

KUBERNETES AS A SERVICE FOR THE DISTRIBUTED EDGE

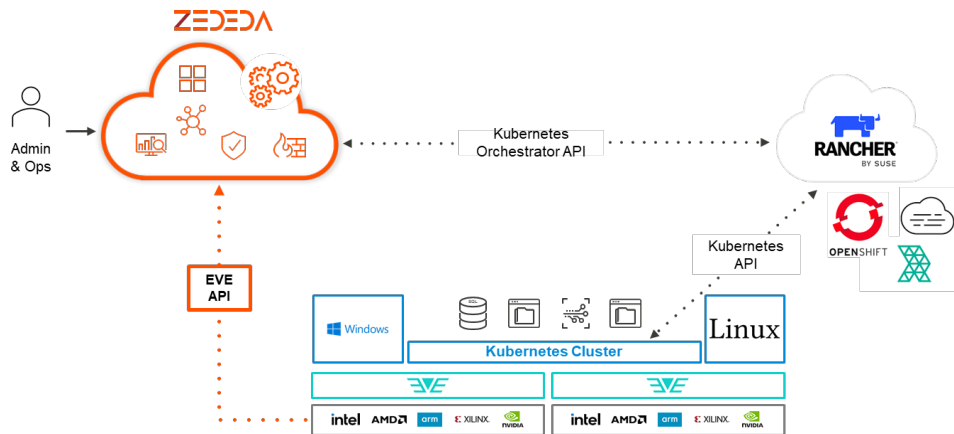
Seamlessly deploy Kubernetes at the edge

Kubernetes has become the most popular container orchestration solution in modern IT organizations across industries. It is universally regarded as the default choice for overseeing the management of containerized applications in IT environments.

According to the Cloud Native Computing Foundation (CNCF) Annual Survey 2022:

- A record high of 96% of organizations are either using or evaluating Kubernetes – a major increase from 83% in 2020 and 78% in 2019.
- 93% of organizations are using or plan to use containers in production (up slightly from 92% in the prior year’s survey).
- More than 5.6 million developers are thought to be using Kubernetes today.

Despite the rapid growth and popularity of containerized applications, deploying Kubernetes at the edge—compared to centralized data centers—is a challenge due to infrastructure and software heterogeneity. The edge is complex both in terms of technology and logistics. Edge solutions require a multi-layer stack developed and operated by a variety of providers and skill sets. Kubernetes solutions built for centralized data centers don’t scale down to the distributed edge, don’t support smaller edge node footprints, and don’t have robust zero trust security models.



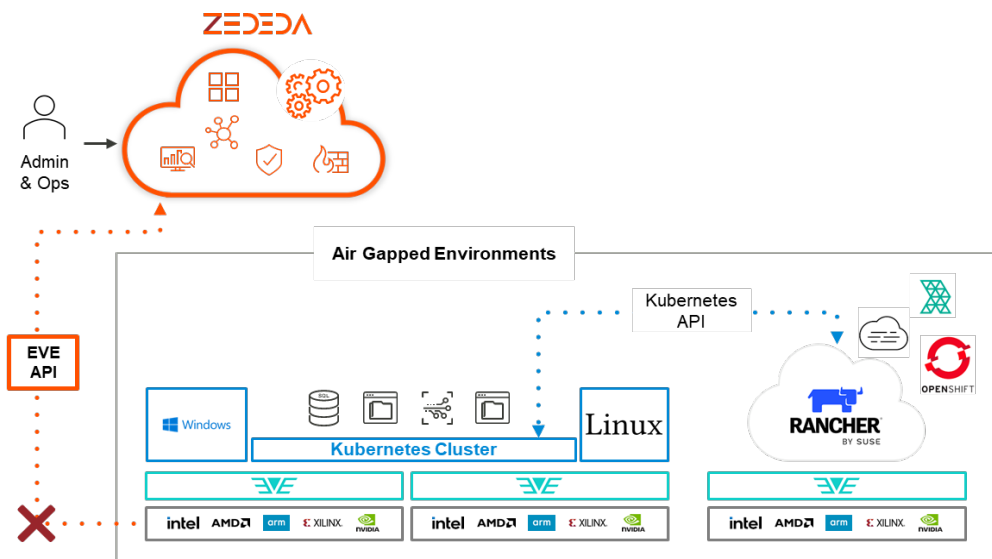
Organizations are looking to modernize their infrastructure over time while increasing their ROI at the edge by leveraging their current investments in the Kubernetes ecosystem.

KUBERNETES AS A SERVICE FOR THE DISTRIBUTED EDGE

ZEDEDA Edge Kubernetes Service is a managed Kubernetes infrastructure service that enables organizations to deploy, manage, and modernize their edge deployments effortlessly. This allows organizations to remotely deploy Kubernetes infrastructure at the distributed edge cost efficiently, with minimal configuration, and complete security from day one. ZEDEDA Edge Kubernetes Service provides full life-cycle managed Kubernetes, including a runtime curated, managed, and supported by ZEDEDA.

ZEDEDA Edge Kubernetes Service makes it easy to deploy Kubernetes at the edge while providing organizations with a clear path to modernizing their edge deployments while still supporting legacy containers and applications. ZEDEDA Edge Kubernetes Service supports the customer modernization journey from legacy deployments, to application containerization, all the way to Kubernetes at the edge, providing a flexible future-proof service.

There is no one size fits all solution for deploying and managing Kubernetes at the edge so ZEDEDA has partnered with industry leading Kubernetes providers to ensure organizations are able to support existing investments and corporate standards across all deployments. ZEDEDA's partnerships and integrations with industry-leading orchestrators, such as IBM Edge Application Manager, Rafay, Red Hat OpenShift, SUSE Rancher, and VMware Tanzu provide a robust solution for the modern edge landscape.





ZEDEDA ADVANTAGE



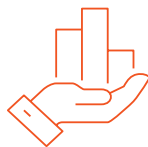
ZERO LIMITS

For edge infrastructure options, guest operating systems, applications, network configurations, and clouds. *Allows access to unlimited deployments, edge devices, containers, and applications, including smaller 1-3 node clusters.*



ZERO TOUCH

Kubernetes cluster provisioning, simplifying installation and bringing the experience of the cloud to distributed locations. *No onsite expertise required for remote management of Kubernetes deployments, no more truck rolls.*



ZERO TRUST

Security model addressing the unique, perimeter-less security challenges of edge infrastructure deployed outside of traditional data centers. *Reduces attack surface and allows remote policy-based control from a centralized location.*



ZEDEDA EDGE KUBERNETES SERVICE BENEFITS

Simple with low TCO

- Easy to deploy and operate
- No IT skills required for deployment and management, no more truck rolls
- Design for autonomous field operations
- Centralized orchestration

Hyperscale support

- Manage 1000s of small clusters (1-3 nodes) vs small number of large clusters
- Easy to deploy with repeatable, policy-based configuration
- Optimized for distributed edge footprint

Flexible and Future proof

- Flexible architecture that supports the journey to digitization
- Supports legacy containers alongside modern Kubernetes applications
- Supports air-gapped networks and unreliable connections avoiding the challenges of networks on the edge

Zero Trust Security

- Leverages ZEDEDA's secure orchestration infrastructure
- Reduces attack surface

Full life-cycle managed Kubernetes

- Includes Kubernetes runtime curated, managed, and supported by ZEDEDA.

Industry leading orchestrator support

- IBM Edge Application Manager
- Rafay
- Red Hat OpenShift
- SUSE Rancher
- VMware Tanzu
- & others

ZEDEDA Edge Application Services

ZEDEDA Edge Kubernetes Service is part of a growing number of ZEDEDA Edge Application Services. ZEDEDA Edge Application Services are distributed, cloud-native, services simplifying the security and remote management of edge infrastructure and applications at scale.

ZEDEDA Edge Application Services are built on ZEDEDA, which is delivered as a service and includes 24/7/365 support for the open source EVE-OS. ZEDEDA is available to enterprise customers, SIs and OEMs, with flexible deployment options.



CONTACT@ZEDEDACOM

About ZEDEDA

ZEDEDA makes edge computing effortless, open, and intrinsically secure - extending the cloud experience and agility to the edge. ZEDEDA reduces the cost of managing and orchestrating distributed edge infrastructure and applications, while increasing visibility, security and control.