DevOps Working Group

Tuesday August 8, 2023

Agenda

| Time	Topic	Owner
5 Min	DevOps Updates	Ernesto
10 Min	EdgeX Napa Scope	Ernesto
10 Min	GitHub Release Demo	Ernesto
10 Min	Gotestfmt Demo	Ernesto
5 Min	Opens	Ernesto

Attendees
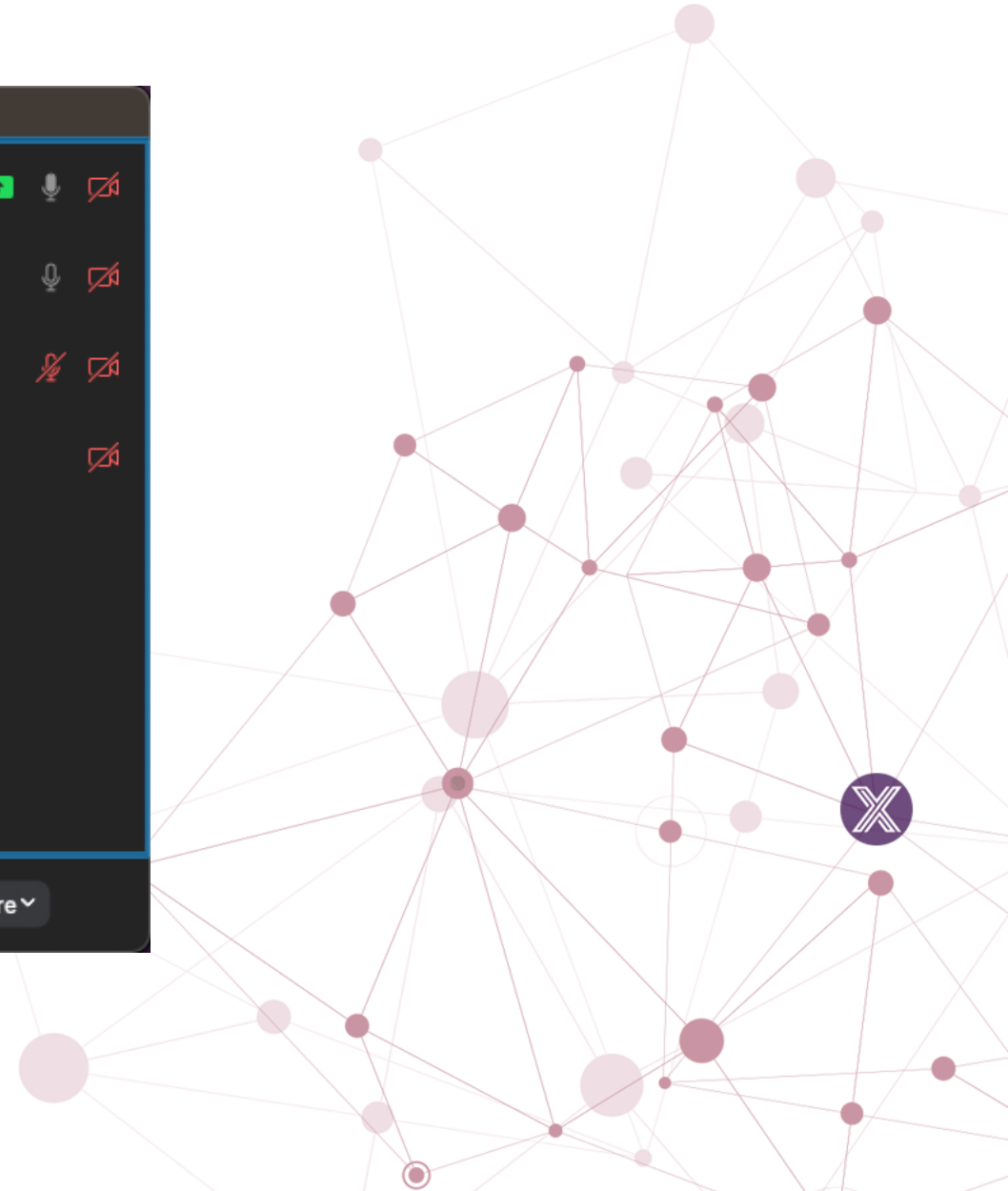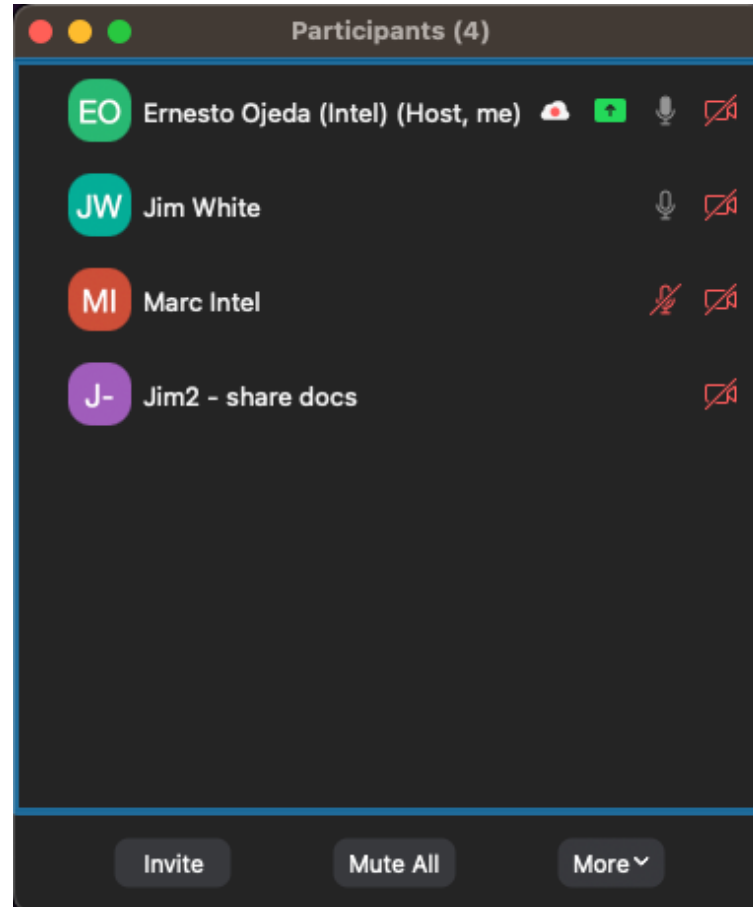
DevOps WG Update

Pipeline Related

- [#435](#) [Complete] Named/Vanity (i.e minor 3.x) tag automation on release

- [#436](#) [Complete] Generate GitHub releases on tag creation via GitHub actions

- [#437](#) [Complete] POC gotesttools/gotestfmt for better unit test output in Jenkins pipelines

Other

- Project Alvarium needs help trying to figure out the best path forward for EdgeX/Jenkins integration. Need help from the LF to configure a Jenkins instance.
- edgex-docs mkdocs upgrade and pipeline changes

Napa 3.1.0: DevOps Scope

Release: November 2023

- ⚙️ Named/Vanity (i.e minor 3.x) tag automation on release.
- ⚙️ Generate GitHub releases on tag creation via GitHub actions.
- ⚙️ POC gotesttools/gotestfmt for better unit test output in Jenkins pipelines.
- Address missing commits in changelog due to issue with "!" in the commit type. Bug with https://github.com/git-chglog/git-chglog/issues/235
- Fully Automate DockerHub description/overview updates.
- Go version upgrades (if applicable).
- Misc release automation cleanup. Need to followup with Bill and Lenny on this

GitHub Release Demo

Overview:

- After the Minnesota release, it was requested that we create a full [GitHub Release](#) with every associated release tag that is pushed.

- Final solution is GitHub Actions based.

- GitHub Actions allows for easy Release creation on when tags of a specific regex is pushed.

- Automatic change log can be generated based on commit history, or custom code can be used to extract relevant release information from CHANGELOG.md

- Reusable workflow in edgex-global-pipelines can be used for faster rollout.

Gotestfmt Demo

Overview:

- https://github.com/GoTestTools/gotestfmt
  gotestfmt: go test output for humans

- Easy to use, can be turned on just for CI system

```
set -euo pipefail
go test -json -v ./... 2>&1 | tee /tmp/gotest.log | gotestfmt
```

Notes

gotestfmt Example failed test output

```
✅ TestFilterByDeviceName/Valid_FilterOut_Parameters (0s)
✅ TestFilterByDeviceName/Valid_Parameters (0s)
❌ TestFilterByProfileName (0s)
✅ TestFilterByProfileName/Empty_FilterOut_Parameters (0s)
✅ TestFilterByProfileName/Empty_Parameters (0s)
❌ TestFilterByProfileName/Non_Existent_Parameters (0s)
  configurable_test.go:49:
           Error Trace:    /Users/eojeda/Intel/code/Edgex/app-functions-sdk-go/internal/app/configurable_test.go:49
           Error:          Expected value not to be nil.
           Test:           TestFilterByProfileName/Non_Existent_Parameters
           Messages:       return result from FilterByProfileName should not be nil
✅ TestFilterByProfileName/Valid_FilterOut_Parameters (0s)
✅ TestFilterByProfileName/Valid_Parameters (0s)
✅ TestFilterByResourceName (0s)
✅ TestFilterByResourceName/Empty_FilterOut_Parameters (0s)
✅ TestFilterByResourceName/Empty_Parameters (0s)
✅ TestFilterByResourceName/Non_Existent_Parameters (0s)
✅ TestFilterByResourceName/Valid_FilterOut_Parameters (0s)
✅ TestFilterByResourceName/Valid_Parameters (0s)
```