

Changing JIRA's TCP Ports

✔ If you are running JIRA Standalone, you can use the [JIRA Configuration Tool](#) to reconfigure the TCP ports that JIRA runs through.

Why Change JIRA's TCP Ports?

By default, JIRA Standalone uses TCP listening port **8080** (including default Apache Tomcat installations running JIRA WAR) and hence, JIRA is typically available at `http://<yourserver>:8080`.

If, however, an existing service running on your machine is claiming port **8080**, there will be a conflict and JIRA will fail to start. You may see errors like this:

```
LifecycleException: Protocol handler initialization failed:
java.net.BindException: Address already in use:8080
```

This can be fixed by changing JIRA to use another TCP listening port (eg. **8100**) and shutdown port (eg. **8015**).

To do this, edit the `server.xml` file in the `conf` subdirectory of the [JIRA Installation Directory](#) (or of the Apache Tomcat installation that runs your JIRA WAR installation).

⚠ If use JIRA WAR, please be aware that changing JIRA's TCP ports of the Tomcat installation running JIRA will affect any other web applications deployed to the same Tomcat installation.

The start of the file looks like:

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

  <Service name="Catalina">

    <Connector port="8080"
      maxHttpHeaderSize="8192" maxThreads="150" minSpareThreads="25"
      maxSpareThreads="75"
      enableLookups="false" redirectPort="8443" acceptCount="100"
      connectionTimeout="20000" disableUploadTimeout="true" />

    ...
```

For example, change the shutdown port from "**8005**" to "**8015**" and the listening port (i.e. in the `<connector/>` element) from "**8080**" to "**8100**". (See [below](#) to decide which TCP port numbers should be used for JIRA.)

Then, restart JIRA and point a browser to `http://<yourserver>:8100`

❌ If you are running on a Unix server and bind the ports below 1024 (such as port 80 for example), you will **need to start JIRA as root** in order to successfully bind to the port.

Which port number should I choose?

If you are not sure which port number to choose, use a tool such as `netstat` to determine which port numbers are free to use by JIRA. The highest port number that can be used is 65535 because it is the highest number which can be represented by an unsigned 16 bit binary number. [The Internet Assigned Numbers Authority \(IANA\)](#) lists the registration of commonly used port numbers for well-known Internet services, it's advisable to avoid any of those ports.

A note about firewalls

When you choose a port number for JIRA, bear in mind that your firewall may prevent people from connecting to JIRA based on the port number. Organisations with a local network protected by a firewall typically need to consider modifying their firewall configuration whenever they install a web-based application (such as JIRA) that is running on a new port or host. Even personal laptop and desktop machines often come with firewall software installed that necessitates the same sort of change as described above.

If JIRA does not need to be accessed from outside the firewall, then no firewall configuration changes will be necessary.

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