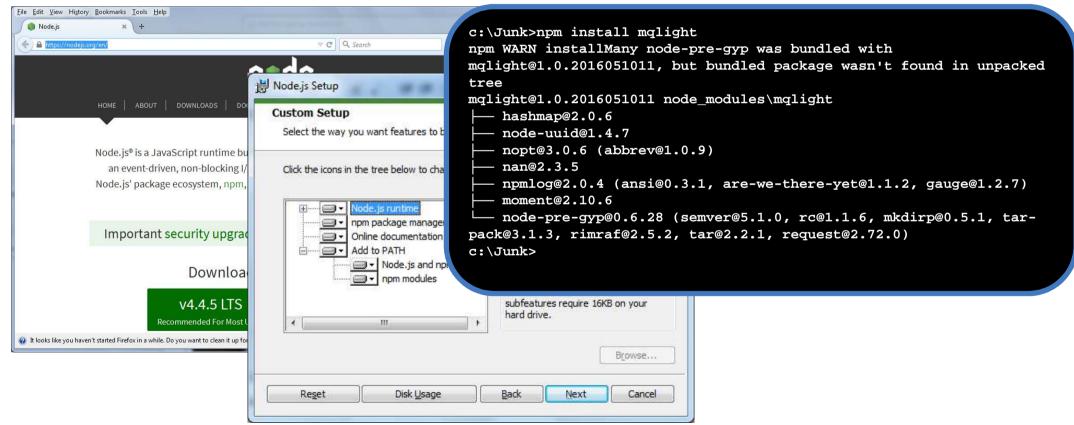
Carl's qwickie test...

- 1. Install MQv9 on Windows
- 2. Install Node.js and MQ Light
- 3. Configure & start AMQP channel
- 4. Develop Node.js sample
- 5. Test



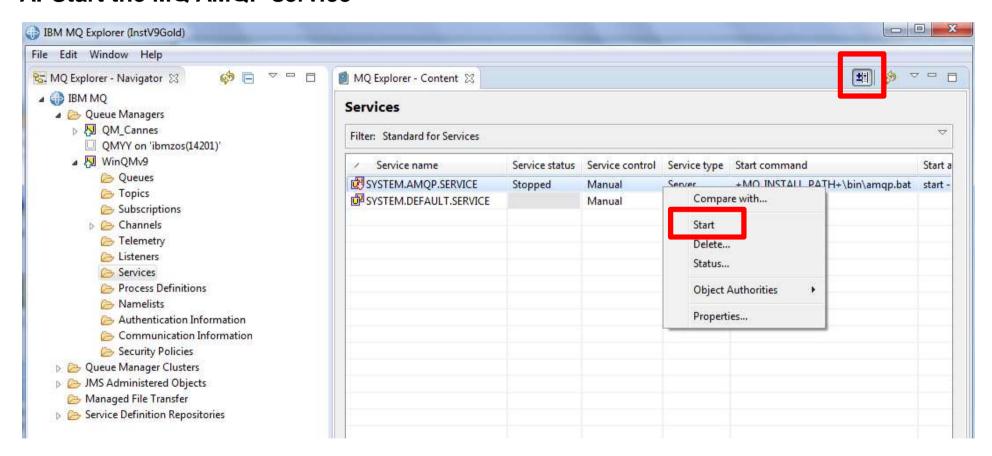
2. Install Node.js and Node.js MQ Light support

https://nodejs.org/en/



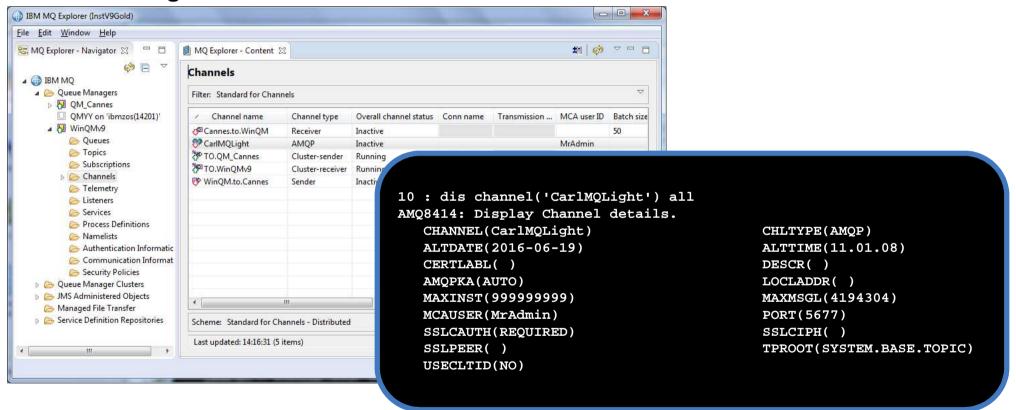
3. Configure & start AMQP channel

A. Start the MQ AMQP service



3. Configure & start AMQP channel, cont'd

B. Configure an AMQP channel



Be sure to verify your Channel and Connection Authentication parameters, then Start this MQ channel

© Copyright IBM Corporation 2016

4. Develop Node.js sample

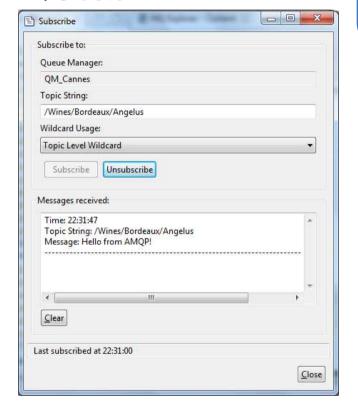
Set the Pub/Sub Topic Set the IP and port

```
var mglight = require('mglight');
var topicPattern = '/Wines/Bordeaux/Angelus';
var recvClient = mglight.createClient({service: 'amgp://localhost:5677'});
recvClient.on('started', function() {
  recvClient.subscribe(topicPattern);
 recvClient.on('message', function(data, delivery) {
    console.log('Recv: %s', data);
 });
});
var sendClient = mglight.createClient({service: 'amgp://localhost:5677'});
var topic = 'public';
sendClient.on('started', function() {
  sendClient.send('/Wines/Bordeaux/Angelus', 'Hello from AMQP!', function
(err, data) {
    console.log('Sent: %s', data);
    sendClient.stop();
 });
});
```

See https://www.npmjs.com/package/mqlight for info and sample

5. Test and run

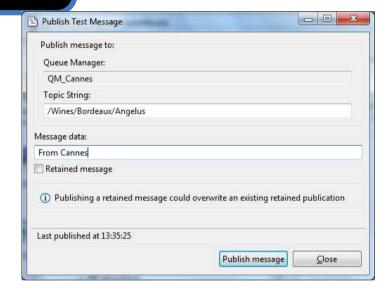
A. Subscribe on any QM in the MQ Cluster



c:\Junk>node MQLight_send.js
Sent: /Wines/Bordeaux/Angelus
Recv: Hello from AMOP!

Recv: From Cannes

B. Start MQ Light app to Subscribe AND Publish



C. Publish more from any QM in the MQ Cluster