



EDGE X FOUNDRY™

DevOps Working Group

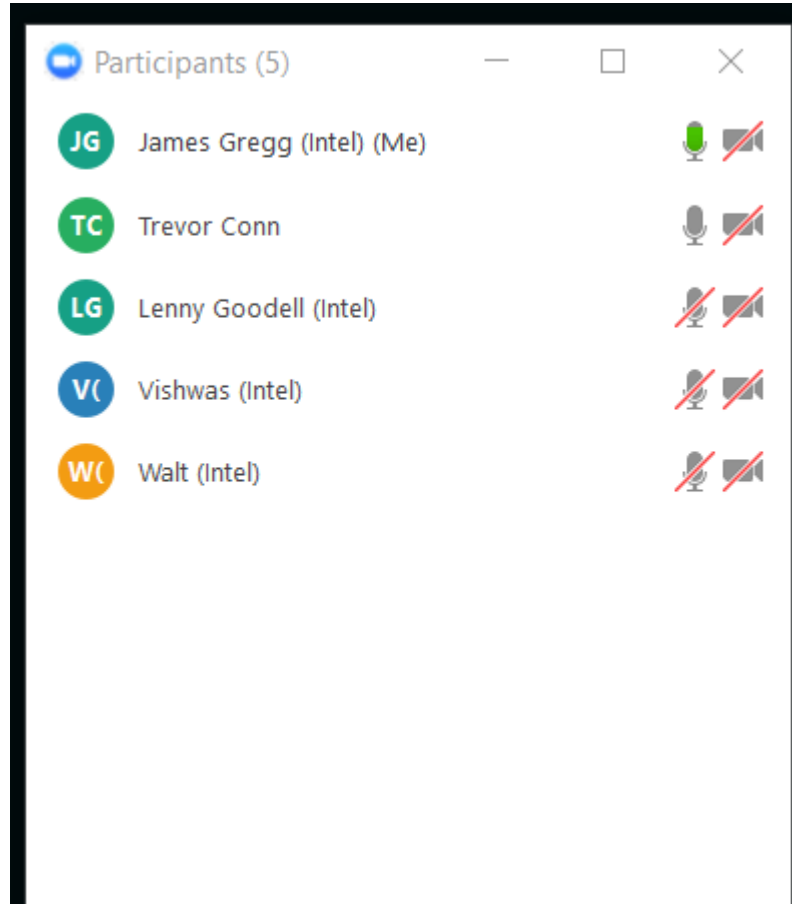
Thursday April 25, 2019

Agenda

Time	Topic	Owner
10 min	Work Review (GitHub Project)	James Gregg
5 min	Backlog Review	James Gregg
5 min	Performance Testing – Status Check	Andy Foster / Cloud Tsai
	Opens	All

Attendees: James

Attendees



Work Review

Helpdesk Ticket #	Description	Details	Status
69830	codecov.io config needed for edgex-go repo	Sigul enhancements should take priority over this work if LF resources are constrained	WIP (Eric)
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
71119	need to extend sigul to include additional functionality – bugs identified with lftools / sigul	– sigul enhancements included in release last Thursday LFTOOLS release v0.23.1 Lisa identified some defects	New (Eric)
71025	TIG Performance Issues identified during testing on Sandbox	Tests are working in Sandbox but introduced OMM problems with AWS hosted TIG stack Redeployed the solution LF Infrastructure team engaged to resize the instances.	WIP (Jordan)
71084	Enable PyPI for EdgeX Jenkins caching of python dependencies	SPIKE to see what it would take to enable the PyPI Proxy for caching dependencies on Nexus	WIP (initial spike completed by Eric)

Backlog Review

edgexfoundry / ci-management Unwatch

Code Issues 8 Pull requests 3 **Projects 1** Wiki Insights

Tasks
Updated 6 days ago

Filter cards

9 TODO

- Configure edgex-go repo to use codecov.io
#329 opened by jamesgregg
- Automate the tagging of the go library modules (go-mod-core)
#306 opened by jamesgregg
- Automate the tagging of the go library modules (go-mod-registry)
#307 opened by jamesgregg
- Build Automation for device-opcua-c
BLOCKED - WAITING FOR CODE DROP
Added by jamesgregg
- Build Automation for device-bacnet
BLOCKED - WAITING FOR CODE DROP

5 In Progress

- Automate the tagging of the go library modules (go-mod-messaging)
#305 opened by jamesgregg
- Kong image for arm as build image for blackbox security testing
edgexfoundry/blackbox-testing#185
Added by jamesgregg

1 Reference Hide

- Kong docker image is unable to pull at arm64 env
#185 opened by weichou1229 in edgexfoundry/blackbox-testing
- SPIKE: Investigate use of PyPi Proxy in Nexus cache for python dependencies

2 Test/QA/Verification/Review

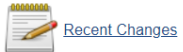
- Assist with PR performance-testing PR#9 in Sandbox
 - Move repo out of holding to main edgexfoundry org
 - Settings files set for production environment
Added by jamesgregg
- new holding repo /ci-snaps-common
Added by jamesgregg

22 Done

- SPIKE: Investigate use of PyPi Proxy in Nexus cache for python dependencies
#343 opened by jamesgregg
- new repo for create in holding
Added by jamesgregg
- Build Automation for device-bacnet
Added by jamesgregg
- Sigul (GPG) be done with service account signing on
#304 opened by jamesgregg
- Root Cause

Performance Testing

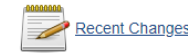
Pipeline performance-testing-master



Stage View

	Start EdgeX Client	== EdgeX Host 1 ==	== EdgeX Host 2 ==	== EdgeX Host 3 ==	before test	== Start Test - JMeter ==	Shutdown container	== Clean edgeX Host 1 ==	== Clean edgeX Host 2 ==	== Clean edgeX Host 3 ==
Average stage times:	121ms	2min 3s	1min 46s	1min 46s	74ms	63ms	97ms	193ms	205ms	170ms
#5 Apr 10 01:41 No Changes	82ms	2min 24s failed			50ms failed	59ms failed	97ms	135ms failed	138ms failed	148ms failed
#4 Apr 10 01:30 No Changes	123ms	2min 30s failed			172ms failed	101ms failed	108ms	112ms failed	121ms failed	169ms failed
#3 Apr 10 01:25 No Changes	97ms	1min 44s failed	1min 44s failed	1min 44s failed	51ms failed	45ms failed	88ms	173ms failed	172ms failed	151ms failed
#2 Apr 10 01:23 No Changes	111ms	1min 39s failed	1min 39s failed	1min 39s failed	54ms failed	57ms failed	75ms	142ms failed	180ms failed	185ms failed

Pipeline performance-testing-master



Stage View

	Run Test	== EdgeX Host 1 ==	== EdgeX Host 2 ==	== EdgeX Host 3 ==	== Start Test - JMeter ==
Average stage times: (Average full run time: ~9min 46s)	106ms	9min 40s	10min 21s	10min 21s	9min 33s
#50 Apr 17 09:42 No Changes	102ms	7min 22s			7min 22s
#49 Apr 16 18:45 No Changes	95ms	7min 31s	7min 35s	7min 31s	7min 30s
#48 Apr 16 18:14 No Changes	115ms	7min 27s	7min 15s	7min 13s	7min 12s
#47 Apr 16 18:02 No Changes	89ms	7min 59s	7min 49s	7min 55s	7min 45s

Parallel Processing where 3 nodes are spawned from the Pipeline – each pulling down Edgex stack and performing the jmeter test scripts

Meeting Minutes





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Fuji Planning

Scope Discussions

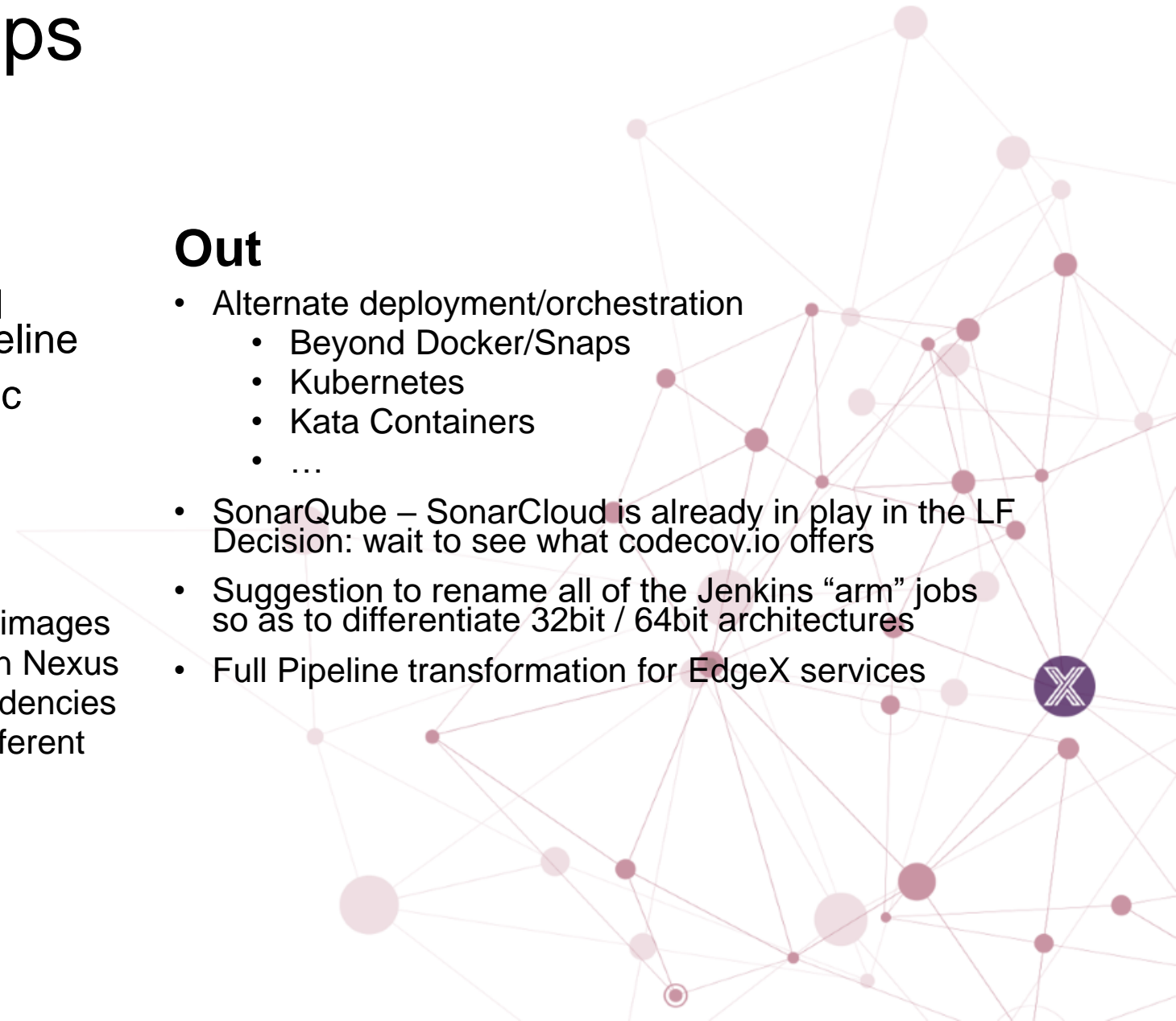
Fuji Planning – DevOps

In

- Static code analysis tool identified and integrated into the EdgeX Jenkins Pipeline
- 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



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
 - DevOps Backlog
 - <https://github.com/edgexfoundry/ci-management/projects/2>



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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	
	Demo of WhiteSource
	Athens Project – proxy server for go package dependencies
	Community Involvement