Open Horizon - EdgeX Project Group

This page is dedicated to discovering and documenting best practices for integrating EdgeX Foundry and Open Horizon.

Open Horizon Info

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

Open Horizon lives on the network edge, and typically on constrained devices. Open Horizon is designed to help place your software as close as possible to where the data is being created and right where actions need to be taken. A fully autonomous Open Horizon Agent runs on every edge device to orchestrate and manage the software lifecycles of your containers (e.g., download, verify, sandbox, run, restart, remove) on its device. Open Horizon is mostly decentralized, and designed for massive scale. Driven only by a software deployment pattern you have configured, or by policies (properties and constraints) that you have set, the Open Horizon Agent makes its own decisions about which software to run on its device. The Agent has a very small footprint, currently requiring less than 30MB of RAM at runtime, and we regularly test and support small Linux amd64, arm64v8, and arv32v6/v7 devices (with as little as 512MB RAM).

Resources:

Below are some Open Horizon resources to help you learn more about this open source software.

Since IBM's commercial product "IBM Edge Application Manager" (formerly "IBM Edge Computing For Devices") is built with Open Horizon, documentation created for that offering will most likely also apply to Open Horizon. These assets describe the same Open Horizon available in open source so these are valuable assets for our community as well. So some of those assets appear in the list below as well.

Presentation by IBM: Open Horizon PPT

IBM Edge Application Manager 4.1 documentation

Video resources:

- Introduction to Open Horizon (12:07):
- Inter-component Communications (9:22):
- Patterns and Policies (9:11):
- Workload Networking (11:51):
- Library of EdgeX Foundry videos: https://www.youtube.com/channel/UC30DbsoqbkGJYJ5emJJsng/videos

Meetings

Topic: Open Horizon Integration Subgroup

Time: Feb 3, 2020 02:00 PM Eastern Time (US and Canada)

Every week on Mon, until Apr 13, 2020, 11 occurrence(s)

Feb 3, 2020 02:00 PM: Slides, Recording
Feb 10, 2020 02:00 PM: Slides, Recording
Feb 17, 2020 02:00 PM: Slides, Recording
Feb 24, 2020 02:00 PM: Slides, Recording
Mar 2, 2020 02:00 PM: Note - meeting was cancelled, Recording
Mar 9, 2020 02:00 PM: Slides, Recording
Mar 16, 2020 02:00 PM: Slides, Recording
Mar 23, 2020 02:00 PM: Slides, Recording
Mar 30, 2020 02:00 PM: Slides, Recording
Apr 6, 2020 02:00 PM: Slides, Recording (Access Password: i2+Tt?7f)
Apr 13, 2020 02:00 PM: Slides, Recording (Password: 3A?f3wN9)

May 11, 2020 02:00 PM: Slides, Recording (Password: 3A?f3wN9)

May 18, 2020 02:00 PM: cancelled, conflicts. Check #open-horizon-poc for details.

Meetings scheduled from May 11 - June 1.

Join Zoom Meeting
https://zoom.us/j/99829450178?pwd=cVZPekJM4OUlLQ301RUE15d01PMXJnQT09
Meeting ID: 998 2945 0178
Password: 099839

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Archives:

October 21, 2019: Meeting Recording
September 23, 2019: Meeting Recording
September 9, 2019: Meeting Recording
August 26, 2019: Meeting Minutes; Meeting Recording
This is an open meeting. All are encouraged to attend.