LF Edge is an umbrella organization that aims to establish an open, interoperable framework for edge computing independent of hardware, silicon, cloud, or operating system. By bringing together industry leaders, LF Edge will create a common framework for hardware and software standards and best practices critical to sustaining current and future generations of IoT and edge devices.

We are fostering collaboration and innovation across the multiple industries including industrial manufacturing, cities and government, energy, transportation, retail, home and building automation, automotive, logistics and health care — all of which stand to be transformed by edge computing.

Questions? Please visit the FAQ.

## Projects

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<td>Akraino</td>
<td>STAGE 3: IMPACT</td>
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<td>Aims to create an open source software stack that supports high-availability cloud services optimized for edge computing systems and applications.</td>
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Project Alvarium, with initial code seeded by Dell Technologies, is aimed at building a framework and SDK for trust fabrics that deliver data from devices to applications with measurable confidence. Trust fabrics take a system-level approach by layering trust insertion technologies spanning silicon to cloud and will usher in an entire new era of business models and customer experiences driven by interconnected ecosystems. Initial contributing companies include Dell, the IOTA Foundation, Intel, Arm, VMware and ZEDEDA.

**Mail Lists**

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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.

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<td>STAGE 1</td>
<td>eKuiper</td>
<td>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 and Apache Storm) to the edge side. eKuiper helps to bring computation closer to where data is generating, with an introduced rule engine to enable streaming applications on the edge side.</td>
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<td>STAGE 2</td>
<td>EVE</td>
<td>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.</td>
</tr>
<tr>
<td>STAGE 3</td>
<td>EdgeX</td>
<td>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. The open, vendor-neutral platform speeds developer and technology providers time to market by providing modular reference services for device-data ingestion, normalization, analysis and sharing in support of new IoT data services and advanced edge computing applications.</td>
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</table>
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.

Fledge edge services include: Collect Data from any/all sensors, aggregate/combine/organize data. edge based alerting/anomaly detection/machine learning (TensorflowLite, OpenVino), transform/filter data in flight, buffer data, analyze/visualize edge data, and deliver data to multiple local/cloud destinations.

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 webservice fleets of edge computing nodes and devices without requiring on-premise administrators.
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.

Mailing Lists
A full directory of LF Edge Mailing Lists can be found at https://lists.lfedge.org/g/main

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- Ike Alisson
  Akraino - Stage 3 - 2022-02-09 updated Feb 06, 2022 • view change
- Kendall Perez
  Fledge - Mature to Stage Three (Impact) updated Jan 31, 2022 • view change

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