Prime Guide to LF Edge For Current and New Members

Getting Started Guide
We are creating a common framework for hardware and software standards and best practices critical to sustaining current and future generations of IoT and edge devices.
LF Edge References

Key Contacts
Arpit Joshipura, Executive Sponsor
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Kendall Waters Perez, Projects Coordinator
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Jill Lovato, PR and Marketing
jlovato@linuxfoundation.org
Eric Ball, IT Operations
support.linuxfoundation.org

Key Resources
Web Site  https://www.lfedge.org/
Wiki  https://wiki.lfedge.org/
Mail Lists  https://lists.lfedge.org/
Slack  https://slack.lfedge.org/
Technical Advisory Council (TAC):
https://wiki.lfedge.org/pages/viewpage.action?pageId=1671298
Outreach Committee/Marketing:
https://lists.lfedge.org/g/outreach-committee
LF Edge Elected Leadership

**Governing Board**
- Chair: Jason Shepherd, ZEDEDA
- General Member Representatives:
  - Cole Crawford, Vapor IO
  - Jim Xu, Zenlayer
  - Keith Steele, IOTech Systems

**Technical Advisory Council (TAC)**
- Chair: Jim St. Leger, Intel

**Outreach / Marketing Committee**
- Chair: Balaji Ethirajulu, Ericsson
LF Edge Project Leadership

Akraino
› TSC Chair / TAC Voting Member: Tina Tsou, Arm
› TSC Vice-Chair: Oleg Berzin, Equinix

Baetyl
› TSC Chair: Leding Li, Baidu

EdgeX Foundry
› TSC Chair: Jim White, IOTech
› TAC Voting Member: Henry Lau, HP Inc.

EVE
› TSC Chair: Erik Nordmark, ZEDEDA

eKuiper
› TSC Representative: Jiyong Huang, EMQ

Fledge
› TSC Chair: Mark Riddoch, Dianomic

Home Edge
› TSC Chair: Myeonggi Jeong (MJ), Samsung

Open Horizon
› TSC Chair: Joe Pearson, IBM

Secure Device Onboard
› TSC Chair: Rich Rodgers, Intel

State of the Edge
› TSC Chair: Matthew Trifiro, Vapor IO
› TSC Co-Chair: Jacob Smith, Equinix Metal
Introducing LF Edge
The diagram outlines LF Edge Projects focusing on distributed devices and systems, buildings/factories, smart homes, and constrained device edge. It categorizes projects into three stages:

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

**Stage 2:** Growth Projects - EVE, Fledge, Home Edge, Secure Device Onboard, Open Horizon, State of the Edge.

**Stage 3:** Impact Projects - Akraino, EdgeX Foundry.

The diagram also categorizes locations into:
- Infrastructure
- Applications
- Research and Reports

The locations are further categorized into:
- Last Mile Networks
- Service Provider Edge
- User Edge

The network infrastructure includes:
- Access Networks
- Aggregation Hubs/COs
- Regional Data Centers
- Centralized Data Centers

The network devices and systems are categorized into:
- MCU-based devices
- Embedded compute
- Smartphones, PCs, ruggedized IoT gateways and servers in accessible to semi-secure areas
- Servers in secure on-prem data centers, MDCs

The project stages and locations illustrate the evolution of edge computing projects from large-scale to impact projects, with corresponding infrastructure and device distribution.
LF Edge – umbrella for Edge Projects

STAGE 3: IMPACT PROJECTS

AKRAINo

Aims to create an open source software stack that supports high-availability cloud services optimized for edge computing systems and applications.

EDGE X FOUNDRY

Highly flexible open source software framework that facilitates interoperability between heterogeneous devices and applications at the IoT Edge, along with a consistent foundation for security and manageability regardless of use case.
LF Edge – New umbrella for Edge Projects

STAGE 2: GROWTH PROJECTS

**EVE**

An open abstraction engine that simplifies the development, orchestration and security of cloud-native applications on distributed edge hardware. Supporting containers, VMs and unikernels, EVE provides a flexible foundation for Industrial and Enterprise IoT edge deployments with choice of hardware, applications and clouds.

**Fledge**

Fledge is an open source framework and community for the Industrial Edge. Architected for rapid integration of any IIoT device, sensor or machine all using a common set of application, management and security REST APIs with existing industrial "brown field" systems and clouds.

**Open Horizon**

Interoperable, flexible, and scalable edge computing services platform with a set of APIs that can also run with libraries and runtimes.

Open Horizon is a platform for managing the service software lifecycle of containerized workloads and related machine learning assets. It enables management of applications deployed to distributed webscale fleets of edge computing nodes and devices without requiring on-premise administrators.
State of the Edge is an open source research and publishing project with an explicit goal of producing original research on edge computing, without vendor bias. The State of the Edge seeks to accelerate the edge computing industry by developing free, shareable research that can be used by all.
Baetyl offers a general-purpose platform for edge computing that manipulates different types of hardware facilities and device capabilities into a standardized container runtime environment and API, enabling efficient management of application, service, and data flow through a remote console both on cloud and on prem.

eKuiper is an edge lightweight IoT data analytics / streaming software implemented by Golang, and it can be run at all kinds of resource constrained edge devices. One goal of eKuiper is to migrate the cloud streaming software frameworks (such as Apache Spark, Apache Storm and Apache Flink) to edge side. eKuiper references these cloud streaming frameworks, and also considered special requirement of edge analytics, and introduced rule engine, which is based on Source, SQL (business logic) and Sink, rule engine is used for developing streaming applications at edge side.

Secure Device Onboard (SDO) is an automated “Zero-Touch” onboarding service.
General Members

Associate Members and Liaisons

AECC

IOTA

ITRI

Industrial Technology Research Institute

Open Infrastructure Foundation

OpenIX

Project Haystack

SHOPEN

THE LINUX FOUNDATION

OLF EDGE

AutoNOMIX Computing Consortium

Beihang University of Posts and Telecommunications

digital twin

ETRI

Electronics and Telecommunications Research Institute

LIAISON Industrial Internet Consortium

M INFRASTRUCTURE MASONs

IOL

University of New Hampshire InterOperability Laboratory

IOTI

IOTI Industrial Technology Research Institute
LF Edge: Key Takeaways

1. Harmonizing Open Source Edge Communities across IOT, Enterprise, Cloud & Telecom

2. Keeping LF Edge Open & Interoperable with
   › Hardware, Silicon, Cloud, OS, Protocol independence
   › Bringing the best of telecom, cloud and enterprise – location, latency & mobility
   › In collaboration with Consortiums/SDO (IIC, AECC, OEC, ETSI)

3. Hosted by the Linux Foundation similar to other Open Source Communities like CNCF (Kubernetes), LF Networking (ONAP) and many more.
LF Edge Governance

Board Committees (As Needed)
- Audit & Finance
- End User Advisory Group
- Compliance & Verification

External Focus (SDO/OSS)
- Vertical Solutions focus (e.g., O&G, Retail, Industrial/Manuf, Home, Telecom, etc)
- Cross-project collaboration
- New Project Induction
- Developer Voice to GB

Outreach Committee
- WG project x
- WG project y

Strategy & Priorities
- Budget
- Marketing Strategy & Events
- Legal & overall governance

Technical Advisory Council (TAC)
- Akraino TSC
- EdgeX TSC
- Home Edge TSC
- Project EVE TSC
- Fledge TSC

Developer Communities

Annual Marketing Plan
- PR
- Events
- Content/Web
- Branding
- Market Development
LF Edge Membership Structure, broad base – lower dues

**Summary**

1. Premier Member, Annual cost for LF Edge $50,000 (similar to Akraino)
2. Simplified EdgeX general category to match LF levels
3. Dues for existing projects will be credited towards LF Edge or any LF projects.

<table>
<thead>
<tr>
<th>Level</th>
<th>Not Yet LF Member</th>
<th>Already LF Member</th>
</tr>
</thead>
<tbody>
<tr>
<td>Premier</td>
<td>$70,000</td>
<td>$50,000</td>
</tr>
<tr>
<td>General</td>
<td>$45,000 (USD) 5,000 and above</td>
<td>$25,000 (USD) 5,000 and above</td>
</tr>
<tr>
<td></td>
<td>$30,000 (USD) From 500 to 4,999</td>
<td>$15,000 (USD) From 500 to 4,999</td>
</tr>
<tr>
<td></td>
<td>$20,000 (USD) From 100 to 499</td>
<td>$10,000 (USD) From 100 to 499</td>
</tr>
<tr>
<td></td>
<td>$7,500 (USD) Up to 99</td>
<td>$2,500 (USD) Up to 99</td>
</tr>
</tbody>
</table>

*LF Edge membership also requires companies to corporate members of The Linux Foundation (similar to Akraino and EdgeX Foundry). A discount of $5,000 to $20,000 is available for existing Linux Foundation members who join LF Edge.*
LF Edge Membership – the benefits

Premier

Influence Strategic Direction of LF Edge & its projects (as a Voting GB member)
- Budget Influence/approval, how and where the project spends money.
- Direct Influence on messaging, developer events, training
- Influence the marketing, messaging, and positioning to best represent the project for your uses
- Marketing Committee Voting Seat

Direct Interaction with Leadership – within LF and across peers
- Premium access to the project ED/VP to understand business goals
- Premium access to the Operations staff. IT, Marketing, Operations, Leadership
- Participate in any Cross project strategy discussions on harmonization and future direction of Edge
- LF Leadership support to Keynote member events, participate in outreach (eg roadshows, events, conference meet ups etc.)

Technical and Roadmap Direction Influence (through the technical community)
- TAC (Technical Advisory Council) voting seat
  - Find like-minded companies/developers to build a coalition to get an idea accepted and prioritized by the community
  - Aid the developers in actions they can take to improve their standing, position, and influence in the community, etc.

Brand Momentum – ability to show Leadership in Open Source which drives end user adoption and talent.
- Open Source Brand Affinity, prove to your customers that you are a leader in the project, hire talented software engineers

General

Learning and Engaging to create the largest Open Source Edge shared technology roadmap
- Work together across company lines and industries
- Participate in elected board seat process

Marketing & Thought Leadership
- Logo on the website once your membership has been announced. LF will support with quotes on Press releases related to the project
- Marketing Committee comprised of a representative from each Member company. General Members may appoint a representative as an observer of the Marketing Committee meetings on a non-voting basis. The objective of this Committee is shaping the marketing direction for edge. The Linux Foundation will do the heavy lifting, so this is more to oversee and shape the discussion/direction with the other Members for the Marketing efforts. This person can also funnel all Marketing information back to your organization so that the key stakeholders are in the loop.
- Participate in our hosted projects and attend our events, meetups, and roadshows

Technical Steering Committee & Technical Community
- TSC meetings are open to the public and we encourage all members of the technical community to participate in the discussion moving forward.
Get Involved in the LF Edge Technical Communities

› Participation in LF Edge Projects is open to all

› Getting involved in the technical communities is the best way to learn about the projects

  › **Step 1:** Get a Linux Foundation ID Here: [https://identity.linuxfoundation.org/](https://identity.linuxfoundation.org/)

  › **Step 2:** Visit LF Edge Wiki ([https://wiki.lfedge.org/](https://wiki.lfedge.org/))

  › **Step 3:** Join workflows for the projects and working groups, subscribe to mailing lists, ask questions, contribute!

Way to participate:

› Attend project meetings
› Attend developer events
› Join approved projects
› Propose a project
› Write documentation
› Contribute use cases

› Analyze requirements
› Define tests / processes
› Review and submit code patches
› Build upstream relationships
› Contribute upstream code

› Provide feedback through VSFG
› Host and staff a community lab
› Answer questions
› Give a talk / training
› Create a demo
› Evangelize LFE and its projects
Join Us!

Contact Mike Woster, mwoster@linuxfoundation.org

LF Edge, bringing Edge initiatives together

IOT+Telecom+Cloud+Enterprise
Akraino

Brief Description
Akraino aims to create an open source software stack that supports high-availability cloud services optimized for edge computing systems and applications.

Contributed by
AT&T in February 2018

Key Contacts
Tina Tsou, Arm, TSC Chair, TAC Voting Member
Oleg Berzin, Equinix, TSC Vice-Chair

Key Links
Website  https://www.lfedge.org/projects/akraino
Wiki    https://wiki.akraino.org/
Gerrit    https://gerrit.akraino.org/r/#/q/status:open
Documentation https://wiki.akraino.org/display/AK/Documentation
Mail Lists https://lists.akraino.org/g/main
Slack    https://slack.lfedge.org/
          (#akraino / #akraino-blueprints / #akraino-devprojects / 
          #akraino-help / #akraino-tsc)
Technical Steering Committee (TSC)
Blueprints
https://wiki.akraino.org/pages/viewpage.action?pageId=1147243
Baetyl

Brief Description
Baetyl (pronounced “Beetle”) offers a general-purpose platform for edge computing that manipulates different types of hardware facilities and device capabilities into a standardized container runtime environment and API, enabling efficient management of application, service, and data flow through a remote console both on cloud and on prem. Baetyl also equips the edge operating system with the appropriate toolchain support, reduces the difficulty of developing edge calculations with a set of built-in services and APIs, and provides a graphical IDE in the future.

Contributed by
Baidu in August 2019

Key Contacts
Leding Li, Baidu, TSC Chair

Key Links
Website  https://baetyl.io/
Wiki  https://github.com/baetyl/baetyl/wiki
GitHub  https://github.com/baetyl/baetyl
Documentation  https://baetyl.io/en/docs/overview/What-is-Baetyl
Mail Lists  https://lists.lfedge.org/g/main/subgroups
Slack  https://slack.lfedge.org/ (#baetyl / #baetyl-tsc)
WeChat  https://baetyl.cdn.bcebos.com/Wechat/Wechat-Baetyl.png
Technical Steering Committee (TSC)  https://github.com/baetyl/baetyl/wiki/Technical-Steering-Committee-(TSC)
EdgeX Foundry

Brief Description

EdgeX, your data liberated! Highly flexible open source software framework that facilitates interoperability between heterogeneous devices and applications at the IoT Edge, along with a consistent foundation for security and manageability regardless of use case.

Contributed by

Dell in April 2017

Key Contacts

Jim White, IOTech, TSC Chair
Henry Lau, HP Inc., TAC Voting Member

Key Links

Website: https://www.lfedge.org/projects/edgexfoundry/
Wiki: https://wiki.edgexfoundry.org/
GitHub: https://github.com/edgexfoundry
Documentation: https://docs.edgexfoundry.org/
Mail Lists: https://lists.edgexfoundry.org/g/main/subgroups
Slack: https://slack.edgexfoundry.org/
Getting Started Guide: https://docs.edgexfoundry.org/1.2/getting-started/
**eKuiper**

Brief Description

eKuiper is an edge lightweight IoT data analytics / streaming software implemented by Golang, and it can be run at all kinds of resource constrained edge devices.

Contributed by

EMQ in June 2021

Key Contacts

Jiyong Huang, EMQ, TSC Representative

Key Links

Website  https://www.lfedge.org/projects/
Wiki  https://wiki.lfedge.org/display/EKUIPER/eKuiper
GitHub  https://github.com/lf-edge/ekuiper
Mail Lists  https://lists.lfedge.org/g/ekuiper
  https://lists.lfedge.org/g/ekuiper-tsc
Slack  https://slack.lfedge.org/
  (#ekuiper / #ekuiper-tsc)
Technical Steering Committee (TSC)
https://wiki.lfedge.org/display/EKUIPER/%28TSC%29+Technical+Steering+Committee
Quick Start
https://wiki.lfedge.org/display/EKUIPER/eKuiper+5+minutes+quick+start
Project EVE

Brief Description
An open abstraction engine that simplifies the development, orchestration and security of cloud-native applications on distributed edge hardware. Supporting containers, VMs and unikernels, EVE provides a flexible foundation for Industrial and Enterprise IoT edge deployments with choice of hardware, applications and clouds.

Contributed by
ZEDEDA in January 2019

Key Contacts
Erik Nordmark, ZEDEDA, TSC Chair

Key Links
Website  https://www.lfedge.org/projects/eve/
Wiki  https://wiki.lfedge.org/display/EVE/Project+EVE
GitHub  https://github.com/lf-edge/eve
Documentation  https://github.com/lf-edge/eve/tree/master/docs
Mail Lists  https://lists.lfedge.org/g/eve-tsc
https://lists.lfedge.org/g/eve
Slack  https://slack.lfedge.org/ (eve / eve-help)
Technical Steering Committee (TSC)
https://wiki.lfedge.org/display/EVE/TSC-Project+EVE+Technical+Steering+Committee
Fledge

Brief Description
Fledge is an open source framework and community for the Industrial Edge. Architected for rapid integration of any IIoT device, sensor or machine all using a common set of application, management and security REST APIs with existing industrial "brown field" systems and clouds.

Contributed by
Dianomic and OSIsoft in September 2019

Key Contacts
Mark Riddoch, Dianomic, TSC Chair

Key Links
Website  https://www.lfedge.org/projects/fledge/
Wiki  https://wiki.lfedge.org/display/FLEDGE/Fledge+Home
GitHub  https://github.com/fledge-iot
Documentation  https://fledge-iot.readthedocs.io/
Mail Lists  https://lists.lfedge.org/g/fledge
  https://lists.lfedge.org/g/fledge-tsc
Slack  https://slack.lfedge.org/
  (#fledge / #fledge-help / #fledge-tsc)
Technical Steering Committee (TSC)
https://wiki.lfedge.org/pages/viewpage.action?pageId=10389276
Quick Start Guide
Home Edge

Brief Description
Interoperable, flexible, and scalable edge computing services platform with a set of APIs that can also run with libraries and runtimes.

Contributed by
Samsung Electronics in June 2019

Key Contacts
Myeonggi Jeong (MJ), Samsung, TSC Chair

Key Links
Website  https://www.lfedge.org/projects/homeedge/
Wiki    https://wiki.lfedge.org/display/HOME/Home+Edge+Project
GitHub  https://github.com/lf-edge/edge-home-orchestration-go
Mail Lists  https://lists.lfedge.org/g/homeedge-tsc
Slack  https://slack.lfedge.org/ (#homeedge / #homeedge-tsc)
Technical Steering Committee (TSC)
https://wiki.lfedge.org/pages/viewpage.action?pageId=1671336
Open Horizon

Brief Description
Open Horizon is a platform for managing the service software lifecycle of containerized workloads and related machine learning assets. It enables management of applications deployed to distributed webscale fleets of edge computing nodes and devices without requiring on-premise administrators.

Contributed by
IBM in April 2020

Key Contacts
Joe Pearson, IBM, TSC Chair

Key Links
Website: https://www.lfedge.org/projects/openhorizon/
Wiki: https://wiki.lfedge.org/display/OH/Open+Horizon
GitHub: https://github.com/open-horizon
Mail Lists: https://lists.lfedge.org/g/open-horizon
https://lists.lfedge.org/g/open-horizon-tsc
Slack: https://slack.lfedge.org/ (#open-horizon /
#open-horizon-help / #open-horizon-tsc)

Technical Steering Committee (TSC)
https://wiki.lfedge.org/display/OH/%28TSC%29+Technical+Steering+Committee
Secure Device Onboard

Brief Description
The mission of the Secure Device Onboard project is to develop open source software to support an automated “Zero-Touch” onboarding service in order to more securely and automatically onboard and provision a device on edge hardware. This zero-touch model simplifies the installer’s role, reduces costs and eliminates poor security practices, such as shipping default passwords.

Contributed by
Intel in June 2020

Key Contacts
Rich Rodgers, Intel, TSC Chair

Key Links
Website  https://www.lfedge.org/projects/securedeviceonboard/
Wiki     https://wiki.lfedge.org/display/SDO/Secure+Device+Onboard
GitHub   https://github.com/secure-device-onboard
Mail Lists https://lists.lfedge.org/g/SDO
            https://lists.lfedge.org/g/SDO-TSC
Slack    https://slack.lfedge.org/ (#sdo-general / #sdo-help / #sdo-tsc)
State of the Edge

Brief Description
State of the Edge is an open source research and publishing project with an explicit goal of producing original research on edge computing, without vendor bias. The State of the Edge seeks to accelerate the edge computing industry by developing free, shareable research that can be used by all.

Contributed by
Vapor IO and Packet
  Glossary - June 2018
  SOTE - April 2020

Key Contacts
Matthew Trifiro, Vapor IO, TSC Chair
Jacob Smith, Packet, TSC Co-Chair

Key Links
Website  https://www.lfedge.org/projects/stateoftheedge/
Wiki https://wiki.lfedge.org/display/GLOSSARY/State+of+the+Edge
GitHub https://github.com/State-of-the-Edge
Mail Lists https://lists.lfedge.org/g/stateoftheedge
              https://lists.lfedge.org/g/glossary-tsc
              https://lists.lfedge.org/g/glossary-wg-landscape
Slack  https://slack.lfedge.org/
       (#glossary / #glossary-landscape / #glossary-taxonomy / #glossary-tsc)
Landscape  https://landscape.lfedge.org/
State of the Edge Reports https://www.stateoftheedge.com/reports/

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Getting Involved with LF Edge Projects and Committees
# How Members Engage: LF Edge Marketing and PR

| Co-promotion of project related updates, releases, and news via LF Edge social media accounts | Attend Outreach Committee meetings and participate in LF Edge driven marketing and outreach activities | Publish use cases, case studies, white papers, and deployment insights | Marketing and PR support for demos at meetups and events |
| Host vendor neutral content via LF Edge blog site | Get support for artwork, web site, content creation, etc., related to LF Edge and its projects | Be featured in the LF Edge Member Spotlight series | Coordination at events – speaking proposals, booth attendance, demos, etc. |
| Volunteer for planning initiatives such as developing annual marketing plan, preparing for major event, etc. | Identify LF Edge speaking opportunities in your region and help secure speakers from the LF Edge community | Help secure user stories about LF Edge based deployments. | Participate on the LF Edge Speakers Bureau |
## How Members Engage: LF Edge Technical Projects

<table>
<thead>
<tr>
<th>Participate in the development efforts: Review and submit code patches, report bugs, request new features, etc.</th>
<th>Attend developer events for LF Edge projects</th>
<th>Contribute to documentation</th>
<th>Provide your testing and deployment feedback via appropriate project channels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Join the projects’ mailing lists and participate in the discussions</td>
<td>Start a local User Group Meetup</td>
<td>Join the LF Edge Technical Advisory Council (TAC) calls and subscribe to the TAC mailing list</td>
<td>Contribute to the Open Glossary of Edge Computing</td>
</tr>
</tbody>
</table>
### How Members Engage: Technical Advisory Council (TAC)

<table>
<thead>
<tr>
<th>Support TAC leadership in inviting speakers</th>
<th>Attend TAC leadership in inviting speakers: Bi-weekly calls, participate in the discussion, volunteer</th>
<th>Share success stories, opportunities and challenges with the broader technical community to seek input from peers</th>
<th>Identify opportunities for collaboration on common interests and initiatives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Support technical leadership for harmonization efforts with other open source communities within and beyond LF Edge</td>
<td>Support TAC in hosting and sponsors intra-project and inter-project in-person developer events for LF Edge projects</td>
<td>Support TAC Chair who works with the Governing Board to highlight the Projects’ collective opportunities and any resource needs</td>
<td>Support TAC in evaluating new projects for inclusion in LF Edge</td>
</tr>
</tbody>
</table>
Display Your LF Edge Membership Badge

These badges are available (svg and png) from the LF Edge GitHub: https://github.com/lf-edge/artwork

Members can display membership badges on booth collateral and on their website.
LF Edge Members showcased on LF Edge and Linux Foundation websites, as well as the new LF Edge Landscape.
Brief the Editor of State of the Edge

New members have the benefit of scheduling a 30 minute briefing with the Lead Editor of State of the Edge, Matt Trifiro. Ask Mike Woster for an introduction to Matt to schedule this call.

See 2021 State of the Edge Report

State of the Edge is an open source research and publishing project with an explicit goal of producing original research on edge computing, without vendor bias. The State of the Edge seeks to accelerate the edge computing industry by developing free, shareable research that can be used by all. The SotE Project contains LF Edge’s Glossary and Landscape projects.
Join the LF Edge Speakers Bureau (Member Benefit)

The LF Edge Speakers Bureau connects speakers who are LF Edge ambassadors who are willing to speak at events on the topics they are proficient in with event managers, meetup organizers and company conferences. Event organizers work directly with the LF Edge PR and Marketing team to secure speakers for their global events.

LF Edge Members: Sign up to be a Speaker today!

› Step 1: Fill out form
  › If you have trouble accessing the form above, email pr@lfedge.org for assistance
› Step 2: Send your photo to pr@lfedge.org
Linux Foundation Training Courses

Free Courses
› A Beginner’s Guide to Open Source Software Development
› Compliance Basics for Developers
› Fundamentals of Professional Open Source Management
› Business Considerations for Edge Computing

Paid Courses
› Introduction to Open Source Development, Git, and Linux
› DevOps for Network Engineers
› Getting Started with EdgeX Foundry (LFD213)

Contact training@linuxfoundation.org to get your member discount on eLearning, Instructor Led (Onsite & Virtual), and Certifications.
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/
Upcoming Project Events

› EdgeX Jakarta Planning Conference: 21 - 25, June, 2021
  › As part of their Jakarta Release Planning process for Jakarta, EdgeX Foundry is conducting a week-long Conference June 21-25. All are welcome to attend, but must register first. Of particular note is the Friday agenda, which includes workshops and an Unconference. Projects and individuals should consider submitting proposals for short talks at the Unconference if they related to EdgeX features, proposed features, or collaboration with EdgeX Foundry.
  › Registration: https://events.linuxfoundation.org/edgex-foundry-jakarta-release-planning-conference-spring/

› EdgeX Foundry Adopter Series - Canonical EdgeX Snaps: 22 June, 2021
  › Running enterprise-grade Edge applications with EdgeX on Ubuntu Core
  › Registration: https://zoom.us/webinar/register/WN_2BvbgjYNQZCKhx_U2F23Zg

› Projects can add their events to this list by sending the Wiki page listing the information to info@lfedge.org
Upcoming External Events

› **The Global Open Source Technology Conference (GOTC)**: 9-10 July, 2021 - Shenzhen/Shanghai
  
  › [CFP](#) closed (notifications July 19)

› **OSPOCon**: 27-29 September, 2021 - Seattle, WA (and Virtual)
  
  › [CFP](#) closed (notifications July 19)

› **Open Source Summit / Embedded Linux Conference**: 27-30 September, 2021 - Seattle, WA (and Virtual)
  
  › [CFP](#) closed (notifications July 19)

› **IoT Solutions World Congress**: 5-7 October, 2021 - Barcelona, Spain
  
  › [CFP](#) closed (notifications in June)
  
  › [Call for Testbeds](#) closed (notifications in July)

› **Open Networking & Edge Summit North America**: 11-12 October, 2021 - Los Angeles, CA + Virtual
  
  › [CFP](#) Deadline: **20 June 2021**
  
  › Interest in having some type of community gathering event? At a point to make a call yet?

› **KubeCon + CloudNativeCon North America**: 12-15 October, 2021 - Los Angeles, CA + Virtual
  
  › [CFP](#) is open (closes 23 May)

› 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

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