



EDGE X FOUNDRY™

DevOps Working Group

Thursday July 25, 2019

Agenda

Time	Topic	Owner
10 min	Edinburgh : Dot Release Update	James Gregg / Eric Ball / Jim White
10 Min	Fuji Update	James Gregg
10 min	Other Business: Multiple Topics	James / Trevor / Jim White
10 Min	Opens	All

Attendees

Participants (11)

Find a participant

- JG James Gregg (Intel) (Me, participant ID: 5)
- ER Emilio Reyes (Intel)
- CT Cloud Tsai
- E Ernesto
- Jacob Blain Christen (Intel)
- J Jeremy_Phelps
- JW Jim White (Dell)
- LG Lenny Goodell (Intel)
- R Ricardo
- TC Trevor Conn
- V(Vishwas (Intel)

Hand icon, Green checkmark, Red X, Left arrow, Right arrow, More options



EdgeX DevOps WG Update (Edinburgh Dot Release)

Edinburgh Dot Release (1.0.1)

What's left to wrap up this dot release?

- Need to check the ARM version and non-ARM version to ensure they both get pushed to Docker Hub
- The system management service PR will merge and once built, needs to be pushed to Docker Hub

Decision: TSC Meeting voted and Approved on 7/17
Planned Release now scheduled for 7/22

DevOps WG Update

- **Fuji Scope**
- Performance Optimizations – Ernesto optimized the Pipeline jobs (does all the post build actions in about 20 seconds, down from 1m40s-2m)
 - Added a User story to do the same optimization for the Freestyle jobs in this Sprint
- Container Scanning (Clair Server landing request) has now been committed to by Linux Foundation with resources planned and funding approved for hosting on AWS.
 - Expected Completion: Next Week
- Static Code Analysis Tools
 - Plan to review output of tools
 - Checkmarx - DONE
 - Snyk - WIP
 - Coverity
 - SonarQube / SonarCloud
 - Added a User Story in this Sprint to complete the analysis and produce reports for review in Security WG
- GitHub repo audit completed and actions taken to address empty repos
 - Review Repo Owners / Teams
- Review of the Linux Foundation Infrastructure as Code re: Performance Testing completed
 - Meeting with Jordan Conway 7/23
 - Jordan modified the EB implementation – scale up to single t3.xlarge
 - EBS disk change not implemented at this time
 - May decide to architect a new solution based off of the Clair server architecture
 - Request to QA-Test WG to “hammer away” and report back on performance observations
 - Will see how well it works over the weekend (Saturday)

Other Business: Topic 1

Holding Repo Committer Access Requests (James)

- **Holding Repo Committer Access Requests**
 - Need to submit change requests using new JSD process, not email
 - Need to submit the request using the proper request type
 - Need to update the [wiki](#) to reflect the proper change request process
 - Proposed change to verbiage on the [wiki](#) will reflect that requests made for committers to holding repos, do not require TSC approval and that the working group chair may request permission changes to holding repos via JSD ticket submission.

Welcome to the Help Center

What do you need help with?



Popular

Product Support

Project Services

Browse all

Recent



Committer rights · Project Services

I need committer rights



Request a change to an existing serv... · Project Services

No description



Additional permissions · Project Services

Request additional access or permissions



Release Artifacts · Project Services

I need to release my artifacts

Seeking TSC approval for an amendment to the wiki to explicitly state that approval from one WG lead is enough to get someone added to the holding repo.

Other Business: Topic 1

Holding Repo Committer Access Requests (James)

Your request status changed to **Waiting for customer**. 7 hours ago



Andrew Grimberg 8 hours ago
James Gregg,

Please use the proper request type for committer rights in the future. There is an issue specifically for committer rights vs the 'Additional Permissions' issue type that you used. That issue type asks for everything we need. Instead, we're now forced to ask for the authorizing information.

We *require* some sort of TSC / Governing body approval link (mailing list link to minutes or minutes link) for committer rights. If there is a reason that the governing body does not need to approve committer rights for a repository then a link to *that* is required.

Details 8 hours ago

Project
EdgeX Foundry

Approval links

Please add Vishwas to the committers on these two holding repos:
edgexfoundry-holding/edgex-taf-common edgexfoundry-holding/regression-test
GitHub ID: vishwassp-hcl-intel

- Decision
 - Jim will draft the updated policy and circulate for TSC approval.

Other Business: Topic 2

Repo Ownership / Teams (Jim White)

- Repo Ownership / Teams
- What do we want our ownership policy to be for repo?
 - When we have multiple chairs listed, who would own?
 - What about go modules?
- Original requestor of a repo would be de-facto owner (most likely wg chair)
- Device / App service from 3rd party would be owned by the wg chair once transferred out of holding to main Org
- Need to take audit to the TSC for review

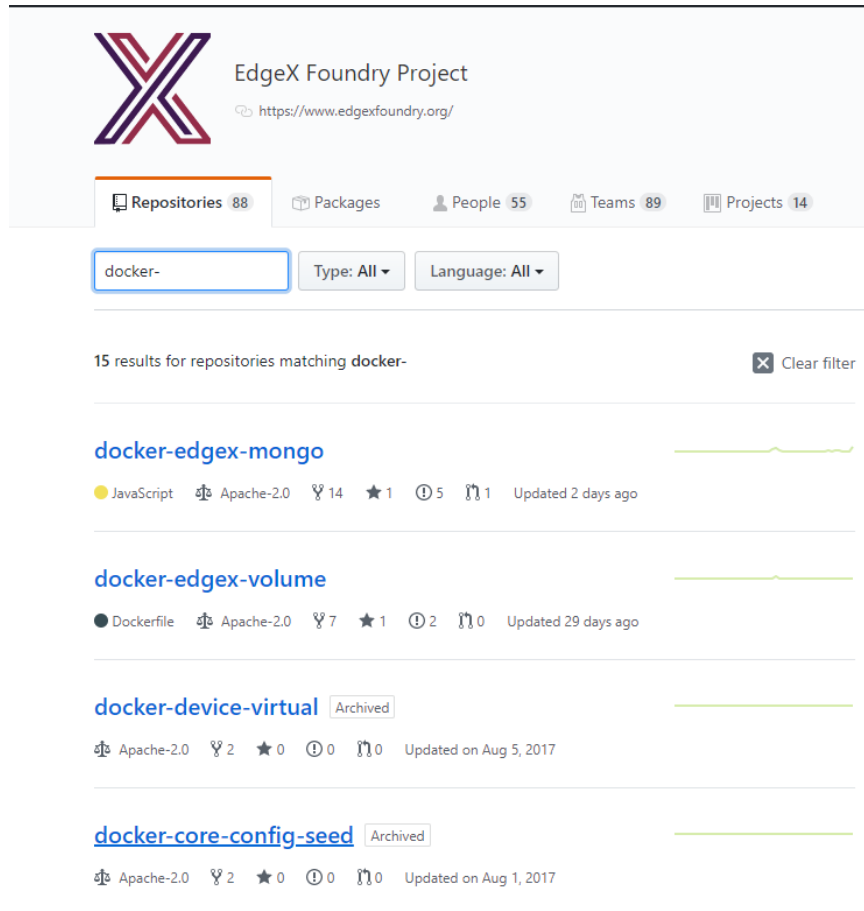
Other Business: Topic 3

API Endpoints (Trevor)

- API Endpoints
- `~/Documents/code/git/tsconn23/edgex-go $ git describe`
- fatal: No tags can describe '9b423a24532468bb1930ea6ffe9af800680590aa'.
- Try `--always`, or create some tags.
- Consul
- Jq
 - Decision: Jacob will send some examples to core list for review

Other Business: Topic 4

“docker-” naming convention for release artifacts



The screenshot shows the EdgeX Foundry Project repository search results for the query "docker-". The search results are filtered to 15 results. The top results are:

- docker-edgex-mongo**: JavaScript, Apache-2.0, 14 forks, 1 star, 5 issues, 1 pull request, updated 2 days ago.
- docker-edgex-volume**: Dockerfile, Apache-2.0, 7 forks, 1 star, 2 issues, 0 pull requests, updated 29 days ago.
- docker-device-virtual**: Archived, Apache-2.0, 2 forks, 0 stars, 0 issues, 0 pull requests, updated on Aug 5, 2017.
- docker-core-config-seed**: Archived, Apache-2.0, 2 forks, 0 stars, 0 issues, 0 pull requests, updated on Aug 1, 2017.

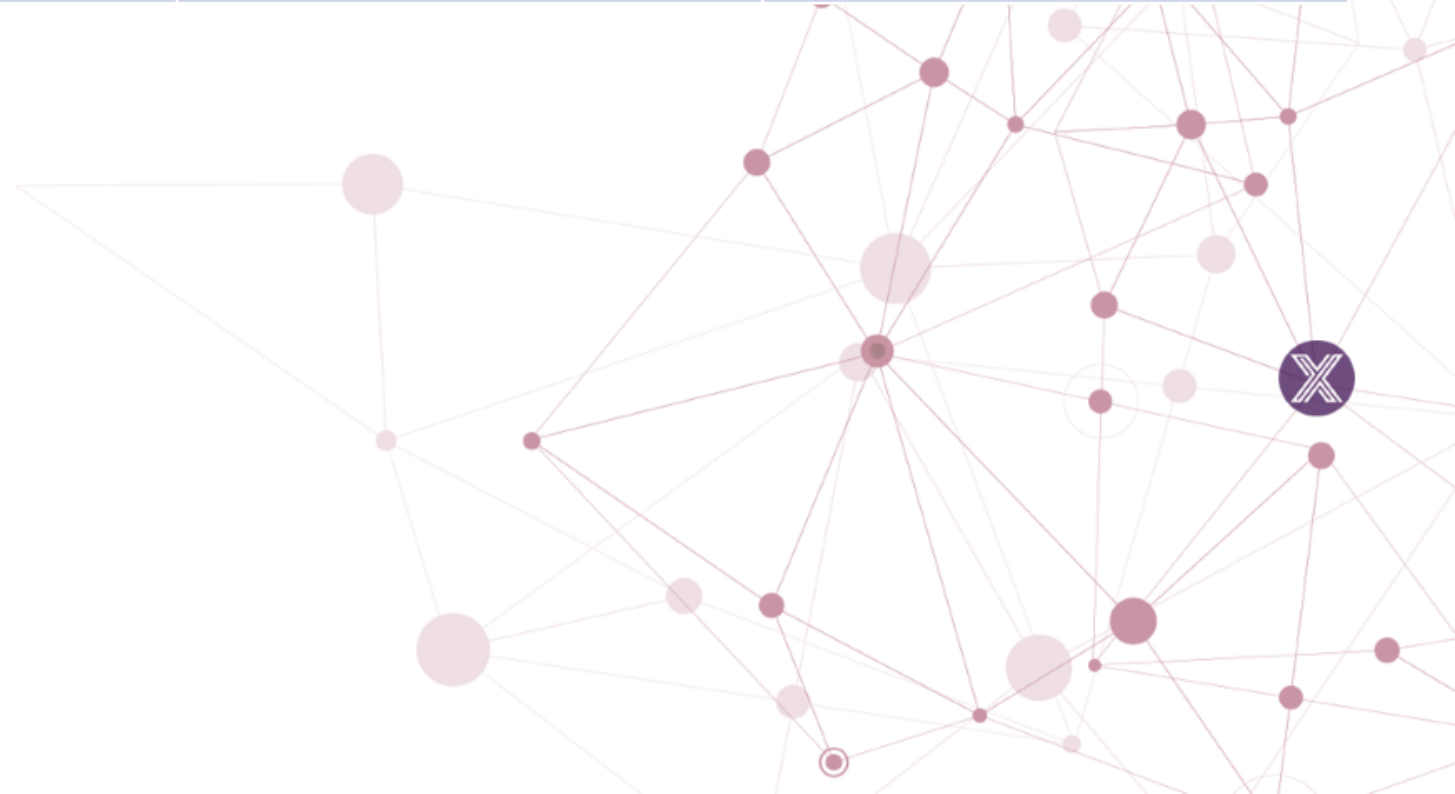
- Discussion

- Decision

- Keep the prefix for now
- Revisit at time of Fuji Release
- There is a need to standardize for other services such as the mongo and volume services
- Revisit with community feedback

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



Backlog Review

EdgeX Foundry Project

Repositories 88 Packages People 55 Teams 89 Projects 14

DevOps WG Updated 6 hours ago

Filter cards Add cards Fullscreen Me

Icebox

- regex for isReleaseStream is overly broad
edgex-global-pipelines#26 opened by dweomer
- Snap builds should use unbuffer for better output logging
ci-management#369 opened by anonymouse64
- edgeXSemver leaves command to caller but doesn't allow specifying the version/image to use
edgex-global-pipelines#15 opened by dweomer **bug**

New Issues

- Slack integration with Jenkins Pipeline for Clair reporting.
ci-build-images#54 opened by jamesgregg
enhancement
Geneva
- New build automation for device-bacnet-c
ci-management#451 opened by jamesgregg
enhancement fuji
Fuji
- Update snapcraft inside docker to use new setup from snapcraft
ci-management#449 opened by anonymouse64
enhancement
- New Build Automation needed for application-service-configurable
ci-management#447 opened by jamesgregg
enhancement fuji
Fuji
- New build automation needed for

Automated as To do Manage

Release Backlog

- Delete repo - jenkins_pipeline_presentation (FUJI)
edgex-global-pipelines#32 opened by jamesgregg
- https://github.com/edgexfoundry-holding/go-mod-core-security ON-HOLD (FUJI)
May not be needed - Trevor will check and advise
Added by jamesgregg
- Placeholder for snap global function in edgex-global-pipelines (FUJI)
US4581
US4580
Added by jamesgregg

In Progress

- Clair Server landing - LF Infrastructure or AWS decision and architecture / \$\$ with TSC approval (@jamesgregg)
ci-management#439 opened by jamesgregg
enhancement fuji
Fuji

QA/Code Review

- WIP: Add sigul signing to golang binaries
ci-management#318 opened by JPWKU
- Changes requested

Automated as In progress Manage

Meeting Minutes

James to update the Excel spreadsheet for the GitHub Holding Repo Audit and share once completed. – DONE

Jim will send updated policy out for TSC approval – DONE
See discussion and email list for review.

Jacob to send the examples for review - DONE

Edinburgh Retrospective

What went right?

- Communication of when the release was scheduled, was very clear.
- LF and DevOps team cooperating together seemed to work well but with pressure added on top of everyone
- Most artifacts were ready to release in the beginning. It didn't seem like every repo was affected with issues (no extra work)
- Edinburgh Staging view was very helpful
- Great communication and collaboration between Intel DevOps team members and great prioritization
- Prioritization and Organization of the work (assignments and splitting up the work early on in the code release) was helpful

What went wrong?

- EdgeX-UI repos were late code drop
- Lack of a UI WG
- Communication around details was lacking from WG leads
- Need clear definition and understanding from WG leads that have different / independent release cycles
- JSD was introduced in the middle of the release and introduced issues that impacted communications with LF RE
- Availability and Competing priorities of Eric Ball / RE impacted release work
- Branches cut early caused extra work for both developers and DevOps

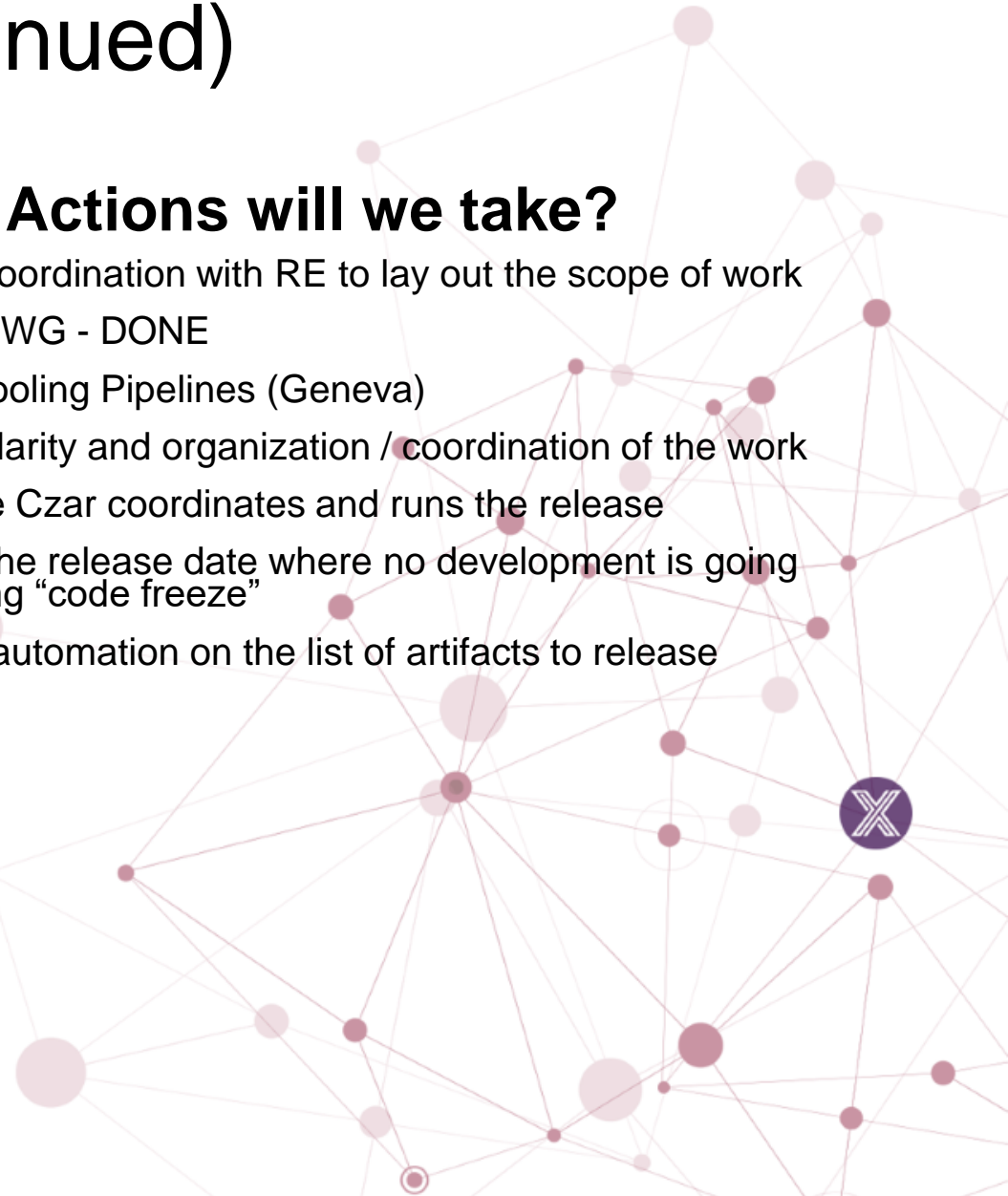
Edinburgh Retrospective (continued)

What Ideas would help next time?

- Jenkins Pipelines branch defined in Jenkinsfile
- Do Not cut the branch early
- Release from master
- Don't allow PRs to master during code freeze (unless bug fix)
- Release Czar manages the release and acts as coordinator
- Need better visibility as to WIP during release. What does DONE look like?
- Set clear expectations for FUJI ahead of time
- Have a solid and well defined scope for executing the release.
- Shorten the release timeframe
- Actually Freeze Code
- Don't pull in late code drops

What Actions will we take?

- Better coordination with RE to lay out the scope of work
- New UI WG - DONE
- Better tooling Pipelines (Geneva)
- Better clarity and organization / coordination of the work
- Release Czar coordinates and runs the release
- Shrink the release date where no development is going on during "code freeze"
- Create automation on the list of artifacts to release





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Fuji Planning

Scope Discussions

Fuji – DevOps

In

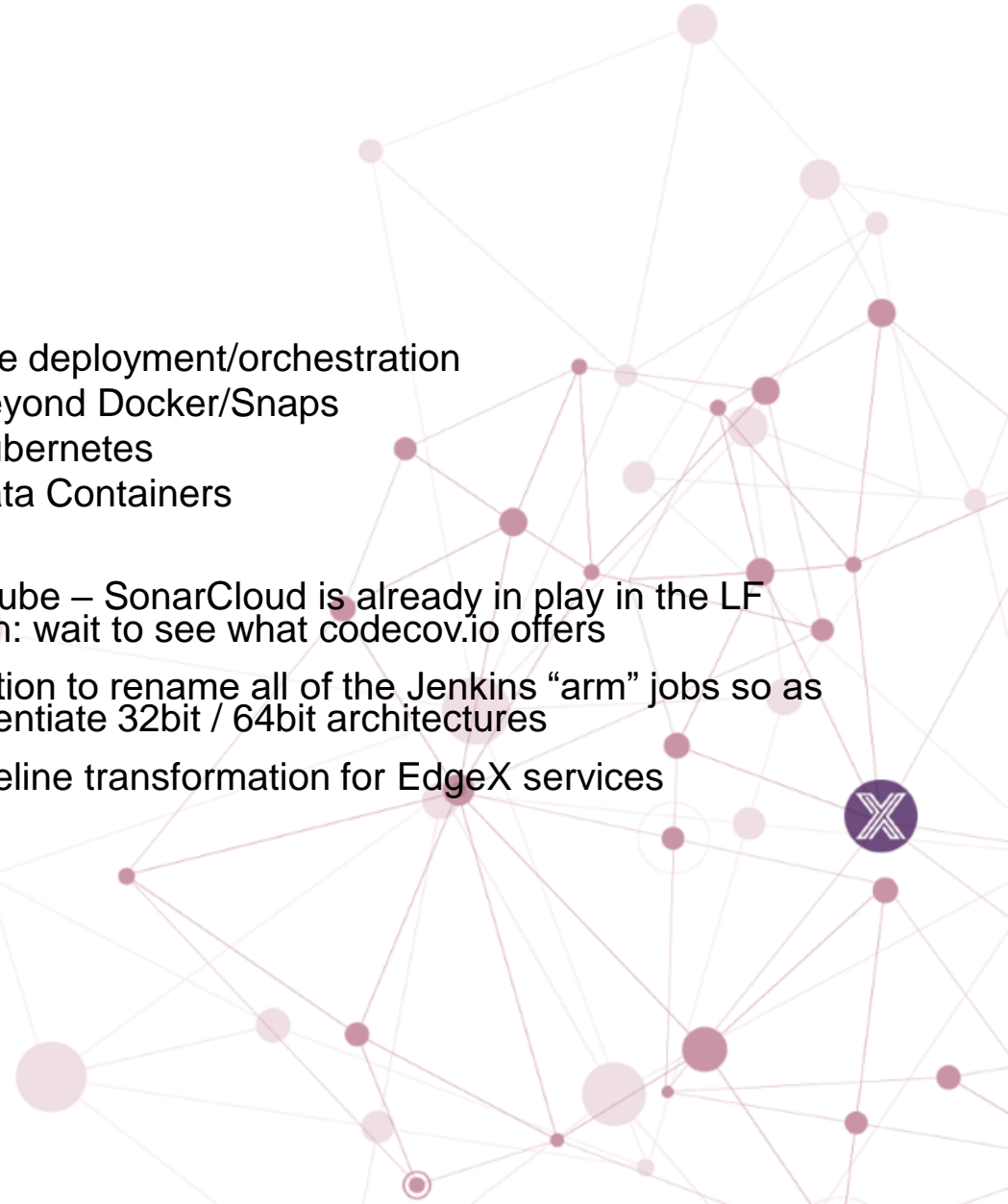
- Static code analysis tool identified and integrated into the EdgeX Jenkins Pipeline for Docker image scanning (Clair Server)

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



EdgeX DevOps Commitments (Fuji)

Scope of Work	
Add static artifact analysis into the EdgeX Jenkins Pipeline (analysis of Docker /runtime artifacts, not the source code)	
Add code and artifact signing with semantic versioning	
Conduct build performance optimizations by: <ul style="list-style-type: none"> • Adding Pipelines for EdgeX Foundry base build images • Allow base build images to be managed locally within Nexus • Leverage PyPi Proxy for local pip dependencies 	
Explore static code analysis like Checkmarx, Coverity, GuardRails, Synk, SonarQube	

- Clair Server landing no longer at risk for Fuji
 - LF committed to implement on AWS and fund with expected completion next week
- gitsemver along with lftools used for artifact signing and semantic versioning
- Jenkins build performance optimizations for base build images completed
- All base build images will now be stored in Nexus (Snapshot):10003
- PyPi enabled as part of Edinburgh scope
- Initial review of GuardRails showed that the product was identifying issues which were not applicable for microservices architecture



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Edinburgh Release

Release Planning

Edinburgh Dates

- Freeze Date – May 28
- Release Date – June 20
- Press Release – July 11
- Dot Release – July 22





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Past / Future Agenda Topics

WW27	No Meeting – US Holiday
WW28	
WW29	
WW30	
WW31	
WW32	
WW33	
WW34	
WW35	
	Athens Project – proxy server for go package dependencies
	Community Involvement