

Open Horizon project Management Hub Working Group Meeting

August 13, 2020



LF Antitrust Policy Notice

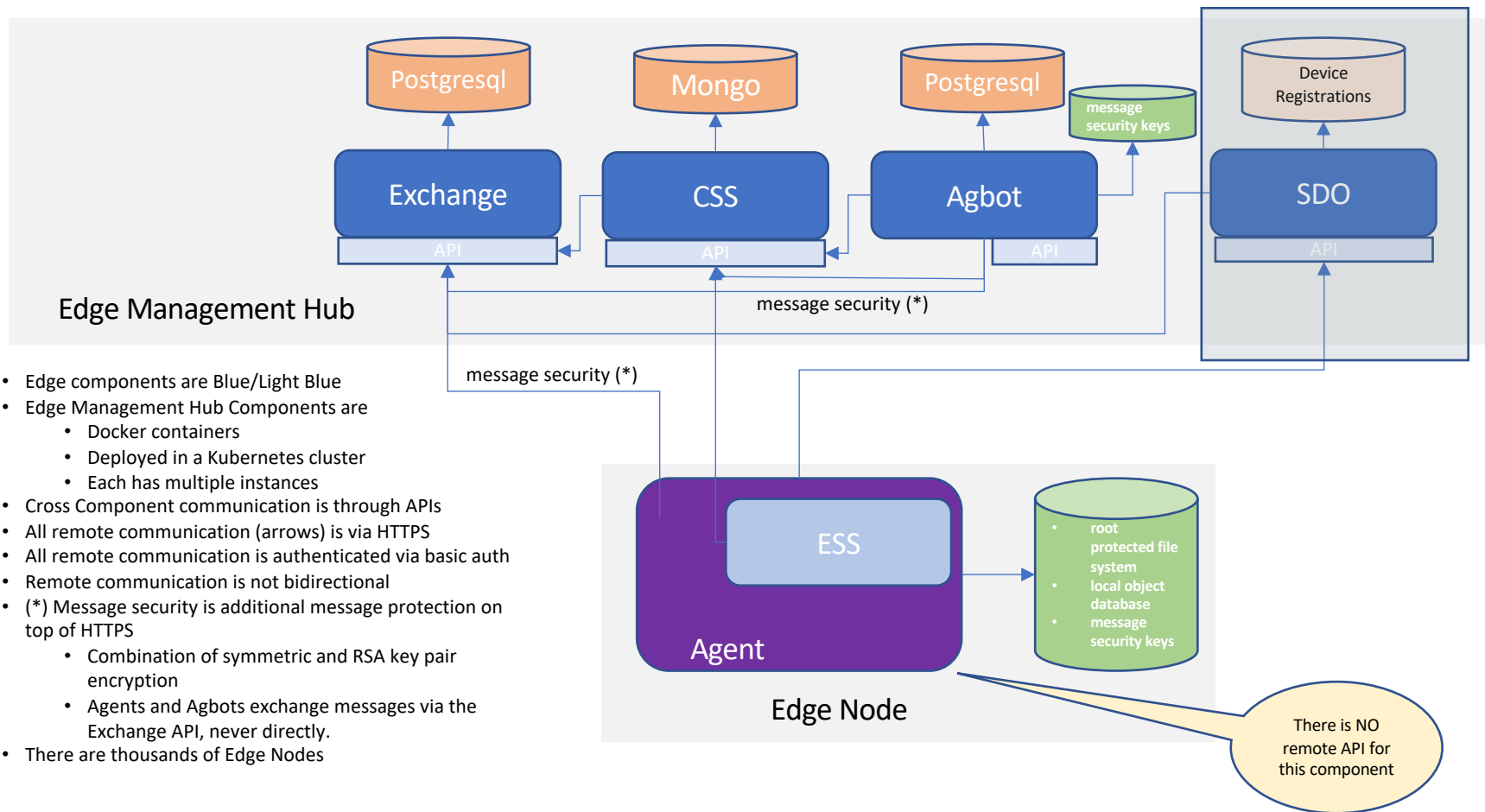
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Topics

- Welcome and Introductions
 - Meeting every other Thursday @ 6:30am PT / 9:30am ET / 1:30pm UTC
 - [Meeting details](#)
 - Participation
 - [Roles](#) and [responsibilities](#)
 - [How to get started](#)
- Communication
 - Slack channel: [lfedge.slack.com #open-horizon-mgmt-hub](#) ([join](#))
 - Mailing list: [open-horizon-mgmt-hub@lists.lfedge.org](#) ([join](#))
- Tools and Processes
 - [Code repositories](#)
 - [ZenHub](#) for project board and swim lanes
- Horizon Management Hub Overview
- Next Meeting

Technical Architecture Overview



Open Horizon Management Hub Components

- Exchange
 - Central data repository through which all other components find and coordinate with each other
 - Provides an extensive REST API (soon to be published on <https://open-horizon.github.io/>)
 - Multiple instances that synchronize via the postgresql DB
 - Implemented in Scala and built on [Akka HTTP](#)
 - <https://github.com/open-horizon/exchange-api>
- Agbot (Agreement Bot)
 - Makes agreements with edge nodes to run edge services to fulfill what has been specified in the patterns and deployment policies
 - [REST API](#)
 - Multiple instances that run largely independently
 - <https://github.com/open-horizon/anax>

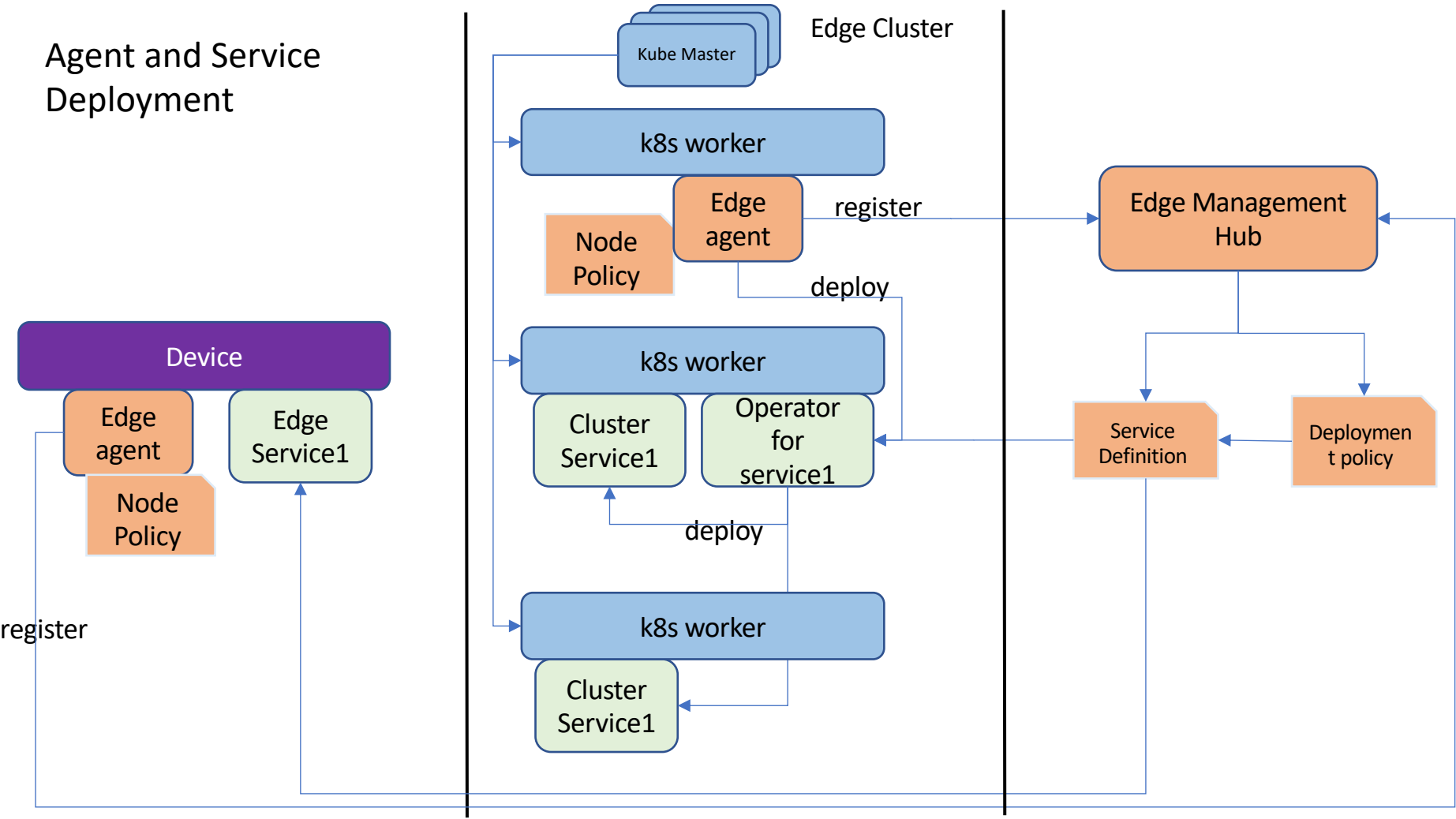
Open Horizon Management Hub Components (continued)

- CSS (Cloud Sync Service)
 - The management hub side of MMS (Model Management System). The edge node side of MMS is called ESS (Edge Sync Service)
 - Deploys AI models and other files that edge services need to the correct edge nodes
 - File placement determined by edge service placement and additional (optional) MMS policy
 - [REST API](#)
 - <https://github.com/open-horizon/edge-sync-service>
- SDO (Secure Device Onboard)
 - Enables zero-touch secure connecting of SDO-enabled edge devices to a Horizon management hub instance
 - After import the device ownership voucher, simply powering on an SDO device will:
 - Find the correct Horizon management hub
 - Install the Horizon agent and prerequisites
 - Register the edge device with Horizon and deploy edge services to it according to the desired deployment policy
 - Uses [Intel's SDO open source](#)
 - <https://github.com/open-horizon/SDO-support>

Open Horizon Management Hub Components (continued)

- Devops
 - Provides a script to automatically deploy all of the Horizon components on a single host
 - Follow the [README.md](#)
 - Only intended for development and test
 - No replicas, no HTTPS
 - <https://github.com/open-horizon/devops>
 - This is a new repo, enhancements are needed

Agent and Service Deployment



Next Steps

- › Visit the [Quick Start](#) and start contributing!
- › Next Meeting: Thursday, Aug 27 @ 6:30am PT / 9:30am ET / 1:30pm UTC

Thank You