# Servoy Application Server Configuration

## Servoy Cluster License

In order for a Servoy Application Server to be part of a Servoy Cluster the Servoy Application Server needs to have a Servoy cluster License installed. The license must be installed on the Servoy Application Server before it is started/added to the cluster.

## Terracotta Configuration

The Terracotta integration bundled with the Servoy Application Server installation contains **two files that require modification**. They need to be configured to find both the local Terracotta instance and the Terracotta Server instance.

### tc-config.xml

The tc-config.xml file in the <servoy>/application_server/terracotta directory is the configuration file for the Terracotta instance and is used by the start_servoy_clustered.bat/sh to launch both the Terracotta instance (if not already started) and the Servoy Application Server.

The tc-config.xml file contains a settting that needs to be pointed to the hostname/IP address of the Terracotta Server instance:

- open the file in a text editor
- replace the **host attribute value** on the line "**<server host="localhost">**" to the hostname or IP address of the machine on which Terracotta is configured to run as server.

This change to tc-config.xml needs to be made to all instances of Terracotta that will be part of the cluster.

> ⚠️ **Using a dedicated machine to run the Terracotta instance that acts as server**
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> When using a dedicated machine to run the Terracotta instance that will act as Terracotta Server, the tc-config.xml also needs to copied to the same directory where the start_terracotta_server.bat/start_terracotta_server.sh file was copied in the previous step

> ⚠️ **Additional Terracotta settings**
>
> The Terracotta configuration can be further tuned if required by editing the tc-config.xml. See the official Terracotta documentation for more information.

### start_servoy_clustered.*

The start_servoy_clustered.* file in the <servoy>application_server/terracotta directory is used to start a Servoy Application Server instance as part of a cluster.

This file needs to be edited to point to the local installation of Terracotta:

- Open the file **start_servoy_clustered.bat/start_servoy_clustered.sh** in a text editor
- change "**[path_to_terracotta_install]**" to the path where Terracotta is installed.

This change to start_servoy_clustered.* needs to be made to all instances of Terracotta that will be part of the cluster.