MEETING
OPEN HORIZON
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
- arm32v6
- RPi ZW
- arm64v8 nano
- arm32v7
- RPi 3/4
- arm64v8 tx2

Management Hub

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

Edge Devices

- Docker
- 1+ cores
- 0.5+GB RAM
- ARM32/64, x86/64
- huge machines 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 EdgeX Open Hackathon.
- November 2019: EdgeX TSC voted to incubate the Open Horizon project.
- February 2020: Open Horizon/EdgeX Foundry integration sub-group initiated and repo created.
- May 2020: Open Horizon graduate/exited incubation with EdgeX and became standalone project in LF Edge.
- Fall 2020: Joe Pearson became one of the TAC Sponsors of EdgeX Foundry project at their Annual Review.
- September 2020: Open Horizon participating in EdgeX Kubernetes Support sub-group.