

# Adding a Node

As your application usage grows or your infrastructure requirements change, scaling your cluster becomes essential. In Elestio, you can scale horizontally by adding new nodes to an existing cluster. This operation allows you to expand your compute capacity, improve availability, and distribute workloads more effectively.

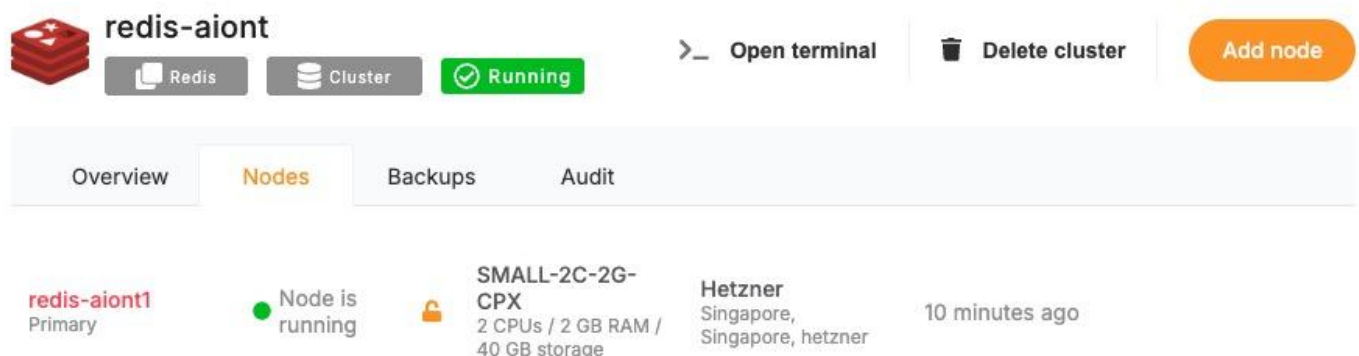
## Need to Add a Node

There are several scenarios where adding a node becomes necessary. One of the most common cases is **resource saturation** when existing nodes are fully utilized in terms of CPU, memory, or disk. Adding another node helps distribute the workload and maintain performance under load.

In clusters that run **stateful services** or require **high availability**, having additional nodes ensures that workloads can fail over without downtime. Even in development environments, nodes can be added to isolate environments or test services under production-like load conditions. Scaling out also gives you flexibility when deploying services with different resource profiles or placement requirements.

## Add a Node to Cluster

To begin, log in to the [Elestio dashboard](#) and navigate to the **Clusters** section from the sidebar. Select the cluster you want to scale. Once inside the cluster view, switch to the **Nodes** tab. This section provides an overview of all current nodes along with their health status and real-time resource usage.



The screenshot displays the Elestio dashboard interface for a Redis cluster named "redis-aiont". At the top, there's a cluster header with a Redis icon, the cluster name, and buttons for "Redis", "Cluster", and "Running". To the right are buttons for "Open terminal", "Delete cluster", and "Add node". Below the header is a tabbed interface with "Overview", "Nodes", "Backups", and "Audit". The "Nodes" tab is active, showing a table of nodes. The table has columns for node name, status, plan, location, and time added. The first node, "redis-aiont1", is the "Primary" node, is "Node is running", on the "SMALL-2C-2G-CPX" plan (2 CPUs / 2 GB RAM / 40 GB storage), located in "Hetzner Singapore", and was added "10 minutes ago".

Node Name	Status	Plan	Location	Time Added
redis-aiont1 Primary	Node is running	SMALL-2C-2G-CPX 2 CPUs / 2 GB RAM / 40 GB storage	Hetzner Singapore, Singapore, hetzner	10 minutes ago

To add a new node, click the **“Add Node”** button. This opens a configuration panel where you can define the specifications for the new node. You’ll be asked to specify the amount of **CPU**, **memory**, and **disk** you want to allocate. If you’re using a bring-your-own-cloud setup, you may also need to confirm or choose the cloud provider and deployment region.

The screenshot shows the Elestio dashboard for a cluster named 'redis-aiont'. At the top, there are tabs for 'Redis', 'Cluster', and 'Running' (which is active). To the right of these tabs are buttons for 'Open terminal', 'Delete cluster', and 'Add node'. The 'Add node' button is highlighted with a red rectangular box. Below the top bar, there is a navigation menu with tabs for 'Overview', 'Nodes', 'Backups', and 'Audit'. The 'Nodes' tab is highlighted with a red rectangular box. The main content area shows a list of nodes. The first node is 'redis-aiont1' (Primary), which is 'Node is running' (indicated by a green dot), has a lock icon, and is on a 'SMALL-2C-2G-CPX' instance with '2 CPUs / 2 GB RAM / 40 GB storage' on 'Hetzner Singapore, Singapore, hetzner' cloud provider, added '10 minutes ago'.

After configuring the node, review the settings to ensure they meet your performance and cost requirements. Click **“Create”** to initiate provisioning. Elestio will begin setting up the new node, and once it’s ready, it will automatically join your cluster.

This screenshot shows the Elestio dashboard after a new node has been added. The 'Add node' button is still visible in the top right. The 'Nodes' tab is selected in the navigation menu. The node list now contains two nodes. The first node, 'redis-aiont1' (Primary), remains the same. The second node, 'redis-aiont2' (Replica), is highlighted with a red rectangular box. It is also 'Node is running' (green dot), has a lock icon, and is on a 'SMALL-2C-2G-CPX' instance with '2 CPUs / 2 GB RAM / 40 GB storage' on 'Hetzner Singapore, Singapore, hetzner' cloud provider, added '4 minutes ago'. To the right of the 'redis-aiont2' node, there are two icons: a 'Promote' icon (an upward arrow) and a 'Delete' icon (a trash can).

Once provisioned, the new node will appear in the node list with its own metrics and status indicators. You can monitor its activity, verify that workloads are being scheduled to it, and access its logs directly from the dashboard. From this point onward, the node behaves like any other in the cluster and can be managed using the same lifecycle actions such as rebooting or draining.

## Post-Provisioning Considerations

After the node has been added, it becomes part of the active cluster and is available for scheduling workloads. Elestio’s orchestration layer will begin using it automatically, but you can further

customize service placement through resource constraints or affinity rules if needed.

For performance monitoring, the dashboard provides per-node metrics, including CPU load, memory usage, and disk I/O. This visibility helps you confirm that the new node is functioning correctly and contributing to workload distribution as expected.

Maintenance actions such as draining or rebooting the node are also available from the same interface, making it easy to manage the node lifecycle after provisioning.

---

Revision #1

Created 15 May 2025 07:22:12 by kaiwalya

Updated 15 May 2025 07:36:40 by kaiwalya