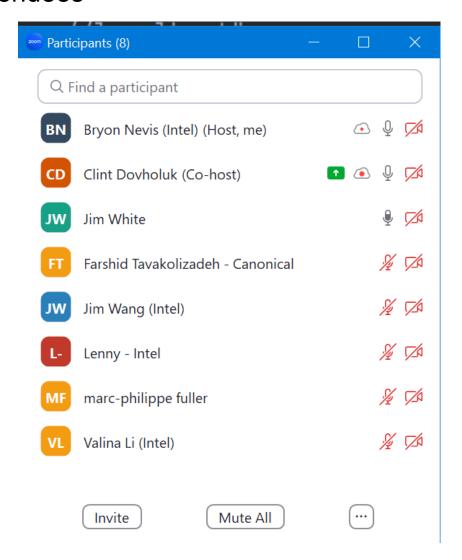
EdgeX Security WG Meeting

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

January 11, 2023

Attendees



Agenda

TSC Update

• STRIDE Threat Model hopefully merge today or in the next day or two

- Fix for GHSA-xrjj-mj9h-534m and GHSA-69ch-w2m2-3vjp bubbling through with go-mod-secrets update
- Microservice authentication UCR voting underway (docs#920). ADR updates next.
- OpenZiti and Vault JWT authentication prototypes are well along
 - JWT prototype: 80MB RAM saved (160->80), 329MB images saved (docker, 353->24)
 - o OpenZiti: no numbers yet (docker stats, docker images) before and after

Opens

Clint to demo OpenZiti

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Have added OpenZiti to go-mod-bootstrap

```
[Clients.core-metadata]
Protocol = "http"

post = "localhost"

Port = 59881

[Clients.core-metadata.ZeroTrustOptions]

IdentityFile="c:/temp/svc.core-command.identity.json"
```

- With this change, outgoing requests will go over a zero trust transport.
- For listeners:

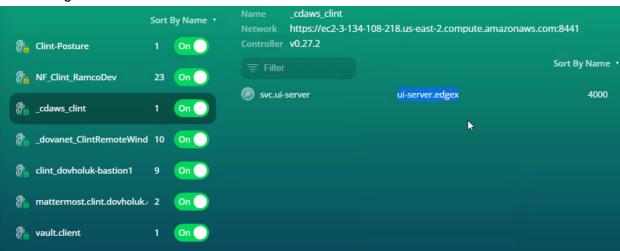
0

```
CURSExposeHeaders = "Cache-Control, Content-Language, Content-Length, Content-Ty
CORSMaxAge = 3600
[Service.ListenOptions]
IdentityFile="c:/temp/svc.core-command.identity.json" \[
ServiceName="svc.core-command"
```

Connecting to UI over zero trust network:

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Note: despite connecting to port 4000, there is no listening port on 4000:



Discussion to follow

- Limitation: Can't Zitify non-edgeX services like Redis, Mosquitto, etc easily without using LD PRELOAD.
 - Leaves a hole for cross-network communication
 - Could send the external services via a tunneler
- Using Vault to control access to zero trust overlay
 - Need to distribute PKI
- Overlay will require controller and a router
 - Clint's perspective: would naturally assume an OpenZiti network already exists
- THINK ABOUT
 - What if EdgeX provided multiple compose files that needed to be run to bring up an EdgeX system
 - Base services: redis, mosquitto, consul, etc
 - Zero trust: openziti router and controller
 - EdgeX services themselves: data, metadata, command, ...
- Current limitation: Openziti must always read key and certificate off of disk. If get key/cert from vault, need to buffer it on disk.

Standing Agenda

- Review Security Board
- <u>Review CIS docker scan</u> (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.

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