

# Configuration Guide

## Configuring JBoss Application Server to Use Nondefault Ports

This document describes how to change an instance of JBoss running SAS Web applications to use nondefault ports. Changing the port usage for JBoss can be necessary to avoid port conflicts with other applications, including another instance of JBoss. If you want to run JBoss on nondefault ports without running a second instance of JBoss on the server, then you simply specify the ports you want to use when you run SAS Deployment Wizard. In this case, you do not need to read this document.

However, if you want to run an additional instance of JBoss on the server, you need to read this document and then specify the nondefault ports when you run SAS Deployment Wizard.

Instructions in this document follow a best practice that JBoss identifies in its [Configuring Multiple JBoss Instances On One Machine](#) article to increment port numbers in steps of 100 to create groups of well-known alternative ports:

Protocol port	default setting (first JBoss instance)	ports-01 setting (second JBoss instance)	ports-02 setting (third JBoss instance)
HTTP port	8080	8180	8280
HTTPS port	8443	8543	8643
RMI port	1099	1199	1299

When you run SAS Deployment Wizard, the **Web Application Server: Managed Server and Ports** page prompts you for port numbers. Provide a set of these well-known alternative ports on that page. After software installation and configuration, follow the instructions in this document.

Examples throughout this document show the ports-01 group of ports.

**Note:** You cannot run a second instance of JBoss with SAS Web applications on the same machine without configuring a cluster. This document does not discuss or describe how to configure a JBoss cluster that runs SAS Web applications.

## Prerequisites

Before following this procedure, your site must meet these prerequisites:

- a default installation of JBoss that is unzipped and not running
- run SAS Deployment Wizard and accepted the automatic deployment option for SAS Web applications
- use a set of well-known alternative ports from the previous table

## Configuration

Follow these steps to change SAServer1 to run on ports 8180, the second set of well-known HTTP ports for JBoss:

1. In the `JBOSS_HOME\server\SAServer1` directory, edit the `jboss.port.bindings.xml` file and make two changes.

- a. Replace the SAServer1 definition with ports-default:

```
<!-- ***** -->
<!-- *                SAServer1                * -->
<!-- ***** -->
<server name="ports-default">
```

- b. Locate and replace the ports-01 definition with SAServer1:

```
<!-- ***** -->
<!-- *                ports-01                * -->
<!-- ***** -->
<server name="SAServer1">
```

2. Edit the `JBOSS_HOME\server\SAServer1\wrapper.conf` file and change the value of Java option `sas.auto.publish.port` to 8180:

```
-Dsas.auto.publish.port=8180
```

**Note:** For UNIX operating environments, make the Java option `sas.auto.publish.port` change in `SAServer1.sh` and also change the value of RMI port number for the shutdown command—in this case, to 1199:

```
stop)
# add args for username/password as in "SAServer1.sh stop -u username
-p password"
  JAVA_OPTS="-d64 -Xms512M -Xmx512M"
  "/.../jboss-4.2.0.GA/bin/shutdown.sh" -s localhost:1199 $* -S
;;
```

## Recommended Reading

These URLs are current as of December 2008.

Ross, Elias, 2004: "Configuring Multiple JBoss Instances On One Machine." Available at <http://www.jboss.org/community/docs/DOC-9384>.

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