DevOps Working Group

Thursday January 13, 2022

Agenda

Time	Topic	Owner
5 Min	DevOps Updates	Ernesto
10 Min	edgex-compose/edgex-docs automation	Ernesto
5 Min	AOB / Opens	Ernesto

Attendees

DevOps WG Update

Pipeline Related

- [In Progress] [#371](#) Go 1.17 released - [Release Notes](#)
- [Complete] [#370](#) Spike: multi-arch builds with buildx (spin up less nodes, speed up builds)
- [Backlog] [#59](#) Spike: rewrite git-semver in python
- [In Progress] Linux Foundation will be working on Ubuntu 20 based build agents for use in the pipelines
  - LF will also be migrating to next CentOS "stream" a due to EOL of current stream and will look at potential CentOS replacement with Rocky Linux

Other

- [In Progress] Slight inefficiency found in Dockerfile with Go modules in regard to local docker builds. Will need to update all Go based Dockerfile's to fix.

edgex-compose/edgex-docs Automation

- Existing edgex-compose automation
  - https://github.com/edgexfoundry/cd-management/tree/edgex-compose-builder
- New edgex-compose automation for LTS releases:
  - Archive 3rd party docker images to nexus
  - https://github.com/edgexfoundry/edgex-compose/pull/206
- Potential automation of releasing edgex-docs?
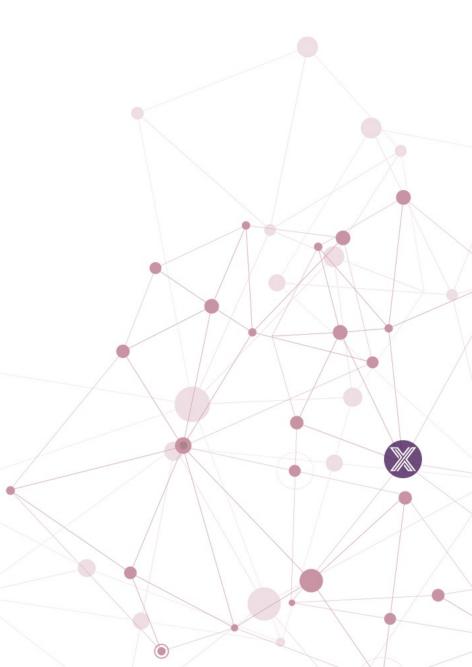 - Need clarification.

DevOps Kamakura Scope

Pipeline Optimizations:

- ~~Tech Debt: Fix multiple nodes being spun up during **edgeXBuildGoApp** and **edgeXBuildCApp**~~
  - ~~T-shirt size: small~~

- ~~Spike: docker image multi-arch builds with buildx (spin up less nodes, speed up builds)~~
  - ~~T-shirt size: small for the research; implementation TBD (see below)~~
  - ~~Use of Docker **buildx** so we wouldn't need to spin up ARM image to build docker arm images~~
  - ~~Explored in the past; revisit approach (separate images)~~

- ~~Implementation: depending on spike docker image multi-arch builds with buildx~~

- Spike: rewrite git-semver in python
  - Tshirt–medium size (impl TBD)

- Implementation: depending on spike, rewrite git-semver in python

- ~~Ice box on semantic-release work for now~~

- EdgeX Badging Program Full Credly Automation (Stretch)

- README Broken link detection pipeline (Stretch)

- Assist in go lang linting/scanning
  - See security scope

Documentation:
- T-shirt size: medium
- Continued documentation updates (DevOps online docs)
- Find it through README of DevOps repository, https://edgexfoundry.github.io/edgex-global-pipelines/html/

Notes

edgex-docs Automation

1. update index.html with current version number to make it the default, i.e. 2.2

2. update versions file with next release, i.e. 2.3 - Levski

3. Create branch with these changes, commit and push

4. On main branch, update swagger links to use next version, i.e. 2.3, commit and push change.

Release automation changes

- For repositories with swaggger docs, on the main branch, update the openapi/v2/*.yml files version to next version, 2.3.0
  - edgex-go
  - app-functions-sdk-go
  - device-sdk-g