Meeting Details

› March 24, 2021 (@ 7:00am PDT)
› Meeting Info:
  › Meeting URL: https://zoom.us/i/94796108342?pwd=VjlaMTBxcXFQQ3pVcU85NTjWkxaZz09
  › Calendar Subscription: https://lists.lfedge.org/g/TAC/calendar
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Topics

1. Digital Twin Consortium
2. Akraino Blueprints
   a. Re-introduction to include BP requirements (e.g. all open source; commercial hardware components, etc?)
3. Shared Community Lab - Wiki tour (Resource walk-through)
4. Upcoming Events / Next Meeting
Digital Twin Consortium
Jim White
Digital Twin Consortium

- Digital Twin Consortium coalesces industry, government and academia to drive consistency in vocabulary, architecture, security and interoperability of digital twin technology. It advances the use of digital twin technology from aerospace to natural resources.
- Website: [https://www.digitaltwinconsortium.org/](https://www.digitaltwinconsortium.org/)
- As part of planned collaboration between EdgeX Foundry and Digital Twin, the Linux Foundation entered into a [MOU](https://www.digitaltwinconsortium.org/)
- DTC Press Release + EdgeX Blog to follow
- EdgeX work will begin under their Application Services and Core Work Groups
  - Next step is a working meeting to present EdgeX to DTC members, to start identifying deliverables
  - Those interested in participating in the discussion can join the EdgeX mailing lists for [Application Services](https://www.digitaltwinconsortium.org/) and/or [Core](https://www.digitaltwinconsortium.org/) WG
What is an Akraino Blueprint?

Community Integrated, tested, deployable, end to end Edge Stack

Benefits:
- Low Cost
- Large Scale
- Zero Touch Provisioning
- Industry Adoption
- OCP Whitebox/OEM H/W
Akraino Blueprints

› Propose a new Blueprint: https://wiki.akraino.org/display/AK/Blueprint+Proposals (sample)
› Blueprint Families concept vs. Individual Blueprints
› Questions?

› Akraino TSC mail list
Shared Community Lab - Wiki tour (Resource walk-through)
Lincoln Lavoie
Shared Community Lab - Wiki tour (Resource walk-through)

›  https://wiki.lfedge.org/display/LE/Shared+Community+Lab
›  Lab Resources
  ›  Available Resources: https://wiki.lfedge.org/display/LE/Lab+Resources
  ›  How to initiate a request for Lab Resources: https://wiki.lfedge.org/display/LE/Getting+Started
›  Have a request for resources not currently available in the LF Edge Community Lab?
  ›  Bring for discussion at the next Community Lab Subcommittee meeting
    ›  Can also initiate discussion over the Mail List, or reach out to Lincoln (Chair) directly
›  Questions?
Upcoming Events
Upcoming External Events

- **Embedded IoT World**: 28-29 April, 2021 - Virtual
- **Kubernetes on Edge Day**: 4 May, 2021 - Virtual
- **Open Source Summit Europe / Embedded Linux Conference**: 28 Sept - 1 Oct, 2021 - Dublin, Ireland
  - CFP Deadline: 13 June, 2021
- **OSPOCon**: 29 Sep - 1 Oct, 2021 - Dublin, Ireland
  - CFP Deadline: 13 June, 2021
- **IoT Solutions World Congress**: 5-7 October, 2021 - Barcelona, Spain
  - CFP is now open
  - Call for Testbeds is now open
- **Open Networking & Edge Summit North America**: 11-12 October, 2021 - Los Angeles, CA

Discussions around upcoming events occur in the LF Edge Outreach Committee
Members may subscribe at: [https://lists.lfedge.org/g/outreach-committee](https://lists.lfedge.org/g/outreach-committee)
LF Live: Mentorship Series + LFX Webinar Series

› Generating Software Bill of Materials: 25 March, 2021
› KUnit Testing Strategies: 31 March, 2021
› Kernel Validation With Kselftest: 14 April, 2021

› Join the LF Live: Mentorship Series mailing list and be alerted when new sessions are added!
  › Sign up available at the bottom of https://events.linuxfoundation.org/lf-live-mentorship-series/

› Full list of LF Webinars (upcoming/recorded) available at https://linuxfoundation.org/webinars/
Next Meeting
Next Meeting

› Next Meeting: Wednesday, April 7 @ 7am PT
  › Topics
    › End User Solution Groups
    › EdgeX Ready
    › EdgeX Ireland Release
  › Future Topics
    › TBD
Thank You
Backup/Resources
LF Edge Projects

Stage 1: At Large Projects
- Baetyl, Secure Device Onboard

Stage 2: Growth Projects
- EVE, Fledge, Home Edge, Open Horizon, State of the Edge

Stage 3: Impact Projects
- Akraino, EdgeX Foundry

Applications

Infrastructure

Distributed Devices and Systems
- MCU-based devices
- Embedded compute
- Smartphones, PCs, ruggedized IoT gateways and servers in accessible to semi-secure areas

Buildings / Factories / Smart Homes
- Servers in secure on-prem data centers, MDCs

Last Mile Networks
- Access Networks
- Aggregation Hubs/COs
- Regional Data Centers
- Centralized Data Centers

Stage 1:
- Server-based compute at Telco Network and Edge Exchange Sites

Stage 2:
- Server-based compute at Regional Telco and Direct Peering Sites

Stage 3:
- Servers in traditional cloud data centers

Constrained Device Edge
- Access Edge

Smart Device Edge
- Regional Edge

On-Prem Data Center Edge

User Edge
- Dedicated, Operated

Service Provider Edge
- Shared, XaaS
Upcoming Release Calendar

› Reminder to Projects to please review and update as needed
› https://wiki.lfedge.org/display/LE/Upcoming+Release+Calendar

Release dates are subject to change.
For the latest information on each Project’s upcoming releases, or access to prior releases, please visit:

- Akraino - https://wiki.akraino.org/display/AK/Releases
- Baetyl - https://github.com/baetyl/baetyl/releases
- EVE - https://github.com/lf-edge/eve/releases > waterfall release model
- Fledge - https://github.com/edge-iot/fledge/releases
- Open Horizon - https://github.com/open-horizon/intx/releases
- Secure Device Onboard - https://github.com/secure-device-onboard/releases
- State of the Edge - https://github.com/lf-edge/glossary#lf-edge-glossary.md
CII Best Practices Badge

› Identifies a set of best practices for OSS projects, focusing on security
› Provides a mechanism for projects to self-certify that they meet these criteria
   › Automation helps & prevents some false answers
› Full presentation here:
› Website where projects can receive a badge here:
   › https://bestpractices.coreinfrastructure.org
› EdgeX Foundry, Home Edge and Open Horizon badging already in progress!
   › https://bestpractices.coreinfrastructure.org/en/projects/1226
   › https://bestpractices.coreinfrastructure.org/en/projects/4336
   › https://bestpractices.coreinfrastructure.org/en/projects/4300
› LF Edge Wiki tracks badge progress here: https://wiki.lfedge.org/
› Proposal: All LF Edge projects be encouraged to get a CII Best Practices badge

From earlier Linux Foundation (LF) Core Infrastructure Initiative (CII) presentation
TAC - Focus Areas for 2020 (what to emphasize / de-emphasize in 2021?)

Target areas identified for the TAC to direct focus, beyond PLD/Project Review

1. **Architecture (Tech > LF Edge) - Output: TBD** *(White paper?)*
2. APIs Document, Align and Publish
3. SDO/Consortiums expansion
4. **Forcing function - Use Case or Deployment > Demo across all projects**
5. Technical overlap/unification
6. Cross Project Collaboration
7. IT Efficiencies

Out of Scope for the TAC (for now)

1. Vertical Solutions (End User / SIG Program)
   a. At Board/SPC level
**LF Edge TAC - Focus Areas for 2021: Continued Discussion**

- One idea raised was for deeper (technical) solution briefs around Use Cases and Deployments
  - Would require commitment (volunteers) from the TAC, Projects, as well as the SPC
- (from prior discussion) White Papers
  - LF Edge level or Project level?
  - General (2020 introduced taxonomy/Projects) or Specific? (e.g. Security, Telemetry)
  - Who would be the audience?
  - Post publishing, vehicle for feedback? Success metrics?
- Other initiatives?
  - Open Edge Services Catalog - creation and cross-project support
  - Common way to document APIs for all the projects
LF Edge Webinar Series - 2020 Recordings

› Akraino Edge Stack
   › Held Thursday, April 2 - Your Path to Edge Computing with Akraino Edge Stack
   › On-demand recording available at: https://zoom.us/webinar/register/WN_Zjdo4-5fTQSlqH7pL8iHrQ

› EdgeX Foundry
   › Held Thursday, April 23 - EdgeX Foundry 101: Intro, Roadmap and Use Cases
   › On-demand recording available at: https://zoom.us/webinar/register/4515850788014/WN_xCd6YPlEOqrCwLIFhBWPKug

› Project EVE
   › Held Friday, May 29 - Building the “Android of the IoT Edge”
   › On-demand recording available at: https://zoom.us/webinar/register/6415888722675/WN_35oZ3hrQE69snMajJUTPg

› White Paper
   › Held Thursday, July 9 - Demystifying the Edge with the new LF Edge Taxonomy and Framework
   › On-demand recording available at: https://zoom.us/webinar/register/9558656819785/WN_5y5h6wFTcuw900xMpgLw

› Fledge
   › Held Thursday, August 13 - How Google, OSIsoft, FLIR and Dianomic use Fledge to implement Industrial 4.0
   › Recording available at: https://www.youtube.com/watch?v=6jXNy3AIWog

› State of the Edge
   › Held Thursday, September 17 - State of the Edge: Exploring the Intersection of IoT, AI, 5G and Edge Computing
   › On-demand recording available at: https://zoom.us/webinar/register/8115959695936/WN_4rt-MmP1Rl6Vkn3ULpiAA

› Home Edge
   › Held Thursday, October 15 - Home Edge: How Your Home Devices Get Deployed in An Edge Computing Services Ecosystem
   › On-demand recording available at: https://zoom.us/webinar/register/9546485697585/WN_uSlgb-R5Q4etkDhxoSXISQ

› Open Horizon
   › Held Thursday, November 19 - Secure Application Management for Machine Learning & Constrained Devices
   › On-demand recording available at: https://zoom.us/webinar/register/WN_tYi1iZ1RWq1pm8FuPRPw

› More to follow...
Linux Foundation edX and Training Courses

› Business Considerations for Edge Computing:
  https://www.edx.org/course/business-considerations-for-edge-computing

› Getting Started with EdgeX Foundry (LFD213):
  https://training.linuxfoundation.org/training/getting-started-with-edgex-foundry-lfd213/

› Full list of courses available at https://training.linuxfoundation.org/
Upcoming Project Events

› TBA

› Projects can add their events to this list by sending the Wiki page listing the information to info@lfedge.org
Pushed to Next Meeting