DevOps Working Group

Thursday May 30, 2019
## Agenda

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Owner</th>
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<tbody>
<tr>
<td>20 min</td>
<td>Edinburgh Release : Review Status / Discussion</td>
<td>James Gregg</td>
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<tr>
<td>10 min</td>
<td>Backlog</td>
<td>James Gregg</td>
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<tr>
<td>10 min</td>
<td>Other Business Items</td>
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<tr>
<td>10 min</td>
<td>Opens</td>
<td>All</td>
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Attendees
EdgeX DevOps WG Update

• Edinburgh Release
  • DevOps team didn’t have permissions to cut the branches
    • Coordinated with Eric Ball via EdgeX Helpdesk to create the Edinburgh branch
    • Improvements in the Release Process should call for more automation / less human glue
  • Go Modules – Delay on the tagging
    • git-semver
    • Work around using git tag command
      • Plan to add git-semver back in to Pipeline jobs (Fuji)
      • Need to clarify on the tagging (verified signed tags) – What’s the visual indicator that tag has been signed?

• Security services – Need Clarification from Jim White
  • Security-api-gateway - Branch not cut – Needed today / JJB – need to update go-mod-core-contracts first
  • Security-secret-store - Branch not cut – Needed today / JJB

• EdgeX-global-pipelines - base build images
  • Pipelines use images from nexus (Staging)
  • Request to update to Snapshot (nexus: 10003)

• Kong ARM64 image not working for blackbox-security-tests
  • Need to change the VM to a specific ARM image (unknown which one at this time)
    • For Now: Carry forward without performance testing of the ARM builds
    • Andy Foster has communicated that there will be no Kong Blackbox test in this release (Potential Fuji scope)
Edinburgh Release

4/28 Code Freeze

Meeting  4/28 10:30AM PST

Slack Communications in the afternoon worked well for everyone
Working Session scheduled with bridge but not needed
## Work Review

<table>
<thead>
<tr>
<th>Helpdesk Ticket #</th>
<th>Description</th>
<th>Details</th>
<th>Status</th>
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<tbody>
<tr>
<td>69830</td>
<td>codecov.io config needed for edgex-go repo</td>
<td>Eric Ball has implemented codecov.io for edgex-go repo as of WW20  Additional repos identified to include SDK repos – hold off on additional repos for now until we have it working with edgex-go</td>
<td>Resolved (Eric)</td>
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<td>68377</td>
<td>failed job related to timeout waiting for SSH</td>
<td>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</td>
<td>WIP (Eric)</td>
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<td>71119</td>
<td>need to extend sigul to include additional functionality – bugs identified with lftools / sigul</td>
<td>– sigul enhancements included in release last Thursday LTOOLS release v0.23.1 Lisa identified some defects Sigul enhancements being worked by LF resources with PR in Gerrit WW20</td>
<td>Resolved (Eric)</td>
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<tr>
<td>71025</td>
<td>TIG Performance Issues identified during testing on Sandbox</td>
<td>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.</td>
<td>Resolved (Jordan)</td>
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<tr>
<td>71084</td>
<td>Enable PyPI for EdgeX Jenkins caching of python dependencies</td>
<td>SPIKE to see what it would take to enable the PyPI Proxy for caching dependencies on Nexus</td>
<td>Resolved THANK YOU ERIC BALL !! Pulled in Fuji scope!!</td>
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Backlog Review
Meeting Minutes

Fuji Scope of Work

• Update on LF Decision for landing new infrastructure for Clair server
• James to send email to Jim White to see if we can get the LF decision maker identified

• Open issue with LF on roadmap / plans to address python dependencies
  • Eric Ball will try to get an answer from LF

• Long Term Tagging Strategy beyond Edinburgh raised by Trevor
  • Decision is to hold the course for now and gain key learnings from this release
  • Will bring back for discussion in next F2F
Fuji Planning

Scope Discussions
Fuji – DevOps

In
- Static code analysis tool identified and integrated into the EdgeX Jenkins Pipeline for Docker image scanning
  - 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
Edinburgh Release

Release Planning
Edinburgh Dates

• Freeze Date – May 28
• Release Date – June 20
## Future Agenda Topics

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<tr>
<th>WW14</th>
<th>Documentation migration – edgex-go user documentation</th>
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<td>WW14</td>
<td>Topics for Fuji F2F</td>
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<td>Jenkins Pipelines for EdgeX services</td>
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<td>WW15</td>
<td>Review Aqua Microscanner – Image scanning tool for Vulnerabilities</td>
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<td>WW16</td>
<td>NVIDIA – Security tooling within CodePipeline (Trevor request) 4/18/19</td>
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<td>WW17</td>
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<td><a href="#">Athens Project</a> – proxy server for go package dependencies</td>
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<td>Community Involvement</td>
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