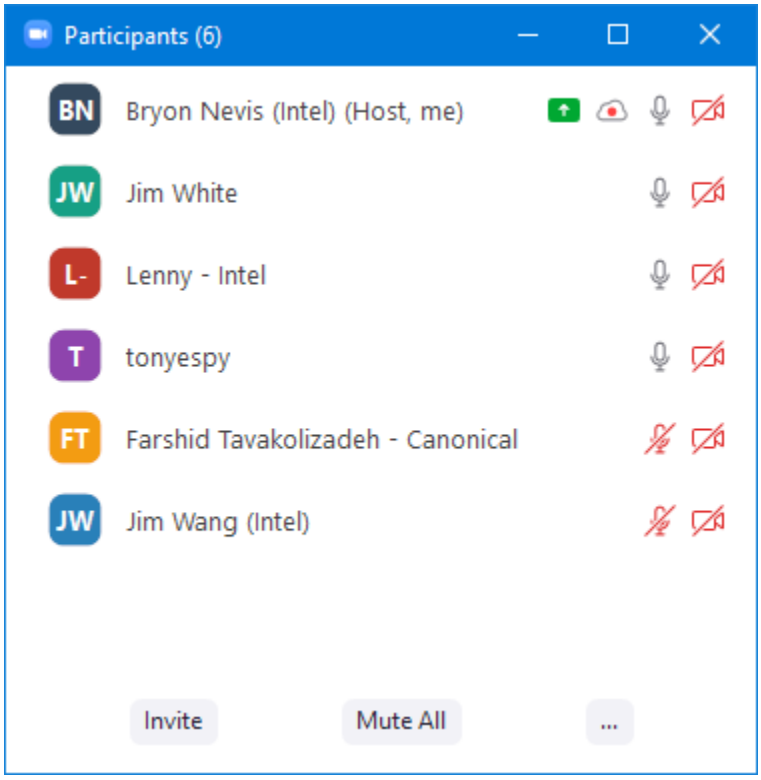
EdgeX Security WG Meeting

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

April 13, 2022

Attendees



Agenda

- SPIFFE/SPIRE Delayed Start ADR Status Update
  - configuration.toml updates rolled out in edgex-go
  - Conditional compilation updates working their way through
    - Blocked on Lenny's PR
    - Next step would be makefile changes to disable spiffe in the core services
  - Still investigating compatibility with Snap deployment
    - Not entirely sure if can do the workload attestation in snaps because the snap mount path includes the revision number in the path – can the SPIFFE server support path wildcarding?
    - To run experiments to see if wildcard paths are supported
  - Summary: on track for docker…. TBD for snaps

- EdgeX Ireland shuts down after 168h when security is enabled (hits Vault default_lease_ttl) https://github.com/edgexfoundry/edgex-go/issues/3963
    - Description of the default_lease_ttl and max_lease_ttl https://learn.hashicorp.com/tutorials/vault/tokens#ttl-and-max-ttl
    - Code in EdgeX that sets the least_ttl values (for snap): https://github.com/edgexfoundry/edgex-go/blob/main/snap/local/runtime-helpers/config/security-secret-store/vault-config.hcl
    - Failure scenario:
        - Vault service tokens hit lease ttl and are automatically expired
        - Expiration of vault token causes consul token to be revoked
        - Go-mod-configuration's Writeable watcher fails because Consul token is no longer valid
        - Ireland not fixable; Jakarta has security token retry logic
    - Proposed fix
        - Add a timer to security-secretstore-setup to push new tokens out to the secrets volume prior to expiry of default_lease_ttl
        - Look into making it easier to extend the default lease
        - Make security-secretstore-setup behavior dynamic based on the lease_ttl that is currently in use
        - Try to have a fix prototyped for April 20
        - Triage as part of pre-planning on the 20th.
        - Will need to have a Jakarta LTS release

- Bin list
    - May 11: NetFoundry is starting a project called OpenZiti that provides a link library to secure service communications via a link library with multiple language bindings.
    - Rebuild Jakarta docker images to refresh base images post-Kamakura
    - AR: Bryon. Tabulate the current state of the Jakarta images
    - Nik Huge - present enhancement request for identity at the edge?

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: Tue Nov 16 05:36:01 UTC 2021
- Review Snyk (Jenkins) (will skip unless something changes) (Imagelist)
    - https://app.snyk.io/vuln/SNYK-GOLANG-GOLANGORGXTEXTINTERNALLANGUAGE-2400718

        - build(deps): bump github.com/go-playground/validator/v10 from 10.10.0 to 10.10.1 #706 merged yesterday
- 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.