DevOps Working Group

Thursday April 4, 2019
<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Owner</th>
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<tbody>
<tr>
<td>10 min</td>
<td>Work Review (GitHub Project)</td>
<td>James Gregg</td>
</tr>
<tr>
<td>10 min</td>
<td>Edinburgh Release Dates</td>
<td>James Gregg</td>
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<tr>
<td>10 min</td>
<td>Fuji Planning Discussion</td>
<td>James Gregg / Jim White</td>
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<tr>
<td>10 min</td>
<td>Performance Testing / PR #9</td>
<td>Andy Foster / Cloud Tsai</td>
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<td>Opens</td>
<td>All</td>
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Attendees:
Attendees
## 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>70277</td>
<td>security model for EdgeX TIG Stack Grafana Administrators</td>
<td>Need to follow up with Jordan</td>
<td>FIXED</td>
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<tr>
<td>70476</td>
<td>Sandbox access for FelixTing</td>
<td>FelixTing is working on device-virtual-go and will be setting up the Jenkins job for the service</td>
<td>FIXED</td>
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<tr>
<td>70528</td>
<td>Move 2 repos out of holding</td>
<td>After TSC approval, git-semver and edgex-global-pipelines repos moved out of holding</td>
<td>FIXED</td>
</tr>
<tr>
<td>69830</td>
<td>codecov.io config needed for edgex-go repo</td>
<td>On Hold - See 69422</td>
<td>WIP</td>
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<tr>
<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</td>
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| 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).
EdgeX DevOps Discussion
Edinburgh Release

Release Planning
Edinburgh Dates

• Freeze Date – May 28
• Release Date – June 20
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](https://wiki.edgexfoundry.org/display/FA/Backlog)
  • Edinburgh Roadmap review (what did we not get done)

• 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
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 next few releases
## Future Agenda Topics

<table>
<thead>
<tr>
<th>WW14</th>
<th>Documentation migration – edgex-go user documentation</th>
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<tbody>
<tr>
<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>WW18</td>
<td><strong>Athens Project</strong> – proxy server for go package dependencies</td>
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<td>Community Involvement</td>
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