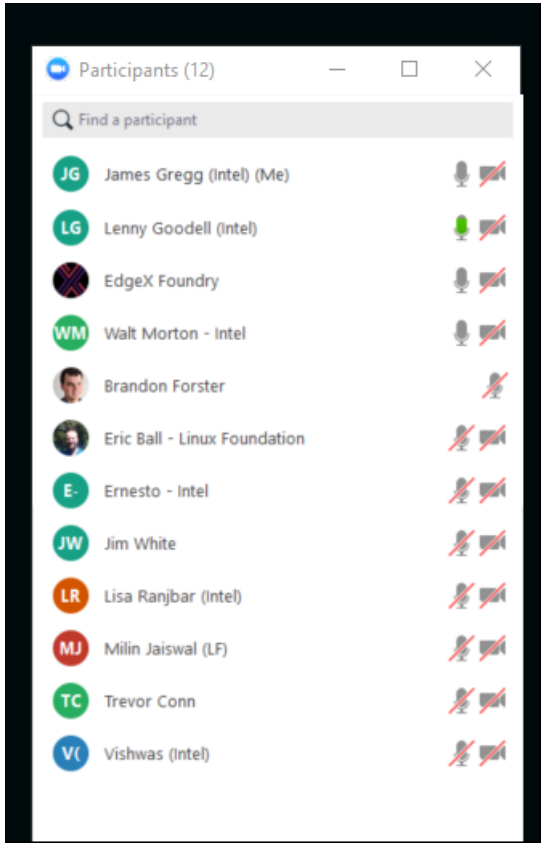
DevOps Working Group

Thursday April 4, 2019

Agenda

Time	Topic	Owner
10 min	Work Review (GitHub Project)	James Gregg
10 min	Edinburgh Release Dates	James Gregg
10 min	Fuji Planning Discussion	James Gregg / Jim White
10 min	Performance Testing / PR #9	Andy Foster / Cloud Tsai
10 min		
	Opens	All
Attendees:		

Attendees


Participants (12)
Find a participant
JG James Gregg (Intel) (Me)
LG Lenny Goodell (Intel)
EdgeX Foundry
WM Walt Morton - Intel
Brandon Forster
Eric Ball - Linux Foundation
E- Ernesto - Intel
JW Jim White
LR Lisa Ranjbar (Intel)
MJ Milin Jaiswal (LF)
TC Trevor Conn
V(Vishwas (Intel)

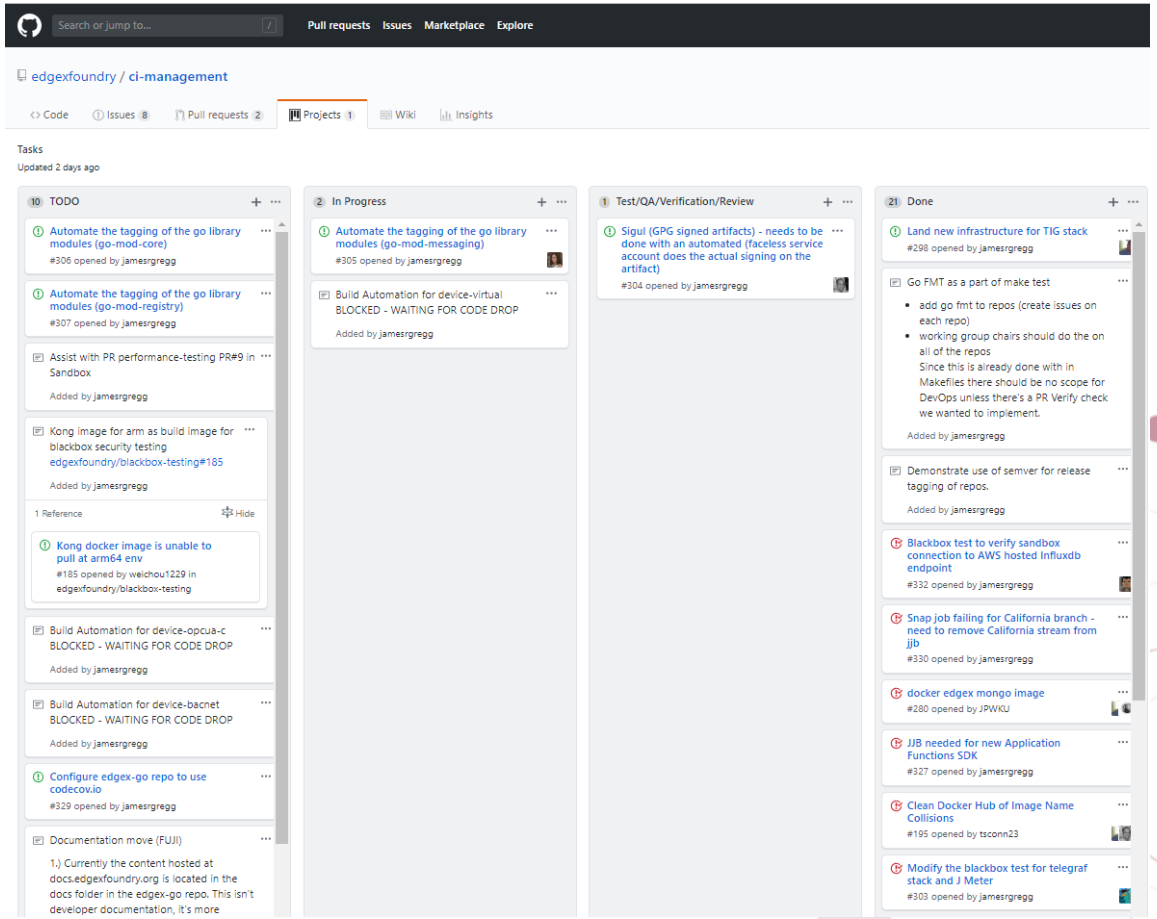
Work Review

Helpdesk Ticket #	Description	Details	Status
70277	security model for EdgeX TIG Stack Grafana Administrators	Need to follow up with Jordan	FIXED
70476	Sandbox access for FelixTing	FelixTing is working on device-virtual-go and will be setting up the Jenkins job for the service	FIXED
70528	Move 2 repos out of holding	After TSC approval, git-semver and edgex-global-pipelines repos moved out of holding	FIXED
69830	codecov.io config needed for edgex-go repo	On Hold - See 69422	WIP
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

Work Review (continued)

Helpdesk Ticket #	Description	Details	Status
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. *This work is prioritized over codecov.io integration.* Note: Needed in to test full Jenkins Pipeline for release automation user story – should be getting an update next Thursday In review now, needs to be tested in sandbox, git tag signing. Sample-Service can be used for demo. Lisa and Eric to pair and get this set up in Sandbox.	WIP
69600	jenkins docs job fails for /edgex-go-docs-delhi-stage-docs lftools: command not found	Broken Builds for Delhi Documentation – as reported by Michael Hall – ISSUE identified with lftools – Still seeing issues as of 3/20/19 Decision: Root Cause Analysis – plan to have this fixed with release for next Thursday Help Needed – Works in Sandbox but not production - needs an extra set of eyes to look at this issue.	WIP

Backlog Review



Meeting Minutes

- Jim will help to coordinate someone from ARM to help us take a look at the performance problem Trevor reported with the ARM builds taking longer than the non-ARM builds
- Trevor recommends we ask a guest speaker to present to us what NVIDIA is doing with regards to some of the additional security validation processes they use which take advantage of some OSS tooling. Stay tuned for future agenda topic in either Security or DevOps WG meetings
- Lisa has the go-mod-messaging job set up in the Sandbox. We can use that job to test the lftools enhancements to sigul.
- Help Needed from LF to get some focus on the failed builds for documentation (Delhi Release).

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EdgeX DevOps Discussion

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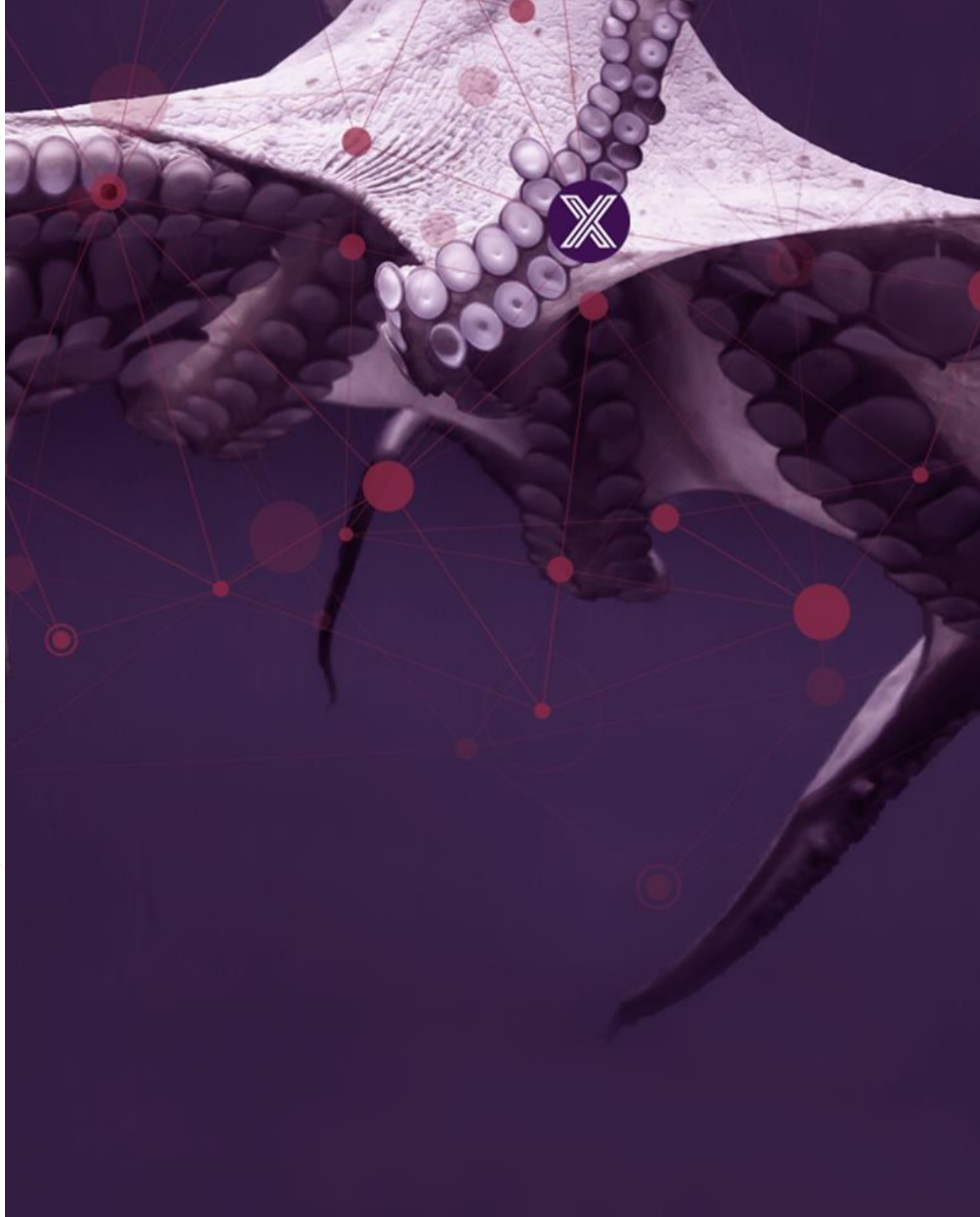

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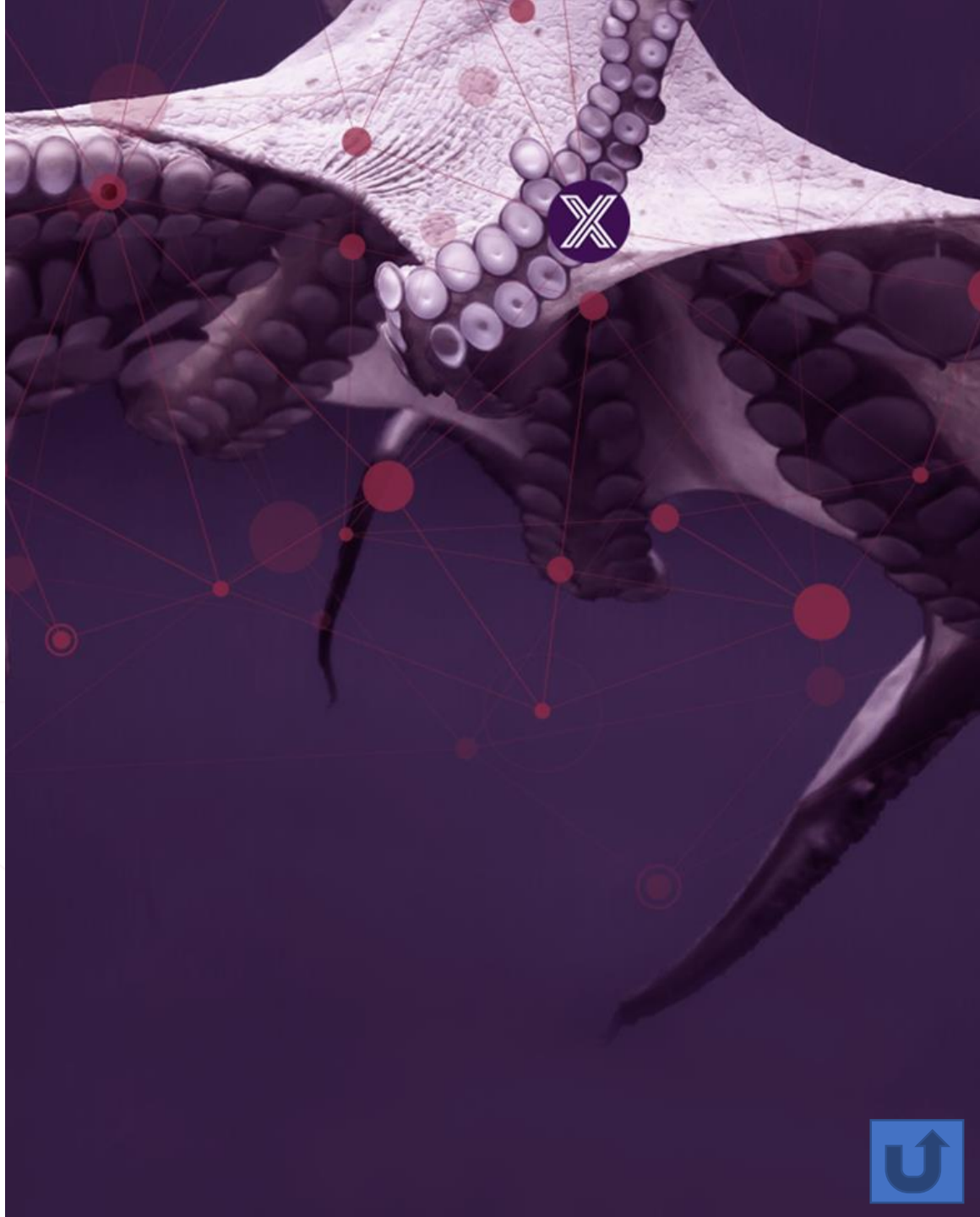

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Edinburgh Release

Release Planning

Edinburgh Dates

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

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Fuji Planning

Scope Discussions

Proposed Fuji – Test/QA/Documentation

In

- More unit tests everywhere (better coverage)
- More black box tests
- Automated system level latency and throughout testing (e.g. device read to export or device read to analytics to device actuation)
- Automated Device Service testing (functional and performance for each Device Service e.g. Modbus DS)
- Propose additions???
- - performance testing
- -

Out

- Configuration testing
  - Existing testing uses a single static configuration
  - Need to identify and add additional testing configurations to automated blackbox testing
- Tracing
  - During testing, configuration
  - Candidate tools/technology based on OpenTracing standard: Zipkin, Jaeger
- Propose additions???

Proposed Fuji Planning – DevOps

In

- Static code analysis
- Code and artifact signing
  (covered in Edinburgh with sigul enhancements)
- Go Code formatting check – REMOVE
  (Worked into the developer flow)
- Propose additions???
- Pipeline transformation for EdgeX services
  - prioritize what gets worked in Fuji since it will be a smaller release
- - basebuild docker images published to Docker Hub
- SonarQube – SonarCloud is already in play in the LF
- Additional Performance Testing
- Fix Documentation
- Technical Debt ?? – James – take a look at the wiki
- Performance Issues (network timeouts) arm vs. non-arm builds
  (Verify jobs take a long time to start)

Out

- Alternate deployment/orchestration
  - Beyond Docker/Snaps
  - Kubernetes
  - Kata Containers
  - …
- Propose additions???

Backlog Review

- What else do we need to consider?
  - Backlog review
    - https://wiki.edgexfoundry.org/display/FA/Backlog
  - Edinburgh Roadmap review (what did we not get done)
    - https://wiki.edgexfoundry.org/display/FA/Edinburgh+Release
- New additions/opens
  - Jenkins Pipelines will require basebuild Docker images
  - Real performance testing will require dedicated physical hardware set up on a lab so that the EdgeX stack (microservices) are orchestrated to the different appliances
    - Need physical hardware and physical location for real testing

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Future Roadmapping

Beyond Fuji

Future Roadmaps

- What moves to Geneva
  - What's the major theme(s) for spring release
- Do we have plans for Hanoi
- What are some big rocks we want to set out as markers for the nex few releases

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Future Agenda Topics

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