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title

By Himanshu Singh

The error **"Starting Tomcat v9.0 server at localhost has encountered a problem. The server cannot be started because one or more of the ports are invalid."** usually occurs due to port conflicts or incorrect configurations.

### ****Steps to Resolve the Issue:****

#### **1. Check Port Configuration**

1. Open **Eclipse/STS** (if using Eclipse-based IDE).
2. Go to **"Servers"** tab (If not visible, go to **Window → Show View → Servers**).
3. Double-click on **Tomcat v9.0 Server at localhost** to open the server editor.
4. Look for the **"Ports"** section and check the assigned ports:
   * HTTP/1.1 Port (Default: 8080)
   * AJP Port (Default: 8009)
   * Shutdown Port (Default: 8005)

#### **2. Change Ports if Already in Use**

* If any port is already in use by another application, change it to a different value.
* Example:
  + Change 8080 to 9090
  + Change 8009 to 9009
  + Change 8005 to 9005
* Save the changes and restart the server.

#### **3. Check for Running Processes on the Ports**

If ports are already occupied, stop the process using them:

* **Windows:**
  1. Open **Command Prompt** as Administrator.
  2. Run:

nginx

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netstat -ano | findstr :8080

* 1. Identify the **PID (Process ID)**.
  2. Kill the process using:

php-template

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taskkill /F /PID <PID>

* **Linux/macOS:**
  1. Run:

perl

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sudo netstat -tulnp | grep 8080

* 1. Kill the process:

bash

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sudo kill -9 <PID>

#### **4. Check** server.xml **Configuration**

1. Navigate to your **Tomcat installation directory**.
2. Open the file:

pgsql

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<TOMCAT\_HOME>/conf/server.xml

1. Look for:

xml

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<Connector port="8080" protocol="HTTP/1.1"

connectionTimeout="20000"

redirectPort="8443" />

* + Change 8080 to another port (e.g., 9090).

1. Also, check:

xml

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<Server port="8005" shutdown="SHUTDOWN">

* + Change 8005 to another port (e.g., 9005).

1. Save the file and restart Tomcat.

#### **5. Restart Eclipse and Tomcat**

* **Stop Tomcat** completely from Eclipse.
* **Restart Eclipse IDE**.
* **Start Tomcat Server** again.

After following these steps, your **Tomcat v9.0 server should start without issues**. Let me know if you need further assistance! 🚀