

# Leaseweb Managed Kubernetes

Leaseweb Managed Kubernetes makes managing Kubernetes easy and efficient. You can deploy Kubernetes without worrying about the complications of managing the components required for Kubernetes to work. We handle the hard work of managing the Kubernetes Control Plane for you, including upgrades. This way, you can focus on effectively managing your applications and microservices without any trouble.

## Why Choose Leaseweb Managed Kubernetes?

### Simplified Deployment and Operations

Leaseweb offers a streamlined approach to developing and deploying your container applications with Managed Kubernetes. This allows you to release your applications faster, increase reliability, and easily scale your infrastructure as needed.

### Managed

With Leaseweb, you can leave the management and maintenance of core Kubernetes components to the experts. We deploy, host monitor, and maintain all the necessary components for your clusters and nodes, leveraging their highly available Infrastructure-as-a-Service (IaaS) products.

### Cost Efficiency

Our pricing model ensures that you only pay for the infrastructure resources you consume. We manage the control plane free of charge, while you are responsible for paying for the underlying cloud resources. This allows you to optimize costs and scale your workload types based on Leaseweb flexible cloud infrastructure offerings.

### Reliable Cloud Infrastructure

We design every cluster to stay online. You get three master nodes automatically, so if one has an issue, the others take over. We back this setup with a production grade SLA, giving your applications a rock-solid foundation on our proven servers.

# Features

## • Managed by Leaseweb

Leaseweb takes care of the installation, monitoring, and maintenance of the Kubernetes masters and control plane, plus the underlying equipment and network infrastructure, ensuring a hassle-free experience for customers.

## • Persistent Storage

You can benefit from automatic provisioning of persistent storage volumes on high-performance platforms, ensuring optimal performance and reliability.

## • Elastic Compute Nodes

Deploy Kubernetes worker nodes using Leaseweb Elastic Compute instances. Choose from S4x8, S6x16, S8x32, or S16x64 configurations to define your initial capacity, then manage and scale your node count post-deployment to fit changing demands.

## • Monitoring

Leaseweb conducts regular cluster health checks to ensure availability and stability. If there are any issues, Leaseweb will take the necessary action to correct them.

## • Leaseweb Customer Portal

Use our simple and easy to use Customer Portal to create & destroy clusters with ease. Get your kubectl config, monitor resource usage, create & manage node pools and manage IPs, all from one simple management panel.

## • Kubernetes Dashboard

Kubernetes comes with a standard Kubernetes Dashboard, which is easy to deploy. Follow the instructions in our Knowledge Base to deploy this Dashboard to monitor and manage your cluster from there.

## • Kubectl

Download your Kubectl config from our customer portal to interface and manage your Kubernetes cluster. Manage RBAC (Role-Based Access Control) and handle namespace management.

## • Firewalls & Load Balancers

Simplify your infrastructure with pre-configured load balancers and firewalls integrated directly into Leaseweb Managed Kubernetes. Eliminate complex manual configurations ensuring your cluster is secure, scalable, and production-ready from the moment of deployment.

## • Multiple Clusters Per Platform

Create multiple clusters in a single data center location with ease and flexibility. With multiple clusters you can easily separate functions or applications, for example, a test and production cluster.

## • Version Management

Maintain cluster security and stability with proactive, scheduled version updates. This removes the need for manual intervention while preserving your control over version selection and upgrade scheduling.

## • Auto-scaling

Dynamically adjust your node count based on demand. Set a minimum and maximum (2-10 nodes), and the cluster scales automatically as your workload grows or shrinks. This is ideal for variable workloads and cost optimization.

## • Node Pools

Manage multiple groups of nodes within one cluster, defining specific instance types and scaling configurations for each. This allows you to replace rigid, homogeneous clusters with flexible infrastructure that adapts to specific application needs side-by-side.

## • Node Pool Labels

Organize your cluster to prevent conflicts. You can label one group of servers "Production" and another "Testing." This ensures your experimental code never accidentally runs on the same machines as your live website, keeping your business safe and stable.

# Why Choose Leaseweb?

At Leaseweb, we take pride in being the global yet local infrastructure provider that offers a personalized and flexible approach to meet your specific needs. Our commitment to delivering the best price-to-performance ratio makes us the top choice for thousands of companies worldwide, entrusting us with their mission-critical applications. With Leaseweb, you are not just getting a cloud service, you are gaining a trusted partner dedicated to your success.