

Deploying a New Cluster

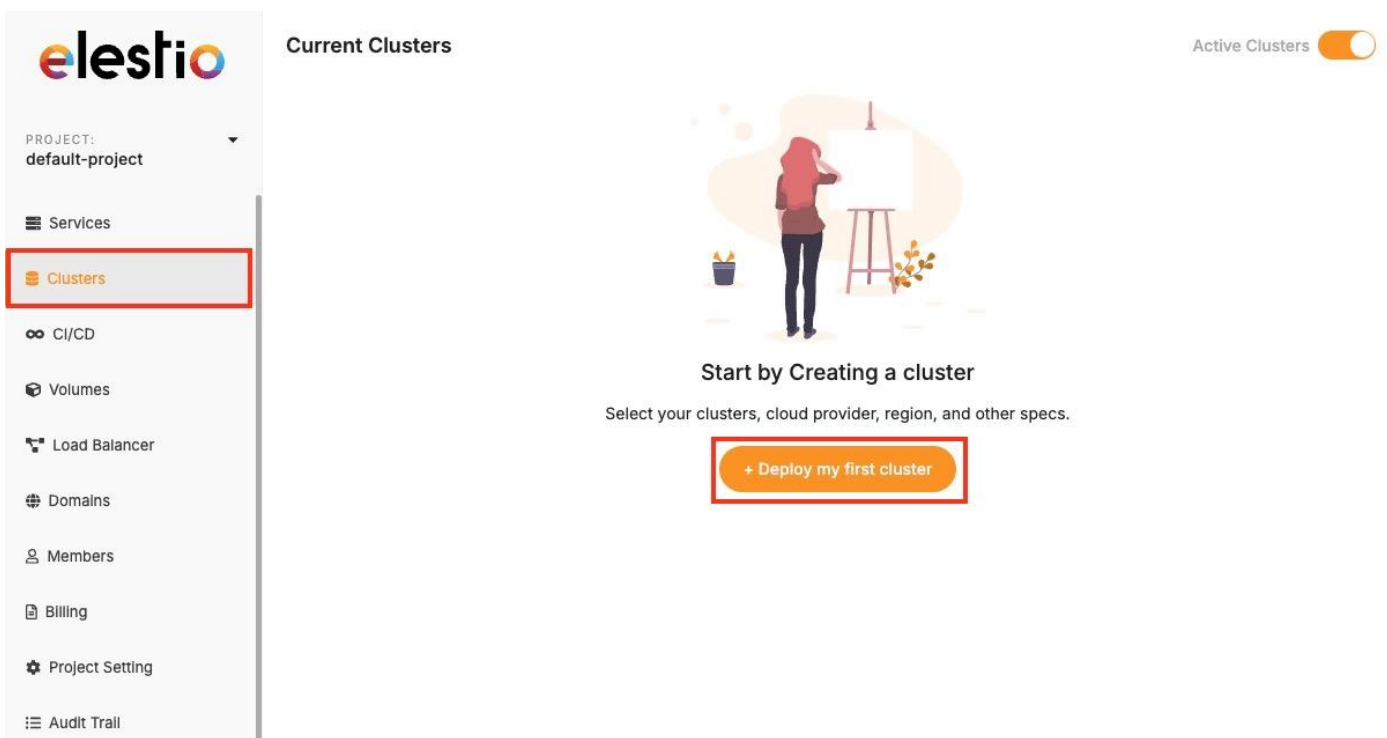
Creating a cluster is a foundational step when deploying services in Elestio. Clusters provide isolated environments where you can run containerized workloads, databases, and applications. Elestio's web dashboard helps the process, allowing you to configure compute resources, choose cloud providers, 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 in the top right corner. In the center, there is an illustration of a person standing next to a whiteboard. Below the illustration, the text reads 'Start by Creating a cluster' followed by 'Select your clusters, cloud provider, region, and other specs.' A prominent orange button with a white plus sign and the text '+ Deploy my first cluster' is highlighted with a red box.













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 Service

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

Databases Applications Development Hosting & Infra Full Stack AI/GPU CI/CD All

Search service by name Filter Services

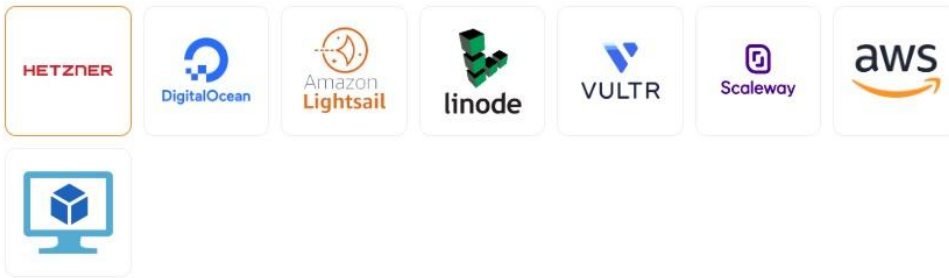
 PostgreSQL PostgreSQL is a powerful, open-source object-relational database system, known for reliability, data integrity and performance.	 MySQL MySQL is an Oracle-backed open-source RDBMS that runs on almost all platforms.	 MariaDB The open source relational database
 ColumnStore MariaDB ColumnStore is a GPLv2 open-source columnar database built on MariaDB Server.	 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. <input type="button" value="Details"/> <input type="button" value="Select"/>	 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.
 ClickHouseS3 ClickHouse + S3 is an open-source, column-oriented DBMS for online analytical processing.	 ScyllaDB ScyllaDB is a true NoSQL database for the most demanding applications.	 InfluxDB InfluxDB is a scalable datastore that empowers developers to build IoT, analytics and monitoring software.

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.

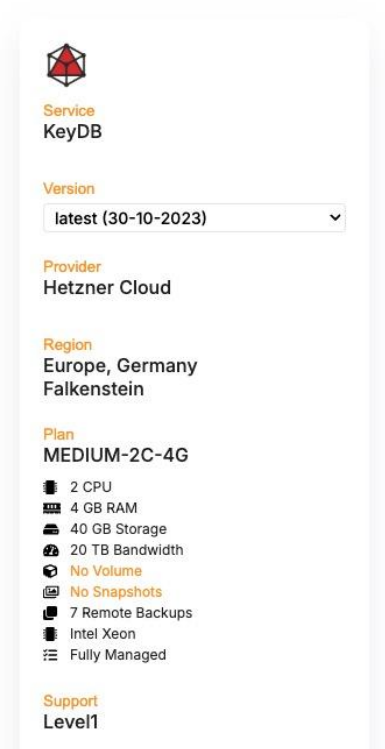
Create Service

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

1. Select Service Cloud Provider



2. Select Service Cloud Region



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.

Name*
keydb1

2. Configure Network Volume

3. Advanced Configuration (Optional)
 Open Advanced Configuration

4. Cluster configuration (Optional)

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

Selected configuration
 1 Primary Node

5. Select Service Support

Paid support plans can be changed once a month.

Level 1 Support ✓ 7 Days of remote backup retention	Level 2 Support ✓ 14 Days of remote backup retention	Level 3 Support ✓ 30 Days of remote backup retention
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Service
 KeyDB

Version
 latest (30-10-2023)

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
 *Estimated monthly price is \$15 based on 730 hours of usage.

[Create Service](#)

[Copy Terraform Config](#)

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.

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