

Configuring Nuclos for high user load

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🔧 Configuring Nuclos for high user load

Configure Nuclos for many concurrent requests – align `max_connections`, `maxActive` and `maxThreads`.

HOW-TO

ADMINISTRATOR

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APPLIES TO NUCLOS 4.2026.X

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By default Nuclos handles up to **100 concurrent requests**. If that is not enough under high load, three configuration files must be aligned (example: 300 requests; PostgreSQL).

1. postgresql.conf

Increase `max_connections` (default 100) – if it is lower than the number of concurrent requests, requests fail:

Fehler beim Rendern des Makros 'code': Ungültiger Wert für den Parameter 'com.atlassian.confluence.ext.code.render.InvalidValueException'

```
max_connections = 300
```



Mind the RAM

PostgreSQL starts a separate process per connection – more connections need more **memory**. Provide enough RAM, otherwise out-of-memory or swapping may occur.

2. nuclos-beans-startup.xml

Located in the archive `webapp/WEB-INF/lib/nuclos-server-<version>.jar` under `META-INF/nuclos/`. Adjust the JDBC session pool value `maxActive` (should be **larger** than `max_connections`):

```
<bean id="nuclosDataSource" class="org.nuclos.server.database.NuclosBasicDatasource" destroy-method="close">
    [...]
    <property name="maxActive" value="350"/>
</bean>
```

3. server.xml

Under `tomcat/apache-tomcat-<version>/conf/`. Increase `maxThreads` of the used HTTP connector (default 200; 150 for SSL):

```
<Connector compressableMimeType="text/html,text/js,text/css,application/javascript,application/json"
compression="on" compressionMinSize="2048" connectionTimeout="20000" port="8010" redirectPort="8443"
maxThreads="300"/>
```

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