2024-04-10 Meeting notes

LF Antitrust Policy Notice

THE LINUX FOUNDATION

LF EDGE

Date

10 Apr 2024 recording: 20 minutes

Attendees

- Joe Pearson
- John Walicki
- Eugene O'Connor

Fortnightly Review

open-horizon.github.io (Public)
Open Horizon Web Site
`documentation` `edge-computing` `open-horizon` `hacktoberfest`
🟡 JavaScript ⚖ Creative Commons Attribution 4.0 International ⑂ 57 ☆ 30 ⊙ 18 ⁑ 0 · Updated last month

open-horizon.github.io (Public)
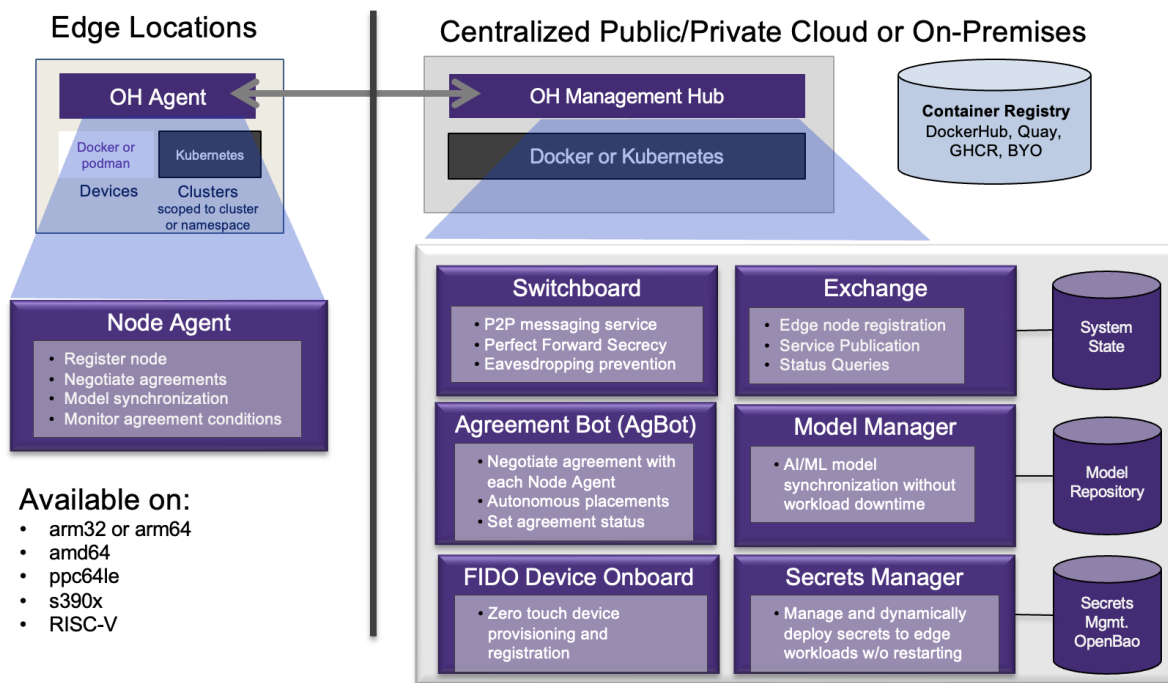Open Horizon Web Site

🟡 JavaScript ☆ 30 ⚖ CC-BY-4.0 ⑂ 57 ⊙ 19 (1 issue needs help) ⁑ 0 Updated 2 days ago

Discussion items

- Submitted PR for Cluster Agent installation docs
- Created demo landing pages
- Updating component diagram (see below)
    - Ready to update the diagrams on the LF Edge project page?
    - Is it too busy, and/or should we have a simplified version?

The Main Open Horizon (OH) Components

Edge Locations

OH Agent

Docker or podman | Kubernetes

Devices | Clusters scoped to cluster or namespace

Node Agent
- Register node
- Negotiate agreements
- Model synchronization
- Monitor agreement conditions

Available on:
- arm32 or arm64
- amd64
- ppc64le
- s390x
- RISC-V

Centralized Public/Private Cloud or On-Premises

OH Management Hub

Docker or Kubernetes

Container Registry
DockerHub, Quay, GHCR, BYO

Switchboard
- P2P messaging service
- Perfect Forward Secrecy
- Eavesdropping prevention

Exchange
- Edge node registration
- Service Publication
- Status Queries

System State

Agreement Bot (AgBot)
- Negotiate agreement with each Node Agent
- Autonomous placements
- Set agreement status

Model Manager
- AI/ML model synchronization without workload downtime

Model Repository

FIDO Device Onboard
- Zero touch device provisioning and registration

Secrets Manager
- Manage and dynamically deploy secrets to edge workloads w/o restarting

Secrets Mgmt. OpenBao

Action items

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