



BEA WebLogic Platform™

8.1 Supported Configurations: Sun Solaris 10 on SPARC

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Sun Solaris 10 on SPARC with 8.1 SP6

BEA also supports WebLogic Integration 8.5 SP6 on this configuration.

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, Installation, and Configuration 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 the appropriate *Supported Configurations* document:
 - For WebLogic Platform 8.1: [WebLogic Platform 8.1 Supported Configurations](#)
 - For WebLogic Integration 8.5: [WebLogic Integration 8.5 Supported Configurations](#)

- For details about Sun Solaris 10, visit Sun’s Solaris Web page at: <http://www.sun.com/solaris>.
- For Sun’s support services information site, see <http://www.sun.com/service/support>. If you have a support contract for the use of Solaris platforms, you may be able to obtain support for general Java issues (for example, SDK problems).
- For information about suggested values for some Solaris TCP and VM-related tunable parameters, see *WebLogic Server Performance and Tuning*.

Configuration Requirements

Table 1-1 Requirements for 8.1 SP6 on Sun Solaris 10 on SPARC

Operating System Version and Patches	Sun Solaris 10
Chip Architecture and Minimum Processor Speed	UltraSPARC (168 MHz)
SDK	<ul style="list-style-type: none">• Sun Java 2 SDK 1.4.2_11 Java™ 2 Runtime Environment (32-bit), Standard Edition (build 1.4.2_11) Java Hotspot™ Client and Server VMs (build 1.4.2_11, mixed mode) and all later 1.4.2 releases• Azul Virtual Machine 2.2.1.0 and later patches
Design and Development Tools	The WebLogic Workshop IDE and WebLogic Integration Format Builder are not supported on Sun Solaris systems. Sun Solaris is supported for the production deployment of applications developed in the WebLogic Workshop IDE, and for remote debugging of applications developed in the WebLogic Workshop IDE. Sun Solaris is also supported for the development and production deployment of WebLogic Server applications developed with other tools.
RAM	512 MB required; 1 GB recommended
Performance Pack	Included <code>lib/solaris/libmuxer.so</code>
Node Manager	Included Native

Table 1-1 Requirements for 8.1 SP6 on Sun Solaris 10 on SPARC

BEA jDrivers for Oracle	For this Oracle client version:	The following shared libraries are provided:
	Oracle 9.2.0.4 and later patch sets	<ul style="list-style-type: none"> • <code>lib/solaris/oci920_8/libweblogicoci39.so</code> • <code>lib/solaris/oci920_8/libweblogicoxa39.so</code>

Known Issues

Issues When Using the Azul Virtual Machine

- The Azul Virtual Machine supports only Type 4 JDBC drivers.
- To enable native I/O, specify the following flag on the `java` command line when starting WebLogic Server:

```
-XX:+WL81NativeIO
```

- The default number of open file descriptors allocated for the JDK may be insufficient for the Azul Virtual Machine.

In most circumstances the number of open file descriptors allocated, in the proxy machine, for the SDK should be at least three times the number of file descriptors allocated for BEA JRockit. If you are going to run file-intensive operations, be sure to allocate seven to eight times the existing value for the number of open file descriptors in the proxy machine. If no value has been set, set the value to 8192.

To change the specified number of open file descriptors, enter the `ulimit -n` command. For example, if the number of file descriptors allocated for BEA JRockit is 1024, raise that number to 8192 by entering the following command:

```
ulimit -n 8192
```

Note: Keep in mind that the BEA WebLogic jDriver has been deprecated in WebLogic Platform 8.1. BEA does not support the use of the WebLogic jDriver with WebLogic Server 8.1 SP6 with the Azul Virtual Machine.

Related Information

- For information about known issues with the Azul Virtual Machine, see:

<http://www.azulsystems.com>

- For information about known issues with any of the products or components described here, see the appropriate *Release Notes* document. For a complete list of *Release Notes* supporting WebLogic Platform 8.1, see:

<http://e-docs.bea.com/platform/docs81/interm/relnotes.html>

- For information about known issues with WebLogic Integration 8.5, see the *WebLogic Integration 8.5 Release Notes*:

<http://e-docs.bea.com/wli/docs85/relnotes/index.html>

Download, Installation, and Configuration Instructions

To install WebLogic Platform on your Solaris 10 system, follow the instructions provided in *Installing BEA WebLogic Platform*:

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

Note: If you want to use the Solaris Zones feature, you must implement a few configuration requirements during the installation of WebLogic Platform. Therefore, if you plan to use this feature, read the instructions in “[Configuring Your WebLogic Platform Installation for Multi-Zone Operation](#)” before launching the installer.

Configuring Your WebLogic Platform Installation for Multi-Zone Operation

WebLogic Platform can be run in multiple zones of a Solaris 10 system, as long as the product is installed and configured to accommodate the Solaris Zones feature. To prepare your WebLogic Platform installation to accommodate Solaris Zones, complete the following procedure:

1. During the installation of WebLogic Platform, specify a directory to which all zones will have access.

Note: BEA strongly recommends this step so you can avoid installing WebLogic Platform in the default root file system. If WebLogic Platform is installed in the default root, all zones will require write access to root and such widespread write access is not recommended.

2. Define a separate WebLogic Platform or WebLogic Server domain for each zone so that the log files for each zone can go to a different location. If you choose, you can also configure a cluster to work across multiple zones as long as you provide read, write, and execute permissions to the domain directory to all the local zones participating in the cluster. For more information, see “Overview of WebLogic Server Domains” in *Configuring and Managing WebLogic Server*:

http://e-docs.bea.com/wls/docs81/adminguide/overview_domain.html

Service Migration on Solaris Zones

The following WebLogic Server migratable services are not supported on Solaris Zones:

- Activating JTA as a migratable service
- Deploying a JMS server on a migratable target

Sun Solaris 10 on SPARC with 8.1 SP6

Sun Solaris 10 on SPARC with 8.1 SP5

BEA also supports WebLogic Integration 8.5 SP5 on this configuration.

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 When Using the Azul Virtual Machine](#)
- [Download, Installation, and Configuration 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 the appropriate *Supported Configurations* document:
 - For WebLogic Platform 8.1: [WebLogic Platform 8.1 Supported Configurations](#)
 - For WebLogic Integration 8.5: [WebLogic Integration 8.5 Supported Configurations](#)

- For details about Sun Solaris 10, visit Sun’s Solaris Web page at: <http://www.sun.com/solaris>.
- For Sun’s support services information site, see <http://www.sun.com/service/support>. If you have a support contract for the use of Solaris platforms, you may be able to obtain support for general Java issues (for example, SDK problems).
- For information about suggested values for some Solaris TCP and VM-related tunable parameters, see *WebLogic Server Performance and Tuning*.

Configuration Requirements

Table 2-1 Requirements for 8.1 SP5 on Sun Solaris 10 on SPARC

Operating System Version and Patches	Sun Solaris 10
Chip Architecture and Minimum Processor Speed	UltraSPARC (168 MHz)
SDK	<ul style="list-style-type: none"> • Azul Java Virtual Machine 2.2.1.0 and later patches • Sun Java 2 SDK 1.4.2_08 and all later service packs of 1.4.2 with the Java HotSpot™ Client and Server VMs (32-bit)
Design and Development Tools	<p>The WebLogic Workshop IDE and WebLogic Integration Format Builder are not supported on Sun Solaris systems. Sun Solaris is supported for the production deployment of applications developed in the WebLogic Workshop IDE, and for remote debugging of applications developed in the WebLogic Workshop IDE. Sun Solaris is also supported for the development and production deployment of WebLogic Server applications developed with other tools.</p> <p>WebLogic Platform 8.1 SP5 with the Azul Virtual Machine does not support any development tools.</p>
RAM	512 MB required; 1 GB recommended
Performance Pack	Included <code>lib/solaris/libmuxer.so</code>
Node Manager	Included Native

Table 2-1 Requirements for 8.1 SP5 on Sun Solaris 10 on SPARC

BEA jDrivers for Oracle	For this Oracle client version:	The following shared libraries are provided:
	Oracle 9.2.0.4 and later patch sets	<ul style="list-style-type: none"> • lib/solaris/oci920_8/libweblogicoci39.so • lib/solaris/oci920_8/libweblogicoxa39.so

Known Issues When Using the Azul Virtual Machine

- The Azul Virtual Machine supports only Type 4 JDBC drivers.
- To enable native I/O, specify the following flag on the `java` command line when starting WebLogic Server:

```
-XX:+WL81NativeIO
```

- The default number of open file descriptors allocated for the JDK may be insufficient for the Azul Virtual Machine.

In most circumstances the number of open file descriptors allocated, in the proxy machine, for the SDK should be at least three times the number of file descriptors allocated for BEA JRockit. If you are going to run file-intensive operations, be sure to allocate seven to eight times the existing value for the number of open file descriptors in the proxy machine. If no value has been set, set the value to 8192.

To change the specified number of open file descriptors, enter the `ulimit -n` command. For example, if the number of file descriptors allocated for BEA JRockit is 1024, raise that number to 8192 by entering the following command:

```
ulimit -n 8192
```

Note: Keep in mind that the BEA WebLogic jDriver has been deprecated in WebLogic Platform 8.1. BEA does not support the use of the WebLogic jDriver with WebLogic Server 8.1 SP5 with the Azul Virtual Machine.

Related Information

- For information about known issues with the Azul Virtual Machine, see: <http://www.azulsystems.com>

- For information about known issues with any of the products or components described here, see the appropriate *Release Notes* document. For a complete list of *Release Notes* supporting WebLogic Platform 8.1, see:

<http://e-docs.bea.com/platform/docs81/interm/relnotes.html>

- For information about known issues with WebLogic Integration 8.5, see the *WebLogic Integration 8.5 Release Notes*:

<http://e-docs.bea.com/wli/docs85/relnotes/index.html>

Download, Installation, and Configuration Instructions

To install WebLogic Platform on your Solaris 10 system, follow the instructions provided in *Installing BEA WebLogic Platform*:

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

Note: If you want to use the Solaris Zones feature, you must implement a few configuration requirements during the installation of WebLogic Platform. Therefore, if you plan to use this feature, read the instructions in “[Configuring Your WebLogic Platform Installation for Multi-Zone Operation](#)” before launching the installer.

Configuring Your WebLogic Platform Installation for Multi-Zone Operation

WebLogic Platform can be run in multiple zones of a Solaris 10 system, as long as the product is installed and configured to accommodate the Solaris Zones feature. To prepare your WebLogic Platform installation to accommodate Solaris Zones, complete the following procedure:

1. During the installation of WebLogic Platform, specify a directory to which all zones will have access.

Note: BEA strongly recommends this step so you can avoid installing WebLogic Platform in the default root file system. If WebLogic Platform is installed in the default root, all zones will require write access to root and such widespread write access is not recommended.

2. Define a separate WebLogic Platform or WebLogic Server domain for each zone so that the log files for each zone can go to a different location. If you choose, you can also configure a cluster to work across multiple zones as long as you provide read, write, and execute permissions to the domain directory to all the local zones participating in the cluster. For more information, see “Overview of WebLogic Server Domains” in *Configuring and Managing WebLogic Server*:

http://e-docs.bea.com/wls/docs81/adminguide/overview_domain.html

Service Migration on Solaris Zones

The following WebLogic Server migratable services are not supported on Solaris Zones:

- Activating JTA as a migratable service
- Deploying a JMS server on a migratable target

Sun Solaris 10 on SPARC with 8.1 SP5

Sun Solaris 10 on SPARC with WebLogic Server 8.1 SP4

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 Server product support information, see [WebLogic Platform 8.1 Supported Configurations](#).
- For details about Sun Solaris 10, visit Sun's Solaris Web page at: <http://www.sun.com/solaris>.
- For Sun's support services information site, see <http://www.sun.com/service/support>. If you have a support contract for the use of

Solaris platforms, you may be able to obtain support for general Java issues (for example, SDK problems).

- For information about suggested values for some Solaris TCP and VM-related tunable parameters, see [WebLogic Server Performance and Tuning](#).

Configuration Requirements

Table 3-1 Requirements for WebLogic Server 8.1 SP4 on Sun Solaris 10 on SPARC

Operating System Version and Patches	Sun Solaris 10	
Chip Architecture and Minimum Processor Speed	UltraSPARC (168 MHz)	
SDK	Sun Java 2 SDK 1.4.2_05 (32-bit)	<ul style="list-style-type: none"> • WebLogic Server 8.1 SP4 supports Sun Java 2 SDK 1.4.2_05 and all later service packs of 1.4.2. • Supports the Java HotSpot™ Client and Server VMs.
Design and Development Tools	Sun Solaris is supported for the development and production deployment of WebLogic Server applications developed with other tools.	
RAM	512 MB required; 1 GB recommended	
Performance Pack	Included	<code>lib/solaris/libmuxer.so</code>
Node Manager	Included	Native
BEA jDrivers for Oracle	For this Oracle client version:	The following shared libraries are provided:
	Oracle 8.1.7.4	<ul style="list-style-type: none"> • <code>lib/solaris/oci817_8/libweblogicoci39.so</code> • <code>lib/solaris/oci817_8/libweblogicoxa39.so</code>
	Oracle 9.2.0.4 and later patch sets	<ul style="list-style-type: none"> • <code>lib/solaris/oci920_8/libweblogicoci39.so</code> • <code>lib/solaris/oci920_8/libweblogicoxa39.so</code>

Known Issues

For information about known issues with this release, see the *WebLogic Server Release Notes*:

<http://e-docs.bea.com/wls/docs81/notes/index.html>

Download and Installation Instructions

This section provides instructions for the following procedures:

- [Downloading and Installing WebLogic Server 8.1 SP4](#)
- [Configuring Your WebLogic Server Installation for Multi-Zone Operation](#)
- [Downloading and Installing the WebLogic Server 8.1 SP4 Patch for Solaris 10](#)

Downloading and Installing WebLogic Server 8.1 SP4

To install WebLogic Server 8.1 SP4 on a configuration of Solaris 10 on SPARC, complete the following procedure:

1. Go to the BEA downloads site:
<http://commerce.bea.com/index.jsp>
2. Find your WebLogic Server release and Service Pack on the downloads page.
3. Select “Sun Solaris (SPARC).”
4. Download the WebLogic Server package installer.
5. Make a backup copy of `$WLHOME/server/lib/solaris/libmuxer.so`.
6. Complete the instructions titled “Starting Graphical-Mode Installation for .jar Installation Files” in *Installing BEA WebLogic Platform*:

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

Note: If you want to use the Solaris Zones feature, you must implement a few configuration requirements during the installation of WebLogic Server. Therefore, if you plan to use this feature, read the instructions in “[Configuring Your WebLogic Server Installation for Multi-Zone Operation](#)” on page 3-4 before launching the installer.

For more information about installing WebLogic Server, see *Installing BEA WebLogic Platform*:

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

Configuring Your WebLogic Server Installation for Multi-Zone Operation

WebLogic Server can be run in multiple zones of a Solaris 10 system, as long as the product is installed and configured to accommodate the Solaris Zones feature. To prepare your WebLogic Server installation to accommodate Solaris Zones, complete the following procedure:

1. During the installation of WebLogic Server, specify a directory to which all zones will have access.

Note: BEA strongly recommends this step so you can avoid installing WebLogic Server in the default root file system. If WebLogic Server is installed in the default root, all zones will require write access to root and such widespread write access is not recommended.

2. Define a separate WebLogic Server domain for each zone so that the log files for each zone can go to a different location. If you choose, you can also configure a cluster to work across multiple zones as long as you provide read, write, and execute permissions to the domain directory to all the local zones participating in the cluster. For more information, see “Overview of WebLogic Server Domains” in *Configuring and Managing WebLogic Server*:

http://e-docs.bea.com/wls/docs81/adminguide/overview_domain.html

Service Migration on Solaris Zones

The following WebLogic Server migratable services are not supported on Solaris Zones:

- Activating JTA as a migratable service
- Deploying a JMS server on a migratable target

Downloading and Installing the WebLogic Server 8.1 SP4 Patch for Solaris 10

Both WebLogic Server and the Solaris 10 operating system impose an upward limit on the number of fds that can be specified for an `ioctl` call, but the two limits are not the same: the maximum number of fds allowed by WebLogic Server is one fewer than the maximum number allowed by Solaris 10. (This limitation is new in Solaris 10.) If the maximum number of fds specified for an `ioctl` call in a WebLogic Server 8.1 SP4 environment is set to the maximum number allowed by Solaris 10, then `ioctl` will throw an illegal argument exception.

To avoid this problem, the WebLogic Server 8.1 SP4 Solaris 10 Patch sets the maximum number of fds that can be specified for an `ioctl` call to the value of the Solaris 10 maximum, minus one.

To apply the patch to your system:

1. Go to BEA's dev2dev downloads site where the patch is available:

http://commerce.bea.com/d2d/wls81sp4solaris10_patch.jsp

2. Download the zip file containing the patch: `wls81sp4_solaris10_patch.zip`.
3. Extract the zip file into the `WL_HOME` directory, where `WL_HOME` represents the product installation directory. The `libmuxer.so` file in the `$WLHOME/server/lib/solaris` directory will be overwritten.

Sun Solaris 10 on SPARC with WebLogic Server 8.1 SP4