

EdgeX Security WG Meeting

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

August 31, 2022

Attendees

Participants (9)

Find a participant

Participant	Video	Audio	Chat
BN Bryon Nevis (Intel) (Host, me)	On	Muted	Off
L- Lenny - Intel	Off	Muted	Off
RH Rodney Hess (Beechwoods)	Off	Off	Off
FT Farshid Tavakolizadeh - Canonical	Off	Muted	Off
JW Jim Wang (Intel)	Off	Muted	Off
JW Jim White	Off	Muted	Off
JS josh silverio- Intel	Off	Muted	Off
V(Valina (Intel)	Off	Muted	Off
JB James Butcher	Off	Muted	Off

Invite Mute All ...

Agenda

- Update on secure MQTT

- This enhancement changes the way that compose-builder functions with MQTT is specified as part of the builder options. Modifies bootstrapper and secret store setup as well.
- Implementation is mostly complete, testing in edge-compose; PR expected this week or early next week.
- Minor question on what to do with eKuiper. Need to inject eKuiper configuration with MQTT instead of Redis. Should be done as a followup PR.
- Question on adding registry ACL roles
 - Bug: ADD_REGISTRY_ACL_ROLES doesn't seem to have an effect if it is changed after the initial start of EdgeX
 - Reference: <https://docs.edgexfoundry.org/2.2/security/Ch-Configuring-Add-On-Services/>
 - Jim Wang will confirm bug.
- Inspection of IOTech Threat Model
 - Jim White will attempt to convert to markdown for review in Github.
 - Will plan to upload original sources into edgex-docs. Place alongside existing secret store threat model (https://docs.edgexfoundry.org/2.2/threat-models/secret-store/threat_model/) and add an index to refer to our threat models.
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Assumptions: Make sure report has single host.

Config mitigation:

- Remove docker network reference
- Now have per service ACLs

Consul data Spoof mitigation

- Change to rely on docker/snap root access to be spoofed

Config file disclosure

- N/A

Spoofing Redis (both directions)

- Creds don't apply
- Need root access
- Optional: Use TLS if distributed

Broker Access

- Restricted to authorized services,
- No mitigation for authorized

Redis DoS

- Add Scheduler pruning data. frequency can be adjusted as needed.

ID Threat is missing for Redis

- Review why

Vault Spoofing

- Change to use service token

Vault DoS

- Auth required
- No mitigation for Authorized users

Vault data access

- Add service token
- Add local access only

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?)