

# Security Working Group

A group dedicated to improve EdgeX security through architecture, documentation, code review, vulnerability management.

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## Key Working Group Facts

**Working Group Creation Date:** June 2, 2017

**Working Group Chair:** [Colin Hutchinson](#) (Kong) - Past Chairs: Malini Bhandaru (VMware) , Tingyu Zeng (Dell), [Doug Gardner](#) (ADI), [David Ferreira](#) (ForgeRock)

**Security Issue Reporting Process:**

- Send private email to: [security-issues@lists.edgexfoundry.org](mailto:security-issues@lists.edgexfoundry.org)
  - TSC Ratified Process: [EdgeX Process for Addressing Security Issues-v5.pdf](#). (note: use above email address for reporting)
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## Mailing List

- Security team's mail alias: [edgex-tsc-security@lists.edgexfoundry.org](mailto:edgex-tsc-security@lists.edgexfoundry.org)
  - To subscribe or unsubscribe via the World Wide Web, visit: <https://lists.edgexfoundry.org/g/EdgeX-TSC-Security>
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## Discussion Forum

- #security on [https://join.slack.com/t/edgexfoundry/shared\\_invite/enQtNDgyODM5ODUyODY0LWVhY2VmOTcyOWY2NjZhOWJjOGI1YzQ2NzYzZmIxYzAzN2IzYzY0NTVmMWZlZjNkMjVmODNiZGZmYTkzZDE3MjTA](https://join.slack.com/t/edgexfoundry/shared_invite/enQtNDgyODM5ODUyODY0LWVhY2VmOTcyOWY2NjZhOWJjOGI1YzQ2NzYzZmIxYzAzN2IzYzY0NTVmMWZlZjNkMjVmODNiZGZmYTkzZDE3MjTA)
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## Meeting Time

- Security Working Group meetings are open to the public, and are held weekly.
- Security Working Group meetings are held on Wednesday's at 9am PT (find your local time [here](#))
- To subscribe to the meeting invitation, please visit [Community Meetings & Calendar](#)

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Dial-In Info:

EdgeX Working Group 2 is inviting you to a scheduled Zoom meeting.

Topic: EdgeX: Security Working Group - Weekly Call  
Time: Sep 23, 2020 09:00 AM Pacific Time (US and Canada)  
Every week on Wed, until Sep 1, 2021, 50 occurrence(s)

Please download and import the following iCalendar (.ics) files to your calendar system.  
Weekly: <https://zoom.us/join/externalMeeting?pwd=UTVtMkZYL1RXSTIKZWFRit3MFJ4Zz09>  
<https://zoom.us/join/externalMeeting?pwd=UTVtMkZYL1RXSTIKZWFRit3MFJ4Zz09>

Join Zoom Meeting  
<https://zoom.us/j/576218946?pwd=UTVtMkZYL1RXSTIKZWFRit3MFJ4Zz09>

Meeting ID: 576 218 946  
Passcode: 497212  
One tap mobile  
+12532158782,,576218946# US (Tacoma)  
+13462487799,,576218946# US (Houston)

Dial by your location  
+1 253 215 8782 US (Tacoma)  
+1 346 248 7799 US (Houston)  
+1 669 900 6833 US (San Jose)  
+1 301 715 8592 US (Germantown)  
+1 312 626 6799 US (Chicago)  
+1 646 558 8656 US (New York)  
855 880 1246 US Toll-free  
877 369 0926 US Toll-free  
Meeting ID: 576 218 946  
Find your local number: <https://zoom.us/j/576218946>

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## Meeting Minutes

- January 20, 2021: [Security WG Meeting 01-20-2021](#); [Meeting Recording](#)
- January 13, 2021: [Security WG Meeting 01-13-2021](#); [Meeting Recording](#)
- January 6, 2021: [Security WG Meeting 01-06-2021](#); [Meeting Recording](#)
- December 16, 2020: [Security WG Meeting 16-12-2020](#); [Meeting Recording](#)
- December 9, 2020: [Security WG Meeting 9-12-2020](#); [Meeting Recording](#)
- December 2, 2020: [Security WG Meeting 2-12-2020](#); [Meeting Recording](#)
- November 18, 2020: [Security WG Meeting 11-18-2020 Meeting Recording](#)
- November 5, 2020: [Meeting Recording](#) (Extra meeting to develop Security tasks/priority list for Ireland)
- November 4, 2020: [Meeting Recording](#)
- October 28, 2020: [Meeting Recording](#)
- October 21, 2020: [Security WG Meeting 10-21-2020](#); [Meeting Recording](#)
- September 30, 2020: [Security WG Meeting 09-30-2020](#); [Meeting Recording](#)
- September 23, 2020: [Security WG Meeting 09-23-2020](#); [Meeting Recording](#)
- September 9, 2020: [Security WG Meeting 09-09-2020](#); [Meeting Recording](#)
- September 2, 2020: [Security WG Meeting 09-02-2020](#); [Meeting Recording](#)
- August 26, 2020: [Security WG Meeting 08-26-2020](#); [Meeting Recording](#)
- August 19, 2020: [Security WG Meeting 08-19-2020](#); [Meeting Recording](#)
- August 12, 2020: [Security WG Meeting 08-12-2020](#); [Meeting Recording](#)
- August 5, 2020: [Security WG Meeting 08-05-2020](#); [Meeting Recording](#)
- July 29, 2020: [Security WG Meeting 07-29-2020](#); [Meeting Recording](#)
- July 22, 2020: [Security WG Meeting 07-22-2020](#); [Meeting Recording](#)
- July 15, 2020: [Security WG Meeting 07-15-2020](#); [Meeting Recording](#)
- July 8, 2020: [Security WG Meeting 07-08-2020](#); [Meeting Recording](#)
- June 24, 2020: [Security WG Meeting 06-24-2020](#); [Meeting Recording](#)
- June 17, 2020: [Meeting Minutes](#); [Meeting Recording](#)
- June 10, 2020: [Meeting Minutes](#); [Meeting Recording](#) (Password: 8A^&HL69)
- June 3, 2020: [Meeting Minutes](#); [Meeting Recording](#) (Password: 1Z=Cl?w^)
- May 20, 2020: [Meeting Minutes](#); [Meeting Recording](#) (Password: 1D%7\$j&2)
- May 13, 2020: [Meeting Minutes](#); [Meeting Recording](#) (Password: 6U#=Q%?^)
- May 12, 2020: [Edgex-Arm integration kick-off meeting](#)
- April 22, 2020: [Meeting Minutes](#); [Meeting Recording](#) (Password: 6l\*?%05)
- April 15, 2020: [Meeting Minutes](#); [Meeting Recording](#) (Access Password: y6&2?H4h)
- April 8, 2020: [Meeting Minutes](#); [Meeting Recording](#)
- March 25, 2020: [Meeting Minutes](#); [Meeting Recording](#)
  - ~~Hanoi Release~~ (all - for latest update of Hanoi Release Planning doc, please go [here](#))
- March 18, 2020: [Meeting Minutes](#); [Meeting Recording](#)
- March 11, 2020: [Meeting Minutes](#); [Meeting Recording](#)
- March 4, 2020: [Meeting Minutes](#); [Meeting Recording](#)
  - [Security Input to EdgeX 2.0 API](#)
- February 26, 2020: [Meeting Minutes](#); [Meeting Recording](#)
- February 19, 2020: [Meeting Minutes](#); [Meeting Recording](#)
- February 12, 2020: [Meeting Minutes](#); [Meeting Recording](#)
- February 5, 2020: [Meeting Minutes](#); [Meeting Recording](#)
  - [Proposal to secure API V2 \( by Bryon Nevis\) : EdgeX API 2.0 security](#)
- January 29, 2020: [Meeting Minutes](#); [Meeting Recording](#)
- January 22, 2020: [Meeting Minutes](#); [Meeting Recording](#)
- January 15, 2020: [Meeting Minutes](#); [Meeting Recording](#)
- January 8, 2020: [Meeting Minutes](#); [Meeting Recording](#)
- December 18, 2019: [Meeting Minutes](#); [Meeting Recording](#)
- December 11, 2019: [Meeting Minutes](#); [Meeting Recording](#)
- December 4, 2019: [Meeting Minutes](#); [Meeting Recording](#)
- November 20, 2019: [Meeting Minutes](#); [Meeting Recording](#)
- November 13, 2019: [Meeting Minutes](#); [Meeting Recording](#)
- October 30, 2019: Meeting cancelled
- October 23, 2019: [Meeting Minutes](#); [Meeting Recording](#)
- October 16, 2019: [Meeting Minutes](#); [Meeting Recording](#)
- October 2, 2019: [Meeting Minutes](#); [Meeting Recording](#)
- September 25, 2019: [Meeting Minutes](#); [Meeting Recording](#)
- September 18, 2019: [Meeting Minutes](#); [Meeting Recording](#)

- September 11, 2019: [Meeting Minutes](#); [Meeting Recording](#)
- September 4, 2019: [Meeting Minutes](#); [Meeting Recording](#)
- August 28, 2019: [Meeting Minutes](#); [Meeting Recording](#)
- August 14, 2019: [Meeting Recording](#)
- August 7, 2019: [Meeting Minutes](#); [Meeting Recording](#)
- July 24, 2019: [Meeting Minutes](#); [Meeting Recording](#)
- July 17, 2019: [Meeting Minutes](#); [SAST Slides](#); [Meeting Recording](#)
- July 10, 2019: [Meeting Minutes](#); [Meeting Recording](#)
- June 26, 2019: [Meeting Minutes](#); [Meeting Recording](#)
- June 19, 2019: [Meeting Minutes](#); [Meeting Recording](#)
- June 12, 2019: [Meeting Minutes](#); [Meeting Recording](#)
- June 5, 2019: [Meeting Minutes](#); [Meeting Recording](#)
- May 29, 2019: [Meeting Minutes](#); [Meeting Recording](#)
- May 22, 2019: [Meeting Minutes](#); [Meeting Recording](#)
- May 15, 2019: [Meeting Minutes](#); [Meeting Recording](#)
- May 8, 2019: [Meeting Recording](#)
- April 24, 2019: [Meeting Recording](#)
- April 17, 2019: [Meeting Minutes](#); [EdgeX Process for Addressing Security Issues-v5.pdf](#); [EdgeX Process for Addressing Security Issues-v5.docx](#); [Protecting EdgeX Secrets-v7.pdf](#); [Protecting EdgeX Secrets-v7.docx](#); [Meeting Recording](#)
- April 10, 2019: [Meeting Minutes](#); [Protecting EdgeX Secrets-v7.pdf](#); [Protecting EdgeX Secrets-v7.docx](#); [Meeting Recording](#)
  - Intel (Bryon and Jim) roadmap doc to explore; <https://docs.google.com/presentation/d/17W7MghqrZUu5sIHnS4F6GtOYkPWObJP-e9Tieh2qbRI/edit?pli=1#slide=id.p>
  - Threat Model: <https://github.com/bnevis-i/security-secret-store/pull/1>
  - Tingyu's design for Vault initialization program and Mongo init script: [Security Store Service for MongoDB microservice.docx](#)
- April 3, 2019: [Meeting Minutes](#); Documents covered and requesting review: [Protecting EdgeX Secrets-v6.pdf](#) [Protecting EdgeX Secrets-v6.docx](#) [EdgeX Process for Addressing Security Issues-v4.pdf](#); [EdgeX Process for Addressing Security Issues-v4.docx](#); [Meeting Recording](#)
  - Intel's Exploration of EdgeX security (Threat Modeling and what's next) presentation: [https://docs.google.com/presentation/d/17W7MghqrZUu5sIHnS4F6GtOYkPWObJP-e9Tieh2qbRI/edit?pli=1#slide=id.g556c569946\\_0\\_6](https://docs.google.com/presentation/d/17W7MghqrZUu5sIHnS4F6GtOYkPWObJP-e9Tieh2qbRI/edit?pli=1#slide=id.g556c569946_0_6)
  - Intel's Threat Model for Secret Store: <https://github.com/bnevis-i/security-secret-store/pull/1>
- March 27, 2019: [Meeting Minutes](#); [Meeting Recording](#); Documents reviewed: [Protecting EdgeX Secrets-v4.pdf](#) [EdgeX Process for Addressing Security Issues-v3.pdf](#)
- March 13 & 20th, 2019: Canceled
- March 6, 2019: [Minutes](#); [Meeting Recording](#)
- February 27, 2019: Canceled
- February 20, 2019: [Meeting Recording](#)
- February 13, 2019: Canceled
- February 6, 2019: Canceled
- January 30, 2019: [Meeting Recording](#)
- January 16, 2019: [Meeting Recording](#)
- January 9, 2019: [Meeting Recording](#)
- December 12, 2018: [Meeting Recording](#)
- December 5, 2018: [Slides](#) and [Meeting Recording](#)
- November 28, 2018: [Slides](#) and [Meeting Recording](#)
- November 21, 2018: Canceled
- November 14, 2018: [Slides](#) and [Meeting Recording](#)
- November 7, 2018: [Slides](#) and [Meeting Recording](#)
- October 31, 2018: Canceled
- October 10, 2018: [Slides](#) and [Meeting Recording](#)
- September 26, 2018: [Meeting Recording](#)
- September 19, 2018: [Meeting Recording](#)
- September 12, 2018: [Meeting Recording](#)
- September 5, 2018: [Meeting Recording](#)
- August 31, 2018: [Meeting Recording](#) (HRoT working session); Link to TPM specs and policies
- August 29, 2018: [Meeting Recording](#)
- August 22, 2018: [Meeting Recording](#)
- August 1, 2018: [Meeting Recording](#)
- July 25, 2018: [Meeting Recording](#)
- July 11, 2018: [Meeting Recording](#)
- June 27, 2018: [Meeting Recording](#)
- June 20, 2018: [Meeting Recording](#)
- June 13, 2018: [Meeting Recording](#)
- June 6, 2018: Canceled since F2F meeting is occurring this week.
- May 30, 2018: [Slides](#) and [Meeting Recording](#)
- May 23, 2018: [Slides](#) and [Meeting Recording](#)
- May 16, 2018: [Slides](#) and [Meeting Recording](#)
- May 9, 2018: [Slides](#) and [Meeting Recording](#)
- May 2, 2018: [Slides](#) and [Meeting Recording](#)
- April 25, 2018: Cancelled
- April 18, 2018: Cancelled
- April 11, 2018: [Slides](#) and [Meeting Recording](#)
- April 04, 2018: [Slides](#) and [Meeting Recording](#)
- March 28, 2018: Cancelled
- March 21, 2018: [Slides](#) and [Meeting Recording](#)
- March 14, 2018: [Slides](#) and [Meeting Recording](#)
  - IIC Endpoint Security Best Practices Final Mar 2018 document: [http://www.iiconsortium.org/pdf/Endpoint\\_Security\\_Best\\_Practices\\_Final\\_Mar\\_2018.pdf](http://www.iiconsortium.org/pdf/Endpoint_Security_Best_Practices_Final_Mar_2018.pdf)
  - Snapshot of [Secure Proxy + Authentication Options for EdgeX](#)
  - Snapshot of [EdgeX-simple-jwt-auth--DRAFT](#)
- March 7, 2018: [Slides](#) and [Meeting Recording](#)

- February 28, 2018: [Slides](#) and [Meeting Recording](#)
  - a draft copy of Simple Auth Service (.docx.odt format)
- February 21, 2018: [Slides](#) and [Meeting Recording](#)
- February 14, 2018: [Slides](#) and [Meeting Recording](#)
- February 7, 2018: [Slides](#) and [Meeting Recording](#)
- January 31, 2018: [Meeting Recording](#)
- January 24, 2018: [Slides](#) and [Meeting Recording](#)
- January 10, 2018: [Meeting Recording](#)
- January 3, 2018: [Slides](#) and [Meeting Recording](#)
- December 20, 2017: [Meeting Recording](#)
- December 13, 2017: [Slides](#) and [Meeting Recording](#)
- November 29, 2017: [Slides](#) and [Meeting Recording](#)
- November 15, 2017: [Slides](#) and [Meeting Recording](#)
- November 8, 2017: [Meeting Recording](#)
- November 1, 2017: [Slides](#) and [Meeting Recording](#)
- October 25, 2017: [Slides](#) and [Meeting Recording](#)
- October 11, 2017: [Slides](#) and [Meeting Recording](#)
- September 27, 2017: [Slides](#) and [Meeting Recording](#)
- September 20, 2017: [Slides](#) and [Meeting Recording](#)
- September 13, 2017: [Slides](#) and [Meeting Recording](#)
- September 6, 2017 Meeting - We reviewed the final outcome of the F2F meeting. Please click on this link to see the outcome and final slide deck: [Link](#)
- August 29 + 30: F2F Meeting - See [29](#) and [30 August 2017: Palo Alto, CA](#)
- August 23: [Meeting Recording](#)
- August 16, 2017: [Slides](#)
- August 9, 2017: [Slides](#)
- July 7, 2017: [Slides](#); [Notes and Actions](#); [Meeting Recording](#)
- June 1-2, 2017: [Slides](#)

## Documents

- [Vault master key protection-DRAFT-v0.5.pdf](#)
- [Hardware-based Secure Storage Design - DRAFT](#)
  - Ongoing work in online document @ <https://docs.google.com/document/d/1MsTNdwtZp3zA-nPhCC3COakL3e5mrhJuFByy6ja5OxU/edit?ts=5c1a5e4>. Request access at this link.
- [EdgeX Security Roadmap for Delhi, Edinburgh, Fuji and beyond](#)
- [Security Working Group Google Drive Folder](#)
- [Consolidated Feature Backlog Document](#)
- [FuseSecurityRequirements-Jan2017.docx](#)