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**

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**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: Melissa Evers-Hood, Intel
- Treasurer: Tom Nadeau, Red Hat
- General Member Representatives:
  - Cole Crawford, Vapor IO
  - Jim Xu, Zenlayer
  - Rob Hirschfeld, RackN

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

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

Akraino Edge Stack
  › TSC Chair / TAC Voting Member: Kandan Kathirvel, AT&T

Baetyl
  › TAC Representative: Leding Li, Baidu

EdgeX Foundry
  › TSC Chair: Keith Steele, IOTech
  › TAC Voting Member: Jim White, IOTech

EVE
  › TSC Chair: Erik Nordmark, ZEDEDA

Fledge
  › TAC Representative: Daniel Lazaro, OSIsoft

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

Open Horizon
  › TSC Representative: Joe Pearson, IBM

State of the Edge
  › TSC Chair: Matthew Trifiro, Vapor IO
Introducing LF Edge
LF Anchor projects for Edge
Akraino and EdgeX Foundry are complementary open source projects addressing Telecom, Enterprise and IOT edge

85% of operators plan VNF execution in DC Near CO

70% of operators plan VNF execution in DC Not Near CO

PARTIAL EDGE
85% of operators plan VNF execution in DC Near CO

NOT EDGE
70% of operators plan VNF execution in DC Not Near CO

Data Center Near CO [Regional DC]

Data Center Not Near CO [Central DC]

EDGE
VNFs, vEPC, MEC, distributed RAN, vRAN, BBU hotel, FMC, vCPE, AI/ML, IoT go here

EDGE

Vertically aligned use cases

Agriculture

Industry

O&G

Retail

Vertical

Vertical

Vertical

Vertical

IOT

Interoperability

Edge

Use Cases

& Blueprints

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Scope of LF Edge

Interoperability between IoT devices and applications

API coordination for intelligent orchestration of IoT edge workloads

Application and network provisioning and orchestration

THE LINUX FOUNDATION

Edge Computing Glossary

 LF Edge

Device Edge

Infrastructure Edge

OS

Hypervisor

Device Provisioning

Interoperability

Application
LF Edge Framework

APPLICATION LAYER

CONNECTIVITY

Applications

Infrastructure

Distributed Edge Devices

Smart Home / Building / Factory

Virtualized (5G) Base Stations

Regional Data Centers

Traditional In-Cloud Compute

Embedded

Gateways to Small Server Clusters

Telco Radio Edge, Smart Central Offices

Telco/Cloud Edge

Device Edge

Infrastructure Edge

LOCATIONS

Deep Network

Research and Reports
Open Source LF Edge

**IIoT Today**
Vertical data silos & platform lock-in
Data/edge sovereignty & control issues
Hardware-defined & unmanaged edge

**IIoT with LF Edge**
Open IoT data architecture, no lock-in
Data & edge belong to the enterprise
Software-defined & ubiquitous edge

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IOT

Assets

Edge GW

On-prem & Connectivity

Clouds

aws

Microsoft

Other clouds eg
LF Edge – New umbrella for Edge Projects

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

Baetyl
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.

EdgeX 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.

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.

Home Edge
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.
Bringing It All Together – LF Open Source Edge
With Complementary Standards, Ref Arch and Ref Implementations

Standards & Orgs for Edge

Other Edge Activities
Premier Members
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 (eg 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
- Annual Marketing Plan
- PR
- Events
- Content/Web
- Branding
- Market Development

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

LF Edge Governing Board

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

Developer Communities
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.

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

Contact Mike Woster, mwoster@linuxfoundation.org

LF Edge, bringing Edge initiatives together

IOT+Telecom+Cloud+Enterprise
LF Edge Projects
Akraino Edge Stack

Brief Description
Akraino Edge Stack 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
Kandan Kathirvel, AT&T, TSC Chair, TAC Voting Member
Tina Tsou, Arm, 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
Calendar
https://wiki.akraino.org/pages/viewpage.action?pageId=6128052
**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, TAC Representative

**Key Links**
- Website: [https://baetyl.io/](https://baetyl.io/)
- GitHub: [https://github.com/baetyl/baetyl](https://github.com/baetyl/baetyl)
- Documentation: [https://baetyl.io/en/docs/overview/What-is-Baetyl](https://baetyl.io/en/docs/overview/What-is-Baetyl)
- Mail Lists: [https://lists.lfedge.org/g/main/subgroups](https://lists.lfedge.org/g/main/subgroups)
- Slack: [https://slack.lfedge.org/](https://slack.lfedge.org/) (#baetyl / #baetyl-tsc)
- WeChat: [https://baetyl.cdn.bcebos.com/Wechat/Wechat-Baetyl.png](https://baetyl.cdn.bcebos.com/Wechat/Wechat-Baetyl.png)
**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**
Keith Steele, IOTech, TSC Chair
Jim White, IOTech, TSC Vice-Chair

**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/Ch-GettingStarted.html
- Calendar: https://wiki.edgexfoundry.org/pages/viewpage.action?pageId=21824127
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)
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
Daniel Lazaro, OSIsoft, TAC Representative

Key Links
Website: https://www.lfedge.org/projects/fledge/
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)
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/](https://www.lfedge.org/projects/homeedge/)
- Wiki: [https://wiki.lfedge.org/display/HOME/Home+Edge+Project](https://wiki.lfedge.org/display/HOME/Home+Edge+Project)
- GitHub: [https://github.com/lf-edge/edge-home-orchestration-go](https://github.com/lf-edge/edge-home-orchestration-go)
- Mail Lists: [https://lists.lfedge.org/g/homeedge-tsc](https://lists.lfedge.org/g/homeedge-tsc)
- Slack: [https://slack.lfedge.org/](https://slack.lfedge.org/) (#homeedge / #homeedge-tsc)
- Technical Steering Committee (TSC)
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 Representative

**Key Links**

- Website: Coming Soon
- Wiki: Coming Soon
- GitHub: [https://github.com/open-horizon](https://github.com/open-horizon)
- Mail Lists: [https://lists.lfedge.org/g/open-horizon](https://lists.lfedge.org/g/open-horizon), [https://lists.lfedge.org/g/open-horizon-tsc](https://lists.lfedge.org/g/open-horizon-tsc)
- Slack: [https://slack.lfedge.org/](https://slack.lfedge.org/) (#open-horizon / #open-horizon-help / #open-horizon-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

Key Links

Website: https://www.lfedge.org/projects/stateoftheedge/
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/
Landscape: https://landscape.lfedge.org/
State of the Edge Reports: https://www.stateoftheedge.com/reports/
Open Glossary of Edge Computing: https://github.com/State-of-the-Edge/glossary
Getting Involved with LF Edge Projects and Committees
## Ways to Get Involved with the LF Edge 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>
## Ways to Engage with LF Edge Marketing and PR

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

<table>
<thead>
<tr>
<th>Support TAC leadership in inviting speakers</th>
<th>Attend TAC 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><strong>Support TAC in evaluating new projects for inclusion in LF Edge</strong></td>
<td>Support TAC Chair who works with the Governing Board to highlight the Projects’ collective opportunities and any resource needs</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.
Enhance Your Open Source Knowledge

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

Paid Courses
› Introduction to Open Source Development, Git, and Linux
› DevOps for Network Engineers
Upcoming External Events

› **Webinar: The State of Open Source Networking & the Edge**: 30 April - Virtual
  
› **Open Source Summit North America**: 29 June - 2 July, 2020 - Virtual
  
› **IIOT World**: 30 June - 1 July, 2020 - Virtual
  ‣ Arpit Joshipura: “Uniting the Edge for Tomorrow’s Demands”
  ‣ Jim White: “Using Open Source Technology to Manage IoT/Edge Solutions.”

› **Open Source Summit Japan**: 15-16 September, 2020 - Tokyo, Japan
  ‣ CFP Open: [https://events.linuxfoundation.org/open-source-summit-japan/program/cfp/](https://events.linuxfoundation.org/open-source-summit-japan/program/cfp/)

› **FutureNet**: 22-23 September, 2020 - London
  ‣ Mike Woster: “Achieving a common architecture: the holy grail or fantasy?”

› **Open Networking & Edge Summit North America**: 28-29 September, 2020 - Los Angeles, CA
  ‣ ONES Unconference Track

› **Open Source Summit Europe**: 26-28 October, 2020 - Dublin, Ireland
  ‣ CFP Open: [https://events.linuxfoundation.org/open-source-summit-europe/program/cfp/](https://events.linuxfoundation.org/open-source-summit-europe/program/cfp/)

› **IoT Solutions World Congress**: 27-29 October, 2020 - Barcelona, Spain
  ‣ CFP Open: [https://www.iotsworldcongress.com/get-involved/become-a-speaker/](https://www.iotsworldcongress.com/get-involved/become-a-speaker/)
  ‣ Call for Testbeds Open: [https://www.iotsworldcongress.com/activities/testbeds/](https://www.iotsworldcongress.com/activities/testbeds/)

› **Open Networking & Edge Summit Europe**: TBD Q4, 2020 - Antwerp, Belgium
  ‣ CFP Open: [https://events.linuxfoundation.org/open-networking-edge-summit-europe/program/cfp/](https://events.linuxfoundation.org/open-networking-edge-summit-europe/program/cfp/)

Full list of LF events available at: [https://events.linuxfoundation.org/](https://events.linuxfoundation.org/)

Additional LF Edge events available at: [https://www.lfedge.org/events/](https://www.lfedge.org/events/)
LF Edge Webinar Series

› EdgeX Foundry
  › [EdgeX Foundry 101: Intro, Roadmap and Use Cases](#)
  › April 23 @ 9am PT
  › Register for the Webinar at: [https://zoom.us/webinar/register/4515850788014/WN_xCd6YPjEQRcWlFHbWPKug](https://zoom.us/webinar/register/4515850788014/WN_xCd6YPjEQRcWlFHbWPKug)

› Akraino Edge Stack
  › [Your Path to Edge Computing with Akraino Edge Stack](#)
  › Held Thursday, April 2
  › On-demand recording available at: [https://zoom.us/webinar/register/WN_Zjdo4-5fTOSIqH7pL8iHrQ](https://zoom.us/webinar/register/WN_Zjdo4-5fTOSIqH7pL8iHrQ)

› More to follow...
Upcoming Project Events

› EdgeX Foundry Virtual China Meetup: 24 April, 2020 - Virtual
  › https://www.lfedge.org/event/edgex-foundry-virtual-china-meetup/

› EdgeX Hanoi Release Planning Conference: 27 April - 1 May, 2020 - Virtual
  › https://events.linuxfoundation.org/edgex-foundry-hanoi-release-planning-conference-spring/
  › Detailed Agenda: https://wiki.edgexfoundry.org/pages/viewpage.action?pageId=37912800

› EdgeX Foundry Tokyo Virtual Meetup: 12 May, 2020 - Virtual
  › https://www.lfedge.org/event/edgex-foundry-tokyo-virtual-meetup/
Stay Connected for the Latest Updates

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https://twitter.com/Lf_edge
LF Edge
(www.lfedge.org)

Bringing Edge Initiatives Together

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