

DevOps Working Group Meeting

Thursday, March 28, 2019

Attendees:

James Gregg, Michael Hall, Vishwas, Lisa, Andy, Trevor, Anthony Cherry, Emad, Ian Johnson, Lenny, Milin, Felix,

Agenda

Time	Item	Who
	DevOps WG	
10 min	Work Review (GitHub Project)	James Gregg
10 min	Demo - Release Versioning	Lisa / Ernesto
10 min	TIG Stack Update – Review of Initial Sandbox Test	Ernesto
10 min	Performance Testing Update – Next Steps	Andy Foster / Cloud Tsai
	Opens	All

- **DevOps Work New / Old Review**

Help Desk Ticket Review

Open tickets				
^ My open tickets				
#	Subject	Status	Requestor	Owner
68377	failed job related to timeout waiting for SSH	open	Gregg, James R <james.r.gregg@intel.com>	eball (Eric Ball)
69422	need to extend sigul to include additional functionality	open	Gregg, James R <james.r.gregg@intel.com>	eball (Eric Ball)
69600	jenkins docs job fails for /edgex-go-docs-delhi-stage-docs lftools: command not found	open	Gregg, James R <james.r.gregg@intel.com>	eball (Eric Ball)
69830	codecov.io config needed for edgex-go repo	open	Gregg, James R <james.r.gregg@intel.com>	eball (Eric Ball)
70102	verify job failure noted for edgex-go build	open	Gregg, James R <james.r.gregg@intel.com>	eball (Eric Ball)
70277	security model for EdgeX TIG Stack Administrators	new	Gregg, James R <james.r.gregg@intel.com>	Nobody in particu

68377	failed job related to timeout waiting for SSH	Eric Ball follow up with the team that owns VEXHOST – no progress	WIP
69422	need to extend sigul to include additional functionality	Eric Ball plans to include in current sprint with expected completion in time for Edinburgh release. <i>This work is prioritized over codecov.io integration.</i> Note: Needed in to test full Jenkins Pipeline for release automation user	WIP

		story – should be getting an update next Thursday	
69600	jenkins docs job fails for /edgex-go-docs-delhi-stage-docs lftools: command not found	<p>Broken Builds for Delhi Documentation – as reported by Michael Hall – ISSUE identified with lftools – Still seeing issues as of 3/20/19</p> <p>Decision: Root Cause Analysis – plan to have this fixed with release for next Thursday</p> <p>Help Needed – Works in Sandbox but not production - needs an extra set of eyes to look at this issue.</p>	WIP
69830	codecov.io config needed for edgex-go repo	On Hold - See 69422	WIP
70102	verify job failure noted for edgex-go build	Issue identified earlier in the week related to credentials to nexus3	FIXED
70277	security model for EdgeX TIG Stack Grafana Administrators	Need to follow up with Jordan	

- **Review Kanban Board**

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

edgexfoundry / ci-management

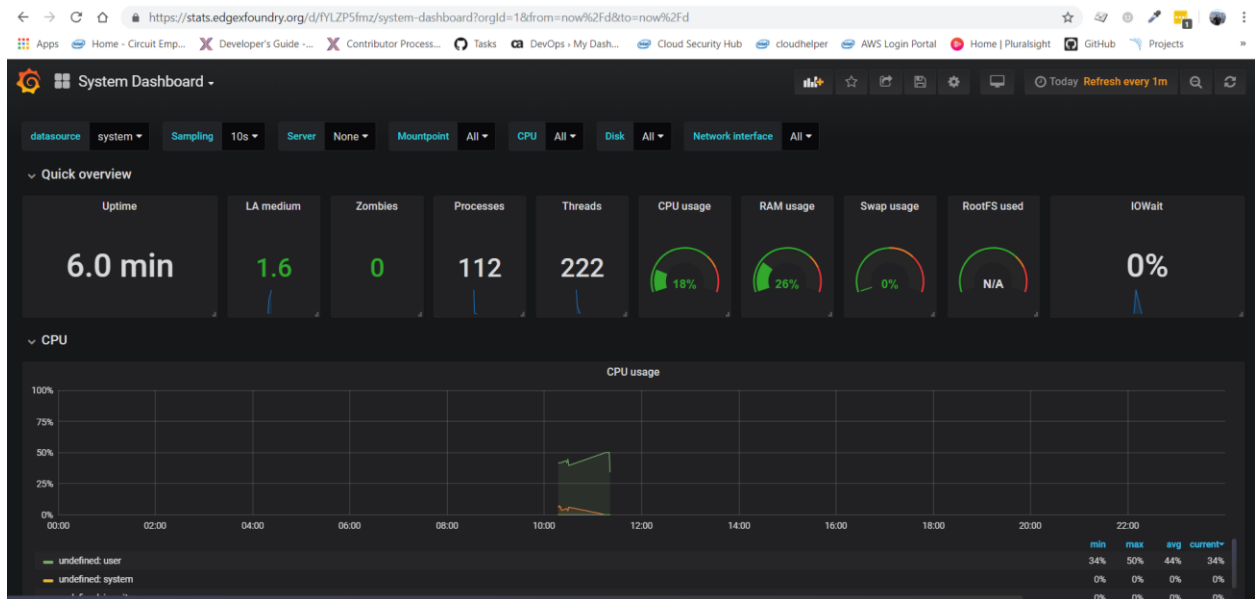
Tasks
Updated a day ago

- TODO**
 - Go FMT as a part of make test
 - add go fmt to repos (create issues on each repo)
 - working group chairs should do the on all of the repos
 - Kong image for arm as build image for blackbox security testing
 - Build Automation for device-opcua-c BLOCKED - WAITING FOR CODE DROP
 - Build Automation for device-virtual BLOCKED - WAITING FOR CODE DROP
 - Build Automation for device-bacnet BLOCKED - WAITING FOR CODE DROP
 - Configure edgex-go repo to use codecov.io
 - Automate the tagging of the go library modules (go-mod-messaging)
 - Automate the tagging of the go library modules (go-mod-core)
 - Automate the tagging of the go library modules (go-mod-registry)
- In Progress**
 - Sigul (GPG signed artifacts) - needs to be done with an automated (faceless service account does the actual signing on the artifact)
- Test/QA/Verification/Review**
 - Demonstrate use of semver for release tagging of repos.
- Done**
 - Land new infrastructure for TIG stack
 - Blackbox test to verify sandbox connection to AWS hosted Influxdb endpoint
 - Snap job failing for California branch - need to remove California stream from jjb
 - docker edgex mongo image
 - JJB needed for new Application Functions SDK
 - Clean Docker Hub of Image Name Collisions
 - Modify the blackbox test for telegraf stack and J Meter
 - Allow subset of developers to trigger a Jenkins job manually
 - JJB changes to convert device-random-go to use go modules
 - Update go lang 1.11-ALPINE
 - SPIKE: How to handle secrets used by containers

Rewrote the Go FMT story during the meeting as we discussed that going the formatting within CI was a bad idea. Discussion from the developers suggested that the developers should ensure that they are using the go formatter plugin for whatever IDE is used.

- Need to add a check to the Git PR checks for Verify jobs.
-

- **TIG Stack Update**
Dashboard for Performance Test from Sandbox



Known Issues:

Authentication

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

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

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.

● Performance Testing

“Spin up some blackbox tests with telegraf enabled...”

Next Steps: US3712 / Issue #332 - DONE

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.

Jenkins > All > 00-Tig-Test >

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Pipeline 00-Tig-Test

[Recent Changes](#)

Stage View

Average stage times:
(Average full run time: ~6min 59s)

	Clone	Telegraf
#3 Mar 27 11:14 No Changes	4s	5min 25s
#2 Mar 27 10:23 No Changes	11s	5min 41s
#1 Mar 27 10:14 No Changes	13s	5min 49s

Build History

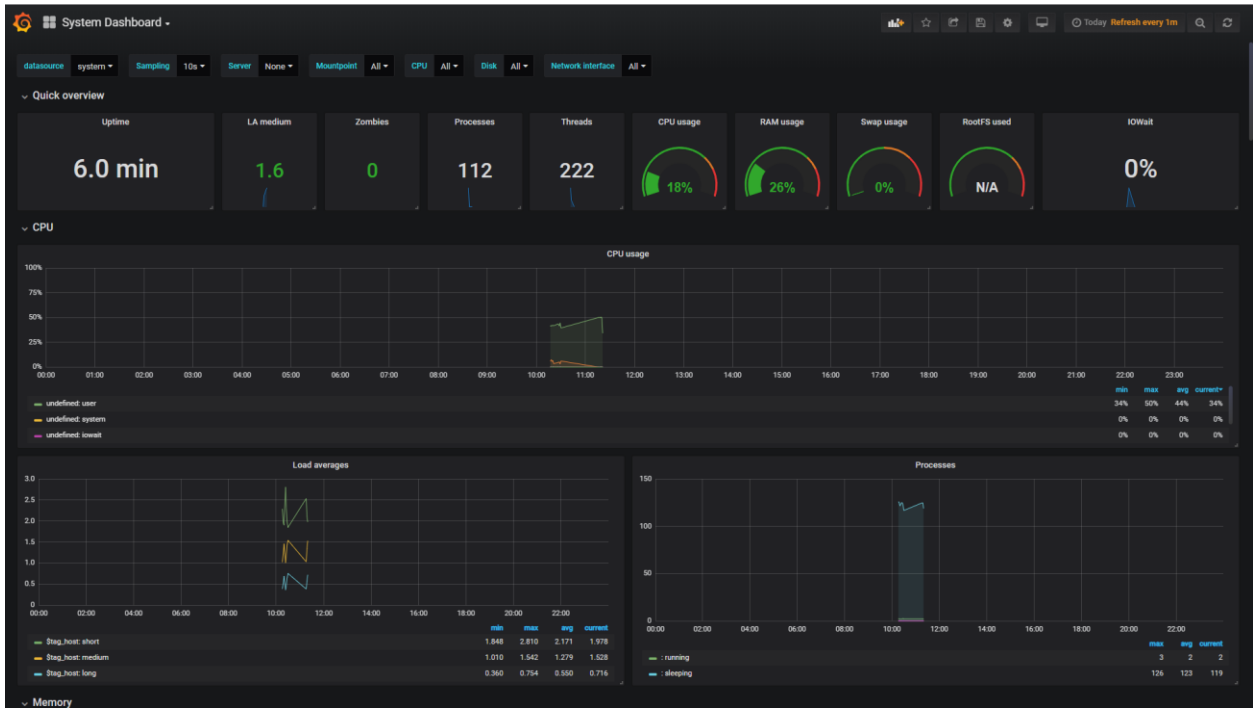
find X

- #3 Mar 27, 2019 6:14 PM
- #2 Mar 27, 2019 5:23 PM
- #1 Mar 27, 2019 5:14 PM

[RSS for all](#) [RSS for failures](#)

Permalinks

- [Last build \(#2\), 50 min ago](#)
- [Last stable build \(#2\), 50 min ago](#)
- [Last successful build \(#2\), 50 min ago](#)
- [Last completed build \(#2\), 50 min ago](#)



● Automated Release Versioning

Demo:

Lisa and Ernesto demonstrated the semantic versioning using git-semver within a Jenkins Pipeline job.

00-Empty View All + https://www.jenkins.io/doc/pipeline/tutorials/

S	W	Name ↓	Last Success	Last Failure	Last Duration	
🌐	☀️	00-Tig-Test	57 min - #7	N/A	7 min 1 sec	🔍
🌐	☁️	sample-service-merge-pipeline	41 min - #5	1 day 19 hr - #2	3 min 7 sec	🔍
🌐	☀️	sample-service-verify-pipeline	43 min - #5	N/A	1 min 11 sec	🔍

Icon: S M L ...

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Pipeline sample-service-merge-pipeline

Recent Changes

Stage View

Average stage times:
(Average full run time: ~3min
37s)

#	Time	Commits
#5	Mar 28 07:38	2 commits
#6	Mar 28 14:31	1 commit
#4	Mar 26 13:29	1 commit
#3	Mar 26 13:20	No Changes

	Clone	Prep Builder	Test	Semver Init	Semver Tag	Mock Sigul Signing	Mock Upload Artifacts	Semver Bump Patch Version
Average	9s	1min 0s	23s	14s	6s	690ms	721ms	20s
#5	11s	32s	24s	15s	6s	684ms	755ms	19s
#6	10s	43s	26s	16s	6s	704ms	718ms	18s
#4	13s	1min 18s	30s	21s	7s	681ms	753ms	25s
#3	8s	1min 39s	20s	17s	5s	692ms	660ms	17s

[edgexfoundry-holding / sample-service](#)

[Code](#)
[Issues 0](#)
[Pull requests 0](#)
[Projects 0](#)
[Wiki](#)

No description, website, or topics provided.

46 commits 4 branches

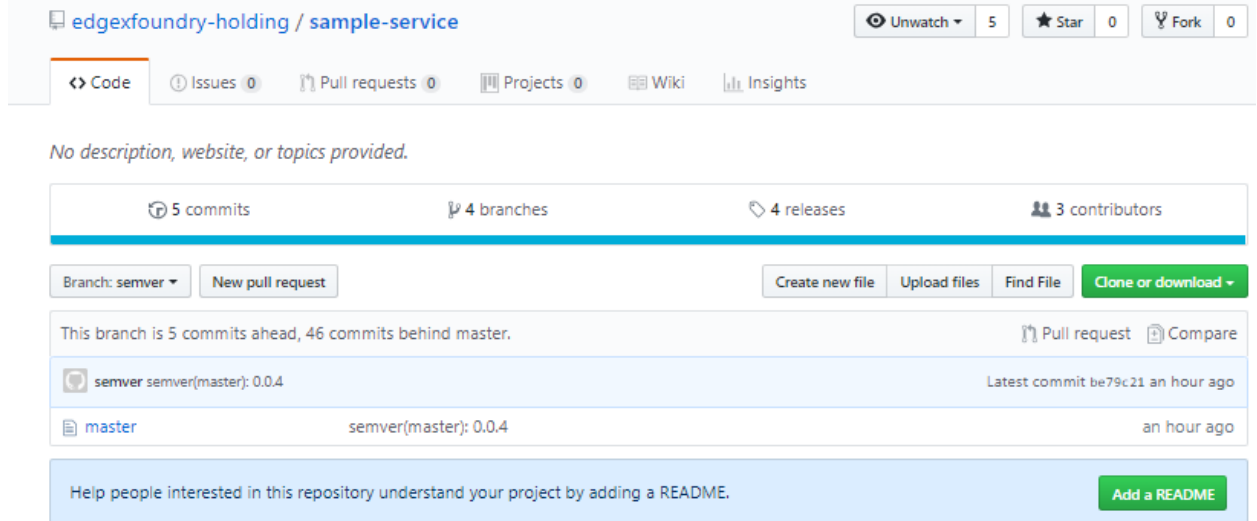
Branch: master New pull request

Switch branches/tags

Find a tag...

Branches Tags

- v0.0.3
- v0.0.2
- v0.0.1
- v0.0.0



Discussion:

Additional testing needed to verify that major, minor works as expected. Lisa will test and provide the evidence to confirm. Trevor likes the tags the way they are (as demonstrated) without using “pre”. There’s no known trigger for when a major, minor version would need to be created, so there’s some additional discussion on how best to do this via automation. Options include using a parameterized option in the Jenkins job or using a special git commit message, or keep it a manual process and use git-semver outside of Jenkins (Release Engineer role)

Decision:

Decision is to move forward with this for the go modules libraries for Edinburgh. It was noted that the Jenkinsfile itself serves as documentation on the builds going forward. The git-semver utility can be run by a developer / release engineer outside of CI. Intel DevOps team is still working through the SDL processes to officially upstream the git-semver util written by Jacob.

Great Job Lisa, Ernesto, Jacob on this scope of work!!!

Next Steps:

- *Finalize SDL for git-semver utility – IN PROGRESS*
- *Verify major, minor bump works correctly (Lisa)*
- *Coordinate move of the edgex-global-pipelines, git-semver repos out of holding*

● Opens

Blackbox Security Tests Failing due to missing Kong image for arm. User story added to backlog. There is already an issue for this [185](#)

Go FMT – this will be addressed by the developers per each repo. There may be some scope that DevOps - Add a SPIKE.

(James) Spike to see if there is a git checker for proper formatting of go code so that a PR has to pass the check before code can be approved and then merged.

Future Agenda Items

WW14	Documentation migration – edgex-go user documentation
WW14	Topics for Fuji F2F Jenkins Pipelines for EdgeX services
WW18	Athens Project – proxy server for go package dependencies
	Community Involvement