

Clustering

A Proxmox cluster groups multiple Proxmox nodes together, enabling centralized management, live migration (moving VMs between nodes), and high availability. When second node is connected to a cluster, it will assume primary cluster roles and authentication.

Pre Requisites:

- All nodes must be running the same or compatible version of Proxmox VE
- All nodes must be able to communicate over the network (low latency preferred)
- Odd number of nodes recommended (3+) for quorum
- Shared storage is recommended (but not required for basic clustering) for High Availability

Note: Creating a cluster on an existing node will reset some configurations. Set up clustering before deploying production VMs.

Creating the Cluster on Primary Node

1. On the primary node, go to **Datacenter > Cluster**
2. Click **Create Cluster**
3. Enter a **Cluster Name** (e.g., homelab-cluster)
4. Set the **Cluster Network** (the network ring used for cluster communication)
5. Click **Create**
6. Click **Join Information** and copy the join token

Adding Additional Nodes

1. Log into the second Proxmox node's web console
2. Go to **Datacenter > Cluster**
3. Click **Join Cluster**
4. Paste the join information from the first node
5. Enter the root password of the first node when prompted
6. Click **Join** — the node joins the cluster

After joining, all nodes appear in the left panel of any node's web console. You can manage all VMs and containers across all nodes from a single interface.

Live Migration

1. Right-click a VM on any node
 2. Select Migrate
 3. Choose the target node
 4. Click Migrate — the VM moves to the other node (live, with minimal interruption if using shared storage)
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Revision #1

Created 2026-03-13 01:11:17 UTC by lumxux

Updated 2026-03-13 01:17:46 UTC by lumxux