

BusinessObjects Enterprise XI

How to create multiple configuration instances of WebSphere 5

Overview

The WebSphere Application Server allows you to create multiple configuration instances, using the **wsinstance** command, all running on the same computer at the same time.

This document is valid for Crystal Enterprise and BusinessObjects Enterprise.

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Introduction

The **wsinstance.bat** (or **wsinstance.sh** for UNIX-based platforms) command line tool creates multiple configuration instances of one installation of either the base WebSphere Application Server or the Deployment Manager.

Each WebSphere Application Server configuration instance is a stand-alone instance with a unique name and its own set of configuration files and user data folders.

Configuration folders include:

- config
- etc
- properties

User data folders include:

- installedApps
- installableApps
- temp
- logs
- tranlog
- wstemp

It also has the administrative console application to manage the configuration instance. It shares all run-time scripts, libraries, the Software Development Kit, and other files with the initial application server.

Syntax

To create multiple configuration instances using **wsinstance.exe** (Windows) **wsinstance.bat** (UNIX) or **wsinstance.sh** (UNIX), at the command line, use syntax similar to the following:

```
wsinstance.sh -name instanceName (unique)  
                  -path instanceLocation  
                  -host hostName  
                  [-startingPort startingPort]  
                  -create|-delete
```

-debug

Create your configuration instance

1. Log on as the user that will own the instance
2. For UNIX, run the **wsinstance.sh** script located in the **bin/wsinstance** directory under the WebSphere installation directory. For Windows, run **wsinstance.exe** found in the WebSphere bin directory.

NOTE	The target directory must exist before you run this command.
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For example:

UNIX

```
wsinstance.sh -name myinstance1 -path
/export/home/myuser/MyWebSphere -host tsaix01 -startingPort
12550 -create
```

WINDOWS

```
wsinstance -name workshop01 -path "c:\program
files\websphere\appserver\instances\workshop01" -host ven-
blitz-toby -startingPort 18000 -create
```

It will take a few minutes to create the instance. Once it is successfully completed, under MyWebSphere, you will see a set of WebSphere configuration files and other data files.

NOTE	To remove an instance, issue the same command but specify the -delete parameter instead of -create .
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Start a configuration instance

1. Source the **setupCmdLine.sh** file located under your configuration instance (MyWebSphere/bin/setupCmdLine). Source it by changing to the **/MyWebSphere/bin** directory and type the following:

From bash shell:

```
source setupCmdLine
```

From ksh.sh:

```
. setupCmdLine (ksh,sh,)
```

2. Change directories to the WebSphere installation **/bin** directory (not your instance directory) and start the server using the **startServer** command:

```
./startServer server1
```

NOTE	The name of the server is the default <i>server1</i> ; however, because it is using the variables defined on <code>setupCmdLine</code> on your instance directory, it will start <i>server1</i> from your instance directory.
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Verify the instance port

To verify or change the ports used by your instance. Open the following file:

```
<WebSphereinstallationdirectory>/wsinstance/tsaix01_myinstance1_po  
rtdef.props
```

This file will contain the following text:

```
HTTPS_TRANSPORT_ADMIN=7017  
CSIV2_SSL_SERVERAUTH_LISTENER_ADDRESS=7019  
HTTP_TRANSPORT_ADMIN=7018  
HTTP_TRANSPORT=7020  
HTTPS_TRANSPORT=7021  
INTERNAL_JMS_SERVER=7022  
BOOTSTRAP_ADDRESS=7023  
SAS_SSL_SERVERAUTH_LISTENER_ADDRESS=7024  
DRS_CLIENT_ADDRESS=7026  
SOAP_CONNECTOR_ADDRESS=7025  
ORB_LISTENER_ADDRESS=7027  
CSIV2_SSL_MUTUALAUTH_LISTENER_ADDRESS=7028  
JMSSERVER_QUEUED_ADDRESS=7029  
JMSSERVER_DIRECT_ADDRESS=7030
```

HTTP_TRANSPORT_ADMIN is the port that is used by the Admin Console and **HTTP_TRANSPORT=7020** is the port that the Enterprise applications will be listening to.

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