DevOps Working Group

Thursday August 13, 2020
## Agenda

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Owner</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 Min</td>
<td>DevOps Updates (Hanoi)</td>
<td>Ernesto</td>
</tr>
<tr>
<td>15-20 Min</td>
<td>edgex-cli CI/CD discussion</td>
<td>Ernesto</td>
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<tr>
<td>5 Min</td>
<td>Kanban Board Review</td>
<td>All</td>
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<tr>
<td>5 Min</td>
<td>AOB / Opens</td>
<td>All</td>
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Attendees
DevOps WG Update (Hanoi)

• **Pipeline Enhancements**
  • [#62](#62) [Complete] Cleanup of non pre-release tags from edgex-global-pipelines version < v.1.0.87…
  • [#64](#64) [In Progress] SPIKE Research Functionality to rebuild artifacts after code freeze.
  • [#43](#43) [In Progress] Rewrite sample-service to better facilitate testing of DevOps services.

• **Other**
  • Code Signing - lftools /sigul replacement
  • LFTools / Sigul latest version that supports Python 3.x
    • LF is now considering an alternative signing tool - clarified that this is a future roadmap item - uncommitted
    • LF encountered some of the challenges within their fork trying to refactor sigul to support the latest Python 3.x – **WIP**
edgex-cli CI/CD Discussion

Notes from Core WG meeting

• Version 1 *around* the release of Hanoi (not tied to Hanoi release)
• Tony wants to include edgex-cli as a snap
• Mike put in the cli build artifact request to drive adoption
  • GitHub actions that attaches to the releases tab
• Use cross compile flags in Go?
• No real good cross platform packaging mechanism for packages
• Initial version perhaps tarball package on GitHub releases page
  • (debian deb, rpm package, MacOS brew, windows MSI)
• Packaging as a Docker container?? Down the road as an "in addition to"
edgex-cli Discussion

v1.373.1
- snyksec released this 5 hours ago - 2 commits to master since this release

**1.373.1 (2020-08-12)**

**Bug Fixes**
- test: json output with all-projects flag (8268ef0)

**Assets**

<table>
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<th>Name</th>
<th>Size</th>
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<tbody>
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<td>docker-mac-signed-bundle.tar.gz</td>
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<td>snyk-alpine</td>
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<td>snyk-linux</td>
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<td>snyk-linux.sha256</td>
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<td>Source code (zip)</td>
<td></td>
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<tr>
<td>Source code (tar.gz)</td>
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edgex-cli Discussion

v2.4.5

rancherio-gh-m released this on Jun 19 - 4 commits to master since this release

Merge pull request #279 from cbron/tidy

go nod tidy

Assets 11

- rancher-darwin-amd64-v2.4.5.tar.gz 4.11 MB
- rancher-darwin-amd64-v2.4.5.tar.xz 3.11 MB
- rancher-linux-amd64-v2.4.5.tar.gz 4.12 MB
- rancher-linux-amd64-v2.4.5.tar.xz 3.11 MB
- rancher-linux-arm-v2.4.5.tar.gz 3.84 MB
- rancher-linux-arm-v2.4.5.tar.xz 2.77 MB
- rancher-windows-386-v2.4.5.zip 3.85 MB
- rancher-windows-amd64-v2.4.5.zip 4.06 MB
- sha256sum.txt 970 Bytes

Source code (zip)
Source code (tar.gz)
edgex-cli CI/CD Discussion

Not in DevOps scope
- GitHub Actions... Maintaining two disparate DevOps processes seems like a bad idea. Gaps... Versioning, Scanning, etc.
- Is there a want/necessity to abandon Jenkins for something else GitHub Actions, etc.? Need to understand this so we know what the direction is.

Potential DevOps Support
- enable git-semver to consistent versioning automatically version builds
- Create pipeline with the following stages
  - Test
  - Cross Compile (with git-semver version)
    - (New scope or just make target) How are these validated?
    - Linux (amd64/arm64)
    - Windows (amd64/arm64)
    - MacOS
  - Package artifacts (tarball)
  - Git-semver Push signed version tag
  - Push tarball to GitHub releases page (new scope)
    - This is a release activity when should this be done. How much involvement from the Release Czar is required? Update ADR10?
- Potential Additions
  - Snyk scan
  - Codecov.io
Meeting Minutes

Notes WW33

• Bill will present plan for artifact rebuild in upcoming WG meeting. Good feedback from community.

• edgex-examples repo can be used as a good starting point for sample-service rewrite.

• edgex-cli CI/CD
  • Will not be using GitHub Actions.
  • Will use Jenkins for CI pipeline. A lot of existing pipeline pieces can be reused.
  • Developers will own the cross-compile portion. Will provide a make target for CI to use i.e. `make build-all`
  • New scope of work for DevOps is to implement the GitHub releases API to automate the creation of a GitHub release.
  • There needs to be a discussion to finalize the GitHub Release process. Should a release be created on every merge to master? Or should it be at the discretion of the Release Czar to create a GitHub Release at the time of release?
  • Artifacts may potentially be archived to Jenkins or Nexus in case people want to be able to download the latest and greatest cli for testing purposes.