DevOps and QA/Test Working Group Meeting

Thursday, January 17, 2019


Agenda

DevOps

Old Business:

- **PI DevKit USB image hosting**
  - Request posted to help desk by James – request to host on Nexus repo
  - Note from Jeremy that there is a need source for the source.
  - Does it need to be rebuilt
  - Andy will follow up with Steve O and get it squared away. Follow up with Eric Ball.

- **Intel – Device Service SDK (c) – Grove Device Service (c)**
  - Grove passing jjb verify job
  - Device Service SDK verify job will be completed today
  - Steve Osselton (DS WG Chair) to provide review of work

- **Release document**
  - Only a few comments left to be reviewed
  - Help needed from Device Service group – release versions of the SDK and Device Services. How are they tied to EdgeX release?
  - Tony – version SDK with EdgeX major release number. SDK patch released can be out of sync with EdgeX patch releases
  - New Device Services should also be versioned against current EdgeX major releases
  - Tony – how do we ensure that an SDK works with a particular version of EdgeX
  - Trevor – add a version API to the Services
  - Jim – enhance Ping to return version of a specific service
Accommodating Go Modules in our CI/CD pipeline

- Trevor circulated document for comment—additional feedback required
  https://docs.google.com/document/d/1EzaAxj7Henl-ep8_5wLrZUQYtelpwxkJVbJvEHvlfI/edit
- Jim we really need to move this forward and get off Glide
  - Trevor needs to be done this month—User Story has been added and assigned in this current sprint (Sprint 31) with Ernesto helping from Intel team.
  - James—new build image here
    https://docs.google.com/document/d/1EzaAxj7Henl-ep8_5wLrZUQYtelpwxkJVbJvEHvlfI/edit FROM golang:1.11.2-alpine3.7
  - Go Modules are still considered “experimental” – discuss the acceptance of risk
    - Per Jim, there is a willingness to accept the risk with go modules even as “experimental” at this time and into the next release.

What is in place for CI/CD and automated testing for the SDKs and device services.

- Tony code coverage—we need this to determine the coverage of unit tests
  - Jim—take a look at CodeCov.io (GoLang)
  - James—SonarQube
    Current Sprint includes a SPIKE to explore options and part of the discussion for landing new dedicated infrastructure includes a dedicated SonarQube server (possibly shared with the Grafana).

New Business:

- Review status on current tickets submitted to Helpdesk (Help Needed) and User Stories from Sprint 31
• Discuss what’s needed to get the new Docker base build image
• Daily push to Nexus or Docker Hub?
  o James - open up a Helpdesk ticket to see if we can figure out the issues with connectivity from behind corporate firewalls with pulling images from Nexus.
    ▪ Work Around, publish to Docker Hub

New issue:
Docs built are running into name conflicts – See below.

QA/Test

Old Business:

• Dashboarding local blackbox test results with Allure (demo)
• Ticket submitted yesterday to add the Allure plugin to the Jenkins infrastructure
  o How to run Allure with local blackbox tests documented at https://github.com/edgexfoundry/blackbox-testing/blob/master/docs/How-to-
- Edge performance testing – using JMeter and Telegraf+InfluxDB+Grafana to develop performance tests (demo)
  - Next steps:
    - Document approach (Cloud and IOTech team) – **IN PROGRESS**
    - Work with James (Intel) to address deployment and automation of performance tests
    - We will need an architecture and requirements for the meeting with the LF infrastructure project team related to both SonarQube / TIG stack for sandbox testing

**New Business:**

- EdgeX Documentation (Issue raise by Michael Hall) - currently requires unique names for .rst and image files. Should we change doc build process to allow for non-unique file names as long as the files are in different directories?
  - Check for prefixes based on a policy and check within PR
  - Andy to work on updating the process

**Opens:**

- Ramya asks about Software Legal Compliance / Security Analysis (SAST)
- These are known additional areas that will require future tooling but are not included in the roadmap for Edinburgh release
- Current release for Edinburgh is documented on the [wiki](https://example.com/wiki)
• Offer from Ramya to share validation processes with Andy at a later date