BEA WebLogic Platform™

8.1 Supported Configurations: Novell SUSE LINUX Enterprise Server 9 on IBM PowerPC

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CHAPTER 1

Novell SUSE LINUX Enterprise Server 9 on IBM PowerPC with WebLogic Server 8.1 SP2

Product Components Supported on this Configuration

	WebLogic Server	WebLogic Workshop	WebLogic Integration	WebLogic Portal
Run-time	✓	✗	✗	✗
Design/Dev Tools*	✓	✗	✗	✗

* For design and development tools support, see the "Configuration Requirements" section below.

✓ Supported
✗ Not supported

This section provides the following information:

- Configuration Requirements
- Known Issues
- Download and Installation Instructions

Related Information

- For information about supported database configurations, Web servers, and browsers, plus support for interoperability tools and WebLogic Platform product support information, see *WebLogic Platform 8.1 Supported Configurations*.
- For details about Novell SUSE LINUX Enterprise Server 9, visit the following Novell Web site: `http://www.novell.com/linux/suse`

Configuration Requirements

Table 1-1 Requirements for WebLogic Server 8.1 SP2 on Novell SUSE LINUX Enterprise Server 9 on IBM PowerPC

Operating System Version and Patches	Novell SUSE LINUX Enterprise Server 9.0 (32-bit)	
Chip Architecture and Minimum Processor Speed	• IBM pSeries PowerPC, POWER4 (1.0 GHz or higher) • IBM pSeries PowerPC, POWER5 (1.65 GHz or higher)	
SDK	IBM SDK 1.4.2 GA 32-bit java version "1.4.2" Java™ 2 Runtime Environment, Standard Edition (build 1.4.2) Classic VM (build 1.4.2, J2RE 1.4.2 IBM build cxppc321420-20040626 (JIT enabled: jitc))	Download the IBM SDK from the IBM Web site and install it, manually, before installing WebLogic Server. For instructions, see "Download and Installation Instructions" on page 1-3.
	IBM SDK 1.4.2 GA2 32-bit java version "1.4.2" Java™ 2 Runtime Environment, Standard Edition (build 1.4.2) Classic VM (build 1.4.2, J2RE 1.4.2 IBM build cxppc321420ifx-20040722a (JIT enabled: jitc))	Download the IBM SDK from the IBM Web site and install it, manually, before installing WebLogic Server. For instructions, see "Download and Installation Instructions" on page 1-3.
Design and Development Tools	Supports WebLogic Server development tools.	
RAM	512 MB required; 1 GB recommended	
Performance Pack	Included	`lib/linux/ppc64/libmuxer.so`
Node Manager	Included	Native
BEA jDrivers for Oracle	Not supported	

Known Issues

This section provides workarounds for the following issues:

- The IIOP Thin client is not supported on pSeries due to dependencies on the SDK. Only Thin client applications are affected by this issue. To work around this limitation, use two machines:
  - Run WebLogic Server on SuSE Linux Enterprise Server 9 on a pSeries machine with PowerPC, POWER4 or PowerPC, POWER5.
  - Run your Thin client on a machine with a different operating system.
- The IBM SDK 1.4.2 is JAXP 1.2 compliant. For some implementations based on JAXP 1.1, the SDK built-in XML parsers do not work. Use the WebLogic Server built-in XML parsers, instead. For example, when you are running applications supported by JAXP 1.1, specify the following system properties:
  - `-Djavax.xml.parsers.SAXParserFactory=weblogic.xml.jaxp.RegistrySAXParserFactory`
  - `-Djavax.xml.parsers.DocumentBuilderFactory=weblogic.xml.jaxp.RegistryDocumentBuilderFactory`
  - `-Djavax.xml.transform.TransformerFactory=weblogic.xml.jaxp.RegistrySAXTransformerFactory`

  Note: For information about running the IBM SDK 1.4.2 on Linux on an IBM pSeries machine, see:

  `http://www-106.ibm.com/developerworks/java/jdk/linux140`

For more information about known issues with this release, see "WebLogic Server 8.1 Known Issues" in the *Release Notes* for BEA WebLogic Server and WebLogic Express 8.1:

`http://e-docs.bea.com/wls/docs81/notes/issues.html`

Download and Installation Instructions

This section provides procedures for the following tasks:

- Downloading and Installing the IBM SDK
- Downloading and Installing WebLogic Server 8.1 SP2 and Supplemental JAR File

Downloading and Installing the IBM SDK

WebLogic Server 8.1 SP2 supports two versions of the IBM SDK 1.4.2. You can use either version on your SuSE Linux Enterprise Server 9 configuration. Both SDK versions are available for download from IBM. To download the desired SDK, complete the procedure provided in the appropriate section:

- Downloading and Installing IBM SDK 1.4.2 GA
- Downloading IBM SDK 1.4.2 GA2

Downloading and Installing IBM SDK 1.4.2 GA

To download IBM SDK 1.4.2 GA (cxppc321420-20040626 build), complete the following procedure:

1. Go to the download site for IBM Developer Kits:

   `http://www-106.ibm.com/developerworks/java/jdk/linux140`

2. Click the **Download** link on the right-hand side of the page.
3. Select **SDK 142 GA for p-series for 32-bit**, and click **Continue**.
4. When prompted, sign in.
5. Download one of the following JRE files:
   - For rpm format: `IBMJava2-JRE-1.4.2-0.0.ppc.rpm`
   - For tgz format: `IBMJava2-JRE-1.4.2-0.0.ppc.tgz`
6. Download one of the following SDK files:
   - For rpm format: `IBMJava2-SDK-1.4.2-0.0.ppc.rpm`
   - For tgz format: `IBMJava2-SDK-1.4.2-0.0.ppc.tgz`
7. Install the IBM SDK 1.4.2 GA on your system.

Downloading IBM SDK 1.4.2 GA2

To download IBM SDK 1.4.2 GA2 (cxppc321420ifx-20040722a build), complete the following procedure:

1. Go to the download site for IBM Developer Kits:

   `http://www-106.ibm.com/developerworks/java/jdk/linux140`

2. Click the **Download** link on the right-hand side of the page.
3. Select **SDK 142 GA2 for p-series for 32-bit**, and click **Continue**.
4. When prompted, sign in.
5. Download one of the following JRE files:
   - For rpm format: `IBMJava2-JRE-1.4.2-0.0.ppc.rpm`
   - For tgz format: `IBMJava2-JRE-1.4.2-0.0.ppc.tgz`
6. Download one of the following SDK files:
   - For rpm format: `IBMJava2-SDK-1.4.2-0.0.ppc.rpm`
   - For tgz format: `IBMJava2-SDK-1.4.2-0.0.ppc.tgz`
7. Install the IBM SDK 1.4.2 GA2 on your system.

Downloading and Installing WebLogic Server 8.1 SP2 and Supplemental JAR File

To download the installer for WebLogic Server 8.1 SP2 and the supplemental JAR file for WebLogic Server 8.1 SP2, complete the following procedure:

1. Go to the BEA download site: `http://commerce.bea.com`
2. Download the following items:
   - SuSE Linux Enterprise Server (SLES) 9 for IBM pSeries-specific installer for WebLogic Server 8.1 SP2: `pj_server812_generic.jar`
   - Supplemental JAR file for WebLogic Server 8.1 SP2: `wls81sp2_plinux_supp.jar`
3. Install WebLogic Server 8.1 SP2 by running the following command in console-mode:

   ```
   $ java -jar pj_server812_generic.jar -mode=console
   ```

   For a detailed console-mode procedure for installing `.jar` files, see *Installing BEA WebLogic Platform*: `http://e-docs.bea.com/platform/docs81/install/console.html`
4. In your installation directory, create a directory called `weblogic81`.
5. Unjar the `wls81sp2_plinux_supp.jar` file to the new directory. For example, if you have saved `wls81sp2_plinux_supp.jar` in a directory called `/tmp`, enter the following commands to unjar the supplemental file:

```
$ export WL_HOME=/your_installation_directory/weblogic81;
$ cd $WL_HOME;
$ jar xvf /tmp/wls81sp2_plinux_supp.jar;
```