

Cluster service

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Cluster service

Run several Nuclos servers as a cluster – master/slave, load balancer, sticky sessions and the cluster server view.

HOW-TO

ADMINISTRATOR

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APPLIES TO NUCLOS 4.2026.X

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Menu *Administration* *Cluster service*. From Nuclos 4.43 several Nuclos servers can run as a **cluster** – for load balancing and failover. All nodes use the same **database** and the same **document directory**. A dispatcher/load balancer sits between clients and servers (not part of the delivery).

Setup (in the installer)

Cluster operation is enabled/disabled during installation in the server configuration. Parameters:

Parameter	Description
Node hostname	Hostname at which the node is directly reachable from other nodes (improves security, e.g. master /maintenance checks).
Node type = master	Runs jobs, distributes notifications and performs the DB auto-setup on update. Only one master may run at a time.
Node type = slave	Serves load balancing.
Load balancer protocol/hostname/port /context path	Optional – only if different from the Nuclos server.

Load balancer

Since Nuclos ships no balancer, its parameters must be set: the REST service embeds URLs to other services in results – these should point to the balancer. Therefore the load balancer parameters take precedence for URL generation in a cluster.



Sticky sessions required

Sticky sessions are mandatory: a client's session must always talk to the same node (also for SSO tokens). If a node fails, its sessions become invalid – re-login required.

Cluster server view

In the web and rich client (menu *Administration*) you can view the list of registered cluster servers (read-only): node status, exchanged messages (max. 24h) and a live status query of all servers via REST (issued by the current server, marked as *tester*).



Limitation

In cluster operation the **Lucene indexer** is disabled automatically by the installer.

Related pages



Maintenance mode

Running Nuclos behind a reverse proxy

Proxy.

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Maintenance.

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