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

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


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
### Action items Carried Over

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

### Future Agenda Items

<table>
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<tr>
<th>WW06</th>
<th>SonarQube Discussion / Demo (Lisa / Pradeep (Intel))</th>
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<tr>
<td>WW06</td>
<td>K8S based Cloud region support (Srini Addepalli / Intel ONAP)</td>
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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)