EDGE X FOUNDRY™

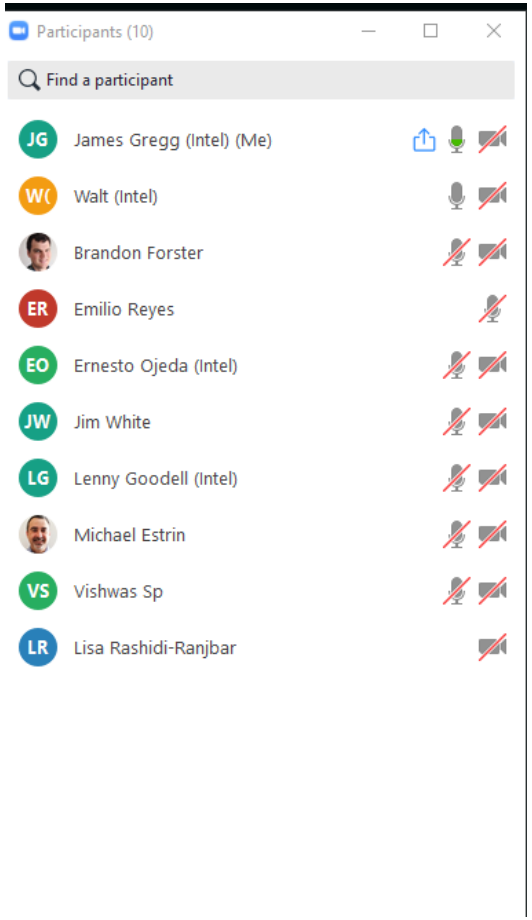
DevOps Working Group

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	

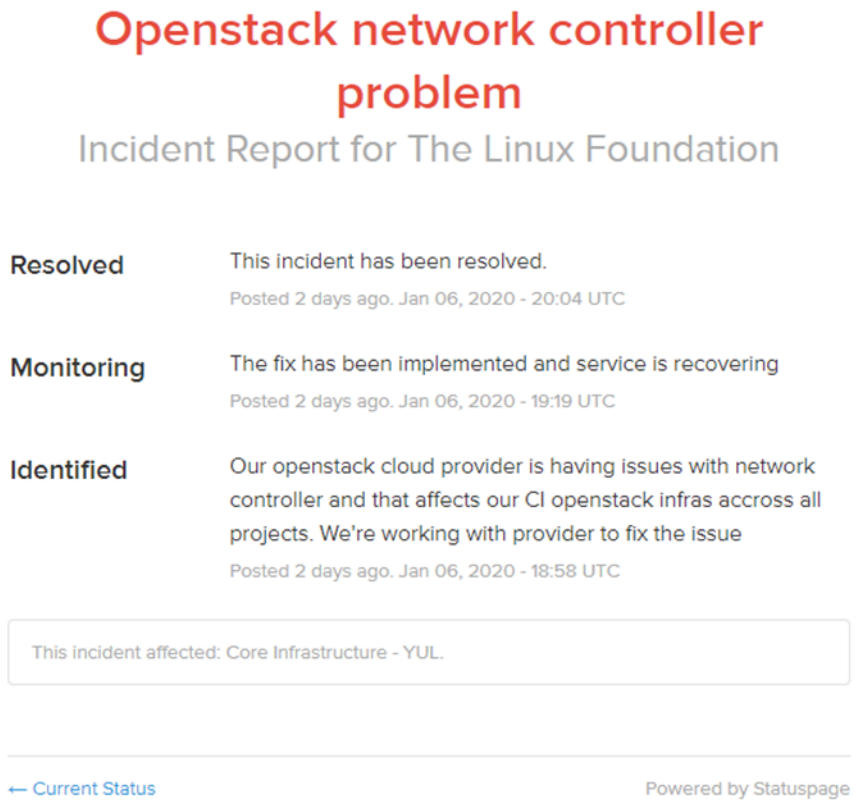
Attendees


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

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

Resolved This incident has been resolved.
Posted 2 days ago. Jan 06, 2020 - 20:04 UTC

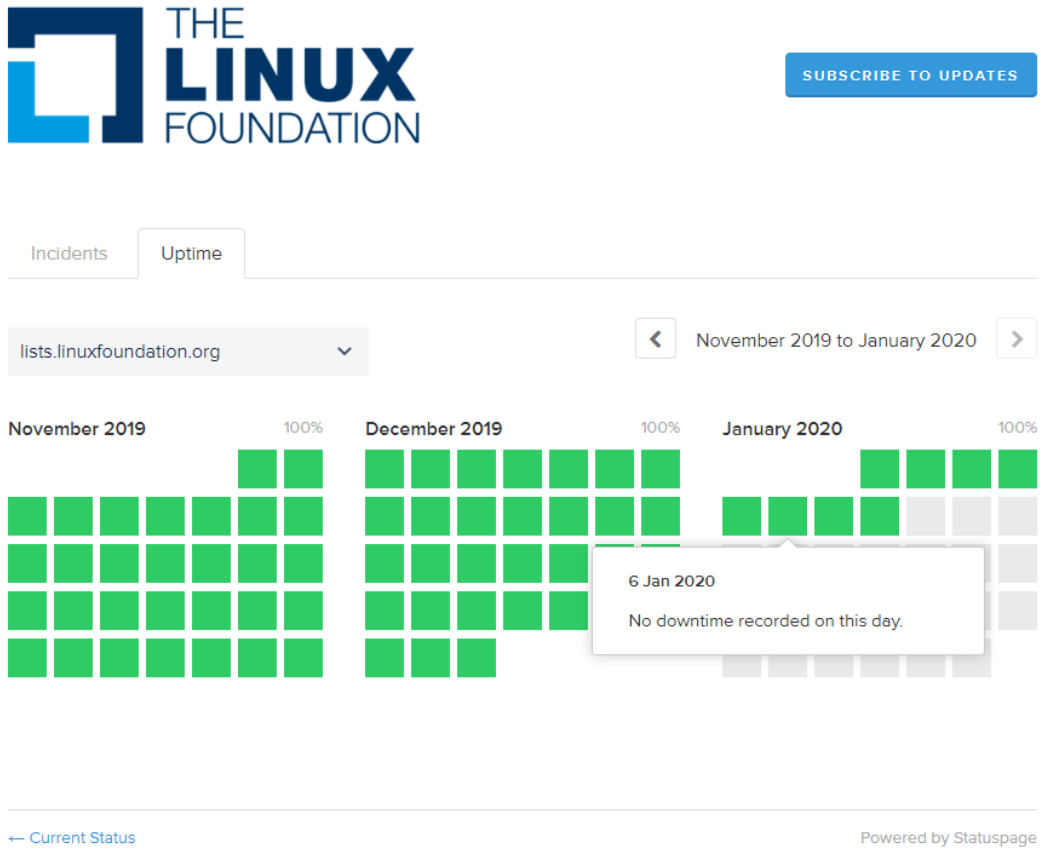
Monitoring The fix has been implemented and service is recovering
Posted 2 days ago. Jan 06, 2020 - 19:19 UTC

Identified Our openstack cloud provider is having issues with network controller and that affects our CI openstack infras accross 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

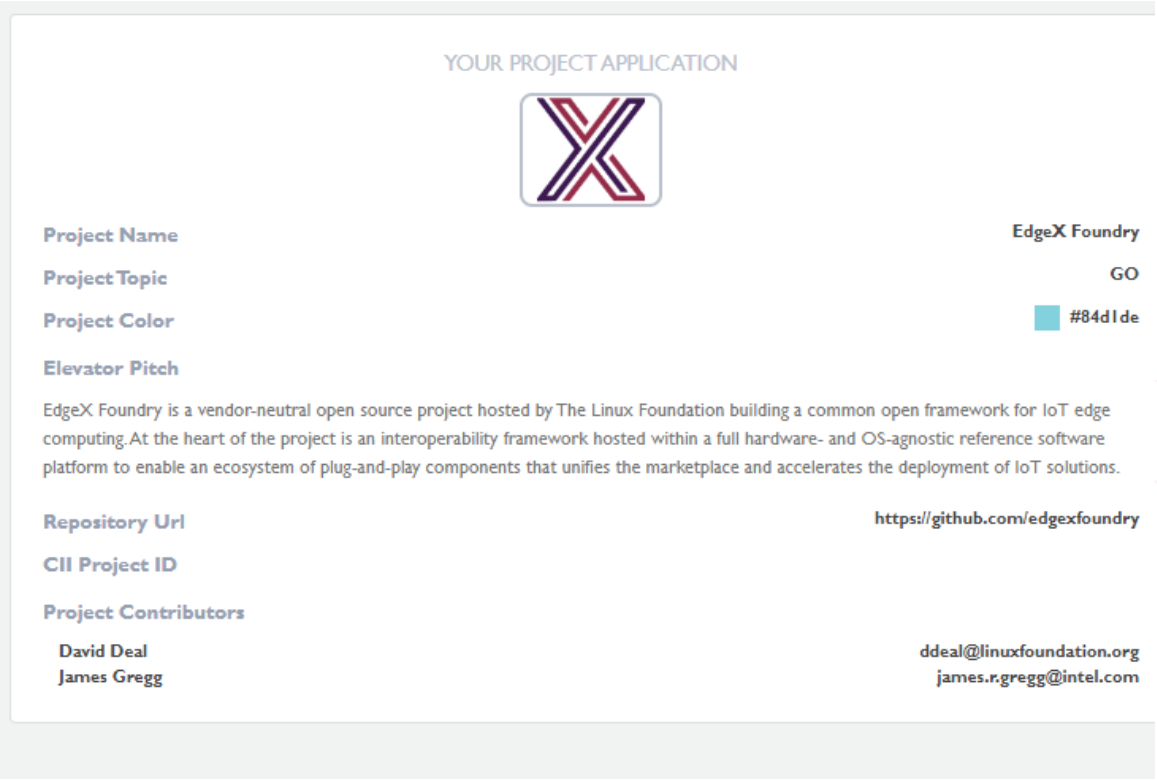


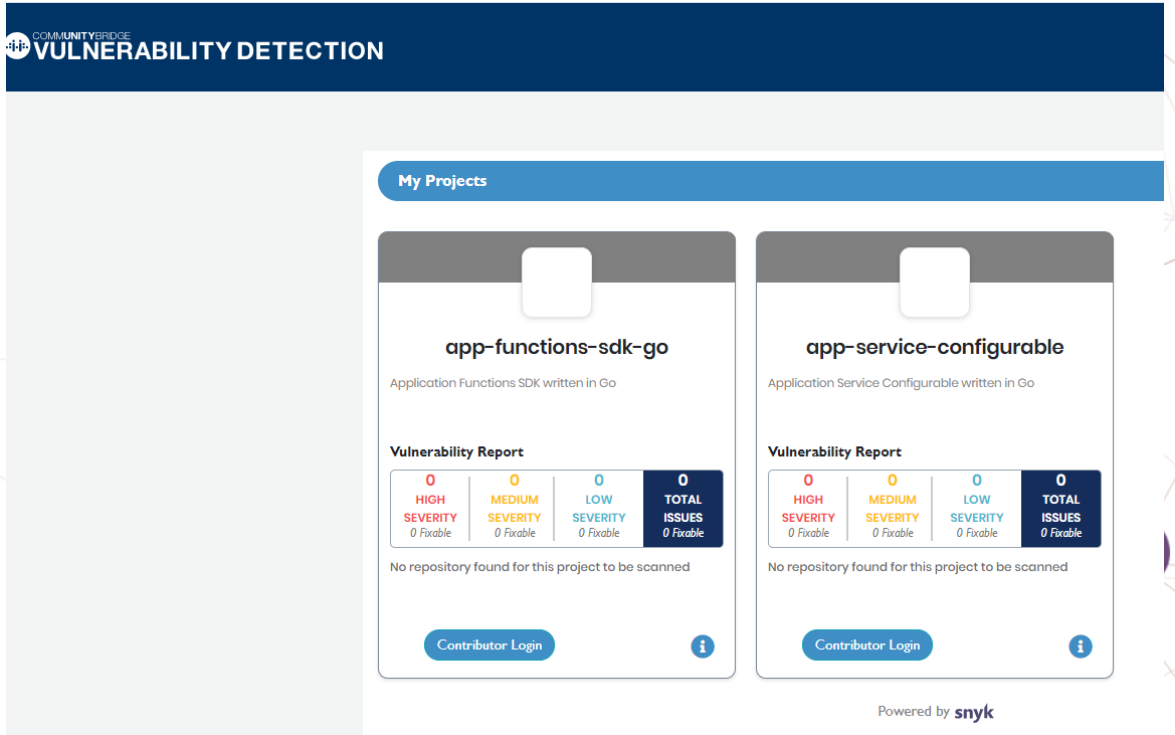
DevOps WG Update

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





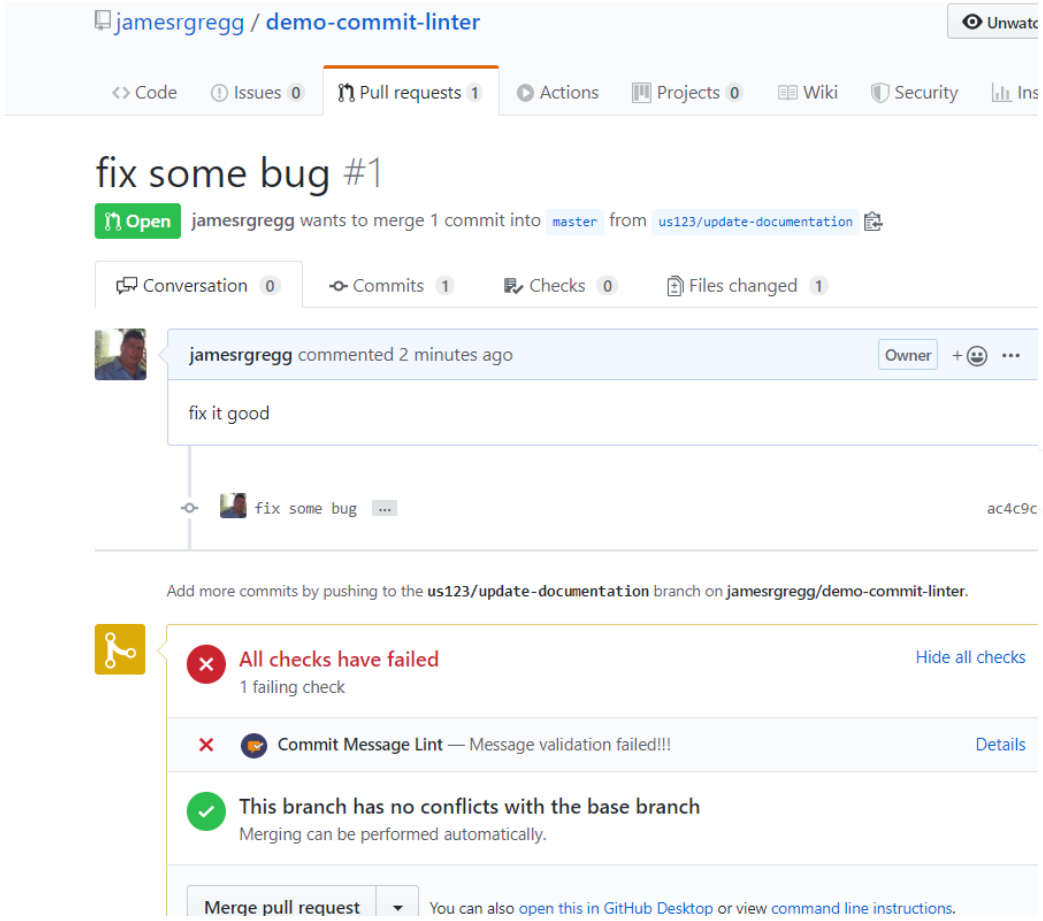
DevOps WG Update - WIP

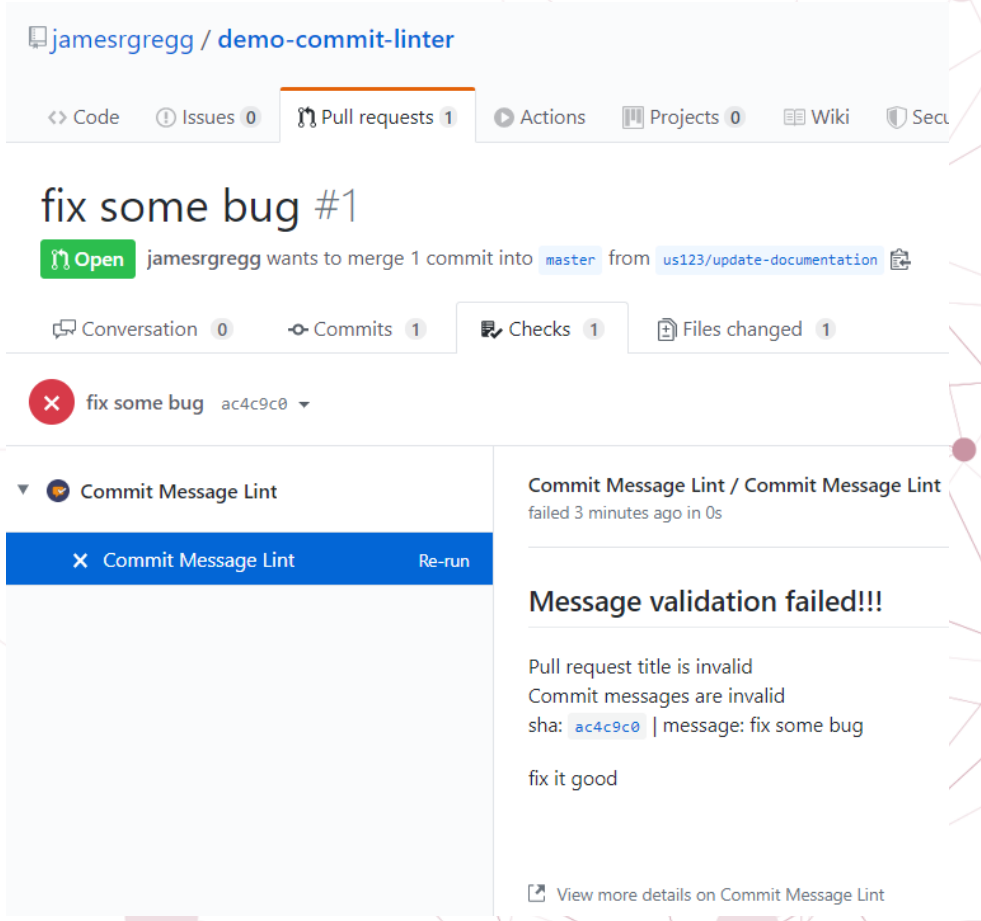
- Git commit message enforcement
  - Coming out of the EdgeX Geneva F2F and Architects meetings, DevOps agreed to take on a SPIKE to look at tooling / automation that would be helpful for the project in terms of Commit Messages (enforce standard format that aligns to conventional commit standard or agreed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

  Examples:

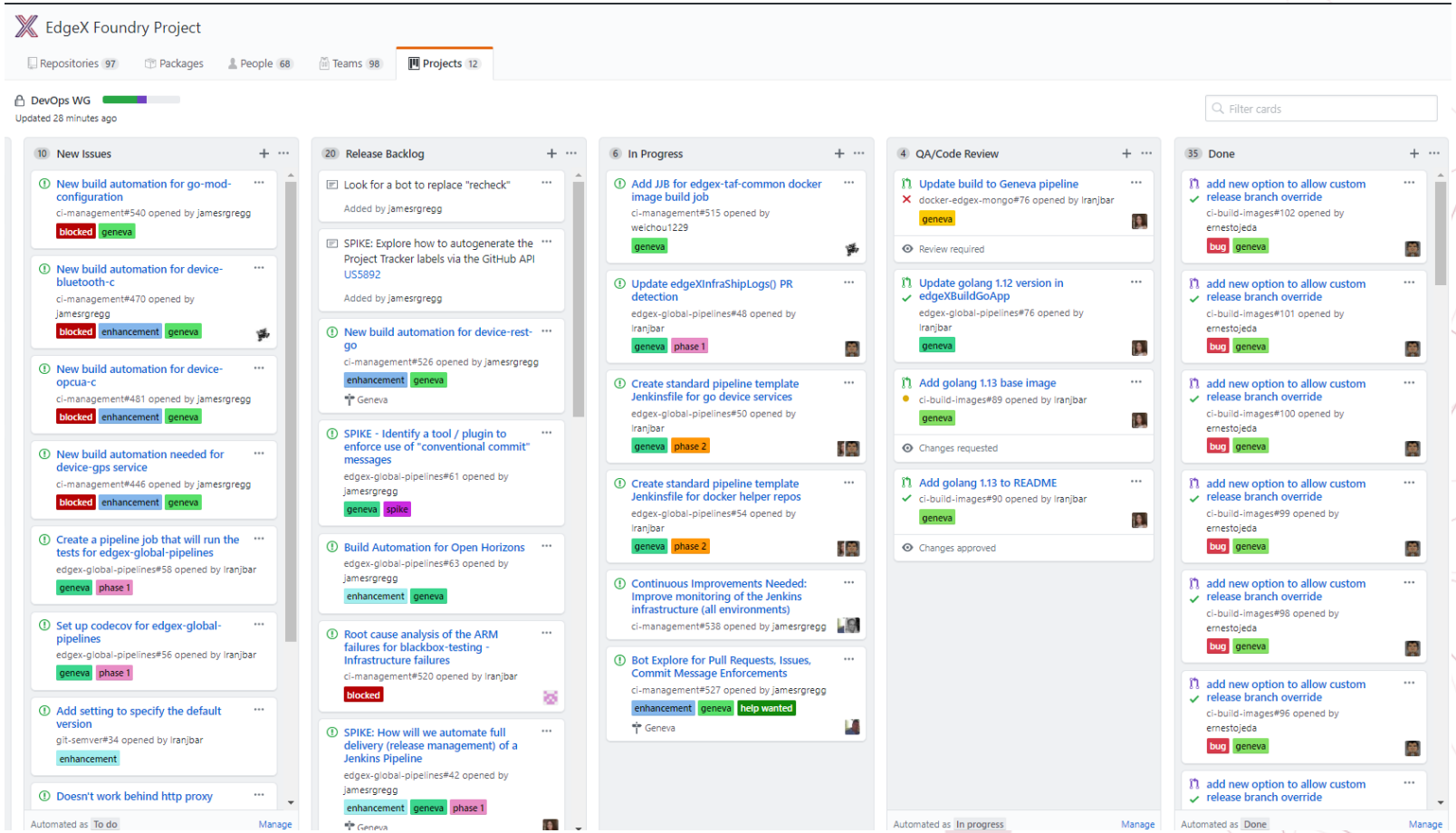
  - https://itnext.io/enforcing-commit-templates-8cf3dbfe2510
    - Example of pre-commit bash scripts.
  - https://git-scm.com/book/en/v2/Customizing-Git-An-Example-Git-Enforced-Policy
    - Examples of client-side and server-side ruby scripts
  - https://dev.to/prahladyeri/how-to-enforce-conventional-commit-messages-using-git-hooks-2bmk
    - 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://probot.github.io/apps/
    - Commitlint - https://probot.github.io/apps/commitlint/

Demo Commit Linter





Backlog Review



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