DevOps Working Group

Thursday December 2, 2021

Agenda

Time	Topic	Owner
5 Min	DevOps Updates	Ernesto
5 Min	Jakarta Release Overview	Ernesto
10 Min	edgex-compose/edgex-docs automation	Ernesto
5 Min	AOB / Opens	All

Attendees
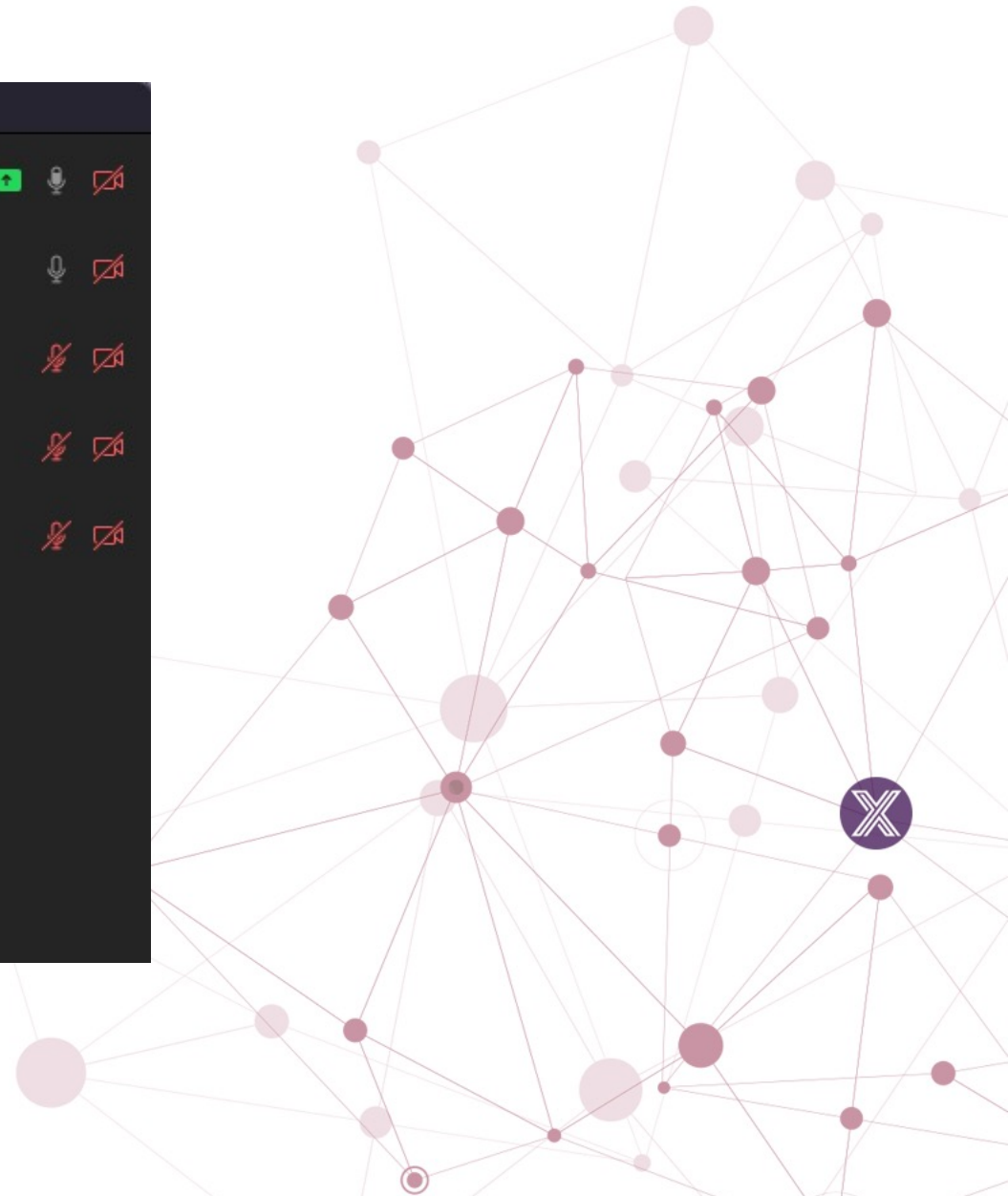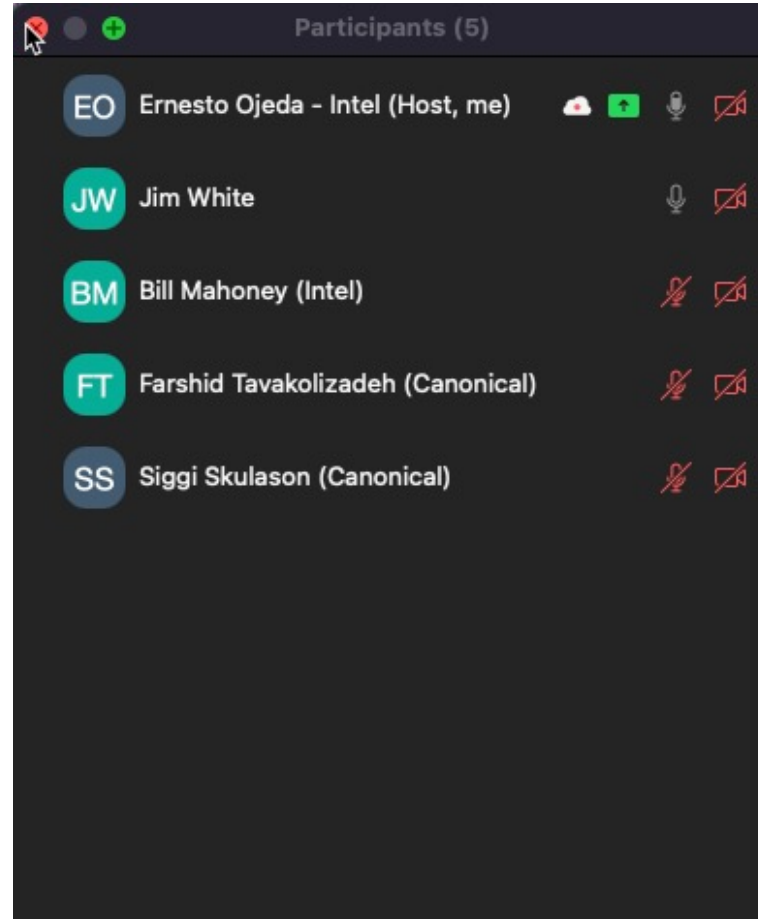
DevOps WG Update

Pipeline Related

- [Complete] Archive 3rd Party compose images in edgex-compose for LTS releases
- [Backlog] #371 Go 1.17 released - Release Notes - On hold until Kamakura
- [Backlog] #370 Spike: multi-arch builds with buildx (spin up less nodes, speed up builds)
- [Backlog] #59 Spike: rewrite git-semver in python

Other

- [Complete] Jakarta Release
- [Complete] Developer Badge Program
  - Launching soon.

Jakarta Release Overview

- https://edgexfoundry.github.io/edgex-global-pipelines/html/releases/jakarta-release-stages/
- Example release yaml: https://github.com/edgexfoundry/cd-management/blob/release-lts/release/edgex-go.yaml
- Sample Jakarta commit: https://github.com/edgexfoundry/edgex-go/commit/b350bc7f0b5978358426c58bec3f554618d1aae9

Potential Issue with what is considered "latest" for the main branch when we have LTS builds. Farshid is going to write up the issue so we can look for a potential solution.

A separate git tag was mentioned as a potential solution. See: https://semver.org/#spec-item-10

edgex-compose/edgex-docs Automation

- Existing edgex-compose automation
  - https://github.com/edgexfoundry/cd-management/tree/edgex-compose-builder
- New edgex-compose automation for LTS releases:
  - Archive 3rd party docker images to nexus
  - https://github.com/edgexfoundry/edgex-compose/pull/206
- Potential automation of releasing edgex-docs?
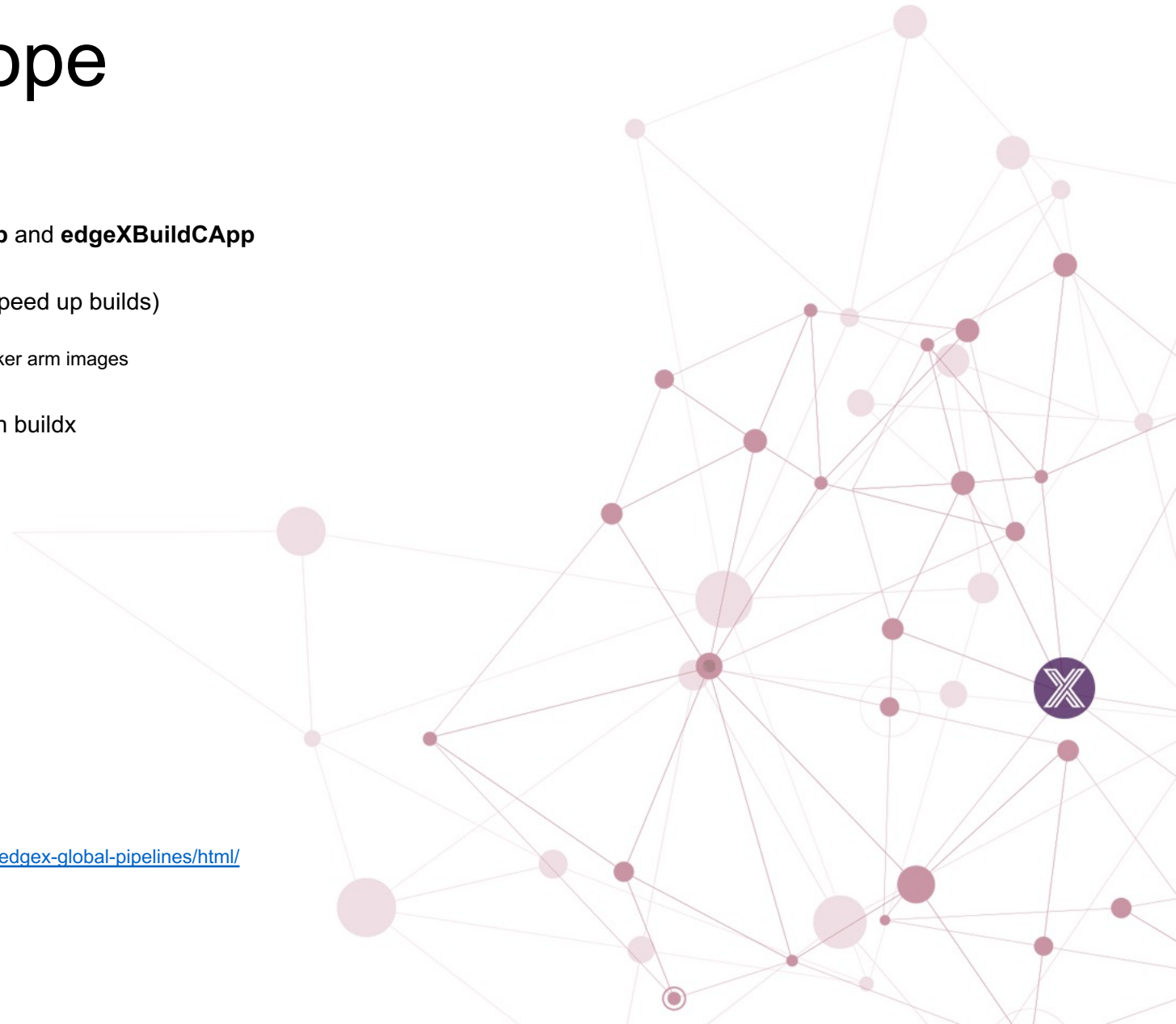 - Need clarification.

DevOps Kamakura Scope

Pipeline Optimizations:

- Tech Debt: Fix multiple nodes being spun up during **edgeXBuildGoApp** and **edgeXBuildCApp**
    - T-shirt size: small

- Spike: docker image multi-arch builds with buildx (spin up less nodes, speed up builds)
    - T-shirt size: small for the research; implementation TBD (see below)
    - Use of Docker **buildx** so we wouldn't need to spin up ARM image to build docker arm images
    - Explored in the past; revisit approach (separate images)

- Implementation: depending on spike docker image multi-arch builds with buildx

- Spike: rewrite git-semver in python
    - Tshirt–medium size (impl TBD)

- Implementation: depending on spike, rewrite git-semver in python

- Ice box on semantic-release work for now

- EdgeX Badging Program Full Credly Automation (Stretch)

- README Broken link detection pipeline (Stretch)

- Assist in go lang linting/scanning
    - See security scope

Documentation:
- T-shirt size: medium
- Continued documentation updates (DevOps online docs)
- Find it through README of DevOps repository, https://edgexfoundry.github.io/edgex-global-pipelines/html/

Notes