DevOps Working Group

Thursday July 15, 2021
# Agenda

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<thead>
<tr>
<th>Time</th>
<th>Topic</th>
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<tbody>
<tr>
<td>10 Min</td>
<td>DevOps Updates (Jakarta)</td>
<td>Ernesto</td>
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<tr>
<td>5 Min</td>
<td>Jakarta Scope</td>
<td>Ernesto</td>
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<td>All</td>
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Attendees
DevOps WG Update (Jakarta)

Pipeline Related

• [In Progress] Pipeline support for rfid-llrp-inventory-service
• [Complete] DockerHub description/overviews for new Docker images
• [Complete] Add support for hadolint and golangci in Go build image
• [In Progress] Spike: Replace Dockerfile.build in the pipeline
• [In Progress] go.sum research to enable commit back to repo
• [In Progress] update C base build image to alpine:3.12 (fixes device-coap-c) issue

Other

• [Complete] Master → Main branch rename.
  • All done except edgex-docs
  • Need to update edgexfoundry-holding as well.
• Dot release support, need to get scope and schedule if possible
• [Hold] Spike Developer Badge Program:
  • Automated emails when developers have their first commit merged
  • Email badge that can be put on LinkedIn
  • Only send email on first merge
Notes

device-coap-c:

• Fix coming for alpine:3.9 issue. Need to talk with Bryon and Bill to coordinate a potential patch release.

• Lenny mentioned the potential for a base runtime image that could be referenced in all Dockerfile’s. This would allow us to control the base image version from one spot.

• LTS releases could use vendoring for Go dependencies. Look into adding a release process which uses go mod vendor to commit deps back to Git. This would allow the rebuild of the project in the rare case a module is not available.
Jakarta Scope

Release:
- Spike: LTS research how to do with current release process, branching strategy, what components are LTS, etc
  - Result of this spike should turn into an implementation story for the Jakarta release
- Spike: LTS research vendored dependencies (Go and C) to allow rebuild of artifacts in case of dependency unavailability
  - Research the use of Nexus GO_PROXY
  - Result of this spike should turn into an implementation story for the Jakarta release
- Spike: semantic-release research Docker Hub plugin (Rebuild in nexus and push to Docker Hub)
- Spike: semantic-release research GitHub Release plugin (for everything)
- Spike: semantic-release research Custom plugins (for edgex-compose)
- Spike: semantic-release research best way to automate release (centralized vs decentralized)
- Spike: semantic-release misc plugin research
- Spike: semantic-release Small POC cut-over sample-service to use semantic-release

Tech Debt:
- Figure out if it is possible to remove Dockerfile.build
- Figure out how if it is possible to commit go.sum back with Go 1.16
- Documentation of edgex-global-pipelines
- Upgrade all DevOps Python scripts to Python 3.9
- Ongoing: Address any build images that need to be updated over time.
  - Golang
  - Gradle
  - etc.
- Go 1.17 upgrade (when applicable)

Other:
- Developer Badging