

Open Horizon project TSC Meeting

November 7, 2022



Meeting Details

Time: November 7, 2022 11:00 AM Pacific Time (US and Canada)

Please download and import the following iCalendar (.ics) files to your calendar system.

https://zoom.us/meeting/tJMrce2hqTijHNa60DHyv9sn847QK4LGK_Gf/ics?icsToken=98tyKuCvqD0uE9OcuR-FRowEBI_oLPPwtlhEgo1cyk_BKzIFoxD4brYVA5krPP_7

Join Zoom Meeting

<https://zoom.us/j/97664979962?pwd=TIY3dUk4K0Y3WnZXMjVMeisreGRkQT09>

Meeting ID: 976 6497 9962

Passcode: 312515

Find your local number: <https://zoom.us/u/ac5YZ6pqGW>

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Open Horizon TSC

Working Group or Partner	Representative
Agent	David Booz
DevOps	Ben Courliss
Documentation	Joe Pearson
Examples	Troy Fine
Management Hub	Nathan Phelps
Outreach	Susan Bowlin
Partner: mimik Technology	Michel Burger
Partner: Accuknox	Rahul Jadhav
Partner: IBM	Kavitha Bade

Announcements

OpenSSL Critical Vulnerability, Downgraded to High

OpenSSL initially posted that researchers had uncovered a critical vulnerability, and that everyone should be prepared to address when the CVE will be issued and the vulnerability detailed on November 1. *Joe notified TAC and Project Lead mailing lists and requested response from TSCs.*

- › CVEs were High, not Critical:
<https://www.openssl.org/news/vulnerabilities.html#CVE-2022-3786>
- › Announcement: <https://mta.openssl.org/pipermail/openssl-announce/2022-November/000241.html>
- › Release Notes: <https://www.openssl.org/news/openssl-3.0-notes.html>

Project Status relating to CVEs (links to vulnerability disclosure page)

- › Akraino: Security subcommittee will look into it for each blueprint
- › Baetyl:
- › EdgeX Foundry: believe not affected and so fixes are not needed. The Kong instance does not request client authentication and the issue only affects openssl 3.x branches which are not used by our (alpine) base images
- › eKuiper: no fixes needed – do not use OpenSSL in source or v3 in containers
- › EVE: no fixes needed - debug container uses v1.1.1, GoLang TLS
- › Fledge: no fixes needed - we only use v1.1.1
- › [Home Edge](#):
- › [Open Horizon](#): fix likely not needed - Exchange container uses UBI, will rebuild out of caution when UBI 9 released, GoLang TLS, updated [SECURITY.md](#)
- › Project Alvarium: no known direct dependency on OpenSSL, possibly golang:1.17-alpine for scoring apps
- › Secure Device Onboard: no immediate impact to FDO. OpenSSL 3 not used. Will upgrade to 3.0.7 later.
- › State of the Edge:

What are projects responsible for? What should TAC do?

All: Work towards meeting questions in [OpenSSF Best Practices](#).

- > There **MUST** be no unpatched vulnerabilities of **medium** or **higher** severity that have been publicly known for more than 60 days.
- > Projects **SHOULD** fix all **critical** vulnerabilities rapidly after they are reported.

Impact Stage: **“Establish a security and vulnerability process”**

- > Akraino:
- > EdgeX Foundry: [wiki](#) - SIR team, reporting process, response process, list of known issues
- > Home Edge: Posted a [SECURITY.md](#) policy in GitHub listing vulnerabilities, reporting process and responses.
- > OH: Security Team, private mailing list for publish submissions, [SECURITY.md](#) file in .github repository, adding known vulnerabilities page to documentation site.

Open Horizon's response to OpenSSL Vulnerability

- › Held first meeting (not in public) of WG leads as security response team.
- › Formulated plan of action to address:
 - › Roughed out plan with contingencies based on best guesses until CVE issues
 - › Investigated source code and containers
 - › Determined no direct usage of OpenSSL libraries, used GoLang implementation
 - › Determined [UBI container should be refreshed](#)
 - › Created [site-wide security policy](#) in GitHub
 - › Created publicly-available private mailing list for vulnerability submissions
- › Overall, it was an effective and quick response. How can we improve on it?

Transitioning from Akka (to Pekko?)

- › Akka is moving to a BSL 1.1 software license next year, which is incompatible with Linux Foundation projects.
- › Nathan Phelps has looked into alternatives. What is the current status and next steps?

Working Group Updates

LF Edge Accepted Talks at ONE Summit

- › [Rapidly Scaling Actionable Insights at the Point of Interaction](#)
 - › Speakers: Mahesh Dodani, Industry Chief Engineer, Distribution Industries, IBM and Sean Williams, Product Marketing Engineer, Intel
 - › Featured LF projects: EdgeX Foundry, Open Horizon
- › [Fusion of Sensors and Robot](#)
 - › Speaker: Fukano Haruhisa, Architect, Fujitsu
 - › Featured LF project: Akraino
- › [Reducing Factory Downtime – Edge Technology in Manufacturing](#)
 - › Speakers: Hanen Garcia, Global Telco Solutions Manager, Red Hat and Ranine Haidous, Software Architect, IBM
- › [Proliferation of Edge Computing in Smart Home](#)
 - › Speakers: Suresh Lalapet Chakravarthy, Staff Engineer, Samsung R&D Institute India – Bangalore and Nitu Sajjanlal Gupta, Lead Engineer, Samsung R&D Institute India – Bangalore
 - › Featured LF project: Home Edge
- › [Zero Trust and Runtime Security for Edge](#)
 - › Speaker: Rahul Arvind Jadhav, Cofounder and Engg Lead, Accuknox
 - › Featured LF project: Open Horizon
- › [The Promise of Edge and Sustainable Agriculture – Daniel Eberz, DLR Rheinessen-Nahe-Hunsrueck](#)
 - › Speaker: Daniel Eberz, DLR Rheinessen-Nahe-Hunsrueck
 - › Featured LF project: Open Horizon
- › [Lightning Talk: Rectified Location Prediction Technique for Active Vehicle Location Tracking Using a Road-Aware Approach for Connected Cars](#)
 - › Speakers: Asif Mehmood, Ph.D. Candidate, Jeju National University and Wang-Cheol Song, Professor, Jeju National University
 - › Featured LF project: Akraino
- › [Hands-on Edge Orchestration Workshop – Learn Techniques Used by Big Industry to Deploy at Scale](#)
 - › Speakers: Kathy Giori, Director of Product Engineering, ZEDEDATA and Mikhail Malyshev, Sr Software Engineer, ZEDEDATA
 - › Featured LF project: Project EVE
- › [Lessons from the Field: Making the Edge Tamper-Proof](#)
 - › Speaker: Erik Nordmark, Chief Architect, ZEDEDATA
 - › Featured LF project: Project EVE
- › [DevOps Infra Orchestration for Cloud Native 5G and Edge Deployments](#)
 - › Speakers: Oleg Berzin, Fellow Technology and Architecture Office of the CTO, Equinix and Trishan de Lanerolle, Principal Technical Program Manager Office of the CTO, Equinix
 - › Featured LF project: Akraino
- › [Building an Edge / IoT Solution with EdgeX Foundry](#)
 - › Speaker: Jim White, CTO, IOTech System
 - › Featured LF project: EdgeX Foundry

Next Meeting

Next Meeting

- › Next Meeting: Monday, December 5 @ 11:00am PT/02:00pm ET
 - › November 21 is Thanksgiving week, are most people out?

Thank You

Repositories per Working Group

Agent	DevOps	Documentation	Examples	Mgmt Hub
anax edge-sync-service edgeengine-integration edge-sync-service-client rsapss-tool mms-cloud-container	devops horizon-deb-packager edge-utilities	.github artwork open-horizon.github.io documentation-migration project-summary	examples open-horizon-services	exchange-api SDO-support vault-exchange-auth