9/10/20

Attendees:

Others may have been in attendance after roll was captured.

Agenda
Old
- Issues/PRs
- V2 API work
- CLI progress
- UI progress
- Kubernetes meeting TBD
New
- Go 1.15.2

Old Business

Current Status (Project board - as of 9/10)

<table>
<thead>
<tr>
<th>Backlog</th>
<th>In progress</th>
<th>Done</th>
</tr>
</thead>
<tbody>
<tr>
<td>10(+2)</td>
<td>5 (same)</td>
<td>64(+6)</td>
</tr>
</tbody>
</table>

| Bugs: 5 (same) | Under review: 1 (+1) | New: 0 (-2) |

<table>
<thead>
<tr>
<th>Closed Issues</th>
<th>Working Issues (new)</th>
</tr>
</thead>
<tbody>
<tr>
<td>edgex-go</td>
<td>#2667-68 (new Tags field), 2678 (device admin/op status error)</td>
</tr>
<tr>
<td></td>
<td>2670 (implement GET event by id), 1734 (error handling), 2680 (Go 1.15.1)</td>
</tr>
<tr>
<td>contracts mod</td>
<td>#274, 276, 280, 282</td>
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<tr>
<td></td>
<td>#278 (error handling refactor for V2)</td>
</tr>
<tr>
<td>bootstrap mod</td>
<td></td>
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</table>
API V2
- Jim to work with Cloud on a api/general function gantt chart
- Error handling (#278)
- Event query APIs (on a little hold as we address error handling/PR forthcoming soon)
  - This will assist in TAF testing of V2 API
  - Query by ID first
  - Limit parameters for all query APIs
    - Implementation of “how” to be reported soon (Cloud)
- Continue handler/controller work
- UUID add to event - ADR closed in favor of reusing id (populating with UUID before sending to core data; populating it if it is not provided in core data)
  - Applying just to V2; required field before persisted or passed to message queue
  - Make it part of initialization in contracts so when core data becomes optional, it’s there. Becomes a required field.

Issue 2651 - sys mgmt agent - use of Python 2 and vulnerability report
- Image installs Python 2 and we need to try to install Python 3

CLI
- Roadmap doc
  - https://docs.google.com/document/d/1tHxomWv5C1bz7LHvrOcbSwRMSXhvBngWYhFUv5fk4JY/edit?ts=5f1efac4
  - Work continues on API endpoints that are needed; 2 PRs that need review (Jim action)
  - Upgrade Go Version.
  - Remaining questions are below:
    - Which additional APIs need to be covered? Diana has provided a spreadsheet (see doc above for the link).
    - Several services may have the same operation but the CLI does not let you specify the specific service (examples: device, ping, commands, config, metrics, etc.)
      - Decision:
        - Required parameter to specify service where there are multiple services that have the same command
        - Have shorthand names for services (like cd for core data)
        - Jim/Diana to clarify actual “API”

UI Direction
- Roadmap deck (draft)
- Decisions (for Ireland) - Jim working these through Gavin:
  - #1 priority - create a device UI “wizard” that allows adding a new device much quicker.
EdgeX Foundry Core Working Group

**(plus system management and UI)**

- Takes a user through screens to create a new device, reference or create a device profile, add addressable, provide AutoEvent schedule, etc. and associate it to a device service

**#2 priority - Add some data visualization to the UI**
- Need the ability to “click and see” the data
- See the data in the core database
- Perhaps peek at the messages coming from the core->app services bus
- Integrate with something like Grafana for additional visualization
  - May require we export data to a time series database or use Redis time series database

**#3 priority - SMA integration**
- Offer metrics visualization of memory and CPU offered by SMA
- Get the status of the services (up / down)
- Provide ability to call on start/stop/restart of services
- Lower priority to see service configuration as this can be done via Consul

Lower priorities to be pushed to later releases
- Work remotely on a different host (through security)
- Work with security elements
  - Through Kong
  - With security/TLS certificates
  - With user access controls (may not be user login, but how do we get the Kong cert, etc)
- Deal with binary data
- Address service configuration - specifically address changing writable configuration

**Kubernetes Direction (release target is just a suggested goal)**
- Crawl (Hanoi or Ireland): Have an example deployment.yml and service.yaml for deploying a single instance of EdgeX (minus device services) to a pod. With Redis, minus security.
  - Include example of how to setup device-virtual to send data to K8s instance
  - Document/demonstrate/provide example of setting up in K3s
  - Document what would not work in this environment
- Walk (Ireland): Include security
- Jog (Ireland or Jakarta): Helm charts & / or Operators
  - Helm chart (hour zero); Operator (hour 1+) - helm chart not managing state
- Run (Jakarta or Kamakura): start addressing HA concerns in EdgeX
- No objections to list above
  - Try to have roadmap and some type of initial crawl implementation by Hanoi or shortly after
- Rancher participation? Andre trying to facilitate
Possible new core group to work on it: Jim to setup and send out invitations

New Business

Go 1.15.2

- 1.15.2 - is a “go”; Tony tested and it fixes issues; message to community to be sent out by Jim
- Jenkins file on edgex-go also being worked by Ernesto (this will be dropped with Jim’s PR)