



EDGE X FOUNDRY™

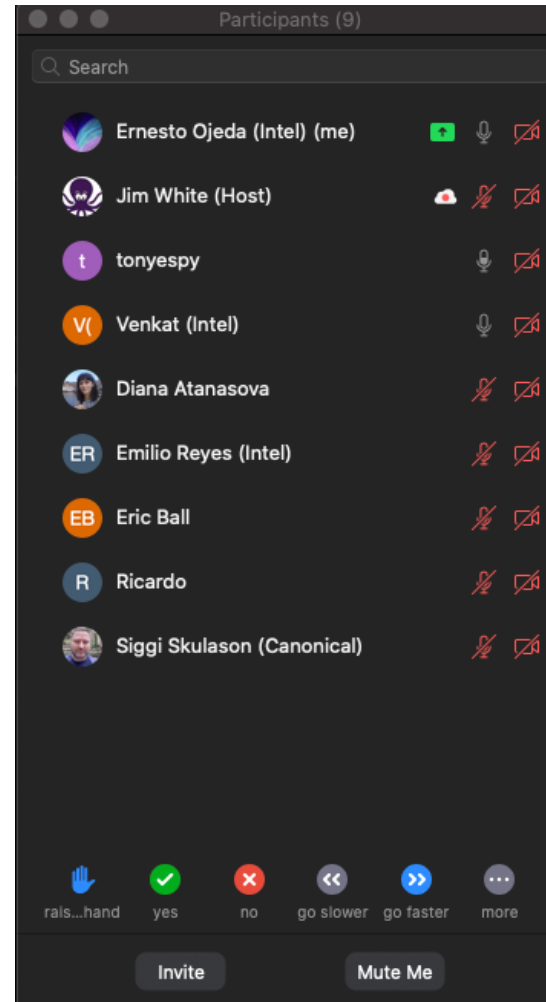
DevOps Working Group

Thursday August 27, 2020

Agenda

Time	Topic	Owner
10 Min	DevOps Updates (Hanoi)	Ernesto
5 Min	LLRP Device Service	Ernesto
5 Min	Go 1.15	Ernesto
5 Min	Kanban Board Review	All
5 Min	AOB / Opens	All

Attendees



<http://bit.ly/HowToMockIt>

How to Mock it?

September 22, 2020

Open Source Examples of Unit Tests for
a Jenkins Shared Library

Lisa Ranjbar, Emilio Reyes,
Ernesto Ojeda

**DEVOPS
WORLD**
by CloudBees

DevOps WG Update (Hanoi)

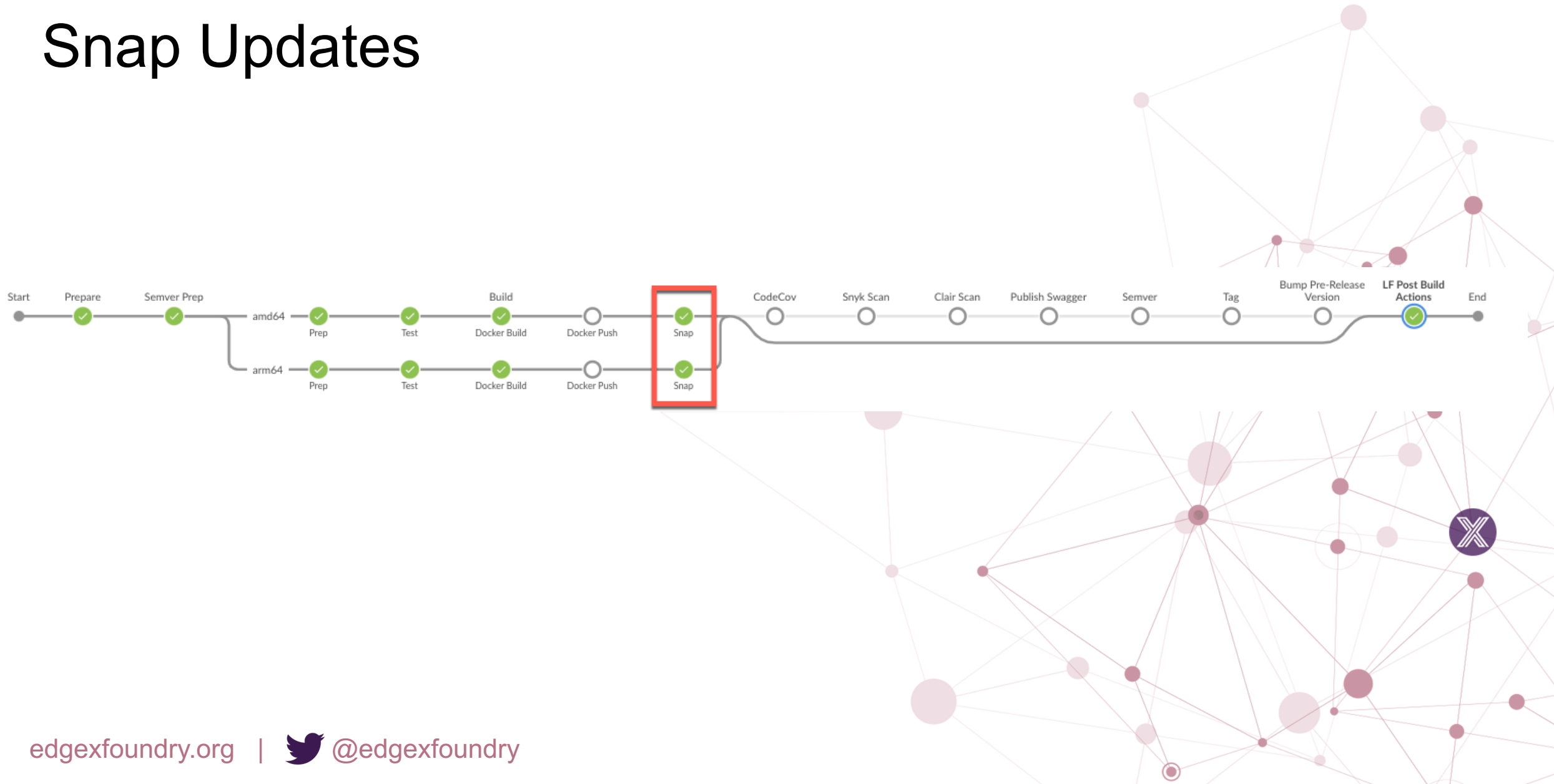
• Pipeline Enhancements

- [#2643](#) [In Progress] Update ENTRYPOINT across repos
- [#64](#) [In Progress] SPIKE Research Functionality to rebuild artifacts after code freeze.
- [#43](#) [In Progress] Rewrite sample-service to better facilitate testing of DevOps services.
- [#229](#) [In Progress] Enable Snap build in edgex-go pipeline, remove legacy JJB jobs
- [Placeholder] edgex-cli pipeline work in the backlog. Probably will begin in a few weeks

• Other

- Amend ADR10 Snaps section Bill/Tony. Maybe a diagram explaining all the parts involved on the Canonical side?
 - https://github.com/edgexfoundry/edgex-docs/blob/master/docs_src/design/adr/devops/0010-Release-Artifacts.md#snaps

Snap Updates



Snap Updates

• Snap Modifications

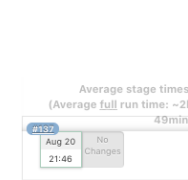
- [#229](#) Enabled Snap stages for edgeXBuildGoParallel (amd64, arm64)
- [#229](#) Disable Snap stage on merge to master (speed optimization)
- [#229](#) Use specific build agents for Snap stages to speed up builds (speed optimization)
- [#229](#) Remove SNAP_CHANNEL from pipelines to disable publishing to the Snap store
- [#618](#) Remove legacy snap jobs from ci-management repo
- [#72](#) Remove/Disabled Daily Snap Jobs
- Hand over Snap registration to Canonical - LF

• New Snap Nodes

New nodes were introduced to attempt to speed up PR verification builds

- centos7-docker-8c-8g: Build time reduced from 30m to 16m
- ubuntu18.04-docker-arm64-16c-16g, slight reduction from 50m to 40m

Stage View

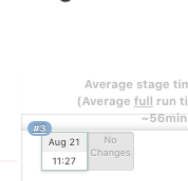


Average 30-35 minutes

ARM still slow

Declarative: Checkout SCM	Snap!	amd64	Clone Code	Stage Snap	arm64	Clone Code	Stage Snap	Declarative: Post Actions	LF Post Build Actions
9s	234ms	2min 10s	1min 33s	38min 39s	2min 11s	0ms	0ms	201ms	29s
12s	203ms	1min 29s	57s	27min 32s	2min 20s	2min 10s	54min 51s	123ms	33s

Stage View



Average TBD

ARM still slow

Snap!	amd64	Clone Code	Stage Snap	arm64	Clone Code	Stage Snap	Declarative: Post Actions	LF Post Build Actions
188ms	304ms	20s	33min 53s	1min 57s	0ms	0ms	236ms	46s
188ms	304ms	14s	16min 23s	1min 57s	25s	51min 24s	236ms	46s

Go 1.15

• DevOps Changes

- Add Go 1.15 ci build image with bundled deps
- Add new option in edgeXBuildGoApp and edgeXBuildGoParallel, make go 1.15 the default
- Update any Jenkinsfiles with pinned Go versions

```
16
17 edgeXBuildGoApp (
18     project: 'device-virtual-go',
19     goVersion: '1.13'
20 )
21
```


Meeting Minutes

Notes WW35

- Release Process wiki out of date: <https://wiki.edgexfoundry.org/display/FA/Release+Process>.
 - Plan is to update content to point to ADR10
- Jim will work with LF to move snap registration from EdgeX to Canonical
- Snap Builds:
 - Temporarily disable ARM verification Snap stage in pipeline.
 - Tony will look at maybe Canonical providing hardware for ARM builds.
- edgex-cli Pipeline
 - enable git-semver to consistent versioning automatically version builds
 - Create pipeline with the following stages
 - Test
 - Cross Compile (with git-semver version)
 - (New scope or just make target) How are these validated?
 - Linux (amd64/arm64)
 - Windows (amd64/arm64)
 - MacOS
 - Package artifacts (tarball)
 - Git-semver Push signed version tag
 - Snyk scan
 - Codecov.io
 - Push tarballs to GitHub releases page (new scope)
 - To be controlled by Release Czar. Part of cd-management Release the Kraken job.