

Managing RHDE with Ansible Controller in Challenging Network Conditions

A hands-on workshop presented
by the global edge architects

This is a hands on experience around management of edge devices that are deployed in protected networks where network configuration may or may not be possible.

During this session, you'll connect an edge device to a management platform, deploy an application, and expose the frontend of that application for public consumption.

This is targeted at technical audience, some familiarity with OpenShift, Ansible, and RHEL is expected.

Session Objectives:

Introduction to RHSI/Skupper: gain familiarity with the core concepts and functionality of RHSI, specifically around deployment and exposing services.

Using Ansible Controller to Manage RHDE: a deep dive on deploying applications to edge devices where direct connectivity isn't available.

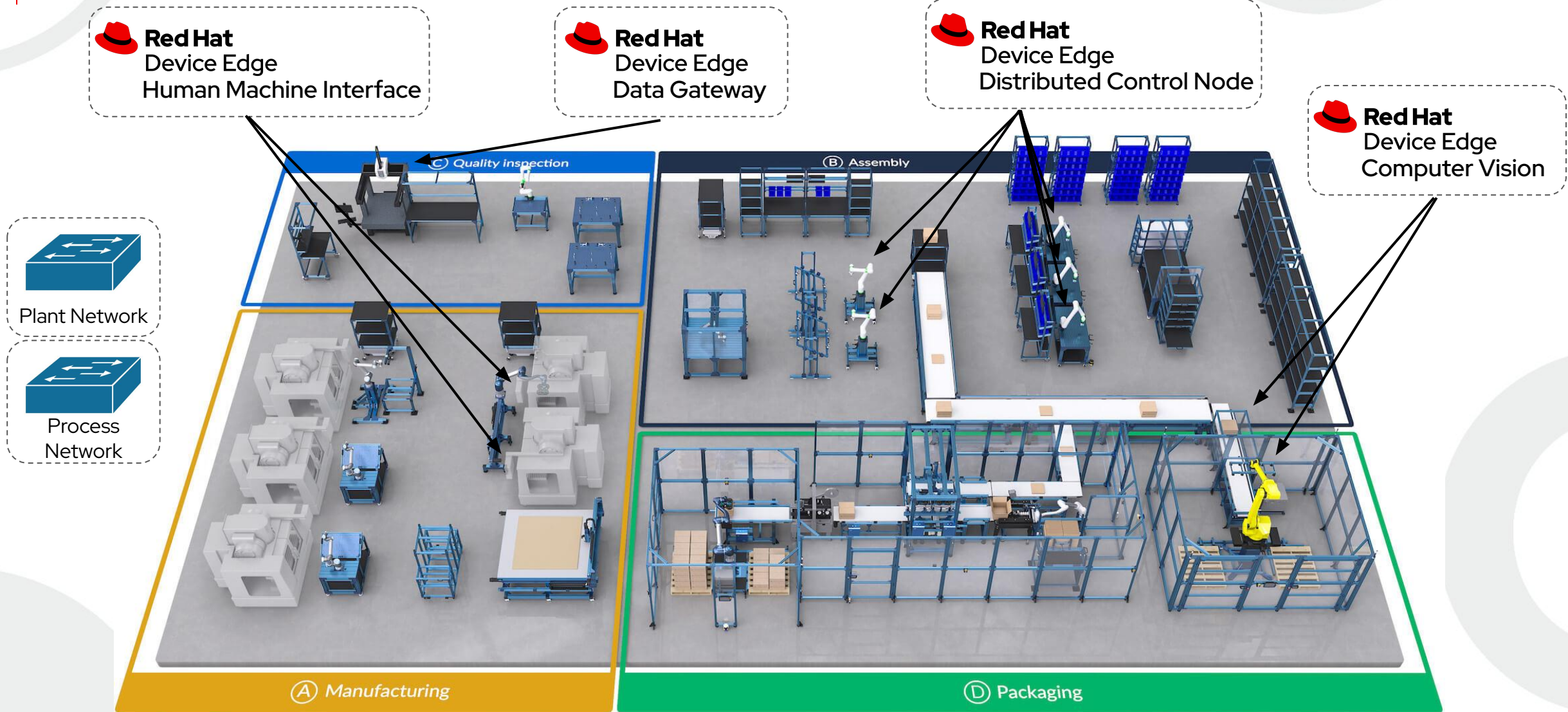
Agenda:

1. Introductions/greetings
2. Establishing the need for advanced connectivity models
3. Background information on technologies
4. Information about workshop setup and devices
5. Self-paced working through the exercises

Let's Consider a Manufacturing Plant



Add in Red Hat Infrastructure



Bring Systems Under Management

Management Plane

- Full IOT Automation: Network to PLCs
- Management of Device Edge Deployments
- Legacy and Next Generation Workload hosting

 **Red Hat**
Device Edge
Human Machine Interface



Plant Network



Process Network



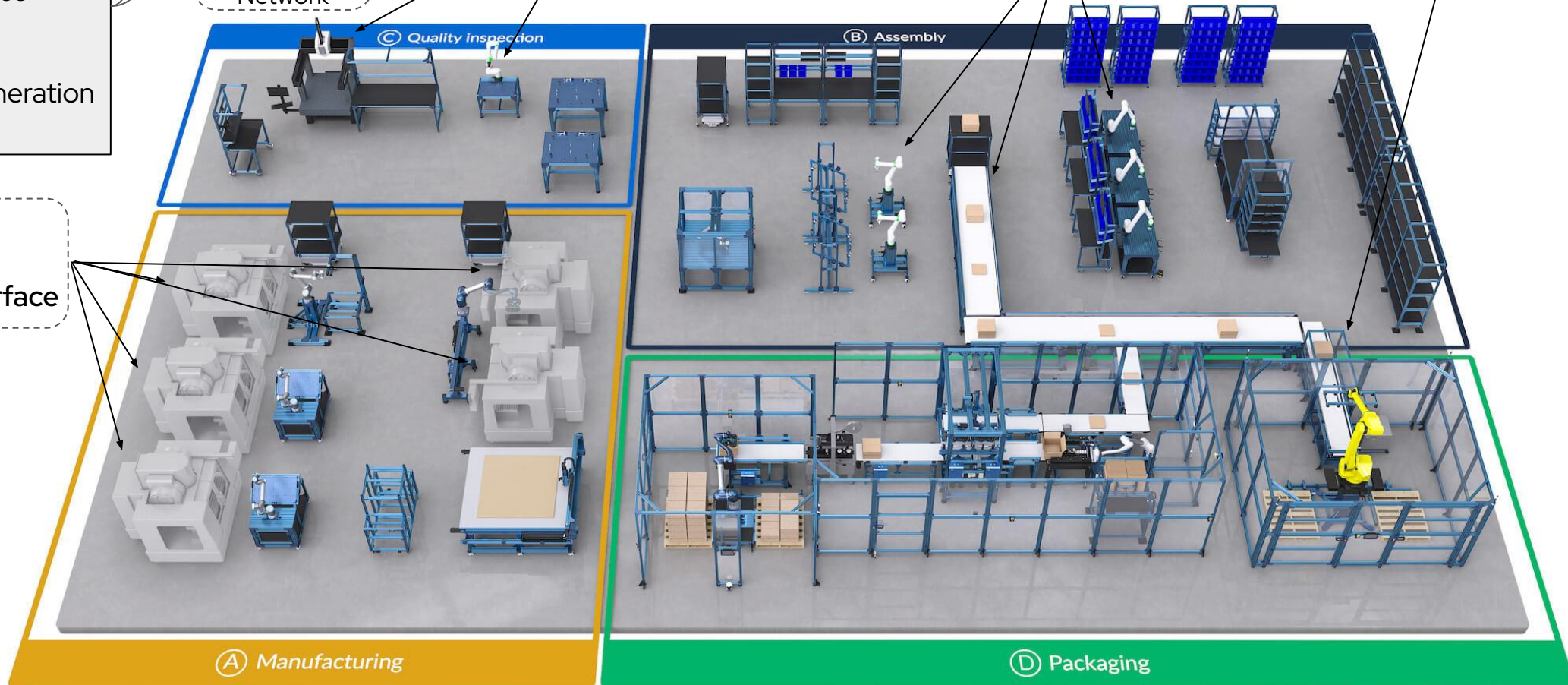
Red Hat
Device Edge
Data Gateway



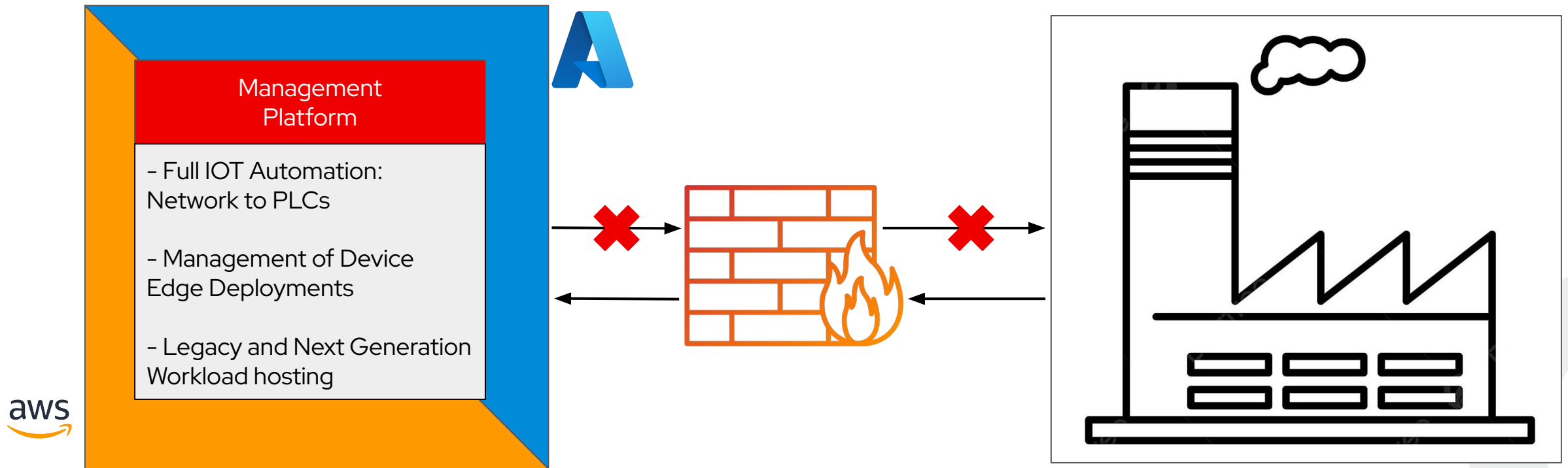
Red Hat
Device Edge
Distributed Control Node



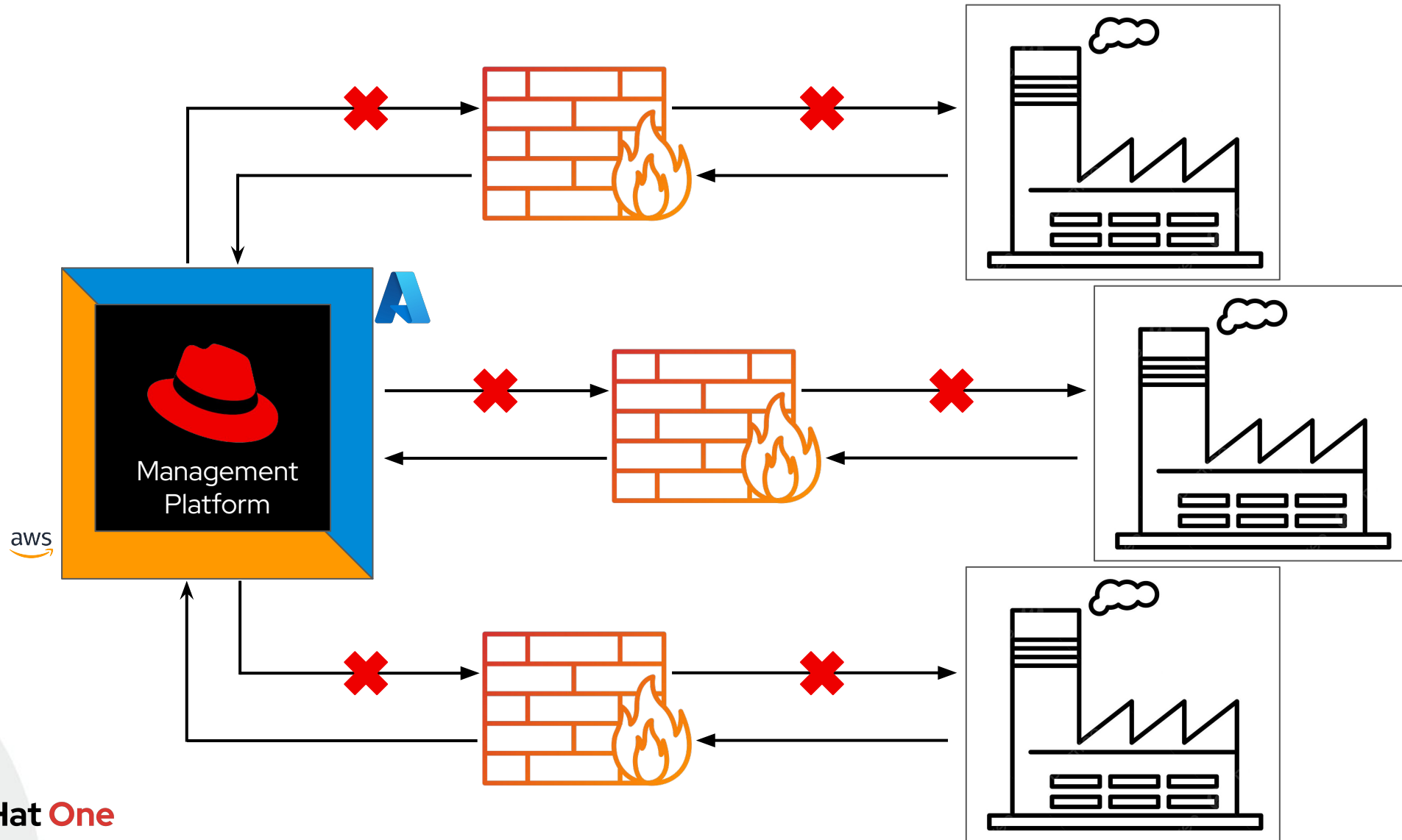
Red Hat
Device Edge
Computer Vision



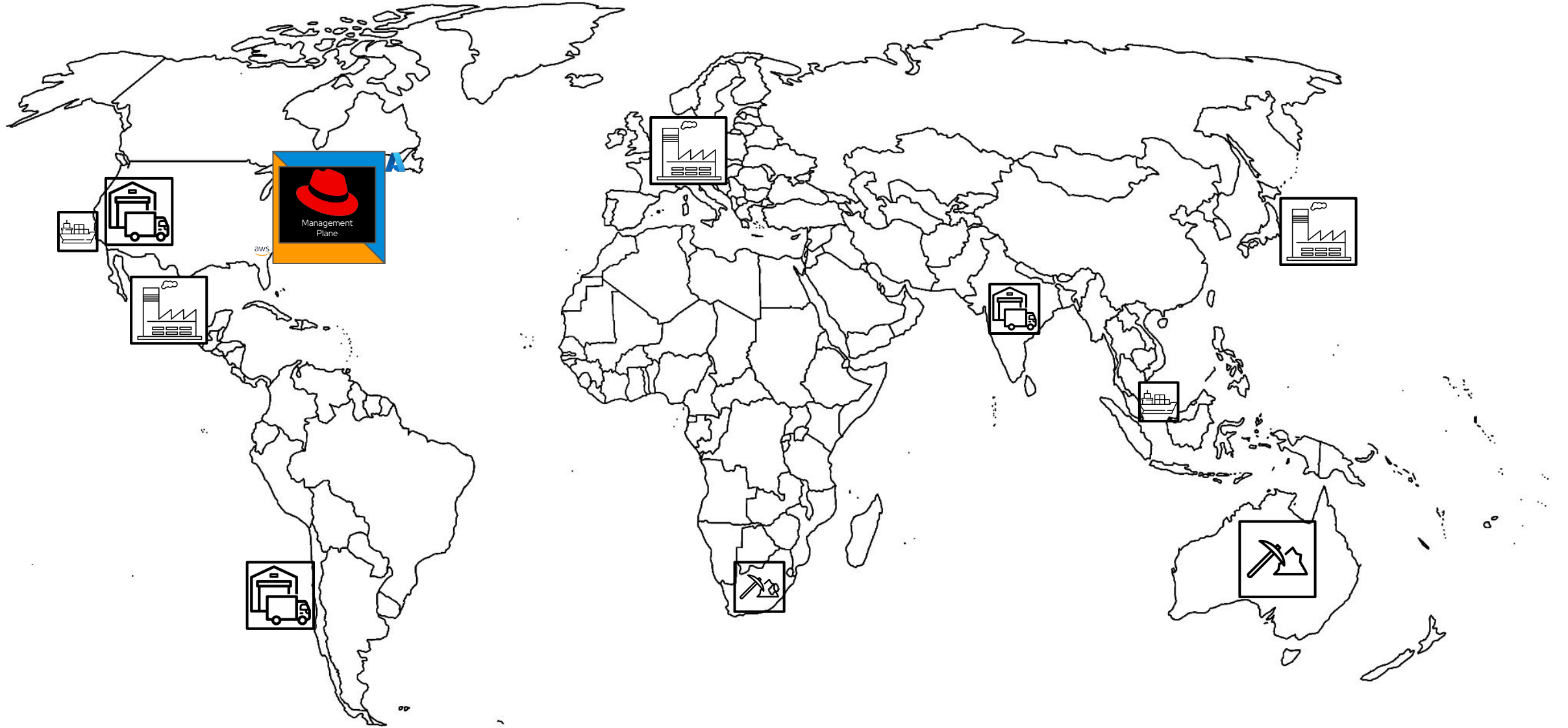
What if Direct Connection isn't Available?



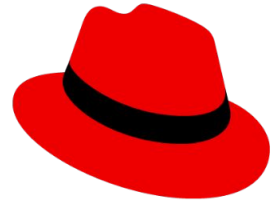
What About Multiple Sites?



What About Sites Around the Globe?



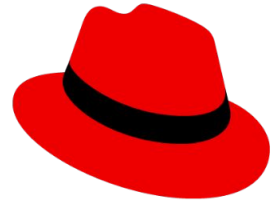
Introducing:



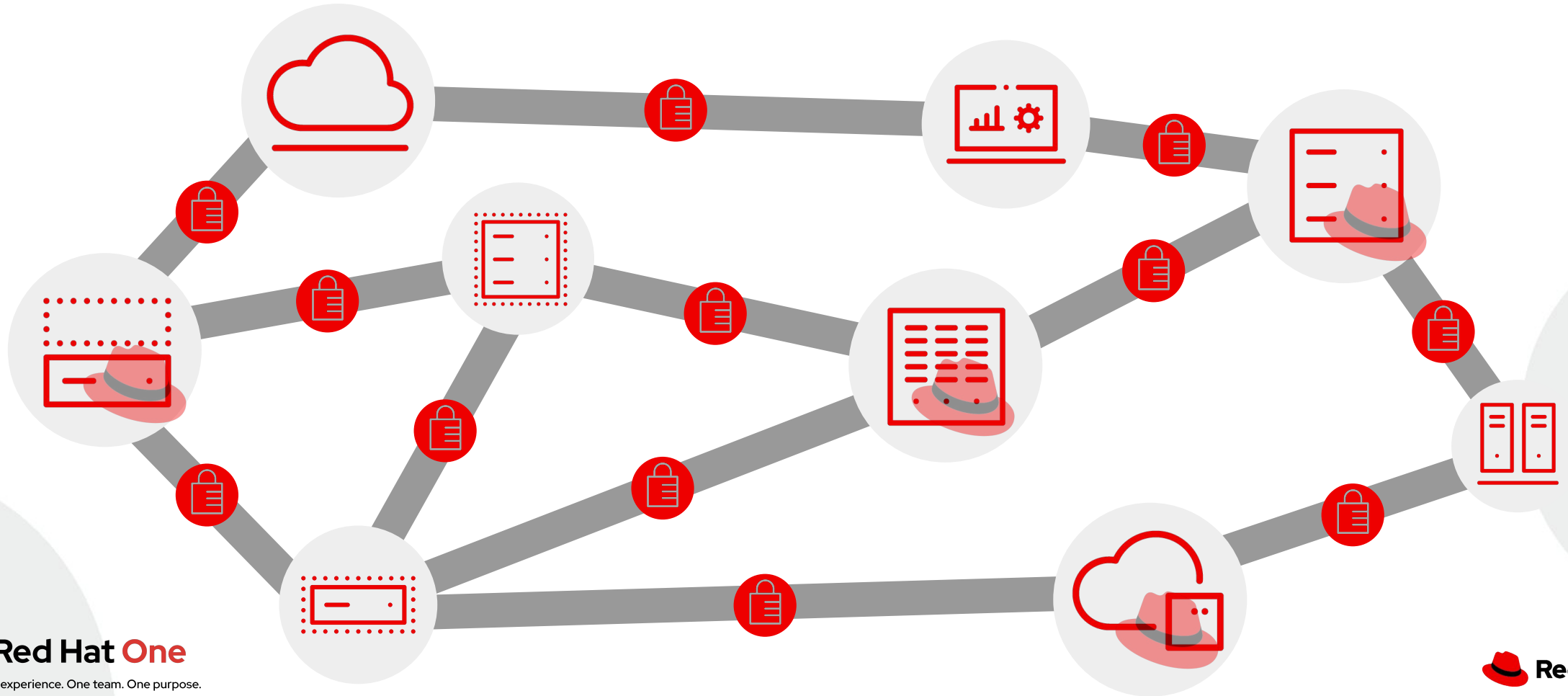
Red Hat Service Interconnect

“**Simplifies** interconnections of applications and services across any environment combined with Red Hat's and non-Red Hat's platforms, **protecting** your organization's infrastructure and allowing to be more **portable** in **hybrid** scenarios.”

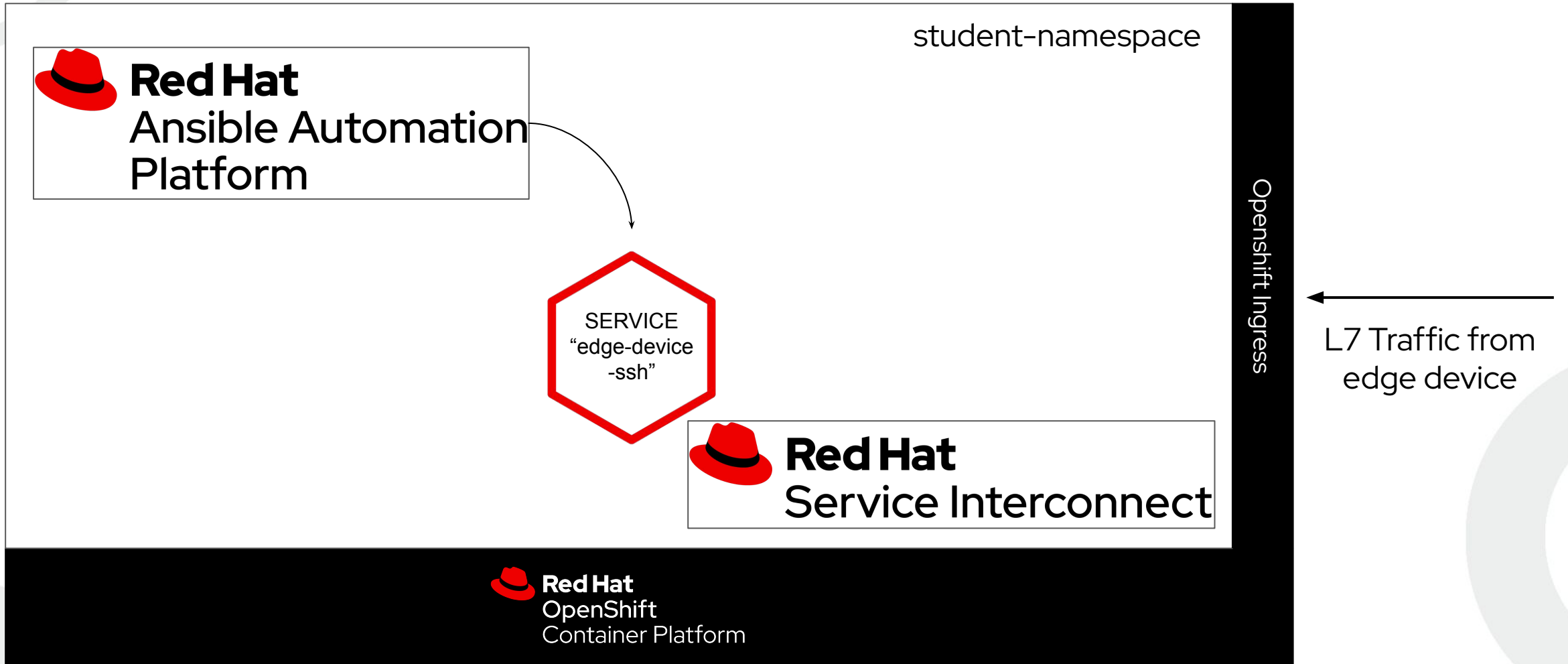
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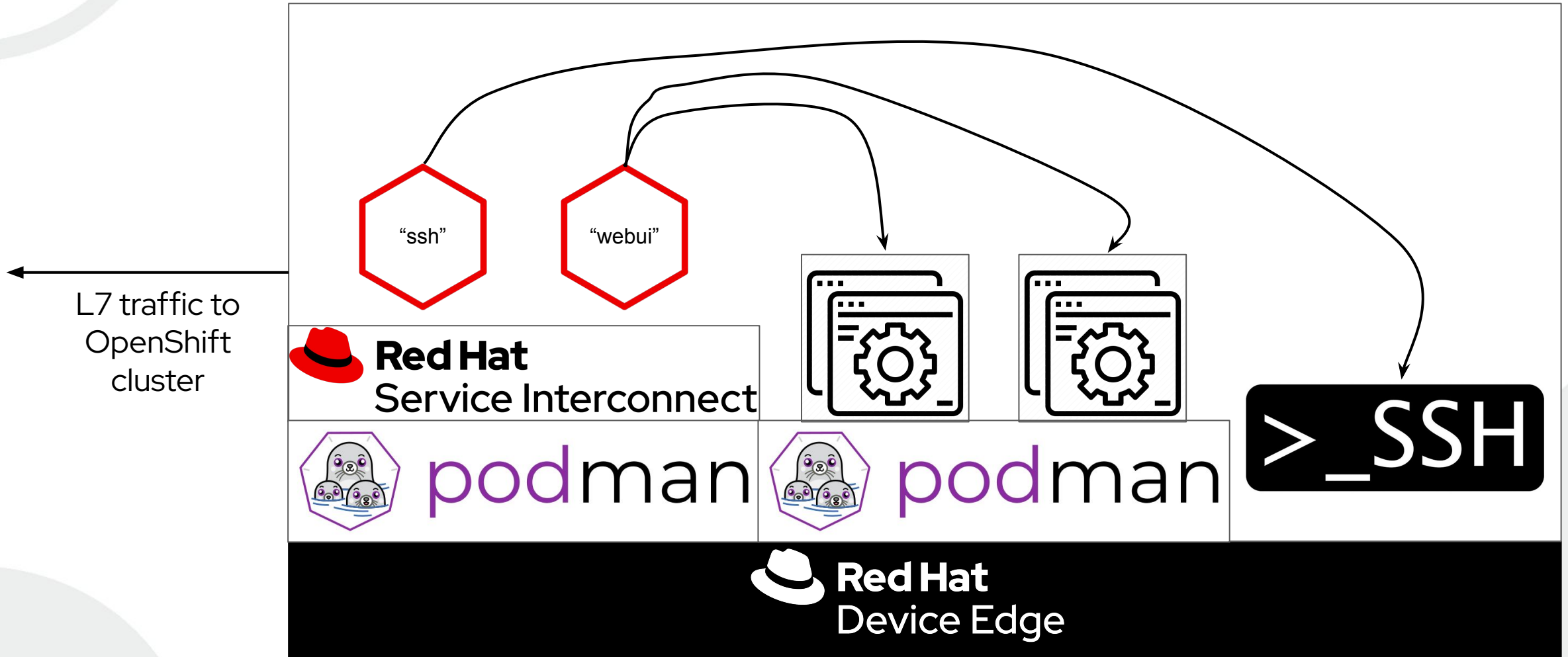
Red Hat Service Interconnect



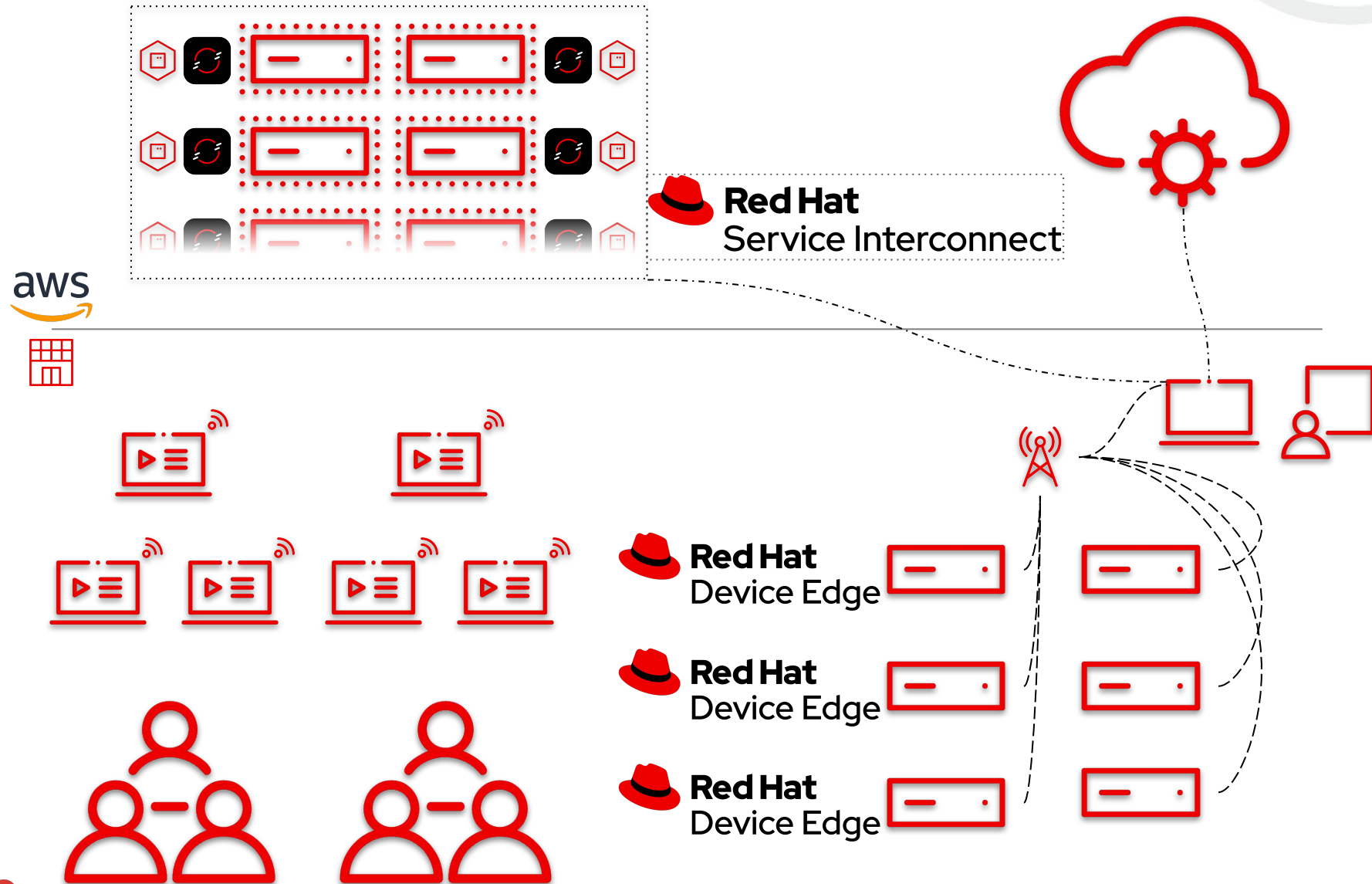
RHSI for our Workshop - AWS



RHSI for our Workshop - Edge Device



Lab Architecture



Thank you

Red Hat is the world's leading provider of enterprise open source software solutions. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500.



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