

MQ Light

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(based upon charts from Alan Chatt, MQ Light Product Manager)



Agenda

Application Messaging

The journey that got us here...

What does MQ Light allow application developers to do?

What does MQ Light look like now?



IBM Messaging portfolio



Enable developers to build more scalable, responsive applications

Focus on application developer use cases, breadth of language support, no administration, ease-of-deployment, lightweight & powerful API, as software or a cloud service



Deliver Messaging Backbone for Enterprise Focus on traditional MQ values, rock-solid enterprise-class service, ease-of-operation, breadth of platform coverage, availability, z/OS exploitation



Capture Big Data from Mobile and Internet of Things

Focus on Internet-scale events, m2m device enablement, security and privacy, feed into real-time analytics, location-based notifications



What is MQ Light and Application Messaging?



- Messaging for application developers to help create responsive applications that scale easily
- Trivially easy to get started; no setup, no configuration, no administration

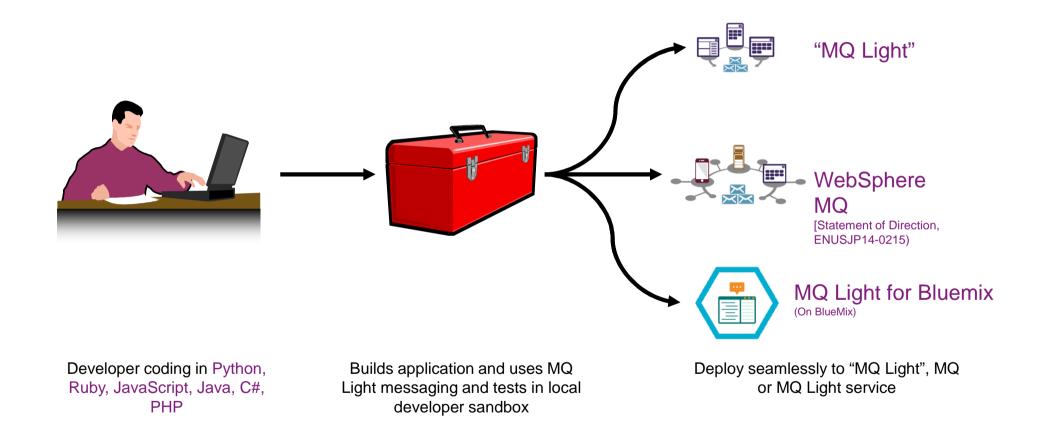
Cloud Service



- Available as software download or full cloud service in Codename : BlueMix
- APIs crafted specifically for each language

Tooling that supports app development

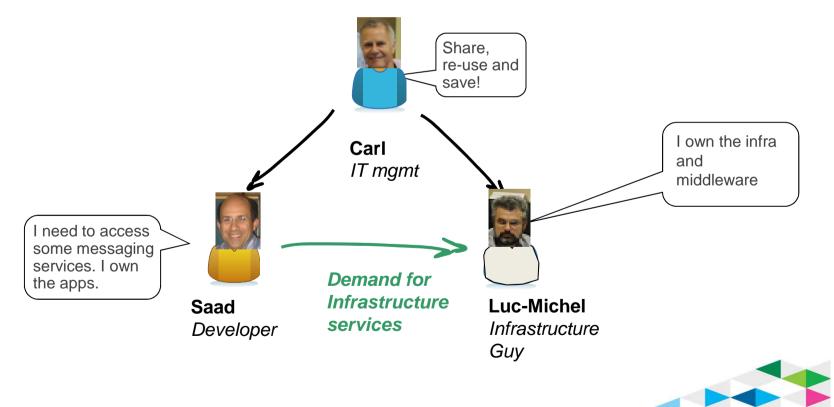
Application messaging deployment options





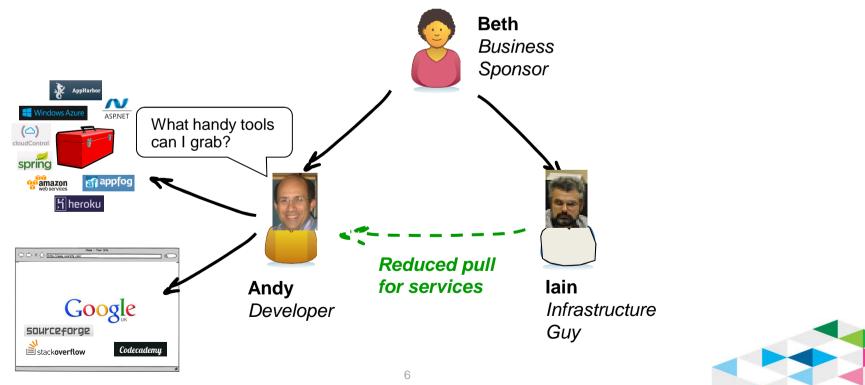
The journey that got us here...

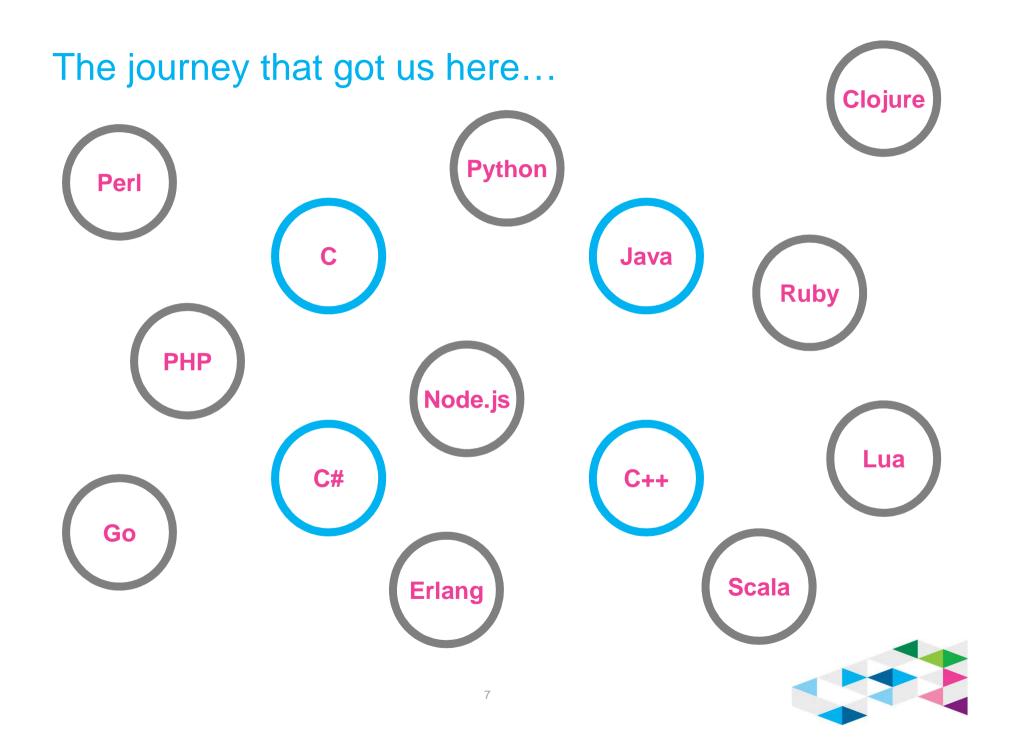
- Previous developer / IT relationship
 - Driven by centrally controlled common standards
 - Carefully planned projects delivering core business systems
 - Focused on re-using existing skills and investments

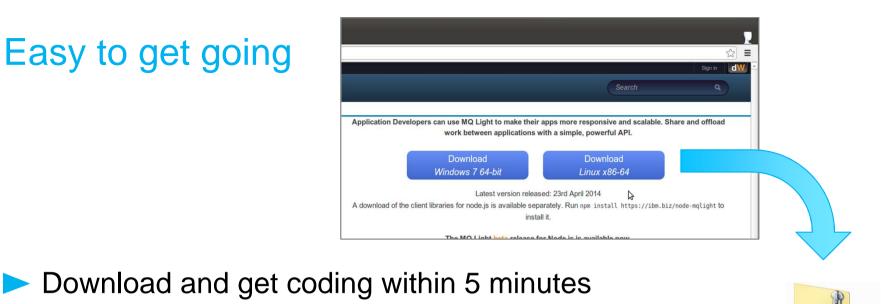


The journey that got us here...

- Evolving developer / IT relationship
 - Driven by business sponsor demands
 - Developers download and use the tools to get the job done
 - Easy, cheap access today
 - Pressure from users & management to quickly provide apps
 - Focused on trying new apps and concepts in the market

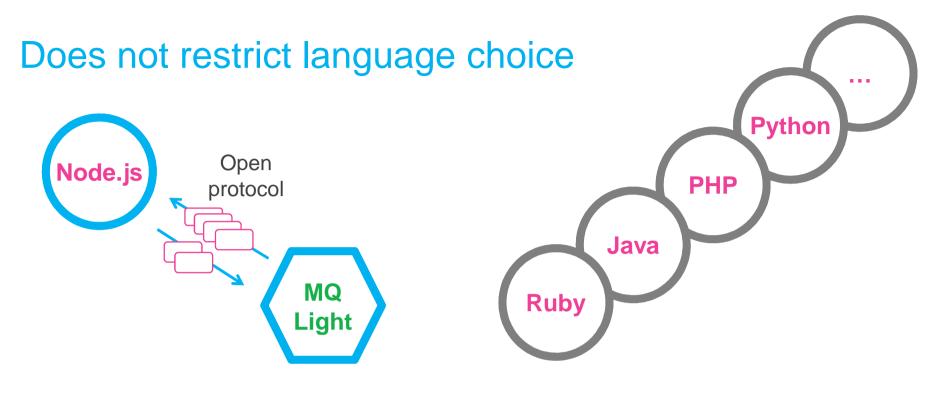






- No administration; just code and go
- Node API client libraries installed using npm package manager
- Tutorials and examples in their languages, relevant to actual use





- Polyglot language
- API crafted to feel native within the language
- New clients can be created by developers



Tooling to assist development

Used to answer questions like :

- Where did this message come from?
- Where did that message go?
- What messages has my app consumed?

← → C □ localhost:9180/#page	-home	ක් ස
IBM MQ Light View Messages Documentation	Clients: • 8 connected • 0 disconnected	IBM. *Since last clear history: 0 min
Senders Sent messages: 911	Messages All Senders and Recievers Destination: Any	Receivers Received messages: 911
worker5 vorker4 vorker4	(i) <1 min Afternoon Poll: O's Or Nats?: Using aggregated Facebook data, the New York Times on Thursday	1/1 Destination: tweets
• worker3 🖙 120	gener <1 min {"labels":["a","b","c","d","e","f","g","h","i","j","k","l","m","n","o","p","q","r","s","t","u","v","	► Details 1/1
worker2 worker7 worker7 75	<1 min \$HUM: Coughing up big bucks for missing patient health data http://t.co/nESbspCPPB	

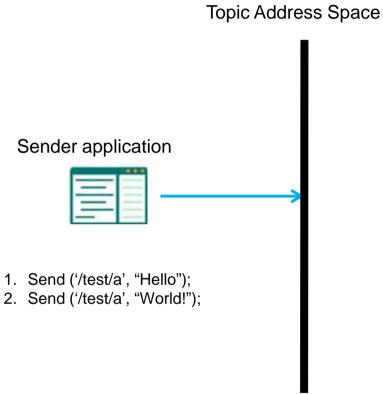


Open standards and community

- Using open protocol to build community around messaging clients
- Based on Apache Proton OSS project using AMQP1.0
- Both consuming and contributing code to the proton project



MQ Light Messaging Model – Send Messages

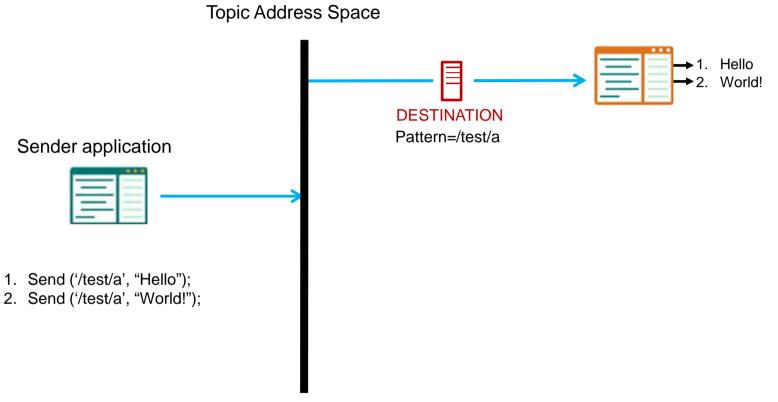


Applications send messages to a *topic*. A topic is an address in the topic space either flat or arranged hierarchically.



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MQ Light Messaging Model – Simple Receive

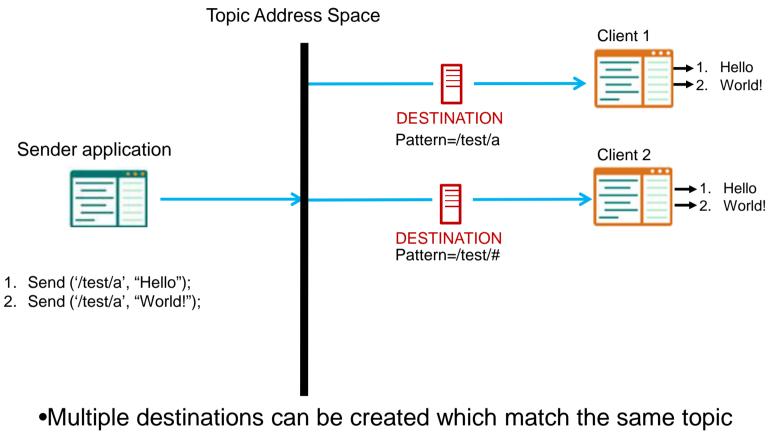


•Applications receive messages by creating a **destination** with a pattern which matches the topics they are interested in.

•Pattern matching scheme based on WMQ.



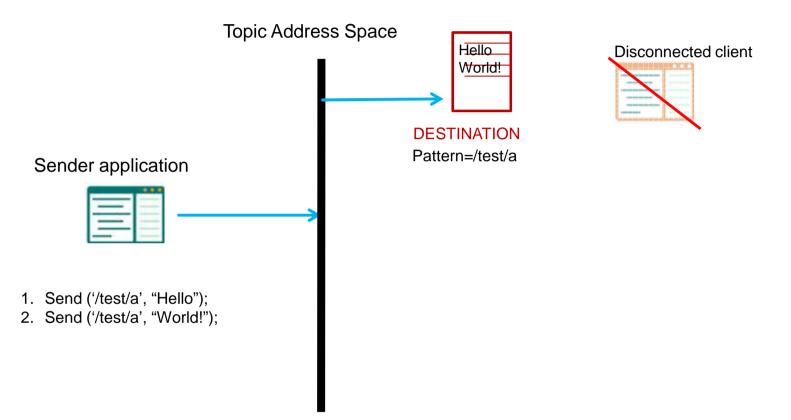
MQ Light Messaging Model – Pub/Sub



•Pub/Sub style.



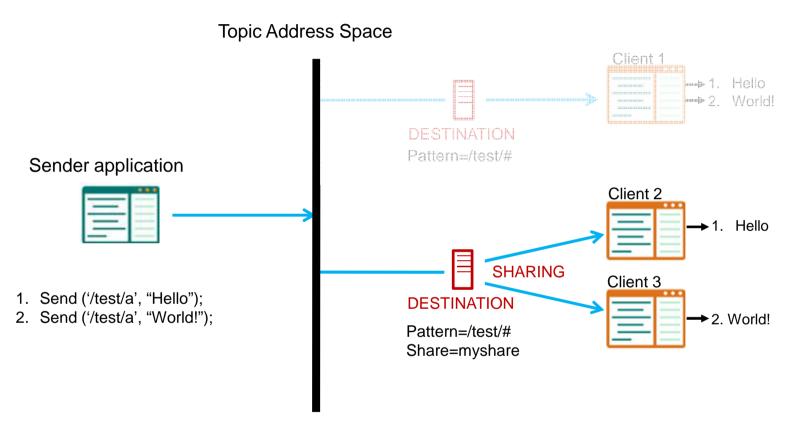
MQ Light Messaging Model – Persistent destinations



•Destinations persist for a defined "time to live" after receiver detaches.



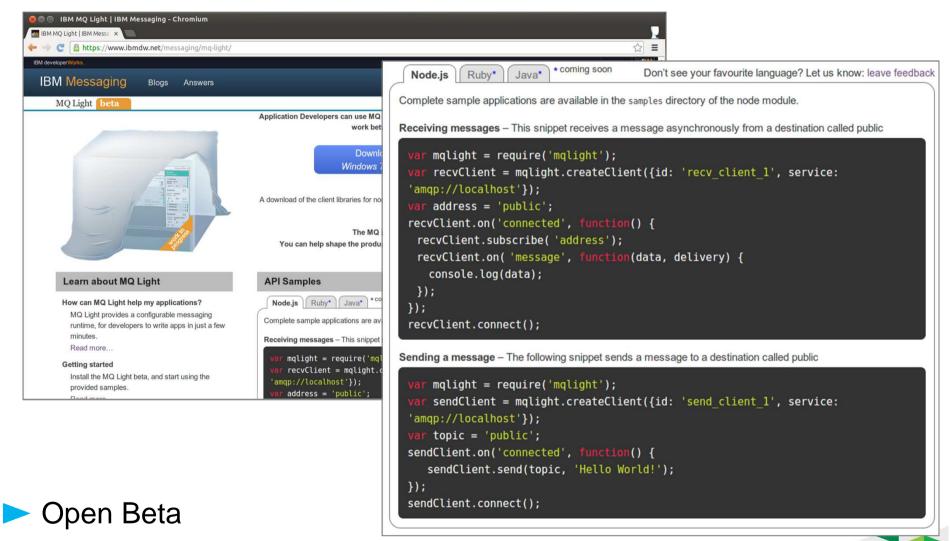
MQ Light Messaging Model – Sharing



•Clients attaching to the same topic pattern and share name attach to the same shared destination.



Where is and QMQghtghous ack then (June 2014)?



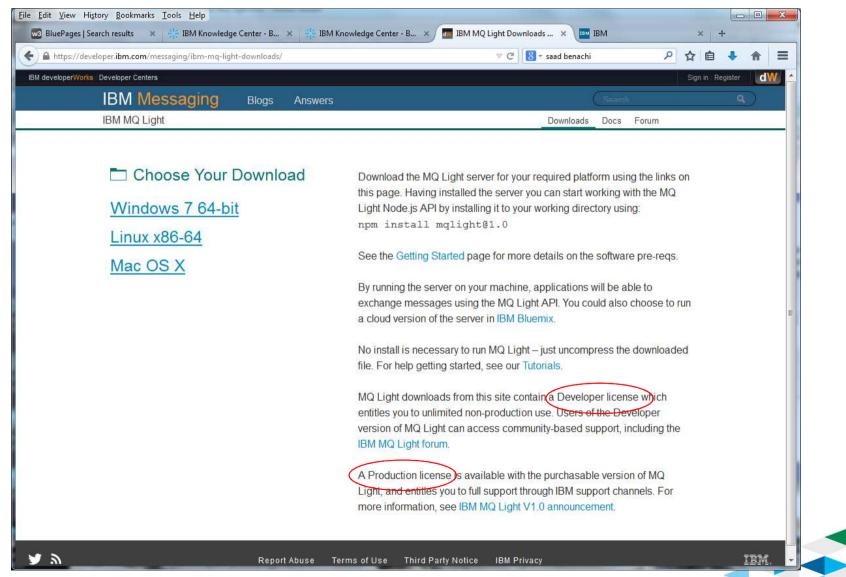


Where is MQ Light now (Sept 2014)?

- New IBM product, based (of course!) on the MQ Light beta from DeveloperWorks. See ENUSJP14-0492.
- Available for download for
 - Windows (x86-64, Win 7 & Win Server 2008)
 - Linux x86-64 (Ubuntu, RHEL)
 - Mac OS (development only)
- Download from standard IBM product delivery channels (electronic delivery only) for the product, or... <u>https://developer.ibm.com/messaging/ibm-mq-light-downloads/</u>
- > 420 MB unzipped (including embarked Java, Liberty and doc!)

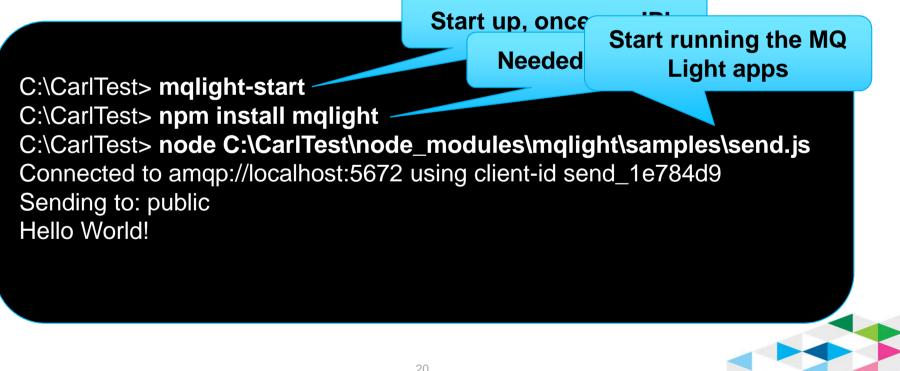


MQ Light on DeveloperWorks

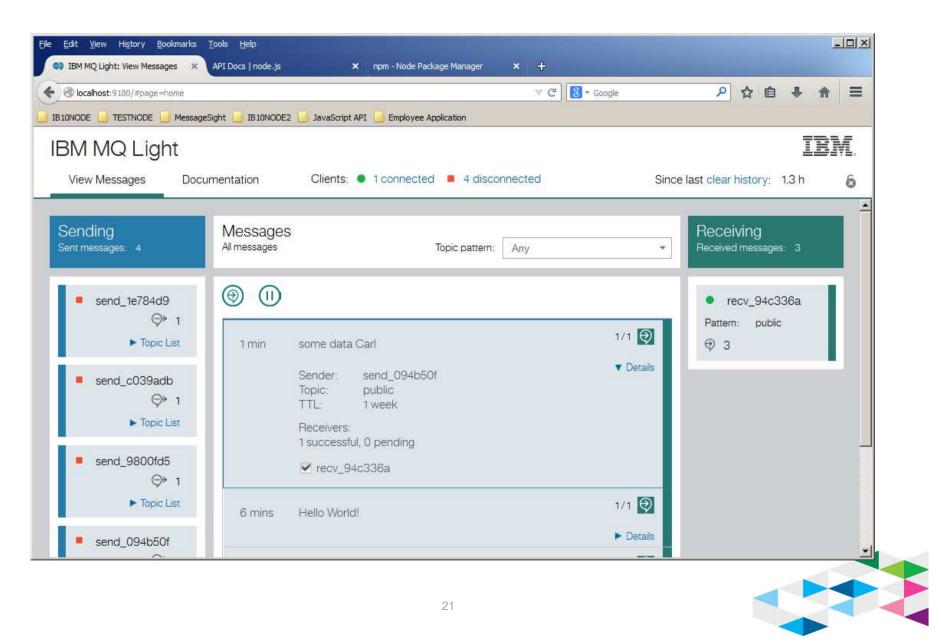


Getting started with MQ Light

- Make sure that you have Node.js installed 1.
- Download and deZip MQ Light 2.
- 3. Run a simple test:



MQ Light Admin



IBM Messaging portfolio



Developers : making the technology decisions

Systems of engagement, creating responsive and scalable applications. Sometimes seen as "rogue" developers



IT : Enterprise messaging backbone

Delivering rock solid infrastructure that links together systems of record.



Device manufacturers

Focus on Internet-scale events, m2m device enablement, security and privacy, feed into real-time analytics, location-based notifications







Bibliography

- ENUSJP14-0492 MQ Light Announcement letter
- MQ Light home page: <u>https://developer.ibm.com/messaging/mq-light/</u>
- MQ Light Node.js API documentation : <u>https://www.npmjs.org/package/mqlight</u>



What is MQ Light and Why is it important?

 MQ Light
 : www.ibmdw.net/messaging/mq-light/

 MQ Light service
 : www.bluemix.net

Messaging designed for developers to create responsive and scalable applications

- Simplified messaging API
- Easy to acquire and incorporate into applications
- Development focused tooling
- Range of application deployment options
 - MQ Light
 - IBM MQ [Statement of Direction]
 - Elastic MQ in BlueMix

