

BEA WebLogic Server and WebLogic Platform 8.1 SP2 Software on HP NonStop servers

Installation guide



This guide provides instructions for installing BEA WebLogic Server and WebLogic Platform 8.1 SP2 Software on HP NonStop servers. The following sections are included in this guide:

- Configuration requirements
- Known issues
- Download and installation instructions
 - Downloading BEA WebLogic Server 8.1 SP2 and supplemental JAR file
 - Downloading BEA WebLogic Platform 8.1 SP2 and supplemental JAR file
 - Downloading HP NonStop Server Toolkit
 - Installing BEA WebLogic Server or WebLogic Platform 8.1 SP2 Software

Configuration requirements

The following table shows requirements for running WebLogic Server and WebLogic Platform 8.1 SP2 on HP NonStop servers.

Requirements for WebLogic Server and WebLogic Platform 8.1 SP2 on HP NonStop servers

Operating system version	
HP NonStop Kernel Operating System RVU G06.20 SUT	
<i>Patches</i>	HP NonStop SQL/MX 1.8.5 Software (T1050G08, SPR AAV) HP NonStop Server for JDBC/MX Software (T1225V30, PVU V30 AAE) NonStop TCP/IPv6 Software (T1265G06, SPR AAD) running in INET mode
HP NonStop Kernel Operating System RVU G06.23 SUT	
<i>Patches</i>	HP NonStop SQL/MX Release 2.0 MX Tables (T1050G10, SPR ABA) HP NonStop Server for JDBC/MX Software (T1225V31, SPR AAJ) HP NonStop TMF Software (T8607G07, SPR AFQ) NonStop DP2 Software (T9053G10, SPR APA) NonStop TCP/IPv6 Software (T1265G06, SPR AAD) running in INET mode
Chip architecture	MIPS (500 MHz recommended)
Minimum processor speed	Hardware family: Any HP NonStop S-series Server, with NonStop S72000 or later processors
Software development kit	HP NonStop Server for Java™ 4.0 Software (T2766V10, SPR AAE), based on the Java Platform 2, Standard Edition (J2SE), SDK 1.4.1 Java Version 1.4.1_05 Java 2 Runtime Environment, and Standard Edition (build 1.4.1_05-b01) Java HotSpot Server Virtual Machine

Design and development tools	<p>The WebLogic Workshop IDE and WebLogic Integration Format Builder are not supported on HP NonStop server systems.</p> <p>HP NonStop server is supported for the production deployment of applications developed in the WebLogic Workshop IDE.</p> <p>Debugging of applications developed in the WebLogic Workshop IDE, for deployment on HP NonStop server, should be accomplished to the extent possible on the Workshop development system; use of Java Virtual Machine (JVM) debug mode with NonStop Server for Java Software significantly degrades application performance and debugging effectiveness.</p> <p>HP NonStop server is also supported for the development and production deployment of WebLogic Server applications developed with other tools.</p>
RAM	4 GB per processor recommended; 2 GB per processor required QIO must be configured to use KSEG2
Performance pack	Included: libmuxer.a
Node manager	Included: Java
BEA jDrivers for Oracle®	Not supported

Note: To successfully install BEA WebLogic Server or BEA WebLogic Platform 8.1 SP2 on the NonStop server, you must download and install the NonStop Server Toolkit from the following HP website: <http://www.hp.com/go/WLS81SP2>. Instructions for downloading and installing the NonStop Server Toolkit are included in a later section of this document.

Known issues

The following table provides a list of known issues and suggested workarounds when installing WebLogic Server and WebLogic Platform 8.1 SP2 on NonStop servers.

Issues and suggested workarounds when installing WebLogic Server and WebLogic Platform 8.1 SP2 on HP NonStop servers

Issue	Known workaround
The first attempt at viewing the printable graph of a WebLogic Integration process from the WebLogic Integration Console results in a server exception being displayed in the browser window. This is due to the fact that the NonStop server platform is a "headless" platform (i.e., a computer server with no graphics capabilities).	The printable graph will be displayed on a re-try, though the icons are not as descriptive as those provided through the Interactive Process View Graph. HP recommends that users print using the Interactive Process View.

When WebLogic Transaction Manager performs recovery after restart, it may attempt to redrive second-phase commits of transactions already committed and forgotten by the resources but which are still present in the transaction logs.	None
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If the resource managers have already forgotten the transaction, they will respond with a XAER_NOTA error code that WebLogic Server Transaction Manager will ignore. Under some conditions, WebLogic Server Transaction Manager may not ignore this error code from the XA resources and can throw a XAER_HEURHAZ exception. This does not affect the transactions' outcome because the transactions are already committed and forgotten.

Occasionally, when a WebLogic Integration instance (configured to use NonStop SQL/MX Software as the data store) fails and gets restarted, a duplicate attempt may be made during recovery to insert a row into the message tracking table. This attempt will fail with a database unique constraint violation, and it can be ignored because no loss of data will result from it.	None
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For more information about known issues with WebLogic Server 8.1 SP2, refer to the *Release Notes* at: <http://e-docs.bea.com/wls/docs81/notes/index.html>.

For more information about known issues with WebLogic Platform 8.1 SP2, refer to the *Release Notes* at: <http://e-docs.bea.com/platform/docs81/interim/relnotes.html>.

Download and installation instructions

This section provides instructions for users planning to use either WebLogic Server and/or WebLogic Integration 8.1 SP2 on the HP NonStop server platform. To install only WebLogic Server, follow the instructions for downloading BEA WebLogic Server 8.1 SP2. To install both WebLogic Server and WebLogic Integration, follow the instructions for downloading BEA WebLogic Platform 8.1 SP2. On HP NonStop servers, only the WebLogic Server and WebLogic Integration product components of WebLogic Platform are supported.

The following sections provide instructions for these tasks:

- Downloading BEA WebLogic Server 8.1 SP2 and supplemental JAR file
- Downloading BEA WebLogic Platform 8.1 SP2 and supplemental JAR file
- Downloading HP NonStop Server Toolkit
- Installing BEA WebLogic Server or WebLogic Platform 8.1 SP2 Software

Before you begin the download process, review all the downloading instructions first.

Downloading BEA WebLogic Server 8.1 SP2 and supplemental JAR file

1. Go to the BEA download site at <http://commerce.bea.com/showallversions.jsp?family=WLS>
2. Once on the download page, find WebLogic Server Package Installer. Then find WebLogic Server/Express 8.1 with SP2. Then select HP NonStop Kernel as your operating system.

3. Download the WebLogic Server installation file to your workstation:
pj_server812_generic.jar.
4. From the same download page, download the supplemental JAR file for HP NonStop server by selecting the following link: platform81sp2_hpns_supp.jar.
This JAR file contains HP NonStop server-specific modifications to the standard BEA WebLogic 8.1 SP2 files.
5. Verify that you have write permissions for the root directory on the NonStop server where you plan to copy this software.
6. Use FTP to copy the BEA WebLogic Server 8.1 SP2 (pj_server812_generic.jar) and the supplemental JAR file (platform81sp2_hpns_supp.jar) to an empty directory on the NonStop server. If such a directory does not exist, create one now:

```
$ mkdir -p /usr/tandem/wlhpns/download81sp2
```

7. Make a note of the directory where the server and supplemental JAR files are now located. This directory will be used in subsequent steps.

Go to the Downloading HP NonStop Server Toolkit section below.

Downloading BEA WebLogic Platform 8.1 SP2 and supplemental JAR file

1. Go to the BEA download site:
<http://commerce.bea.com/showallversions.jsp?family=WLP>
2. Once on the download page, find WebLogic Platform Package Installer. Then find WebLogic Platform 8.1 with SP2. Then select HP NonStop Kernel as your operating system.
3. Download the WebLogic Platform installation file to your workstation:
pj_platform812_generic.jar.
4. From the same download page, download the supplemental JAR file for HP NonStop server by selecting the following link: platform81sp2_hpns_supp.jar.
This JAR file contains HP NonStop server-specific modifications to the standard BEA WebLogic 8.1 SP2 files.
5. Verify that you have write permissions for the root directory on the NonStop server where you plan to copy this software.
6. Use FTP to copy the BEA WebLogic Platform 8.1 SP2 (pj_platform812_generic.jar) and the supplemental JAR file (platform81sp2_hpns_supp.jar) to an empty directory on the NonStop server. If such a directory does not exist, create one now:

```
$ mkdir -p /usr/tandem/wlhpns/download81sp2
```

7. Make a note of the directory where the platform and supplemental JAR files are now located. This directory will be used in subsequent steps.

Go to the Downloading HP NonStop Server Toolkit section below.

Downloading HP NonStop Server Toolkit

1. Download the NonStop Server Toolkit (weblogic81sp2_hpns_v12.zip) to your workstation from either the HP website: <http://www.hp.com/go/WLS81SP2> or <http://www.hp.com/go/WLI81SP2>.
2. Use FTP to copy the downloaded file to the directory on the NonStop server that already contains the supplemental JAR file (platform81sp2_hpns_supp.jar).

For more information on WebLogic 8.1 SP2 on the NonStop server platform, refer to the following site: http://h30163.www3.hp.com/NTL/library/Independent_Products/BEA_WebLogic_Products/

Continue to the Installing BEA WebLogic Server or WebLogic Platform 8.1 SP2 Software section below.

Installing BEA WebLogic Server or WebLogic Platform 8.1 SP2 Software

Before you install WebLogic Server or WebLogic Platform on the NonStop server, you must first install the prerequisite software. The prerequisite software is listed in the Configuration requirements section of this document.

WebLogic Server 8.1 SP2 can be used with NonStop SQL/MX Software 1.8.5 (T1050G08, SPR AAV) or with NonStop SQL/MX Release 2.0 MX Tables (T1050G10, SPR ABA). WebLogic Integration 8.1 SP2 can only be used with NonStop SQL/MX Release 2.0 MX Tables (T1050G10, SPR ABA).

1. Before starting the installation process, verify that you are using the same user ID you used when you installed NonStop Server for Java 4.0 Software and have write permissions for all the directories and subdirectories for NonStop Server for Java 4.0 Software (the java_public_lib directory), and for the root directory where you plan to install WebLogic Server or WebLogic Platform 8.1 SP2 and the NonStop Server Toolkit.
2. Set and export the environment variables for use with NonStop Server for Java 4.0 and NonStop TCP/IPv6 Software. You should save the commands used for setting these variables in a file, such as your .profile.
 - a. Set and export the following environment variables. For example,

```
$ export JAVA_HOME=/usr/tandem/java
$ export JREHOME=$JAVA_HOME/jre
$ export PATH=$JAVA_HOME/bin:$PATH
$ export WL_HOME=/usr/boa/weblogic81
$ export JDBCXM_DIR=/usr/tandem/jdbcMx
$ export JAVA_PUBLIC_LIB=/usr/tandem/java_public_lib
$ add_define =PTCPIP^FILTER^KEY class=map file=mykey
```

Note: The environment variables JAVA_HOME, JREHOME, PATH, and WL_HOME do not have default values. Set the variables to actual or intended locations before executing the check-wl-hpns.sh and install-wl-hpns.sh scripts.

- b. If your NonStop TCP/IP⁶ Software process is not named \$ZTC0, create a define to indicate the process name. For example, in the following, add_define statement; the TCP/IP process name is \$ZSM1. The \$ preceding ZSM1 must be escaped:

```
$ add_define =TCPIP^PROCESS^NAME class=map file=\$ZSM1
```

3. Prepare to install WebLogic Server and/or WebLogic Platform 8.1 SP2 on the NonStop server:

- a. Go to the directory where you downloaded the NonStop Server Toolkit file (weblogic81sp2_hpns_v12.zip):

```
$ cd /usr/tandem/wlhpns/download81sp2
```

- b. Extract the files from the Zip file:

```
$ jar -xvf weblogic81sp2_hpns_v12.zip
```

- c. Set execute permissions on the newly extracted shell scripts:

```
$ chmod 755 *sh
```

- d. Verify that all necessary software is installed on the NonStop server by running the following:

```
$ ./check-wl-hpns.sh
```

Note: Use the -h option to see a complete list of options for this script.

Resolve any errors produced by the check-wl-hpns.sh script before proceeding.

4. Install WebLogic Server and/or WebLogic Platform 8.1 SP2:

- a. Find the instructions for console-mode installation; for UNIX[®] systems, this is in the BEA documentation located at

<http://e-docs.bea.com/platform/docs81/install/console.html>

- b. Follow the instructions under the subtopic heading Starting Console-Mode Installation for .jar Installation Files.

If installing only WebLogic Server, continue as prompted.

If installing WebLogic Platform, choose custom installation as the install type and select the products WebLogic Server and WebLogic Integration for installation.

Notes: Installation of WebLogic Server on a NonStop server system takes approximately one hour. Installation of WebLogic Server and WebLogic Integration on a NonStop server system takes approximately one and one-half hours.

The supplemental JAR file (platform81sp2_hpns_supp.jar) will be installed with the NonStop Server Toolkit.

5. Install the NonStop Server Toolkit and supplemental JAR file:

- a. Install the NonStop Server Toolkit and the supplemental JAR file by running the following script:

```
$ ./install-wl-hpns.sh
```

Note: Use the -h option to see a complete list of options for this script. If you ran the installation script (install-wl-hpns.sh with the -j n options), you need to rebuild the JVM before proceeding.

6. Accessing documentation:

Documentation for WebLogic Server and WebLogic Platform 8.1 SP2 on the NonStop server is available in the HP NonStop Technical Library at the following site: http://h30163.www3.hp.com/NTL/library/Independent_Products under BEA WebLogic Products.

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