

Kubernetes Edge Interface

Deploy to many Edge locations just like you deploy to your current, single K8s cluster.

The easiest way to distribute your Kubernetes workload around the globe without having to manage multiple clusters across various cloud and infrastructure providers.

```
kubect1 config use-context my-edge
kubect1 apply -f application.yaml
```



Simplicity, flexibility, and control with Kubernetes-native tooling.

The Kubernetes Edge Interface (KEI) makes many edge clusters appear as a single cluster, enabling developers to quickly and easily deploy applications across a distributed Edge. Once deployed, applications benefit from Section's patented Adaptive Edge Engine (AEE), which automatically and continuously tunes edge deployments across Section's Composable Edge Cloud (CEC).

Key Benefits



Fast Path to Distributed Deployment

No need to change tools or workflows. KEI extends the K8s API, enabling developers to move existing apps to the edge with ease.



Dynamically Optimized Edge

Define your deployment strategies using standard K8s manifests and let Section's patented AEE continuously optimize your edge.



Multi-Region, Multi-Provider

Section's CEC includes a vendor-agnostic global network of leading infrastructure providers, giving you the ultimate in flexibility, reach, scale, and reliability.



Accelerated Pace of Innovation

Offload the complexities associated with building and managing a distributed network, so your teams can focus on innovating.



As a network observability company, Kentik has a global view of the internet combining passive and active measurements. Partnering with Section allows us to quickly and easily augment our edge deployments, and their cloud-native platform and partnerships make it easy and affordable to integrate as we continually expand our footprint.

Avi Freedman, CEO, Kentik

Key Features



Repositories & Registries

Maintain your application code, configuration and deployment manifests in your own code management systems and image registries.



Service Discovery

Configure service discovery to route users to the most suitable container instance.



Health Checks

Built-in health checks continuously monitor the health of available endpoints and ensure readiness to accept traffic.



Resource Management

Define and tune system resource allocations (CPU/RAM) to enable autoscaling while keeping costs in check.



Complex Application Support

Define more complex applications, such as composite applications that consist of more than one container.



Observability

Section's observability suite enables you to access detailed logs and metrics, and view real-time traffic flows.

How It Works

KEI leverages familiar tooling and workflows for both deployment and management, making it the simplest way to distribute containers to multiple locations (multi-cluster/multi-provider/multi-region).

```
$ # configure the Section Cluster endpoint  
$ kubectl config use-context section-app
```

```
$ # apply your workload definitions  
$ kubectl apply -f application.yaml
```

```
$ # apply deployment strategies  
$ kubectl apply -f location-optimizer.yaml
```

Standard Kubernetes Patterns

KEI is an implementation of the standard Kubernetes API.

Zero Code Modifications

Developers can use their existing Kubernetes tools to manage applications.

Dynamically Optimized Edge

Multi-cloud, multi-region support, automated traffic routing, high availability via standard configuration.

Let's get started

Start experiencing the benefits of the Optimized Edge. Reach out to contact@section.io to get started.

