



EDGE X FOUNDRY™

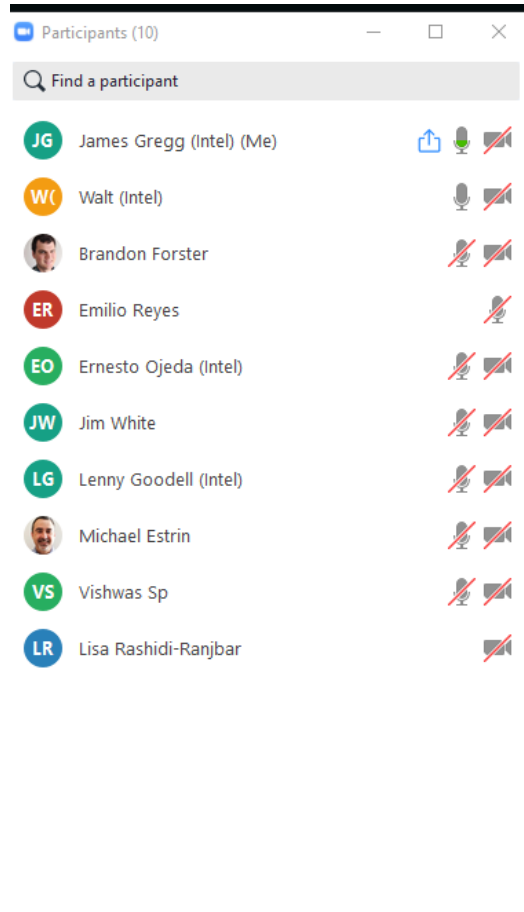
# DevOps Working Group

Thursday January 09, 2020

# Agenda

Time	Topic	Owner
5 Min	DevOps Updates	James
10 Min	Jenkins Production Stability Issues	Eric Ball
20 Min	Backlog Review / Grooming	All
10 Min	Commit Linter Explore	James
10 Min	Opens	

# Attendees



Participants (10)

Find a participant

- JG James Gregg (Intel) (Me)
- W( Walt (Intel)
- Brandon Forster
- ER Emilio Reyes
- EO Ernesto Ojeda (Intel)
- JW Jim White
- LG Lenny Goodell (Intel)
- Michael Estrin
- VS Vishwas Sp
- LR Lisa Rashidi-Ranjbar

The screenshot shows a Zoom meeting window with a list of 10 participants. Each participant's name is preceded by a circular icon containing their initials. To the right of each name are icons for video, audio, and chat, some of which are crossed out with a red slash, indicating they are disabled. The window title is 'Participants (10)' and there is a search bar at the top with the text 'Find a participant'.



# DevOps WG Update

## Geneva

- Jenkins Environment
  - Recent outages – instability of the Jenkins environment
    - Network problem caused Jenkins init script to not execute properly (01/03/2020)
    - Openstack network controller problem (01/06/2020)
    - Sandbox environment hung up – network issues (01/08/2020)

## Openstack network controller problem

Incident Report for The Linux Foundation

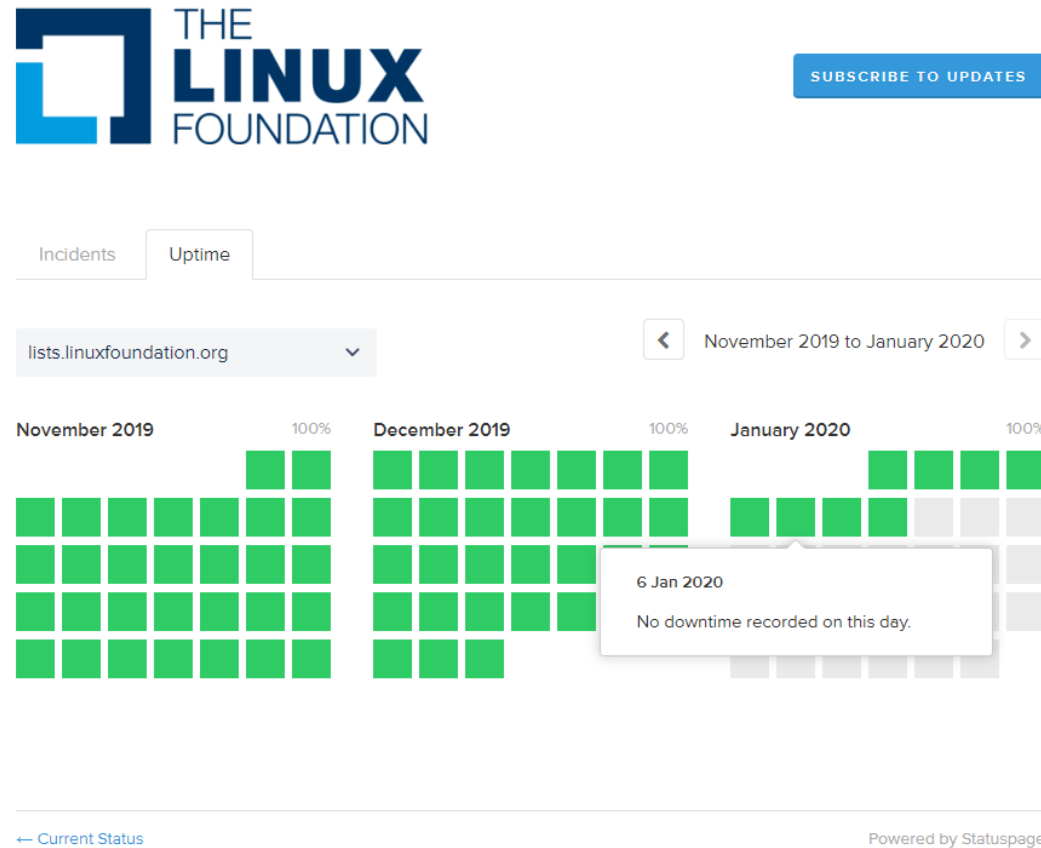
<b>Resolved</b>	This incident has been resolved. Posted 2 days ago. Jan 06, 2020 - 20:04 UTC
<b>Monitoring</b>	The fix has been implemented and service is recovering Posted 2 days ago. Jan 06, 2020 - 19:19 UTC
<b>Identified</b>	Our openstack cloud provider is having issues with network controller and that affects our CI openstack infras across all projects. We're working with provider to fix the issue Posted 2 days ago. Jan 06, 2020 - 18:58 UTC

This incident affected: Core Infrastructure - YUL.

← Current Status

Powered by Statuspage

# Jenkins Environment – Uptime Dashboard




# DevOps WG Update

## Geneva

- Jenkins Transformation to Pipelines
  - GitHub Org plugin – install / configuration completed
  - Go Modules migration to Jenkins Pipelines completed
  - Application services migration completed
  - Fixed bug with Clair scan stage of ARM64 images
    - We don't have an arm64 klar scanner image - Not needed
  - Fuji Docs released – more updates still needed
  - Combined Dockerfile for mongo
  - Go Device Services – WIP
  - C Device Services – Need Help to align to a common build process
  - Go version 1.13 – Anyone can update base build image
    - There's a question to the community on the need to pin to a specific patch version in the future or just use latest from Docker Hub (1.13.5)
- CommunityBridge - Advanced Snyk Reporting
  - EdgeX Foundry Project has been added to Community Bridge Vulnerability Detection site

# CommunityBridge - Advanced Snyk Reporting

YOUR PROJECT APPLICATION



**Project Name** EdgeX Foundry

**Project Topic** GO

**Project Color** #84d1de

**Elevator Pitch**  
EdgeX Foundry is a vendor-neutral open source project hosted by The Linux Foundation building a common open framework for IoT edge computing. At the heart of the project is an interoperability framework hosted within a full hardware- and OS-agnostic reference software platform to enable an ecosystem of plug-and-play components that unifies the marketplace and accelerates the deployment of IoT solutions.

**Repository Url** <https://github.com/edgexfoundry>

**CII Project ID**

**Project Contributors**  
David Deal [ddeal@linuxfoundation.org](mailto:ddeal@linuxfoundation.org)  
James Gregg [james.r.gregg@intel.com](mailto:james.r.gregg@intel.com)

COMMUNITYBRIDGE  
**VULNERABILITY DETECTION**

My Projects

**app-functions-sdk-go**  
Application Functions SDK written in Go

**Vulnerability Report**

0 HIGH SEVERITY 0 Fixable	0 MEDIUM SEVERITY 0 Fixable	0 LOW SEVERITY 0 Fixable	0 TOTAL ISSUES 0 Fixable
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No repository found for this project to be scanned

[Contributor Login](#) [i](#)

**app-service-configurable**  
Application Service Configurable written in Go

**Vulnerability Report**

0 HIGH SEVERITY 0 Fixable	0 MEDIUM SEVERITY 0 Fixable	0 LOW SEVERITY 0 Fixable	0 TOTAL ISSUES 0 Fixable
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No repository found for this project to be scanned

[Contributor Login](#) [i](#)

Powered by **snyk**

# DevOps WG Update - WIP

- Git commit message enforcement

- Coming out of the EdgeX Geneva F2F and Architects meetings, DevOps agreed to take on a SPIKE to look at tooling / automation that would be helpful for the project in terms of Commit Messages (enforce standard format that aligns to conventional commit standard or agreed upon format as per EdgeX written guidance)

## Examples:

- <https://itnext.io/enforcing-commit-templates-8cf3dbfe2510>
  - Example of pre-commit bash scripts.
- <https://git-scm.com/book/en/v2/Customizing-Git-An-Example-Git-Enforced-Policy>
  - Examples of client-side and server-side ruby scripts
- <https://dev.to/prahladyeri/how-to-enforce-conventional-commit-messages-using-git-hooks-2bmk>
  - Pre-commit custom python script placed in the .git/hooks directory and committed to the repo
- <https://github.com/marketplace/commit-message-lint>
  - Commit message lint  
[https://github.com/SystangoTechnologies/commit-message-lint/wiki/Commit-Message-Lint---2.0?installation\\_id=5828561&setup\\_action=install](https://github.com/SystangoTechnologies/commit-message-lint/wiki/Commit-Message-Lint---2.0?installation_id=5828561&setup_action=install)
- <https://probot.github.io/apps/>
  - Commitlint - <https://probot.github.io/apps/commitlint/>





# Demo Commit Linter

jamesgregg / demo-commit-linter Unwatch

Code Issues 0 Pull requests 1 Actions Projects 0 Wiki Security Ins

## fix some bug #1

Open jamesgregg wants to merge 1 commit into master from us123/update-documentation

Conversation 0 Commits 1 Checks 0 Files changed 1

jamesgregg commented 2 minutes ago Owner + 😊 ...

fix it good

fix some bug ac4c9c0

Add more commits by pushing to the us123/update-documentation branch on jamesgregg/demo-commit-linter.

- 🔴 **All checks have failed** Hide all checks  
1 failing check
- 🔴 🔴 **Commit Message Lint** — Message validation failed!!! Details
- 🟢 **This branch has no conflicts with the base branch**  
Merging can be performed automatically.

Merge pull request You can also open this in GitHub Desktop or view command line instructions.

jamesgregg / demo-commit-linter

Code Issues 0 Pull requests 1 Actions Projects 0 Wiki Sec

## fix some bug #1

Open jamesgregg wants to merge 1 commit into master from us123/update-documentation

Conversation 0 Commits 1 Checks 1 Files changed 1

🔴 fix some bug ac4c9c0

🔴 **Commit Message Lint** Re-run

**Commit Message Lint / Commit Message Lint**  
failed 3 minutes ago in 0s

**Message validation failed!!!**

Pull request title is invalid  
Commit messages are invalid  
sha: ac4c9c0 | message: fix some bug

fix it good

📄 View more details on Commit Message Lint

# Backlog Review

EdgeX Foundry Project

Repositories 97 Packages People 68 Teams 98 Projects 12

DevOps WG Updated 28 minutes ago

Filter cards

10 New Issues

- New build automation for go-mod-configuration  
ci-management#540 opened by Jamesgregg  
blocked geneva
- New build automation for device-bluetooth-c  
ci-management#470 opened by Jamesgregg  
blocked enhancement geneva
- New build automation for device-opcua-c  
ci-management#481 opened by Jamesgregg  
blocked enhancement geneva
- New build automation needed for device-gps service  
ci-management#446 opened by Jamesgregg  
blocked enhancement geneva
- Create a pipeline job that will run the tests for edgex-global-pipelines  
edgex-global-pipelines#58 opened by Iranjbar  
geneva phase 1
- Set up codecov for edgex-global-pipelines  
edgex-global-pipelines#56 opened by Iranjbar  
geneva phase 1
- Add setting to specify the default version  
git-semver#34 opened by Iranjbar  
enhancement
- Doesn't work behind http proxy

Automated as To do Manage

20 Release Backlog

- Look for a bot to replace "recheck"  
Added by Jamesgregg
- SPIKE: Explore how to autogenerate the Project Tracker labels via the GitHub API US5892  
Added by Jamesgregg
- New build automation for device-rest-go  
ci-management#526 opened by Jamesgregg  
enhancement geneva
- SPIKE - Identify a tool / plugin to enforce use of "conventional commit" messages  
edgex-global-pipelines#61 opened by Jamesgregg  
geneva spike
- Build Automation for Open Horizons  
edgex-global-pipelines#63 opened by Jamesgregg  
enhancement geneva
- Root cause analysis of the ARM failures for blackbox-testing - Infrastructure failures  
ci-management#520 opened by Iranjbar  
blocked
- SPIKE: How will we automate full delivery (release management) of a Jenkins Pipeline  
edgex-global-pipelines#42 opened by Jamesgregg  
enhancement geneva phase 1

Automated as Manage

6 In Progress

- Add JJB for edgex-taf-common docker image build job  
ci-management#515 opened by weichou1229  
geneva
- Update edgeXInfraShipLogs() PR detection  
edgex-global-pipelines#48 opened by Iranjbar  
geneva phase 1
- Create standard pipeline template Jenkinsfile for go device services  
edgex-global-pipelines#50 opened by Iranjbar  
geneva phase 2
- Create standard pipeline template Jenkinsfile for docker helper repos  
edgex-global-pipelines#54 opened by Iranjbar  
geneva phase 2
- Continuous Improvements Needed: Improve monitoring of the Jenkins infrastructure (all environments)  
ci-management#538 opened by Jamesgregg
- Bot Explore for Pull Requests, Issues, Commit Message Enforcements  
ci-management#527 opened by Jamesgregg  
enhancement geneva help wanted

Automated as In progress Manage

4 QA/Code Review

- Update build to Geneva pipeline  
docker-edgex-mongo#76 opened by Iranjbar  
geneva  
Review required
- Update golang 1.12 version in edgeXBuildGoApp  
edgex-global-pipelines#76 opened by Iranjbar  
geneva
- Add golang 1.13 base image  
ci-build-images#89 opened by Iranjbar  
geneva  
Changes requested
- Add golang 1.13 to README  
ci-build-images#90 opened by Iranjbar  
geneva  
Changes approved

Automated as In progress Manage

35 Done

- add new option to allow custom release branch override  
ci-build-images#102 opened by ernestojeda  
bug geneva
- add new option to allow custom release branch override  
ci-build-images#101 opened by ernestojeda  
bug geneva
- add new option to allow custom release branch override  
ci-build-images#100 opened by ernestojeda  
bug geneva
- add new option to allow custom release branch override  
ci-build-images#99 opened by ernestojeda  
bug geneva
- add new option to allow custom release branch override  
ci-build-images#98 opened by ernestojeda  
bug geneva
- add new option to allow custom release branch override  
ci-build-images#96 opened by ernestojeda  
bug geneva
- add new option to allow custom release branch override

Automated as Done Manage

# Meeting Minutes

## Discussion

### Actions Completed

AR: (James) – take a look at the Snyk Slack integration to ensure that all of the Snyk alerts with findings are getting into the #snyk-reports channel

UPDATE – The Slack integration is only used for updates since last scan of the repo, not weekly reports. It only sends new information based on new CVE findings.

### Actions WIP

Continuous Improvements Needed: Improve monitoring of the Jenkins infrastructure (all environments)

There have been some recent outages and it seems that the LF should have some monitoring in place that communicates when there's an outage.

Update to Slack, View Dashboard, Send an Email all could be proactive actions that would not depend on EdgeX Foundry Developers to open JSD tickets.

IT-18693 Jenkins Environments - Request for Proactive Monitoring

Per Eric Ball – there is existing monitoring solutions implemented for other LF projects using Nagios

Plan is to reuse what the other projects are using so there shouldn't be a need to open JSD tickets, they should be monitoring Jenkins infrastructure and Jenkins queues automatically once Nagios is set up.

Scope of work is owned by LF Ops team – Eric Ball to follow up with that team using JSD #IT-18693 to start the dialog.

## Additional Discussion

Recent Jenkins stability issues identified as problems with upgraded Jenkins plugins which were incompatible. Both plugins were rolled back to previous versions. Both plugins (Open Stack Cloud & SSH Slave) are required by LF and will not be eliminated with move to Pipelines. Since Jenkins plugins are manually installed by LF RelEng, need to validate compatibility closely beforehand.

Review of Commit Message Lint 2.0 ([SystangoTechnologies](#))

Explore use of the commit linter which is a repo plugin – Based on findings – **Not recommended for project at this time.**

Jim to discuss opens related to the version of Go used in Pipelines with QA/Test WG. Decision will be pending discussion in QA/Test WG with review within TSC call.



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# Past / Future Agenda Topics

WW03 – Continued Discussion Monitoring Solution (Nagios)	Eric Ball