



EDGE X FOUNDRY™

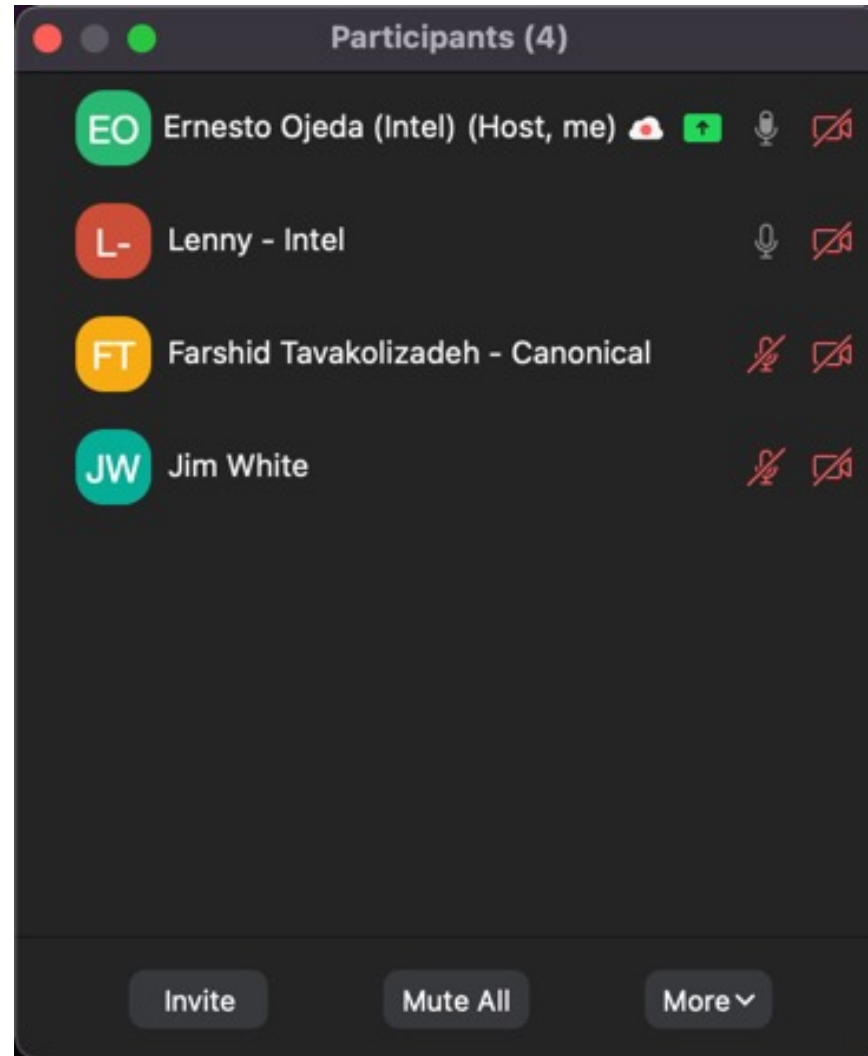
DevOps Working Group

Thursday June 9, 2022

Agenda

Time	Topic	Owner
5 Min	DevOps Updates	Ernesto
10-15 Min	Docker image size optimization	All
5 Min	AOB / Opens	Ernesto

Attendees



DevOps WG Update

Pipeline Related

- [#390](#) [Complete] Fix version mismatch issues for Go based LTS builds
- [#388](#) [Complete] Optimize edgex-go SPIFFE/Spire docker image builds
- [#400](#) [Hold] Go 1.18 upgrade for Go pipelines.

Other

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

Docker image size optimization

- Current Kamakura [image size data](#)

Micro service	Current Image Footprint	Prior Release Image Footprint	Current Executable Footprint	Prior Release Executable Footprint
edgex-core-consul	115.97 MB	116.43 MB	0.00 MB	0 MB
edgex-core-data	22.50 MB	20.67 MB	14.15 MB	12.31 MB
edgex-core-metadata	17.01 MB	16.87 MB	11.33 MB	11.18 MB
edgex-core-command	16.07 MB	16.13 MB	10.39 MB	10.43 MB
edgex-support-notifications	26.87 MB	26.83 MB	20.72 MB	20.68 MB
edgex-support-scheduler	26.29 MB	26.23 MB	20.61 MB	20.55 MB
edgex-app-rules-engine	36.43 MB	36.14 MB	27.56 MB	27.27 MB
edgex-sys-mgmt-agent	298.57 MB	294.12 MB	10.29 MB	10.24 MB
edgex-device-virtual	36.07 MB	35.79 MB	27.69 MB	27.41 MB
edgex-device-rest	36.10 MB	35.8 MB	27.73 MB	27.44 MB
edgex-kuiper	45.58 MB	24.54 MB	0.00 MB	0 MB
edgex-redis	32.37 MB	32.4 MB	0.00 MB	0 MB

- Options:

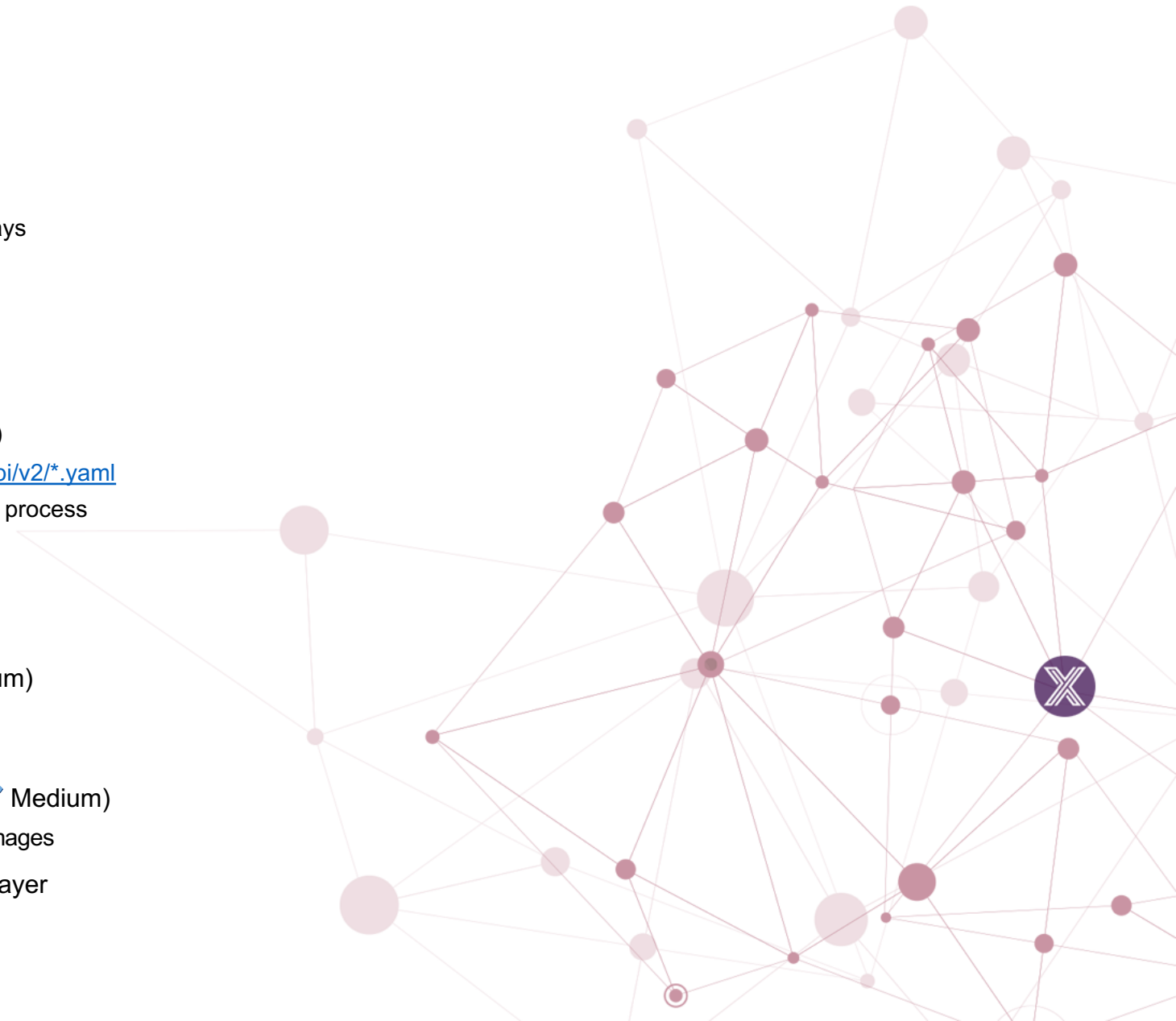
- Remove symbol table & debugging info: `-ldflags="-s -w"`
- [docker-slim](#) project can potentially reduce image size 30x

- Biggest pain points?

- DevOps against modifying 3rd party images (consul, vault, redis, etc)

DevOps Levski Scope

- htmlprooferchecks 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)
 - 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



Notes

- Decision is not to use docker-slim

