# **DevOps Working Group Meeting**

# Thursday, March 21, 2019

#### **Attendees:**

James Gregg, Michael Hall, Cloud Tsai, Trevor Conn, Milin Jaiswal, Ernesto, Vishwas, Tony, Eric Ball, Lisa, Jim White

### **Agenda**

Time	Item	Who		
	DevOps WG			
10 min	Work Review (GitHub Project)	James Gregg		
10 min	TIG Stack Update	James Gregg		
10 min	Performance Testing	Andy Foster / Cloud Tsai		
10 min	Demo Release Versioning	Lisa		
	Opens / Help Needed	All		

# DevOps Work New / Old Review

TIG Stack – WIP

Discussion topic for today

Sigul – WIP

Owner assigned - (Eric Ball)

According to update from Eric 3/19/19 – plan to include in current sprint with expected completion in time for Edinburgh release. This work is prioritized over codecov.io integration.

• Full List of Device Services (Andy)

Andy TSC update 3/20/19 – IoTech will contribute device-opcua-c and device-bacnet-c for Edinburgh – No known drop date per Cloud Tsai

• Eric Ball follow up with the team that owns VEXHOST re: #68377- WIP —Followup required with the remote team.

Additional network connectivity issues identified earlier this week with intermittent job failures.

 Broken Builds for Delhi Documentation – as reported by Michael Hall – ISSUE identified with Iftools – WIP Still seeing issues as of 3/20/19

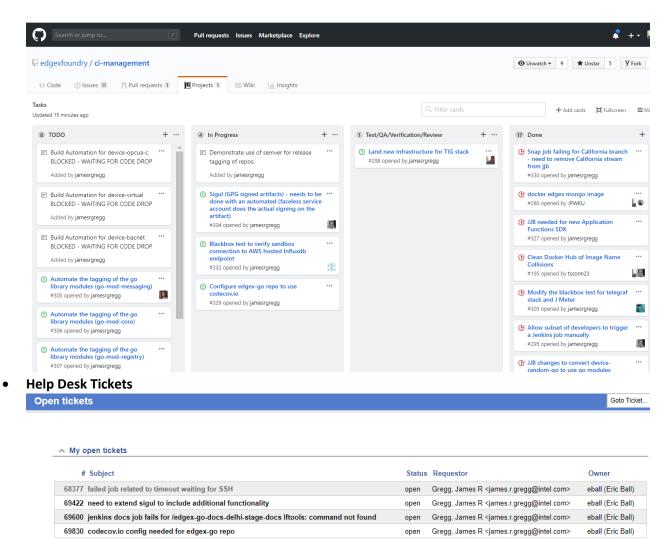
Proposal: Pin to earlier version or continue with Root Cause Analysis

Decision: Root Cause Analysis – plan to have this fixed with release for next Thursday

- App Functions SDK DONE
- Ian Johnson identified several snap jobs for California release are failing need to remove the stage jobs – DONE

#### Review Kanban Board

Project Tasks - https://github.com/edgexfoundry/ci-management/projects/2



### TIG Stack Update

On Mar 20, 2019, at 12:54 PM, Jordan Conway < <u>iconway@linuxfoundation.org</u>> wrote:

Hi All.

I've got an initial setup up an running at https://stats.edgexfoundry.org you can login with your LFID

There's no data now, but you can send Telegraf data to Influxdb at <a href="http://stats.edgexfoundry.org:8086">http://stats.edgexfoundry.org:8086</a>

Infludxb endpoint is restricted to connections originating in the AWS edgex subnets and Vexxhost edgex and edgex-ci subnets as well as some LF administrative subnets for troubleshooting/monitoring.

This is not yet "production ready" as I built it out using small instances to keep costs low while the kinks are being worked out, it also still needs to have backups and monitoring enabled.

But hopefully you can spin up some sandbox tests with Telegraf enabled builds to see if it works as expected and then I can proceed with further steps to strengthen it and put the production ready stamp on it.

Once there is some sandbox data in it, I would like to run a few deployment tests to ensure that everything that should be persistent is persistent and that I can do updates without interruption.

Please let me know if there's anything you need to know or have any other questions.

Thank you, Jordan Conway

#### Known Issues:

#### **Authentication**

OAuth with GitHub credentials initially fails with an error, but after approval from GitHub, allows authentication successfully after a  $2^{nd}$  attempt.

Additionally, we have noted that when users attempt to authenticate via Linux Foundation credentials only, it fails.

#### Password reset

This should be disabled for the Grafana dashboard.

Note: password reset process is managed outside of Grafana

https://identity.linuxfoundation.org/ is where you'll need to go to reset your password.

#### Performance Monitoring / Alerts

SMTP is not enabled outbound.

Password reset requests through Grafana dashboard will not work.

There is no current scope for alerts based on certain criteria of performance.

#### Security Model

A small subset of users will be designated with admin privileges.

Admins can add users, invite users, add plugins, add dashboards etc..

Membership – role based and restricted to LDAP group to be defined (James / Eric)

#### Data Retention Policy - None

The database is still docker based Influxdb with persistent data shared across instances via an EFS mounted volume

Options: Purge the data at %frequency% vs. Redeploy a fresh stack

Given that the implementation uses EFS, the data will scale unlimited, which over time will incur cost for LF.

AR: James / Andy to follow up on this and understand the intent for each release and determine if we should consider purging data over time.

**Data Encryption** – Not a requirement as there is no sensitive data

# Performance Testing

"Spin up some blackbox tests with telegraf enabled..."

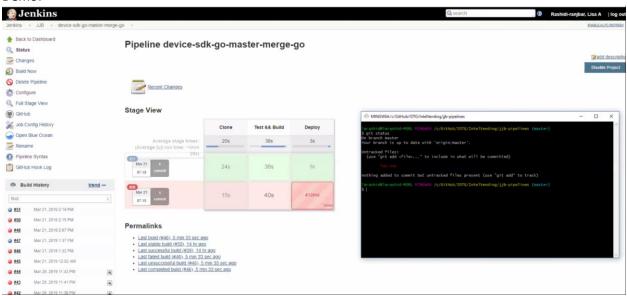
#### Next Steps: US3712 / Issue #332

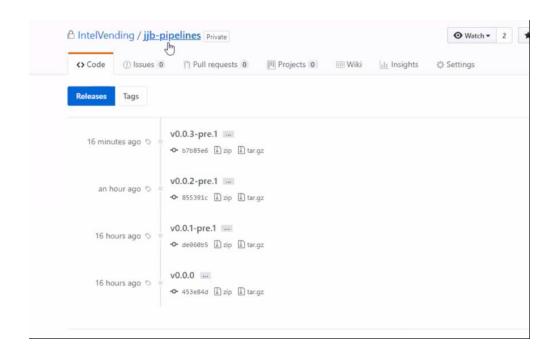
As discussed in the last DevOps meeting –modified version of a blackbox test from sandbox *Need to confirm connectivity to the endpoint from sandbox blackbox test.* 

# Automated Release Versioning

Lisa shared the good work on the automation for tagging go module repos. In the demo today we are exposed to a Jenkins Pipeline which simulates the EdgeX Jenkins verify and merge jobs as two separate Pipelines, each with stages to Clone, Test & Build, and Deploy.

#### Demo:





Master branch now tagged v0.0.4-pre-1 after semver util runs with the tag as pulled from semver branch



#### Discussion:

Jenkinsfile is written in groovy.

JJB templates call the Jenkinsfile which is inside the same repo as the code.

It was noted that EdgeX Jenkins supports the use of Pipelines today.

Trevor references a recent article published on go modules
Suggests using directory structure in the repos that also need tagged ??

Use of PR with "bump" comments to autobump version tag seems "weird" per Tony. Noted that PR comments are not visible on the git tree.

Lisa suggests a better option (preferred) is to us a "special commit message".

There is a need to understand the Developer Workflw for end to end tagging that matches the additional scenarios called out for patching (major / minor).

We should iterate on this for another future demo which shows the end to end developer workflow to include branching and get it working with PRs.

Consider using Pipeline / semver for US3712 / Issue #332 for the next demo.

Ernesto noted that we could use semver inside a Freestyle job today as it's a command line tool or wrap it up in Docker.

 Note: Beyond the initial go module repo tagging, the additional scope for all of the EdgeX services would be scope for Fuji release.

#### **Next Steps:**

- Intel SDL for semver util plans to meet with PSE (Jacob)
- Identify any missing dependencies (Lisa / Ernesto)
- Work with LF to get the dependencies installed on EdgeX Jenkins infrastructure (James)

### Opens

# Future Agenda Items

WW13	Topics for Fuji F2F	
	Jenkins Pipelines for EdgeX services	
WW18	Athens Project – proxy server for go package dependencies	
	Community Involvement	