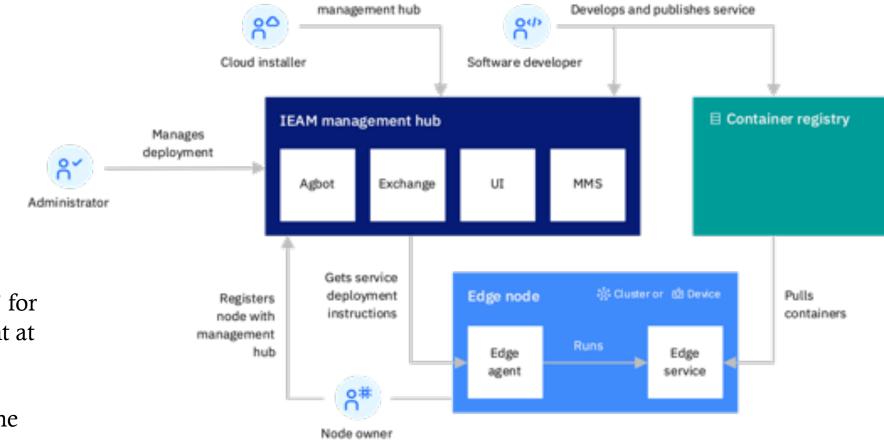
MEETING OPEN HORIZON





OVERVIEW



Installs

A "single pane of glass" for application management at extreme scale on both Kubernetes clusters and stand-alone Linux devices.

Edge Devices

X86/64 atom



arm32v

6 RPi ZW

arm64v8 nano



arm32v7 RPi 3/4



arm64v8 tx2



Management Hub

Edge Devices

Docker 1+ cores 0.5+GB RAM ARM32/64, x86/64 huge machines too!



Management Hub Server class machine(s) Any public cloud, or Private data center Air-gapped okay too!

HIGHLIGHTS

- Edge Native designed from the beginning for the edge
- Security first, robust (decentralized, small scopes of authority)
- Truly "zero touch" installation in the field (wire it and leave)
- Fully autonomous agents (driven by the policies you set)
- Firewalled devices? No problem devices always pull (no push)
- Disconnected operation (local agent still works when offline!)
- Your software release buggy? No problem, fallback policies fix that!
- Extreme scale (tens of thousands per Management Hub)
- Manage Kubernetes clusters and/or stand-alone Linux devices
- Single pane of glass, easy to use, role-based interfaces
- Like other LF-Edge projects, Open-Horizon welcomes contributions

RESOURCES

• LF Edge "Open Horizon" project page:

https://www.lfedge.org/projects/openhorizon/

• Open-Horizon documentation:

https://open-horizon.github.io

• Open-Horizon GitHub (source code):

https://github.com/open-horizon

• Example programs for Open-Horizon:

https://github.com/open-horizon/examples

• Open-Horizon on the LF-Edge Slack:

https://lfedge.slack.com/archives/C011XLC1V2Q







HISTORY

- Summer 2019: Open Horizon first presented to the EdgeX Foundry project.
- May 2019: Joe Pearson elected to the EdgeX Foundry TSC as an At-large member.
- October 2019: Joe Pearson attended the <u>EdgeX Open Hackathon</u>.
- November 2019: EdgeX TSC voted to incubate the Open Horizon project.
- February 2020: Open Horizon/EdgeX Foundry integration sub-group initiated and repo created.
- March 2020: Joe Pearson participated as a judge in the <u>EdgeX IoT Innovation Challenge</u>.
- May 2020: Open Horizon graduate/exited incubation with EdgeX and became standalone project in LF Edge.
- Fall 2020: Joe Pearson became one of the <u>TAC Sponsors of EdgeX</u> Foundry project at their Annual Review.
- September 2020: Open Horizon participating in EdgeX <u>Kubernetes Support sub-group</u>.

IBM CONTRIBUTED CODE

REQUIRED INTEROPERABILITY FOUNDATION

REPLACEABLE REFERENCE SERVICES

EDGE X FOUNDRY

Platform Architecture



