DevOps Working Group

Thursday June 23, 2022
## Agenda

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<tr>
<th>Time</th>
<th>Topic</th>
<th>Owner</th>
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<tr>
<td>5 Min</td>
<td>DevOps Updates</td>
<td>Ernesto</td>
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<tr>
<td>10-15 Min</td>
<td>Local “make docker” optimizations</td>
<td>All</td>
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<tr>
<td>5 Min</td>
<td>AOB / Opens</td>
<td>Ernesto</td>
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Attendees

1. Ernesto Ojeda - Intel (Host, me)
2. Lenny - Intel
3. Chinu Joy (Intel)
4. Emilio

Invite | Mute All | More
DevOps WG Update

Pipeline Related

- [#400] [Hold] Go 1.18 upgrade for Go pipelines.
- [#401] [In Progress] mkdocs support for variables
- [#402] [In Progress] htmlproofer checks on each edgex-docs PR

Other

- [#389] [In Progress] Help optimize local developer make docker builds
- [Complete] Re-release edgex-examples to trigger new GitHub Action release automation
  - https://github.com/edgexfoundry/edgex-examples/releases/tag/v2.2.0
Make docker optimization

• .git directory is large (min 160MB) and docker context takes a few seconds to copy (depends on underlying hardware)
• Currently go modules are downloaded for each docker image that is built
• Spire compilation downloads specific go version and re-downloads go modules
• Due to different cache layers, build cache, dangling images are quite large (15-22GB)
Make docker benchmarks

"make docker" benchmarks

- as-is
- as is & dockerignore change
- local cache 1.17
- local cache 1.17.7 & dockerignore change
- nexus base & dockerignore change

- clean
- cached
- dirty

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<th>Configuration</th>
<th>Clean</th>
<th>Cached</th>
<th>Dirty</th>
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DevOps Levski Scope

- htmlproofer checks on each edgex-docs PR (👕 Small)
  - Plugin in for yaml disabled — task to enable it in the pipeline always

- Makedocs — support for variables (👕 Small)
  - Research first
  - Understand impacts on Htmlproofer
  - This would help with docs as well as API docs

- Automate version bump in swagger api files on release (👕 Small)
  - Modification to global libraries; adding a new step in the release process
  - Done manually today

- Assist GUI team to automate testing — Jim to coordinate with GUI
  - Size TBD

- Create a consistent make version target in the Makefile (👕 Medium)
  - snaps and CI/CD share the same version
  - Requires touching most repositories

- Having our own SPIFFE/SPIRE Nexus image for use in builds (👕 Medium)
  - Temporary solution until the Spire team has their own multi-arch images

- Optimize local edgex-go builds using a local image as a caching layer
Notes