

# Deploying a New Cluster

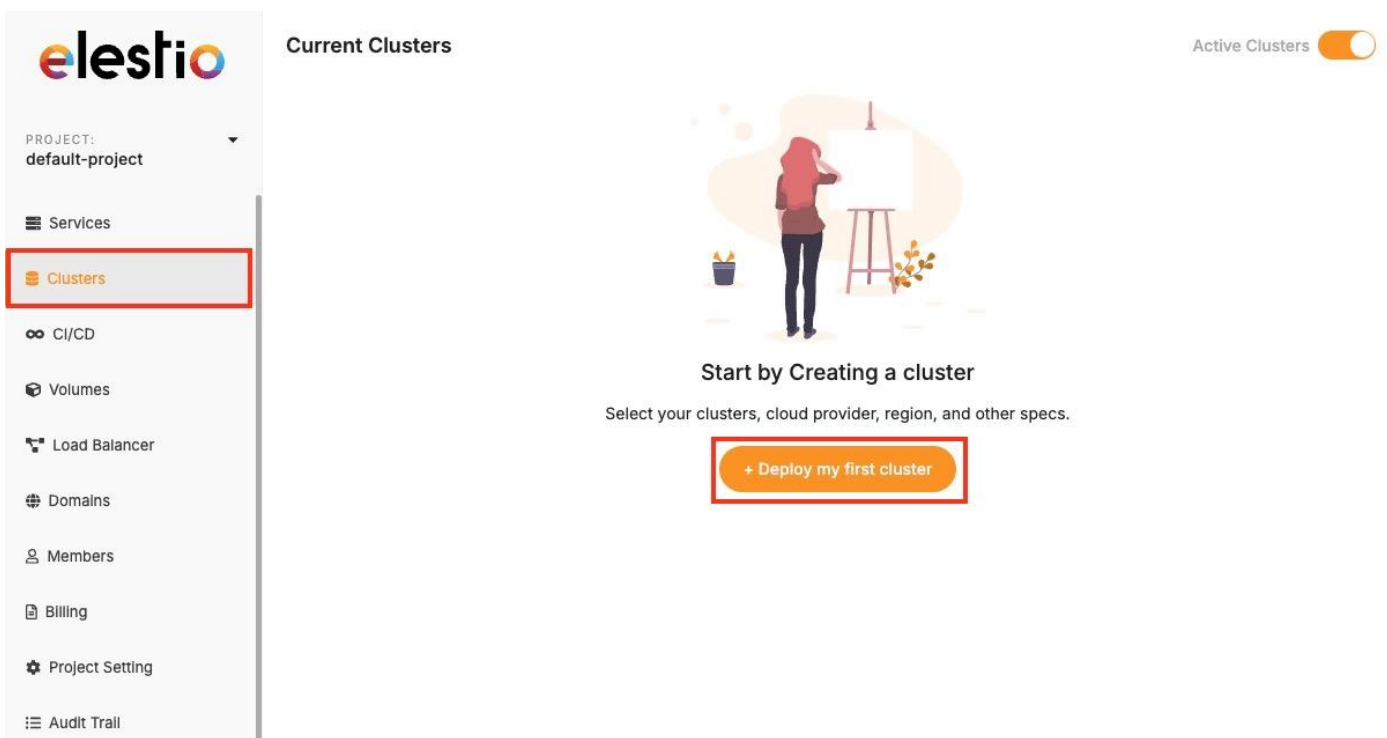
Creating a cluster is a foundational step when deploying services in Elestio. Clusters provide isolated environments where you can run containerized workloads, databases, and applications. Elestio's web dashboard helps the process, allowing you to configure compute resources, choose cloud providers, and define deployment regions without writing infrastructure code. This guide walks through the steps required to create a new cluster using the Elestio dashboard.

## Prerequisites

To get started, you'll need an active Elestio account. If you're planning to use your own infrastructure, make sure you have valid credentials for your preferred cloud provider (like AWS, GCP, Azure, etc.). Alternatively, you can choose to deploy clusters using Elestio-managed infrastructure, which requires no external configuration.

## Creating a Cluster

Once you're logged into the Elestio dashboard, navigate to the **Clusters** section from the sidebar. You'll see an option to **Create a new cluster** clicking this will start the configuration process. The cluster creation flow is flexible but simple for defining essential details like provider, region, and resources in one place.



The screenshot displays the Elestio dashboard interface. On the left, a sidebar contains the Elestio logo and a list of navigation items: PROJECT: default-project, Services, Clusters (highlighted with a red box), CI/CD, Volumes, Load Balancer, Domains, Members, Billing, Project Setting, and Audit Trail. The main content area is titled 'Current Clusters' and features an 'Active Clusters' toggle switch. Below this is an illustration of a person at a whiteboard. The text 'Start by Creating a cluster' is prominently displayed, followed by the instruction 'Select your clusters, cloud provider, region, and other specs.' A red-bordered button labeled '+ Deploy my first cluster' is positioned at the bottom of the main content area.


Now, select the database service of your choice that you need to create in a cluster environment. Click on **Select** button as you choose one.

## Create Cluster


1 Select service — 2 Select provider, region & service plan — 3 Select Support & advanced setting

**Databases**   Development   Hosting & Infra   All


Search service by name  Filter Services




**PostgreSQL**  
PostgreSQL is a powerful, open-source object-relational database system, known for reliability, data integrity and performance.




**MySQL**  
MySQL is an Oracle-backed open-source RDBMS that runs on almost all platforms.




**Redis**  
Redis is an open-source, in-memory database, cache and message broker.




**Valkey**  
A flexible distributed key-value datastore that supports both caching and beyond caching workloads.




**KeyDB**  
KeyDB is both your cache and database, for cloud-optimized solutions.



**TimescaleDB**  
TimescaleDB is the leading open-source relational database with support for time-series data.



**ClickHouse**  
ClickHouse is an open-source, column-oriented DBMS for online analytical processing.



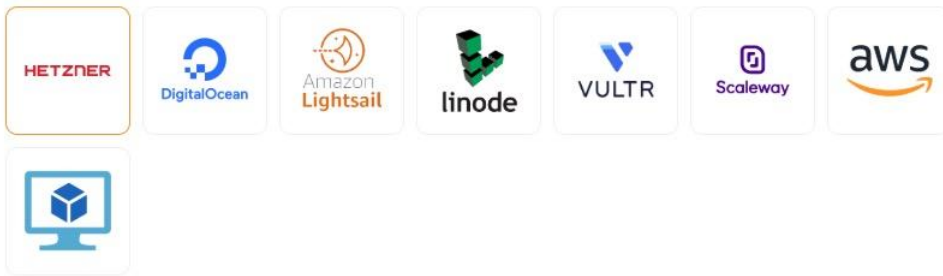
**Hydra**  
Hydra is an open-source alternative to enterprise data warehouses and it's simple, fast, and adaptable to your needs.

During setup, you'll be asked to choose a hosting provider. Elestio supports both managed and BYOC (Bring Your Own Cloud) deployments, including AWS, DigitalOcean, Hetzner, and custom configurations. You can then select a region based on latency or compliance needs, and specify the number of nodes along with CPU, RAM, and disk sizes per node.

## Create Cluster

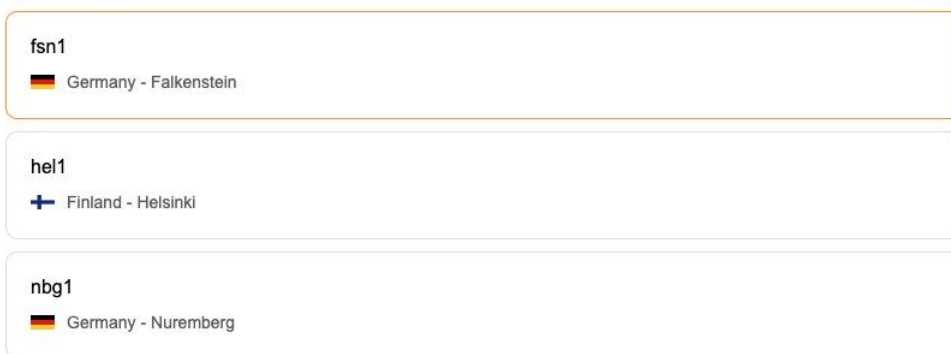
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### 1. Select Service Cloud Provider



### 2. Select Service Cloud Region

Europe North America Asia



Service Valkey

Version latest (10-07-2024)

Provider Hetzner Cloud

Region Europe, Germany Falkenstein

Plan MEDIUM-2C-4G

- 2 CPU
- 4 GB RAM
- 40 GB Storage
- 20 TB Bandwidth
- No Volume
- No Snapshots
- 7 Remote Backups
- Intel Xeon
- Fully Managed

Support Level1

Estimated Hourly Price\* \$0.0205

If you're setting up a high-availability cluster, the dashboard also allows you to configure cluster-related details under **Cluster configuration**, where you get to select things like replication modes, number of replicas, etc. After you've configured the cluster, review the summary to ensure all settings are correct. Click the **Create Cluster** button to begin provisioning.

▼ Open Advanced Configuration

**4. Cluster configuration** (Optional)

**i** When a node is chosen, a certain number of virtual machines (VMs) are created, and the billing is based on the number of VMs created.

**Replication mode:**

Single Node    
  Primary/Replica

**Number of Replicas**

1

**Selected cluster configuration**

1 Primary Node + 1 Replica Node

**5. Select Service Support**

**i** Paid support plans can be changed once a month.

**Level 1 Support**

- ✓ 7 Days of remote backup retention
- ✓ No Service snapshot included
- ✓ Email support channel

**Level 2 Support**

- ✓ 14 Days of remote backup retention
- ✓ 2 Services snapshots included
- ✓ Email support channel

**Level 3 Support**

- ✓ 30 Days of remote backup retention
- ✓ 4 Services snapshots included
- ✓ Email & Phone supports

**Service Valkey**

Version  
latest (10-07-2024)

Provider  
Hetzner Cloud

Region  
Europe, Germany  
Falkenstein

Plan  
**MEDIUM-2C-4G**

- 2 CPU
- 4 GB RAM
- 40 GB Storage
- 20 TB Bandwidth
- No Volume
- No Snapshots
- 7 Remote Backups
- Intel Xeon
- Fully Managed
- 2 Nodes

Support  
**Level1**

Estimated Hourly Price\*  
**\$0.0411**

(2 Nodes \* \$0.0205)

\*Estimated monthly price is \$30 based on 730 hours of usage.

Create Cluster

Elestio will start the deployment process, and within a few minutes, the cluster will appear in your dashboard. Once your cluster is live, it can be used to deploy new nodes and additional configurations. Each cluster supports real-time monitoring, log access, and scaling operations through the dashboard. You can also set up automated backups and access control through built-in features available in the cluster settings.

Revision #1

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