DevOps and QA/Test Working Group Meeting

Thursday, January 31, 2019

Attendees:

James Gregg, Jeremy Phelps, Lenny Goodell, Trevor Conn, Andy Foster, Michael Hall, Vishwas, Brandon Forster, Bruce Huang, Cherry Wang, Cloud Tsai, Daniel Harms, Ernesto, Felix Ting, Jacob Blain Christen, Jim White, Lisa Ranjbar, Ramya, Varun Gadiraju

Agenda

Time	Item	Who
	DevOps WG	
10 min	Go-Modules Continued Discussion	Trevor Conn
10 min	Archival of Obsolete Java service repos / Version file cleanup	Trevor Conn / Lisa Ranjbar
10 min	Work Review (time check)	James Gregg
	QA / Testing WG	
10 min	Performance Test Deployment Architecture	Cloud Tsai / Andy Foster
10 min	Performance Test Creation and Environment setup	Cloud Tsai / Andy Foster
	Opens / Help Needed	All

I.   Go-Modules Continued Discussion
a. CI/CD Help Needed
  i.   Docker base build image needed with Go Lang 1.11.2
  ii.   Git clone of repo *outside of the GOPATH*
  iii.   NEW environment variable for Jenkins – GO111MODULE=on
        Note: Ernesto used this environment variable on the device-sdk-go POC.
  iv.   Eliminate `make prepare` from Jenkins verify job and Makefile
  v.   New Code repo structure
       1.   Proposal to use **git submodules** for dependencies
            a.   Overhead for using git submodules – repo creation
            b.   Developer workflow – recursive git pull

2. Git tags need to be used to set v1.0.0 with a "v" in the name

Decision: Move forward with the use of git submodules

Trevor will draft email with scope of work.

II. Archival of Obsolete Java service repos

a. Identify what repos are obsolete

Decision: Keep Rules Engine (Java) / ~~Device Virtual~~ the rest can be archived

Documentation updated and legacy docs were archived

Permissions to archive require a ticket with the LF Helpdesk

Also need to archive the Jenkins Jobs for the archived repos

Docker Hub cleanup – leave old artifacts to support past release

Maven cleanup – leave old artifacts as is – immutable

Pom.xml fixes / sync

rules engine does have some java dependencies

Longer term strategy needed to move off of rules engine

rules engine uses maven jobs (JJB)

III. DevOps Work Review

- **Device-sdk-go (Owner: Ernesto**) – Working build with updated docker image

  Device-grove-c (Owner: Lisa) – Successful sandbox build

  Device-sdk-c (Owner: James) - Excellent progress thanks to Ernesto ([PR #277](#))

  Note: the device-sdk-c may require some additional work from developers to refactor the way the Docker build.

TIG Reference Architecture:

- Requirements Discussion for EdgeX Jenkins Infrastructure
  [TIG Reference Architecture](#)

Developer Guides / Reference:

https://github.com/IOTechSystems/performance-test

https://github.com/IOTechSystems/performance-test/blob/master/docs/Performance%20Test%20Environment%20and%20How%20to%20Develop%20Test%20Script.rst

Decision: Submit requirements and coordinate next meeting with LF Infra/Operations team.

Goal is to get the infrastructure landed after scoping the work with that team.

Additional work will be required to create the launch config (Infrastructure as Code) to install the TIG stack

- Cost analysis comparison between the tools (Codecov.io / SonarQube) – Lisa R (Intel) Work in Progress
- Discussion / Demo of SonarQube – Lisa / Pradeep (Intel)

Future Agenda Items

WW06	SonarQube Discussion / Demo (Lisa / Pradeep (Intel)
WW06	K8S based Cloud region support (Srini Addepalli / Intel ONAP)
	Proposal by Intel (Ramya Ranganathan) to schedule a series of calls/meetings better support community collaboration across a range of key IoT validation topics (methodology, tools, frameworks)