IoT Edge Working Group

Edge/IoT vs Cloud Data Center

Kubernetes has limitations today..but can we fix this?

Similar

Manage many nodes with compute, storage, networking

Want to containerize apps and services

Want standardized APIs, tools

Want security features (encryption, authentication)

Different

Resource constrained (small node counts, low power CPUs, low resources)

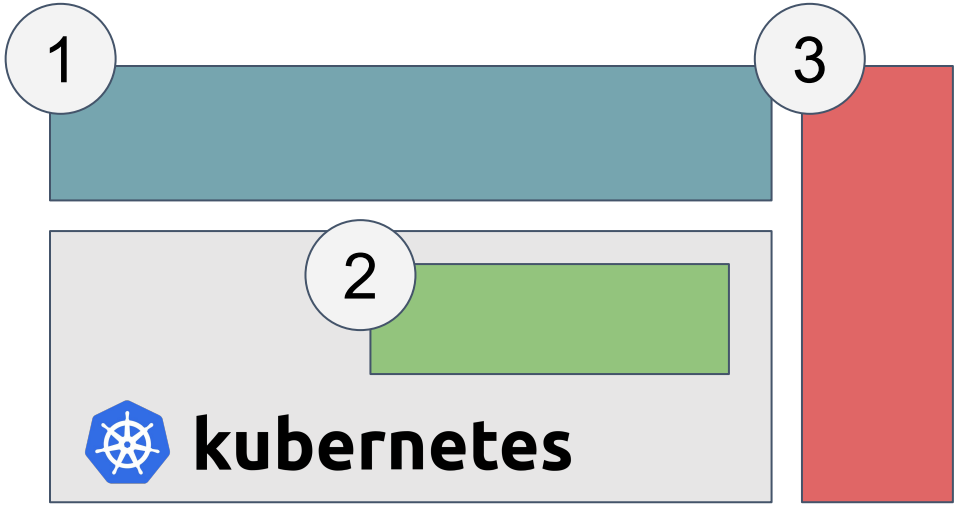
Special network requirements (protocols, topologies)

Challenges of unattended, and disconnected operation

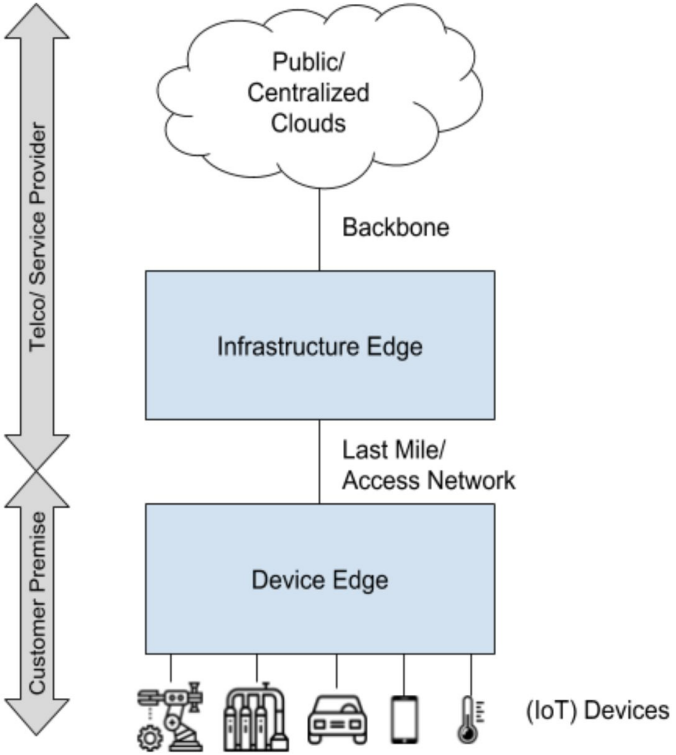
Kubernetes for the Edge

How does Kubernetes interact with the Edge?

1. Edge workloads that run ON Kuberenetes
2. Edge challenges mitigated BY Kubernetes
3. Edge capabilities not easily serviceable by Kubernetes



Edge Categories



Source: Icons from https://www.flaticon.com/free-icon

Panelists

- Cindy Xing - Huawei
- Dejan Bosanac - Red Hat
- Preston Holmes - Google
- Steve Wong - VMWare

Our charter

- White paper: http://bit.ly/iot-edge-whitepaper
  - Workloads being considered
  - Technical challenges
  - Available architectural solutions

How to get involved

- http://bit.ly/wg-iot-edge
- Regular WG Meeting: Fridays at 16:00 UTC (bi-weekly)