## Agenda

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Owner</th>
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<tbody>
<tr>
<td>10 Min</td>
<td>DevOps WG Update (Fuji)</td>
<td>Ernesto</td>
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<tr>
<td>10 Min</td>
<td>Release Update / Code Freeze 10/23/19</td>
<td>Lisa</td>
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<tr>
<td>10 Min</td>
<td>Snap issues</td>
<td>Ian</td>
</tr>
<tr>
<td>10 Min</td>
<td>Opens</td>
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Attendees
DevOps WG Update

Code Freeze Status
TSC approved adding DevOps Core team members to all EdgeX Foundry repos – new committers team

Advanced Snyk Reporting
Referral to Community Bridge Product Owner – Jacob Palmer
Vulnerability Detection for all of the EdgeX repos
Reference: https://jira.linuxfoundation.org/projects/SUPPORT/queues/custom/50/SUPPORT-648

Issues to Address
• Missing settings files on docker-edgex-consul and device-camera-go
  • There seems to be a process being ignored where LF is not setting up the settings in Jenkins when code is moved out of holding.
• Adding .dockerignore which excludes .git/ breaks snap builds
• Broken blackboxtests
Backlog Review
Fuji Release

- Freeze: Oct 23rd (Wednesday)
- Release: Nov 13th (Wednesday)

Start Date: 10/23/19

- Code Freeze
- EdgeX F2F in Phoenix

Developers
- Update Documentation, Compose Files and Bug Fixes

WG Chairs
- Cut Fuji Branches
- GitHub Issues: Close / Mark for Geneva

DevOps
- Create Fuji Jobs For Existing Repos
- Clair Scan of EdgeX Images

Release Tar
- Open Tickets with LF for release on 11/13/19
- Finalize Release Notes
Fuji Release Plan – Next Steps

Fuji Release Next Steps

- Wait for Michael Estrin and Tingyu to finish fixing bugs with blackbox-tests
- Create the list of repos that will be branching
- Update JJB to add Fuji branches in Jenkins
- Create branches in repos
- Update the VERSION files (freestyle jobs) and semver for the master branch
- Validate we have all the docker images built and staged in the Nexus
- Hold a working meeting Friday, Oct 25th, morning too divide up the work
Meeting Minutes

• blackbox-testing security issue still in progress. may potentially delay the release by a few days. Jim White said he will keep Lisa apprised.
• device-camera-go is having issues with missing settings files and we are opening tickets.
• Ian Johnson snap issue… Looking for ideas to inform developers if there will be issues building the snaps. This is tricky because in order to know if there is an issue, he needs the whole snap job to run which can take over an hour. This is not the optimal solution. Someone suggested building snaps on all commits to master. Mike J suggested offline, increasing the number of times the daily snap job cron runs and then we would have a better idea as to when the span job fails throughout the day. JP mentioned a separation of code test/build and packaging and deploying. Long and short of it, Ian will create an issue in the backlog for DevOps to come up with a creative solution potentially with pipelines.
Geneva Planning

Scope Discussions
Geneva – DevOps

In
• Full Pipeline transformation for EdgeX services
  • Convert Jenkins JJB Freestyle jobs to Jenkins Pipelines
• Introduce GitHub Org Plugin
• Simplified Jenkinsfile
• Global Libraries to support Jenkins Pipeline transformation
• Add Unit testing to global-libraries (uncommitted) **
• Snyk integration for edgex services
  • As part of Jenkins Pipeline conversion
• Slack integration with Jenkins pipelines
• Nexus Cleanup / Lifecycle Policy

Out
• Alternate deployment/orchestration
  • Beyond Docker/Snaps
  • Kubernetes
  • Kata Containers
  • …
• Integration Test Pipelines
• Code signing / Artifact signing **
Geneva Transformation: Architecture
How long does it take? Is this all Geneva scope?

Geneva Transformation

- **Phase 1**
  - Research Spikes
  - Plugin Setup and Configuration
    - Jenkinsfile
    - Jenkinsfile.sandbox

- **Phase 2**
  - Jenkinsfile templates
  - Implementation details get solidified
  - Refactor existing pipelines to use new templates

- **Phase 3**
  - Existing Job Migration

**Full Transformation by Geneva Release - April 2020**
Fuji Planning

Scope Discussions
Fuji – DevOps

In
- Static code analysis tool identified and integrated into the EdgeX Jenkins Pipeline for Docker image scanning (Clair Server)
- 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
## EdgeX DevOps Commitments (Fuji)

### Scope of Work

<table>
<thead>
<tr>
<th>Activity</th>
<th>Status</th>
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<tbody>
<tr>
<td>Add static artifact analysis into the EdgeX Jenkins Pipeline</td>
<td><img src="https://example.com/green-light-icon.png" alt="Green Light" /></td>
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<tr>
<td>(analysis of Docker /runtime artifacts, not the source code)</td>
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<tr>
<td>Add code and artifact signing with semantic versioning</td>
<td><img src="https://example.com/green-light-icon.png" alt="Green Light" /></td>
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<tr>
<td>Conduct build performance optimizations by:</td>
<td><img src="https://example.com/green-light-icon.png" alt="Green Light" /></td>
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<tr>
<td>• Adding Pipelines for EdgeX Foundry base build images</td>
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<tr>
<td>• Allow base build images to be managed locally within Nexus</td>
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<tr>
<td>• Leverage PyPi Proxy for local pip dependencies</td>
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<tr>
<td>Explore static code analysis like Checkmarx, Coverity, GuardRails, Synk, SonarQube</td>
<td><img src="https://example.com/green-light-icon.png" alt="Green Light" /></td>
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- **Clair Server landing no longer at risk for Fuji**
  - LF committed to implement on AWS and fund with expected completion next week
- **gitsemver along with lf tools used for artifact signing and semantic versioning**
- **Jenkins build performance optimizations for base build images completed**
- **All base build images will now be stored in Nexus (Snapshot):10003**
- **PyPi enabled as part of Edinburgh scope**
- **Initial review of GuardRails showed that the product was identifying issues which were not applicable for microservices architecture**
## Past / Future Agenda Topics

<table>
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<tr>
<td>WW37</td>
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