

Configuring EJB Containers

An Enterprise JavaBeans(EJB) container is used to provide a run-time environment for enterprise beans within the application server. The container handles operation of EJBs and also act as an intermediary between business logic layer and the rest of the Java EE environment. In Geronimo, [OpenEJB](#) is included as a plugin to manage EJBs.

To configure the default properties of each container, you can do it either from Console or by editing the `config.xml` file manually. The only difference is that you must stop the server first if you choose to update `config.xml` manually; but by using the Console, you can restart openEJB module on-the-fly.

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Understanding the configuration

We'll take the EJB container **DefaultStatefulContainer** as an example here. By looking into `config.xml`, we can see the container is defined as followed:

config.xml

```
...
<gbean name="DefaultStatefulContainer">
  <attribute name="timeout">${StatefulTimeout}</attribute>
  <attribute name="capacity">${Capacity}</attribute>
  <attribute name="bulkPassivate">${BulkPassivate}</attribute>
</gbean>
...
```

All these values are set as system variables in `config-substitutions.properties` file under the same directory as `config.xml`.

config-substitutions.properties

```
...
Capacity=1000
StatefulTimeout=20
BulkPassivate=100
...
```

Which means if you want to configure any of properties, change the numbers in `config-substitutions.properties` or update `config.xml` after the server is stopped. Here is an example by updating `config.xml` directly:

config.xml

```
...
<gbean name="DefaultStatefulContainer">
  <attribute name="timeout">${StatefulTimeout}</attribute>
  <attribute name="capacity">500</attribute>
  <attribute name="bulkPassivate">${BulkPassivate}</attribute>
</gbean>
...
```

And then restart the Geronimo to make the changes take effect.

Configuring the value from console

The **EJB Server** portlet that displays the EJB containers available in the server and their status is available by selecting **EJB Server** on the **Console** Navigation menu on the left hand side. You will be also presented with all the EJBs that the container is holding. The following figures illustrate the portlet layout.

EJB Server

The screenshot shows a tree view on the left under 'Ejb Containers'. The tree is expanded to show 'Stateful Containers' > 'None' > 'DefaultSingletonContainer'. The configuration table on the right shows the following details:

Name	Value
Bean Class Name	org.apache.geronimo.management.MEJB
Deployment Id	mejb/ejb/mgmt/MEJB
EJB Name	ejb/mgmt/MEJB
EJB Home Interface	javax.management.j2ee.ManagementHome
JNDI Names	ejb/mgmt/MEJB
Remote Interface	javax.management.j2ee.Management

Expand the tree and find the container you want to configure, input the value and click **Update**. After that, the Console will prompt: The openejb configuration should be restarted for the changes that were made to the fields to take effect. The changed fields are now shown in red color.

EJB Server

⚠ The openejb configuration should be restarted for the changes that were made to the fields to take effect. The changed fields are now shown in red color.

The screenshot shows the same tree view as before, but now expanded to 'Stateful Containers' > 'DefaultStatefulContainer'. The configuration table on the right shows the following details:

Name	Value
Container Class	org.apache.openejb.core.stateful.StatefulContainerFactory
Container Id	DefaultStatefulContainer
Container Description	null
Display Name	null
Cache	org.apache.openejb.core.stateful.SimpleCache
Passivator	org.apache.openejb.core.stateful.SimplePassivator
TimeOut	<input type="text" value="20"/> <input type="button" value="Update"/>
Capacity	<input type="text" value="2000"/> <input type="button" value="Update"/>
BulkPassivate	<input type="text" value="100"/> <input type="button" value="Update"/>

To restart the openejb module on-the-fly, click on **Application->System Modules** on the left panel and check **Expert Mode**. Then find `org.apache.geronimo.configs/openejb/2.2-SNAPSHOT/car` and click **Restart** to make your changes take effect.

Console Navigation

- [Welcome](#)
- [Server](#)
- [Information](#)
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- [Shutdown](#)
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- [System Modules](#)

Installed System Modules

- Expert User (enable all actions on Geronimo Provided Components)
- Show parent and child components

Component Name	State	Commands		
console.realm/geronimo-admin/1.0/car	stopped	Start		Uninstall
org.apache.geronimo.configs/activemq-broker/2.2-SNAPSHOT/car	running	Stop	Restart	Uninstall
org.apache.geronimo.configs/aspectj/2.2-SNAPSHOT/car	running	Stop	Restart	Uninstall
org.apache.geronimo.configs/axis/2.2-SNAPSHOT/car	running	Stop	Restart	Uninstall
org.apache.geronimo.configs/axis-deployer/2.2-SNAPSHOT/car	running	Stop	Restart	Uninstall
org.apache.geronimo.configs/axis2/2.2-SNAPSHOT/car	stopped	Start		Uninstall
org.apache.geronimo.configs/axis2-deployer/2.2-SNAPSHOT/car	running	Stop	Restart	Uninstall
org.apache.geronimo.configs/axis2-ejb/2.2-SNAPSHOT/car	stopped	Start		Uninstall
org.apache.geronimo.configs/axis2-ejb-deployer/2.2-SNAPSHOT/car	running	Stop	Restart	Uninstall
org.apache.geronimo.configs/client/2.2-SNAPSHOT/car	stopped	Start		Uninstall
org.apache.geronimo.configs/client-corba-yoko/2.2-SNAPSHOT/car	stopped	Start		Uninstall
org.apache.geronimo.configs/client-deployer/2.2-SNAPSHOT/car	running	Stop	Restart	Uninstall
org.apache.geronimo.configs/client-security/2.2-SNAPSHOT/car	stopped	Start		Uninstall
org.apache.geronimo.configs/client-transaction/2.2-SNAPSHOT/car	stopped	Start		Uninstall
org.apache.geronimo.configs/clustering/2.2-SNAPSHOT/car	stopped	Start		Uninstall
org.apache.geronimo.configs/concurrent/2.2-SNAPSHOT/car	running	Stop	Restart	Uninstall
org.apache.geronimo.configs/geronimo-j2ee/2.2-SNAPSHOT/car	running	Stop	Restart	Uninstall