



EDGE X FOUNDRY™

# DevOps Working Group

Thursday June 13, 2019

# Agenda

Time	Topic	Owner
20 min	Edinburgh Release : Review Status / Discussion	James Gregg
20 min	Release Management: Semantic Versioning Process for releases	Lisa
10 min	Other Business Items	All
10 min	Opens	All

# Attendees

Participants (14)

Find a participant

JG	James Gregg (Intel) (Me, participant ID: 57)		
LR	Lisa Ranjbar (Intel)		
TC	Trevor Conn		
RH	Rodney Hess		
AF	Andrew Foster		
	Brandon Forster		
CH	Colin Hutchinson		
ER	Emilio Reyes		
	Eric Ball - Linux Foundation		
	Jacob Blain Christen (Intel)		
JW	Jim White		
LG	Lenny Goodell (Intel)		
R	robin		
SG	Samsung Galaxy S7 edge		



# EdgeX DevOps WG Update

- **Edinburgh Release**
  - **Code Freeze** – feature development complete but still can fix bugs
    - Moving to truck based deployment has different versions of services
    - When we cut branch early – we end up having to update both branches (known issue)
      - Harder to automate when cut early
      - Proposal to use tags differently and branch off of the tags
  - **Release Management Discussion**
    - Lisa's proposal (Option 1) reviewed
- **Updated Release Management Definition re: Applications Functions SDK / application services**
  - No issues and aligns to the new strategy Lisa is proposing
    - Will follow up with Jeremy P this week to review any additional concerns / gotchas and formalize the proposal which would need to be presented / reviewed by everyone in the community
- **Webmaster for EdgeX Edinburgh release v1.0 marketing content updates (WordPress) - Ernesto**
- **Clair scan for MongoDB**
  - What happens within a build if image is built and determined to contain Critical / High CVE?
    - Should it be pushed to Nexus? Should the build break without push to Nexus? Should the image be pushed to Nexus, but tagged to identify security risk?
- **Fuji Scope - Container Scanning (Clair Server landing request)**
  - LF Management response indicates resourcing will be communicated after scoping exercise is completed by EOW.
- **Codecov jobs not producing the reports so we need to look at the fix that was applied**
  - Deprioritize the device services jobs as they still have to land in holding and will need review before acceptance by TSC
  - Will look at pulling in the Codecov global library story in place of the other stories moving to the backlog

# Release Process Review

## Enumerate Services in Release

1. Simple list of all services that will be in the release.

## Release Process

### 1. Branch Cutting

- a. At some point before an official artifact release (at least 2 weeks). A release branch is cut from the master branch.
- b. The master branch version will be rev'd to the desired version of a feature branch.
- c. Only bug and security fixes can now make it into the release branch.
- d. Jenkins jobs will be instantiated for the release branch.

### 2. Official Release

- a. A leading representative from a partner organization will be required to sign off on the release. The following:
  - i. Email [helpdesk@edgexfoundry.org](mailto:helpdesk@edgexfoundry.org)
    1. Link to the release branch
    2. List of services to be released
    3. Release date (if known)
  - ii. The release branch is checked out and the artifacts are generated as requested and git tag the repository found at the sha checked out in the aforementioned Jenkins staging job.  
`git tag -a v$VERSION -m "Release $VERSION" edgexfoundry/$PROJECT_NAME`
- b. The release branch is merged back to master and the version of the project in the release branch in prep for next patch.

### 2. Generate a named release manifest

- This is the document which will enumerate each service and version that will be contained in a named release.

### 3. Individual service release

- Each individual service can release separately if they wish. If at any time a service is updated then we should also be sure to update the manifest.

Will be rewritten once Lisa has the formal process outlined

# Work Review

Helpdesk Ticket #	Description	Details	Status
75648	Dedicated Clair server for EdgeX	Pending decision on strategy for K8s + cost / availability of resources with LF	WIP (Brett Preston)
68377	failed job related to timeout waiting for SSH	Eric Ball follow up with the team that owns VEXHOST – no progress Issue is with building new arm images – doesn't affect edgex builds decision to leave it open for now.. Circle back with VEXHOST team	WIP (Eric) Possible look at using a different OS for the builds Proposal to use Ubuntu instead of Centos ARM image

# Backlog Review

edgexfoundry / ci-management

Code Issues 3 Pull requests 3 Projects 1 Wiki Security Insights

Tasks  
Updated 7 days ago

Filter cards

9 TODO

- Placeholder for snap global function in edgex-global-pipelines (FUJI)  
Added by Iranjbar
- Explore for SAST additional tooling (Vishwas)  
Added by jamesgregg
- QA / Test - placeholder for new robot framework implementation in Jenkins jobs.  
Added by jamesgregg
- update global-pipelines basebuild Docker image for go lang 1.12  
Added by jamesgregg
- codecov.io (FUJI)  
We could make a jjb builder macro that could be popped in on the job template. It would be the template level though so it would be a bigger scope than the one repo .  
Added by jamesgregg

2 In Progress

- LF Infrastructure Roadmap Request  
<https://jira.linuxfoundation.org/browse/REL-ENG-2035>  
Added by jamesgregg
- Clair Server landing - LF Infrastructure or AWS decision and architecture / \$\$ with TSC approval  
Added by jamesgregg

3 Test/QA/Verification/Review

- New Jenkins Pipeline Needed for : edgex-ui-clojure  
#388 opened by jamesgregg
- device-snmpp-go [new pipeline job] (@dweomer)  
#391  
[edgexfoundry/device-snmpp-go#7](#)  
[edgexfoundry/device-snmpp-go#10](#)  
[edgexfoundry/device-snmpp-go#11](#)  
#402  
Added by jamesgregg
- performance-testing (Cloud Tsai)  
edinburgh branch / code freeze  
Added by jamesgregg

49 Done

- device-virtual-go (@jamesgregg)  
edinburgh branch / code freeze  
#398 #401  
Added by jamesgregg
- device-sdk-go (@dweomer)  
edinburgh branch / code freeze  
#403  
Added by jamesgregg
- add edinburgh stream for device-sdk-go  
#403 opened by dweomer in edgexfoundry/ci-management  
Changes approved
- security-secret store (@Iranjbar)  
edinburgh branch / code freeze  
#400  
Added by jamesgregg

# Meeting Minutes

AR: Meet with Jeremy to review additional Jenkins release processes

- nightly jobs

AR: Lisa formalize the release process proposal / changes and present plan





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# Fuji Planning

Scope Discussions

# Fuji – DevOps

## In

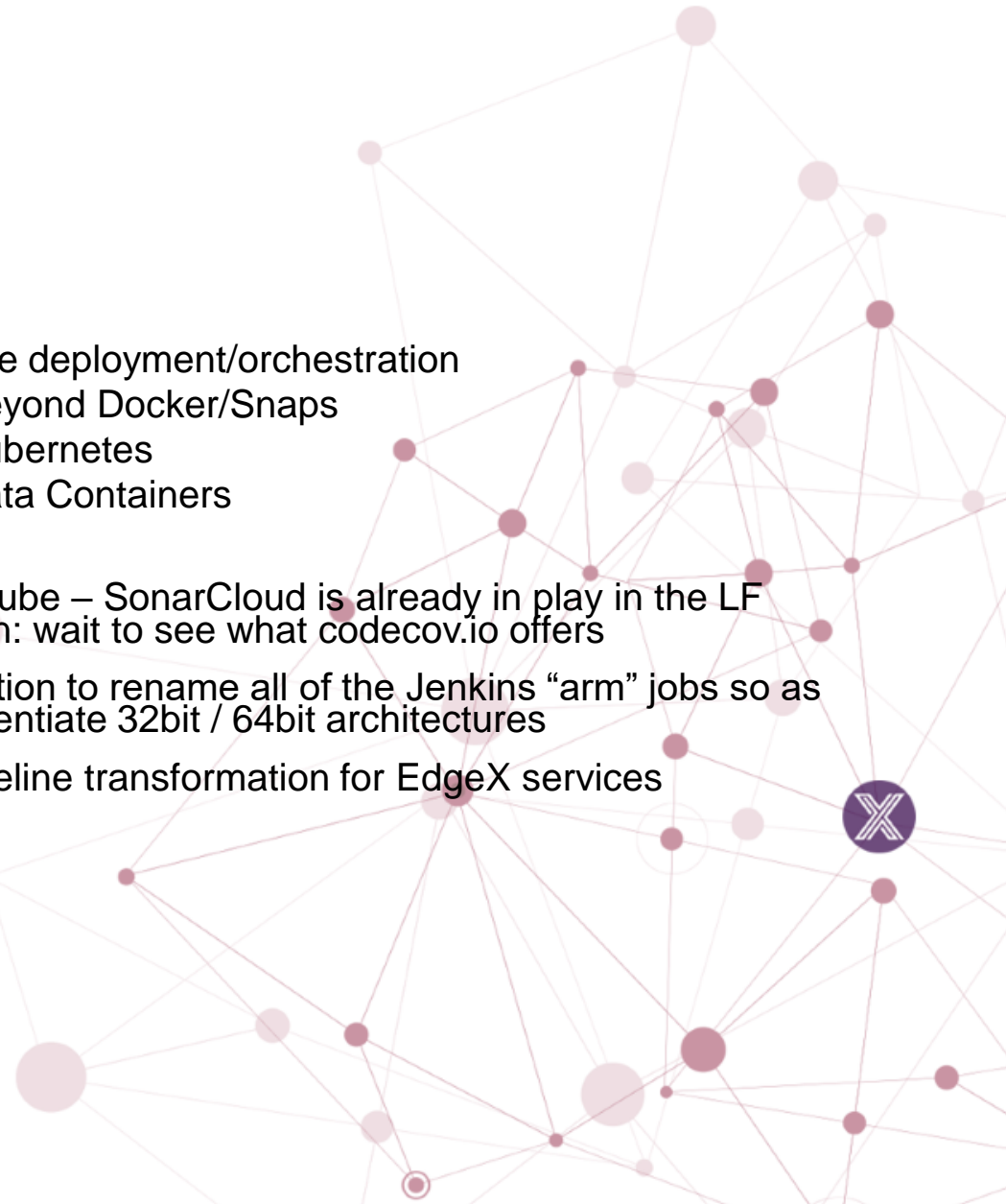
- Static code analysis tool identified and integrated into the EdgeX Jenkins Pipeline for Docker image scanning (Clair Server)

Explore SAST for true static code analysis to include additional tooling such as Fortify / Coverity

- Code and artifact signing with semantic versioning
- Fix Documentation – edgex-go
  - Create a new repo for edgex-docs
- Build Performance Optimizations
  - Pipelines for EdgeX Foundry base build images
  - Basebuild images managed locally within Nexus
  - Leverage PyPi Proxy for local pip dependencies
  - ARM builds – optimization leveraging different high CPU build nodes / OS (ARM Team)

## Out

- Alternate deployment/orchestration
  - Beyond Docker/Snaps
  - Kubernetes
  - Kata Containers
  - ...
- SonarQube – SonarCloud is already in play in the LF Decision: wait to see what codecov.io offers
- Suggestion to rename all of the Jenkins “arm” jobs so as to differentiate 32bit / 64bit architectures
- Full Pipeline transformation for EdgeX services





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# Edinburgh Release

Release Planning

# Edinburgh Dates

- Freeze Date – May 28
- Release Date – June 20





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# Future Agenda Topics

WW14	Documentation migration – edgex-go user documentation
WW14	Topics for Fuji F2F Jenkins Pipelines for EdgeX services
WW15	Review Aqua Microscanner – Image scanning tool for Vulnerabilities
WW16	NVIDIA – Security tooling within CodePipeline (Trevor request) 4/18/19
WW17	
WW18	
WW24	
WW	
	<a href="#">Athens Project</a> – proxy server for go package dependencies
	Community Involvement