Architect's meeting, July 20, noon CDT

Attendance:

Some attendees may have joined after the call started when this record was captured.

Topics

Old

- Does EdgeX work with IPv6? If not, what work needs to be accomplished and what are the impacts to the code base?
    - Decision
        - Release-note what we have tested to date for IPv6 (caveat where there may be issues) for Hanoi
        - Take this issue on for Ireland
        - Focus on external looking elements (Kong or device service separated from rest of EdgeX) and not focus on overlay network (service to service on the Docker network)
        - Jim Action (update release notes)
        - Close this issue out.

- How far down in the review of a module/library does the vetting project go? Do we vet the use of the use of the use, etc. of a library?
    - Next meeting: Jim White to use the evaluation list provided by Tony/James to review the 30+ library/module imports of edgex-go that are dynamically versioned (have no version number tag - example is bitbucket.org/bertimus9/systemstat v0.0.0-20180207000608-0eeff89b0690)
    - With the revised criteria list and module/library report, re-evaluate the draft vetting policy.
    - TSC meeting vote upcoming
    - 1947 core wg issue close
    - Close this issue out with TSC meeting

- PR Template for conventional commits is now in place for all repositories for all PRs but without TSC approval. It doesn't appear to be affecting any problem. We need to finalize the shape of this and officially approve the template by the TSC.
    - Mike, Lisa and Tony to provide improved template around conventional commits and any recommended policy for TSC approval. Meeting still forthcoming.
    - Mike testing with app services

    - 2 different bots (conventional commit bot, Dependa bot – its own thing, not related to conventional commits issue)
- How should we deal with example code? Example code for app services lives in holding. Example code for Device Services lives in the device service SDK (although to some extent, device random and virtual are examples). Security is about to create some example code for SSH tunneling. Should all this be collected somewhere? Should it live in Github or in the docs (or on the Wiki or other location)? Should it be consolidated? Is it managed code or is it "buyer beware" code?
    - With TSC approval, Jim presenting proposal for new repo soon
    - Archive folder?? Will grow overtime. Should just delete instead. Decision – yep, remove archive and leave that to Github.
    - Jim to address along with Lenny issue.
    - Close this issue out with TSC meeting.

New

- Backward compatibility and what to do about Mongo, Logging and Support Rules Engine for Hanoi?
    - Some think exemption to remove these under minor version for Hanoi may have been too hasty
    - Should we reverse course? Are we too far down to reverse course?
    - Snaps – issue in maintaining backward compatibility?
    - Geneva release notes say these “have been deprecated in this release. While still available, all will be removed in a future release” without specifying the exact release for removal.
    - Decision:
        - Keep them all deprecated
        - Do not remove them (and do not remove any code that allows for their use)
        - Release artifacts (Compose files, Snaps, etc.) can remove them as the user is allowed to bring them back in without code work (albeit with some work).
    - Close this issue out.
- Add a service dot setting to set up the adapter for listen on web services (Lenny to provide more details)
    - Fix in place – new config setting (SDKs, edgex-go)
    - Not release of app services (doesn’t make any API calls)
    - Releasing DS and SDKs (Go 1.2.3)
    - For snap – revert to previous version
    - Close this issue out.
- Design metadata about the “gateway” or host platform (identity, location, …)
    - Need some identifier in Event/Reading
    - Need a unique id for each EdgeX instance
        - New field “Tags” added to Event/Reading
        - Any service could add to that “Tags”
        - Optionally – make available a UUID through Metadata
        - Is there an industry standard – can we align to any existing standard (Jim to research)

            - should the metadata align to a specific industry standard for IOT devices? So as to take advantage of ...https://www.project-haystack.org/doc/Structure
        - Tags == Labels
            - Not key-value pair
            - Should be array of k/v (Maps) or JSON object
        - Tag to just to event (not needed to readings)
    - ADR to be created after research
    - Which issue to tackle this in - TBD
- Issues still to be worked
    - How should we apply semantic versioning to modules? When do we update the minor and major versions of modules? (comes from the Hanoi planning meetings)
    - Per the Hanoi planning conference - we need to better define "bound checking" so that a design (and eventual implementation) can be brought forth to meet the requirements
        - Currently considering limiting the number of operations that can be performed on a service (like a device service) over a period of time or setting the max request size (that lends to DoS attacks)
        - Can the solution be more globally applied?
    - EdgeX UI - it is for dev/test right now. Would we ever want to have a UI for production? Under what constraints? Jim working through Core WG and with UI team
    - Extract of Device Service requirements to ADR legacy - what are all the pieces that need to be moved there?
    - How do address module and component version release needs for examples (per Slack exchange with Luis Obando). go.mod in the examples helps - or at least some documentation on dependencies.
    - How do we review/remove artifact removal (docker images in Docker Hub, snaps, etc.)?
    - Is order of event/readings being sent by a single device service important? Are there async operations in any service that could change the order of events as they are sent from a DS to core to application services (with REST, 0MQ or MQTT infrastructure)? What do customers desire here? Is maintained order important? What is the current state of the system and can we diagram/document that? Jim to do some research first.