

# ONE Summit 2024 Demos

1. IBM booth demos:
  - a. [Workload runtime security](#) (OH + KubeArmor + ???)
  - b. [Application-centric connectivity](#) (OH + **Skupper** + ???)
  - c. [ML deployment automation](#) (OH + TinyLlama? or Yolo v8 or v9?)
2. LF Edge booth demos:
  - a. [Handsfree device onboarding](#) (OH + FDO + LF Edge Sandbox + Project EVE)
  - b. [Realtime workload metrics](#) (OH + EdgeLake + **Grafana** + optionally KubeArmor)
  - c. [Dynamic runtime secrets binding](#) (OpenBao with Open Horizon)

## Workload runtime security

Demo landing page link: [Reduce attack surfaces on your edge nodes and workloads](#)



Value prop: Secure and harden your edge solutions using Security-by-default principles and active mitigation measures from Days 0 - N.

Owner: [Prashant Mishra](#) and [Sanjeev Gupta](#)

Todo: Review Prashant's demo and determine scenario alignment with ONE Summit objectives

Adopters: (feature sponsor: Mainsail - Falcon Tactical Edge)

Story:

1. How do we stop, not just detect. Not post-detect strategies but active mitigation. Ex. application without hardening has these misconfigurations /access. KubeArmor will sandbox the application behavior to only allow the specified behavior and nothing else.
2. Multiple applications on a device. If one is compromised, the blast radius could impact other running containers. How do you isolate the workloads to limit the blast radius.
3. Specific use cases for Vault
4. ORRA Kamakura demo showing addition of KubeArmor to the running application to enforce network micro-segmentation

## Application-centric connectivity

Demo landing page link: [Provide application-centric and -directed connectivity](#)



Value-prop: Quickly connect deployed applications with remote resources in any location. Align distributed application connectivity with the applications themselves so both can be deployed and managed together by the same team.

Owner: [Jeff Lu](#) and Sanjeev Gupta?

Todo: Create Skupper service and show how to connect a distributed application to its remote services. Linux host to start, then Kubernetes example?

Adopters: IBM Hybrid Cloud Mesh with Red Hat Service Interconnect

## ML deployment automation

Demo landing page link: [Dynamic ML association/placement/delivery/bi-directional sync](#)



Value prop: MLOps pipelines

Owner: [Jeff Lu](#)

Todo: Determine which models/framework to show, how to update?

Adopters:

## Handsfree device onboarding

Demo landing page link: [Zero-touch device onboarding with FDO is a reality](#)



Value prop: Use Open Horizon to host your FDO vouchers and device profiles for a complete FDO onboarding hosting service

Owner: Randy and Maxey?

Todo: Find and purchase FDO-enabled hardware.

Update: Brad Pagen from Advantech has reached out and is interested in participating, thanks [Randy Templeton](#)

Adopters: would Zededa be a potential adopter?

Proposed flow:

Sponsor  
Showcase  
Demo



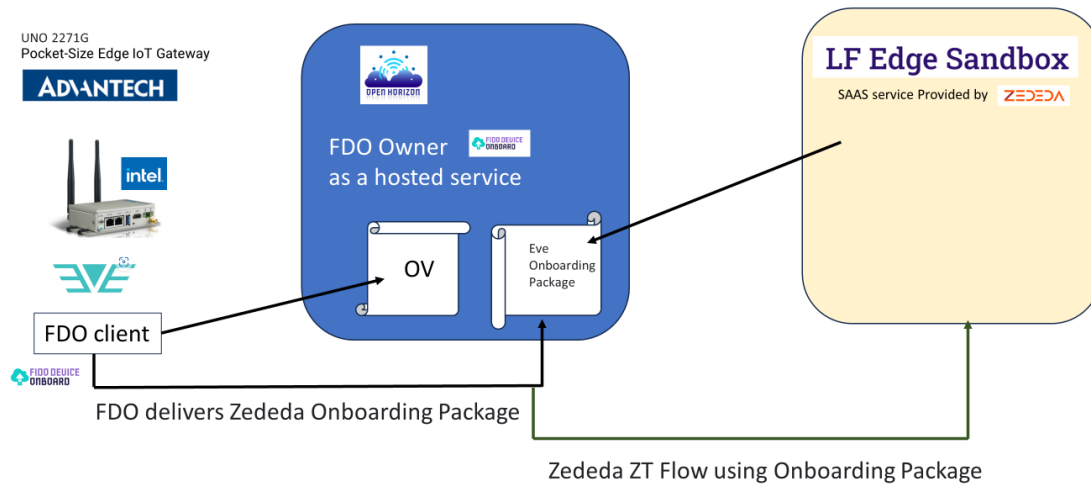
+



+



SAAS service Provided by ZEDEDA



## Realtime workload metrics

Demo landing page link: [Use EdgeLake to access any edge data on-demand from anywhere](#)



Pain points from transferring/streaming data to a central location for aggregation and insights generation:

- introduces latency before action can be taken in response
- may violate data privacy/sovereignty
- incurs overhead costs for managing, storing, maintaining
- assumes you know in advance what data is needed
- reduces flexibility and agility since change takes weeks or more to implement and may not include previous data

Value prop: Anylog can surface your edge data without the expense of moving it to a centralized location, thus reducing costs and providing insights more quickly. And Open Horizon can automate the deployment and management of EdgeLake on your edge nodes.

Owner: [Ori Shadmon](#) and [Troy Fine](#)

Todo: Create Grafana service and then incorporate as data dashboard.

Adopters: (feature sponsor: NS1)

## Dynamic runtime secrets binding

Demo landing page link: [OpenBao is approaching Alpha release and becoming an independent project](#)



Value prop: Open Horizon uses OpenBao for dynamic runtime secrets binding with containerized workloads on both bare Linux hosts and in Kubernetes clusters.

Owner: [Nathan Phelps](#) and [Troy Fine](#)

Todo: Get AIO using OpenBao, then demonstrate [Hello Secrets World](#)

Adopters: IBM Edge Application Manager, IBM Hybrid Cloud Mesh

Demo details:

1. Create a secret in the OpenBao secrets manager named **hw-secret-name**
2. Register an edge node with the helloSecretWorld example service
3. Show the "**<your-node-id> says: Hello <secret-value>!**" output of the service in a separate terminal updating every 5 seconds ("**<secret-value>**" here is the contents of the **hw-secret-name** secret)
4. Update the **hw-secret-name** secret with a new value "**<new-secret-value>**"
5. A few seconds later in the still open terminal window being updated live with the service output, observe the output change to "**<your-node-id> says: Hello <new-secret-value>!**"