DevOps Working Group

Thursday May 26, 2022

Agenda

Time	Topic	Owner
5 Min	DevOps Updates	Ernesto
5 Min	Levski Scope	Ernesto
15-20 Min	Optimize Spiffe/Spire Jenkins Builds	Ernesto
5 Min	AOB / Opens	Ernesto

Attendees

DevOps Levski Scope

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

- Makedoc–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)
  - i.e. https://github.com/edgexfoundry/edgex-go/blob/main/openapi/v2/*.yaml
  - 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
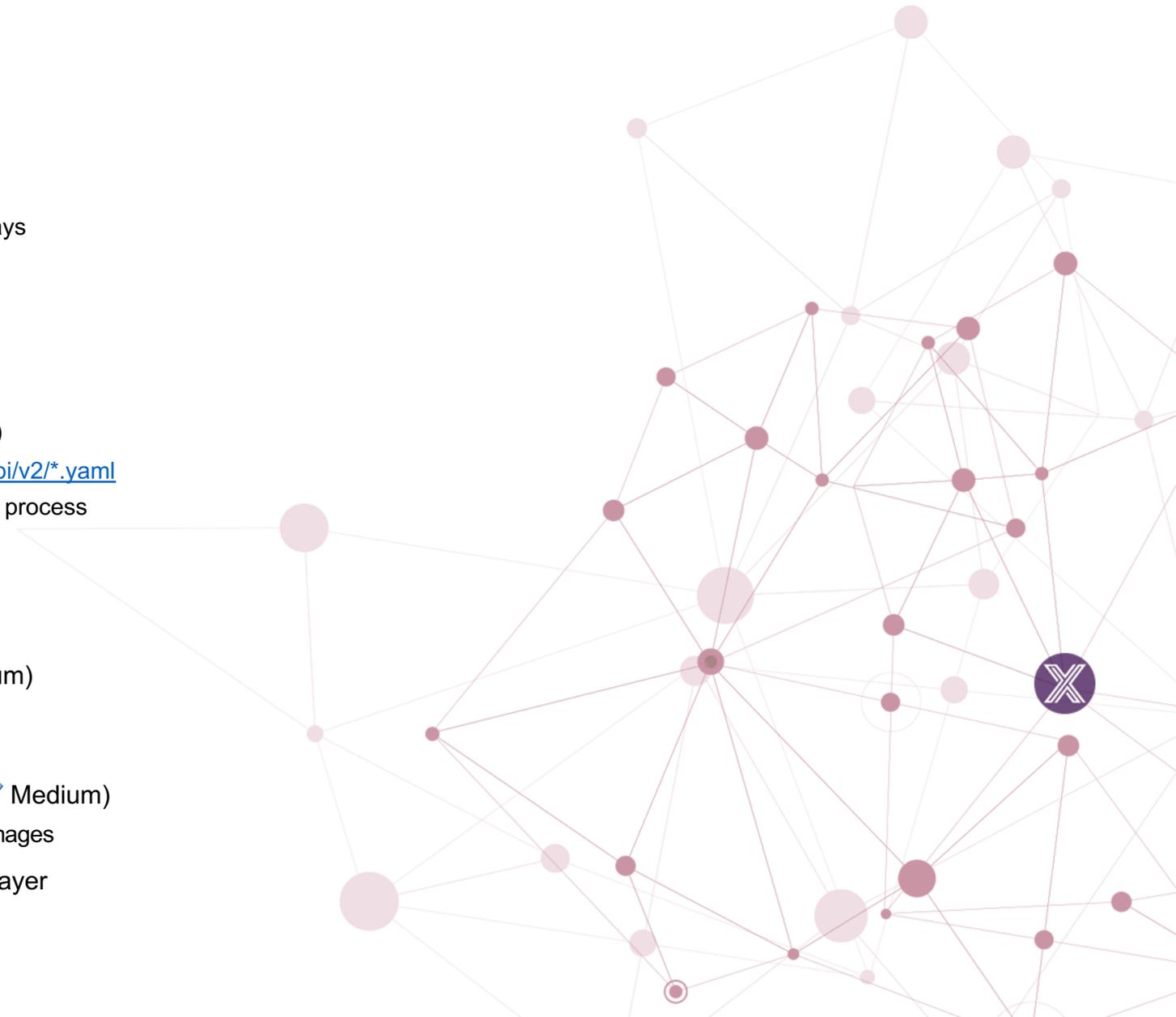
DevOps WG Update

Pipeline Related

- [#390](#) [In Progress] - Fix version mismatch issues for Go based LTS builds
- [#388](#) [In Progress] Optimize edgex-go SPIFFE/Spire docker image builds

Other

- [#389](#) [Backlog] Help optimize local developer make docker builds
- [#391](#) [In Progress] Add repo badges to README for device-onvif-camera
- [#392](#) [In Progress] Add repo badges to README for device-usb-camera
- [#395](#) [Backlog] Investigate Snyk go.mod scans for Jakarta

Optimize Spiffe/Spire Jenkins Builds

- Options:
  - Create a dedicated Spire image and host the image in nexus. This can be easily done via the ci-build-images repository
    - Could be used in COPY --from=nexus…
      - Issues: There is no native multi-arch support, so x86 and arm images are created with different names. spire-image & spire-image-arm64. These images would be difficult to use because we don't have separate Dockerfiles for x86 and arm

  - Build the above image, but inject the binaries at runtime into the base Golang image during the Jenkins pipeline.
    - Possible, but requires extra changes to Jenkins global libraries
    - The spire Dockerfile's would be changed to check for existing spire binaries, if not found, it would compile from scratch (for local development)
    - Traceability can be tricky

  - (Preferred) Compile binaries directly in base Golang image already being used
    - Requires no changes to Jenkins global libraries
    - The spire Dockerfile's would be changed to check for existing spire binaries, if not found, it would compile from scratch (for local development)

Opens

- Lenny: Disable setting "Require branches to be up-to-date before merging
- Bill: semver branch getting out of sync on a "rerelease" to the agenda