

Core Working Group Agenda 3/8/2018 meeting

Attended by: Keith, Andy & Steve (IoTech), Brad & Rodney (Beechwoods), Tony (Canonical), Jim, Trevor & Tingyu (Dell Tech), Greg (Sixgill), Fede (Cavium), Salim (VMWare), Jeremy (LF), Alberto (NOV), Bernard (Schlumberger), Janko (Mainflux). There may have been in attendance later in the meeting after the list of attendees were captured.

Discussion and action items as a result of meeting in RED.

Next week's meeting is canceled due to OpenIoT Summit – next meeting on 3/21

Old Business

DevOps issues/updates

- Automation of black box tests is priority 1
 - Not sending emails yet but ready to go.
 - There will be an mail list that everyone can subscribe too – email coming soon from Jeremy to allow registration.
- Go & Arm CI
 - Go and ARM testing CI issues
 - Concern about what is included in CI; what targets in the Makefile are part of CI for Go mono repo?
 - The **make build** will compile EdgeX Go code now, but doesn't generate any binaries
 - The **make build_microservice** – builds EdgeX Go code and produces binaries
 - Both of these now work and should allow people to keep producing.
 - **Action: Jim**; Target the meeting to reassess the Makefile and its targets for two weeks out.
 - For all to research: let's look at some other projects and how they do their builds and if they use Makefile, how they have it setup.
 - A reminder from and Tony and a plug for ANDY F. – good guide on commit and commit messages. **Everyone should read!**
 - 1 liner to get the gist of the change (less than 50 characters). Paragraph or more in the body.
 - No: "Fix typo".
 - No: Merge master into topic branch
 - Here is the synopsis of Andy's guide:
 - Separate subject from body with a blank line
 - Limit the subject line to 50 characters
 - Capitalize the subject line
 - Do not end the subject line with a period
 - Use the imperative mood in the subject line
 - Wrap the body at 72 characters
 - Use the body to explain what and why vs. how
 - We need Java artifacts for Arm (Docker)
 - **Action: Jeremy** research to-do

- These containers would concern themselves with Mongo for ARM and what JRE is in the container.
- Steve – has done work for Arm 32; can provide some assistance
- Tony – done some work for snapcraft; can also provide some assistance
- We need to consider ARM 32 in CI in the future (not just ARM 64)

Current Work Tasks

Remaining work items now in Github Projects/issues and listed below. No meeting time to discuss unless there are significant updates

California Release Work Tasks

- Security & System Management – per WG task list (Jun – collective)
- Integration of System Management APIs into micro services (Jun – Dell)
- Core, Supporting, Application services in Go (Dell, Cavium, Mainflux, others?)
- DS SDK in Go (mid Feb, Tony) **now more like March - April**
- DS SDK in C (April, IoTech)
- ? number of DS in G and/or C (???)
- Blackbox tests for all services (and SDK??) (End of May, IoTech)
 - Opportunity for other companies to make contributions – good area for new groups to participate.
 - **Jim Action** – poke participating/community companies for help
- Performance tests (and meeting performance targets) (IoTech)
- Everything runs and is tested on ARM (Jeremy/IoTech)
- Environment – what target environment to do the tests (lab equipment, tools, software, cloud product availability).
- ~~Documentation to Github – (Iotech)~~

Face-to-Face Action Items

- Go Lang Core/Export Services connected to Consul, config files in seed (Jim/Fede/Drasko, May 1st)
 - We load every property for all images (local or Docker) you get every config element – now and issue
- Cross compiling for all Go Lang artifacts to include Go Core Data, Metadata, Command, Export client, Export distro, and config seed use (Jeremy, Jan 31st)
 - Part of what is in the PR for review
 - Only for Arm 64 for now per F2F
- Arm native environment (Fede, Gorka, Jeremy, End of April)
- Blackbox testing on Arm native environment (Andy F, Jeremy, End of May)
- Wiki page on EdgeX on OS'es – attestation of testing page (TBD, End of May??)
- Performance target tests – the Pi Tests (TBD, End of May??)
- Setup "Sithub" (Jeremy, first week in Feb) – **Jeremy to get to this week**
- Samsung Code moved to Sithub (MJ, 2nd week in Feb) – **Volunteers sought – talk with Keith**
- Samsung Code reviewed and processed (TBD, TBD)
- Naming, availability, startup/cleanup service architecture draft (Jim W, 3rd week in Feb) – **Now more 3rd week in March**
- ~~Device Service requirements doc (Tony, mid Feb)~~

Go Work

- **Can/should we move to Go 1.10?**
 - **Is there particular feature we need?**
 - **Stick with 1.9 because other things like Alpine 3.7 is using 1.9 (relevant because Steve is building in container)**
 - **Go on Ubuntu all the way up to 1.10**
 - **Group Decision: stick to 1.9 for now**
 - **Should we be doing more build of things in CI or in container**

- Decision – keep to the current way
- Are we ready to fold the Go project meeting back to core?
 - One more meeting / exercise poll to fold it back in
 - Jim to work with Brett for Doodle poll

Documentation

- Revisit in March
- Andy, are we ready for review of IoTech repo?
 - Andy - Not quite
 - Completed the framework, with generated RAML
 - Going to Dockerize the build process
 - Question: if documents are specific to a micro service should they live in the specific services repo as opposed in a single doc repo? For example: Device Service, Core Service docs. Should there be a doc file in each service repo?
 - Consensus opinion: keep specific documentation to specific micro services repo
 - Have a top level docs that point to the details in the repo along side services (just have pointers). The top-level doc in a doc repo serves as an index into the various repo.
 - If we have services in both Java and Go? Decision: put the docs in the repo of the reference implementation. Go version of Core Data, Metadata, Command, Export Distro, Export Client can be considered reference implementations of these services for California. Go Logging may soon be ref impl.
- Game plan was:
 - IoTech to clean up til April 1
 - Review of IoTech repo target Apr 1 – 30
 - Work with Brett to track applicable changes in Wiki during the review period
 - Hold a pre-day meeting just before the cut over
 - Target early May cut over

Architectural Issues

- Per last week, RAML to live with repo of reference implementation – that is now done.
 - At some point we need to review RAML (**Action:** Jim to coordinate with Andy on Blackbox test verifications)
 - How is the RAML generated? Manual
 - Closing out this work item. Work with Andy regarding blackbox test verifications
- License file issue - how do we get appropriate license files to project artifacts (Docker containers and such)?
 - **Action:** Jeremy was going to provide requirements on what is needed to assist CI process for this work, and make ask to dev community for what is needed in repos to support this. Includes Attribution.txt, license file.
 - **Jeremy and Tony to discuss; return next week with some ideas/plan**
- Message infrastructure between Core Data and Distro (and others in the future) – covered in the Go meeting.
 - Jim working on options versus requirements for next meeting (Go or Core meeting)
- DS Requirements Discussion
 - open issues in DS requirements

- Query All command results, no device names or ids returned? - **Jim to research with Tyler and get back info based on original concept/design**
- A DS must provide both forms (all & deviceId) of GET handlers
- logging/scheduling - *inprogress*
- data transform - *inprogress* - **remove some this from requirements**
- actuation commands RAML accuracy - *tbd*
- metadata updates (/callback) RAML incomplete - *tbd*
- finalize appendix A 'settings' – **need to work on across the board (Trevor working)**

Core Snap

- Recommend new project work (like we did for Go).
- No objection to this new project
- Jim/Tony to coordinate the inaugural meeting and seek participants

New Business

Build 0.6.0?

- Suggest a 0.6.0 build and containerization of all repo after Go work appears to be running – objections?
- No objections. Suggest we tag it 0.6.0-preview so as not to be confused with actual release.
- Try to get this out around first of April depending on state of code.

Samsung Code Review

Seeking volunteers

No other open items