## 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>James</td>
</tr>
<tr>
<td>10 Min</td>
<td>Release Update</td>
<td>Lisa / Jim</td>
</tr>
<tr>
<td>10 Min</td>
<td>Geneva Planning</td>
<td>All</td>
</tr>
<tr>
<td>10 Min</td>
<td>Opens</td>
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Attendees
DevOps WG Update

Fuji Scope

Static Code Analysis Tools

- Snyk Integration with Jenkins
  - Provisioning authentication tokens with Snyk, Linux Foundation - DONE
  - Create a new global library that will be used with Jenkins Pipeline stage that runs the Snyk CLI scan using the new Snyk build-agent image - DONE
- GitHub Repo / Snyk Integration
  - Jenkins Snyk plugin as an alternative to the Snyk CLI - DONE
    Plugin doesn’t use Snyk CLI and go modules can only be scanned using the CLI at this time
  - Integrate Open Source repos (app-service-configurable) using a common / shared account to Snyk - WIP
  - Configure notifications to SIR team members – WIP
  - Add Scan stage to Jenkinsfile (app-service-configurable) – WIP
- New device services – BLOCKED
  Per TSC call new service added to holding – device-opcua-c

- Release Date – TBD
  Tracking to mid November with formal announcements after TSC call next week
<table>
<thead>
<tr>
<th>Helpdesk Ticket #</th>
<th>Description</th>
<th>Details</th>
<th>Status</th>
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<tbody>
<tr>
<td>IT-17609</td>
<td>IT-17609 Add additional contacts to a JSD ticket</td>
<td>Unable to add Lisa to the JSD tickets using LFID or GitHub ID</td>
<td>WIP</td>
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<tr>
<td>IT-17606 Snyk integration for EdgeX repos</td>
<td>IT-17606 Snyk integration for EdgeX repos</td>
<td>Snyk GitHub repo integration (app-services-configurable)</td>
<td>WIP</td>
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<tr>
<td>IT-17602 Blue Ocean Plugin for Jenkins</td>
<td>IT-17602 Blue Ocean Plugin for Jenkins</td>
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<td>DONE</td>
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Backlog Review
Meeting Minutes

• Expect Release date by EOW next week
  • Tracking to early December
• Issue needs to be created for support-rules engine
  • May require additional build automation
• New device-camera-go service will be moving out of holding
  • Need to add new user story for build automation once it moves out of holding
• Based on feedback of the planned scope for Geneva
  • No dissent re: plans for transformation of JJB Freestyle jobs to Jenkins Pipeline
  • Scope of work should comprehend what’s involved and need estimates
    • Backlog grooming session will estimate scope of work Lisa has already broken down with Geneva user stories
    • Need to comprehend any additional work that may be coming from other working groups
    • No need to build the argument for Pipeline transformation – focus on what it will take to do the work
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
- Add Unit testing to global-libraries
- Ocean Blue Jenkins Plugin
- Nexus Cleanup / Lifecycle Policy
- Snyk integration all repos
- Slack integration with Jenkins pipelines.
  - Determine what level of messages are needed i.e. *failed only*
  - If too verbose, determine plan for archival of messages

**Out**
- Alternate deployment/orchestration
  - Beyond Docker/Snaps
  - Kubernetes
  - Kata Containers
  - …
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)

Explorer 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)

<table>
<thead>
<tr>
<th>Scope of Work</th>
<th>Status</th>
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<tbody>
<tr>
<td>Add static artifact analysis into the EdgeX Jenkins Pipeline (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>
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<tr>
<td>Conduct build performance optimizations by:</td>
<td></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>
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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 lftools 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>
<thead>
<tr>
<th>WW36</th>
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<tbody>
<tr>
<td>WW37</td>
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