

# Clustering

Clustering in eZ Publish Platform refers to setting up your install so you have several web servers running eZ Publish Platform.

## Intro: Server setup overview

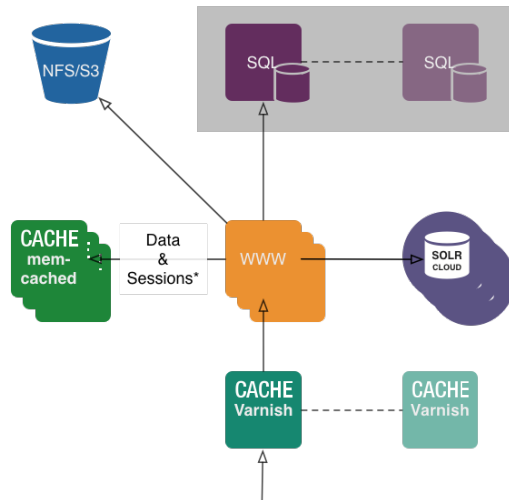


Diagram illustrates how clustering of eZ Publish Platform is typically setup, the parts illustrates the different roles needed for a successful cluster setup. Number of web server, memcached servers, Solr server, Varnish servers, Database Servers, NFS servers and if some servers takes care about several roles (*typically running memcached across the web server*) is up to you and your performance needs.

The minimal requirements are the following (with what is currently supported in parentheses):

- Shared HTTP cache (using Varnish)
- Shared Persistence cache and Sessions (using Memcached or experimentally Redis)
- Shared Database (using MySQL/MariaDB)
- Shared Filesystem (using NFS)

For further details on requirements, see [Requirements doc](#).

While this is not a complete list, further recommendations includes:

- Using a CDN for improved performance and faster ping time worldwide
- Using Solr for better search and better search performance
- Using Active/Passive Database for failover
- In General: Make sure to use later versions of PHP and MySQL/MariaDB within [what is supported](#) for your eZ Publish Platform version to get more performance out of each server.

## Steps to setup Cluster

To setup Cluster you'll need to:

1. [Setup DFS Cluster](#) which moves binary files and some *legacy* cache files to NFS
2. [Configure Persistence Cache](#) to use Memcached
3. [Setup Varnish](#), disable Symfony HTTP Cache and setup cache invalidation to purge Varnish cache
4. [Configure sessions](#) to use cluster safe Sessions handling

