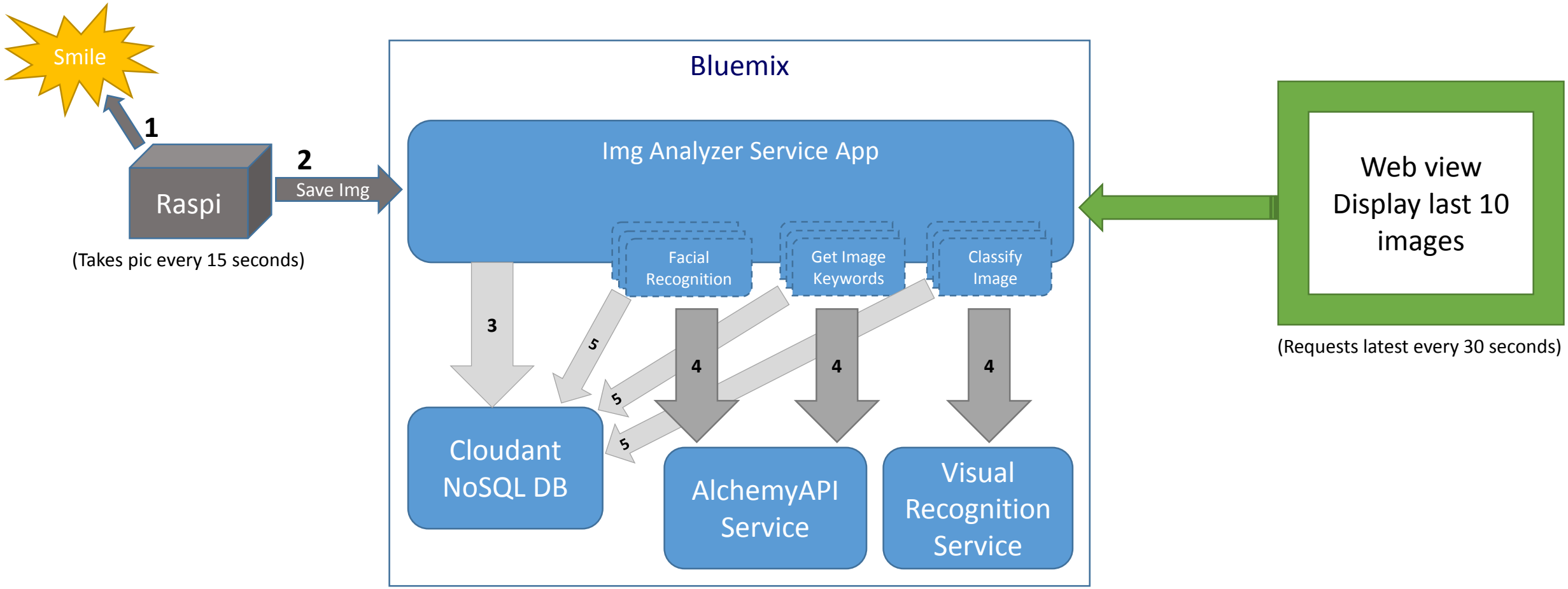
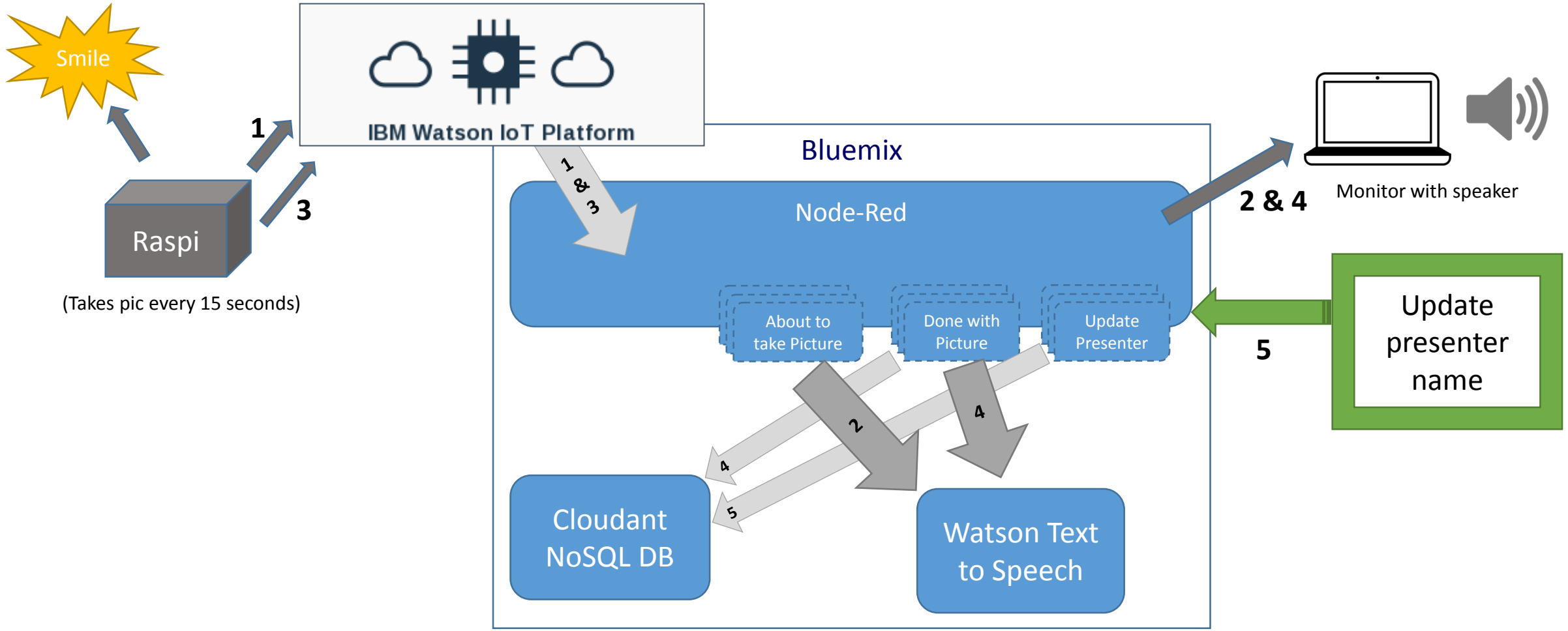
InterConnect 2016 Demo

Using a USB camera and a $5 Raspberry Pi Zero that sends images to a Bluemix web app that uses Cloudant NoSQL DB, AlchemyAPI, and Watson Visual Recognition, images are analyzed with cutting edge technology. Dialog from the demo is created dynamically using IoT Foundation and Watson Text to Speech.



Step 1: Raspberry Pi takes images every 15 seconds.
Step 2: Raspberry Pi sends the image to the Img Analyzer Service App hosted on Bluemix.
Step 3: The image is saved in a Cloudant NoSQL DB.
Step 4: Asynchronous calls are made to gather information about the data using AlchemyAPI and Visual Recognition.
Step 5: Image record is updated with gathered image analysis data.
Step 6: A web view refreshes every 30 seconds showing the last 10 images and image data.



Step 1: Raspberry Pi sends message to speech generator with IoT Foundation before taking the picture
Step 2: Node-Red flow creates a phrase, converts to audio format and streams to websocket
Step 3: Raspberry Pi sends the image to speech generator after photo image upload
Step 4: Node-Red flow reads name of presenter from Cloudant and builds phrase, converts to audio and streams to websocket
Step 5: As needed, Node-Red can update the name of the presenter used in the post-photo message

Links

- Git repo: https://hub.jazz.net/project/kaaron15/imgstore-frombp/overview
- Documentation: https://hub.jazz.net/project/kaaron15/imgstore-frombp/overview#https://hub.jazz.net/git/kaaron15%252Fimgstore-frombp/contents/master/README.md
- Img viewer: http://imgstore-frombp.mybluemix.net/