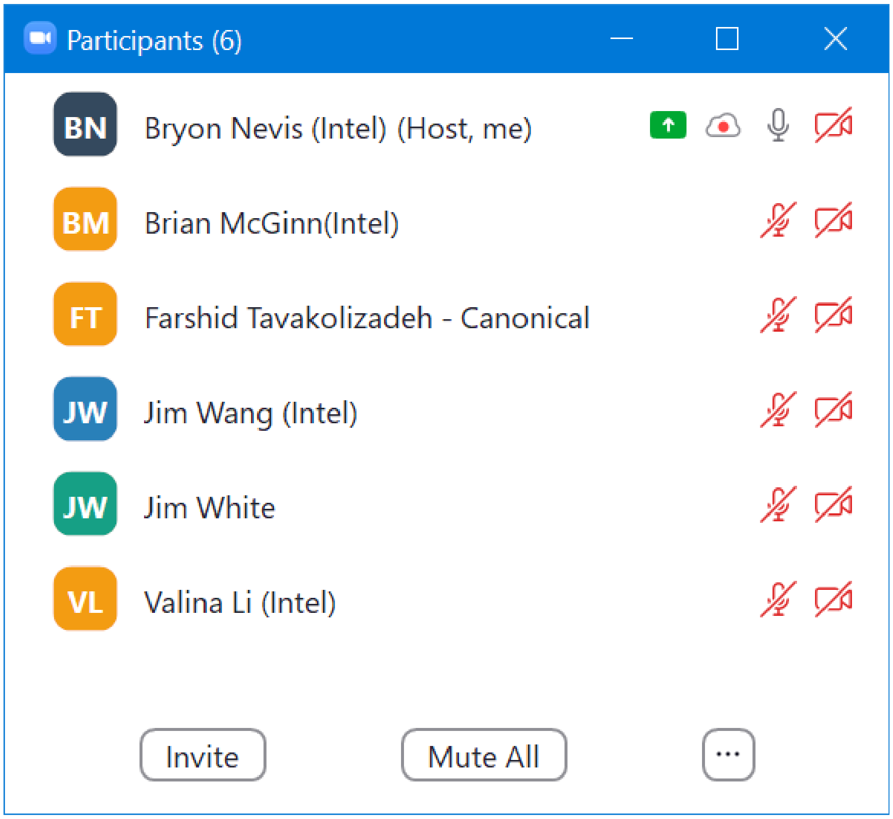
EdgeX Security WG Meeting

https://wiki.edgexfoundry.org/display/FA/Security+Working+Group

August 3, 2022

Attendees



BN Bryon Nevis (Intel) (Host, me)

BM Brian McGinn(Intel)

FT Farshid Tavakolizadeh - Canonical

JW Jim Wang (Intel)

JW Jim White

VL Valina Li (Intel)

Agenda

- CVE-2022-28948 dispositioning results
  - Yaml parsing issue
  - Will save for future
- Consul’s KV organization and security implications / tech-debt
  - Security bootstrapper creates per-service Consul policies
  - Each service is allowed only access to its section of the KV store
  - KV store is divided into buckets
    - Core services

    - Security services
    - Device services
    - App services
  - PROBLEM: each microservices gets to decide independently whether it is part of core, security, device, or app services
    - When we create the policy we know the known service keys
    - But generally don’t know without special logic whether core-data is part of core, or an app service belongs to the app services section
    - As a result, we have to do string parsing on the service key and write custom ACL paths such that “app-” goes into edgex/appsservices/2.0, and “security-” goes into edgex/security/2.0 and “device-” goes into edgex/device/2.0, and everything else into “edgex/core/2.0”
    - Any service that violates the service key naming convention will not have access to consul set up properly
    - Any new types of services such as “wizbang-somename” will get classified as core.
    - UI team has the same problem.
    - **Proposal: Edgex 3.0 uses edgex/3.0/<service-key> as the path, and eliminate the extra “appservices, security, core, devices” subfolders in the path.**
      - This would also remove a parameter to bootstrap.run()
    - Potential snags? Is it possible to have multiple instances of a device service that have the same service key?
- Answered question about what happens if a service goes offline for more than an hour.

Standing Agenda

- Review Security Board
- Securing Consul Board (skip)
- Review CIS docker scan (will skip unless something changes) (click latest run, go to classic, view console output).
  - Last checked: August 3, 2022 – as expected
- Review Snyk (Jenkins) (will skip unless something changes) (Imagelist)
- Review action items from previous week

Action Items

- 7/14/21: Bryon: Update security policy documentation w.r.t. when to use GitHub security advisories to notify users of issues.
- 6/22/22: Bryon: Update known security issue wiki (add GHSA?)