DevOps and QA/Test Working Group Meeting

Thursday, January 17, 2019

Attendees: Andy F, James G, Brandon f, Bruce H, Cherry W, Walt M, Ernesto, Evy S, Jim W, Trevor C, Felix T, Daniel H, Michael, Ramya

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~~
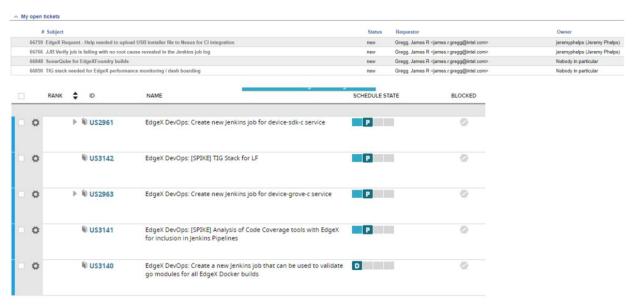 - ~~Jim - enhance Ping to return version of a specific service~~

- ~~Accommodating Go Modules in our CI/CD pipeline~~
    - ~~Trevor circulated document for comment - additional feedback required https://docs.google.com/document/d/1EzaAxj7Henl-ep8_5wLrZUQYtelpwxkqIVbJvEHvlfI/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_5wLrZUQYtelpwxkqIVbJvEHvlfI/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

Update from Last Meeting

∧ My open tickets

#	Subject	Status	Requestor	Owner
66759	EdgeX Request - Help needed to upload USB installer file to Nexus for CI integration	new	Gregg, James R <james.r.gregg@intel.com>	jeremyphelps (Jeremy Phelps)
66766	JJB Verify job is failing with no root cause revealed in the Jenkins job log	new	Gregg, James R <james.r.gregg@intel.com>	jeremyphelps (Jeremy Phelps)
66848	SonarQube for EdgeXFoundry builds	new	Gregg, James R <james.r.gregg@intel.com>	Nobody in particular
66850	TIG stack needed for EdgeX performance monitoring / dash boarding	new	Gregg, James R <james.r.gregg@intel.com>	Nobody in particular

	RANK	ID	NAME	SCHEDULE STATE	BLOCKED
⚙	▶ US2961		EdgeX DevOps: Create new Jenkins job for device-sdk-c service	P	⊘
⚙	US3142		EdgeX DevOps: [SPIKE] TIG Stack for LF	P	⊘
⚙	▶ US2963		EdgeX DevOps: Create new Jenkins job for device-grove-c service	P	⊘
⚙	US3141		EdgeX DevOps: [SPIKE] Analysis of Code Coverage tools with EdgeX for inclusion in Jenkins Pipelines	P	⊘
⚙	US3140		EdgeX DevOps: Create a new Jenkins job that can be used to validate go modules for all EdgeX Docker builds	D	⊘

- Discuss what's needed to get the new Docker base build image
- Daily push to Nexus or Docker Hub?
    - 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
    - ~~How to run Allure with local blackbox tests documented at~~ https://github.com/edgexfoundry/blackbox-testing/blob/master/docs/How-to-

run-blackbox-testing.rst#present-test-result-using-the-allure-framework

- 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

- Offer from Ramya to share validation processes with Andy at a later date