Oracle Products

Supported Configurations: Novell SUSE Linux Enterprise Server

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CHAPTER 1

WebLogic Platform 10.0 on Novell SUSE Linux Enterprise Server 11

This section provides the following information:

- Configuration Requirements
- Issues Related to Other Oracle Products
- Download and Install JDK 5.0

Related Information

- For information about supported database configurations, Web servers, browsers, interoperability tools, and product support, see:
  - *Supported Configurations for WebLogic Platform 10.0*
- For information about Novell SUSE Linux Enterprise Server®, visit the following Novell Web site: `http://www.novell.com`.

Configuration Requirements

The following section provides requirements for Oracle products supported on this configuration:

- "Requirements for Novell SUSE Linux Enterprise Server (SLES) 11 on 64-bit Xeon and AMD64 with 32-bit JDK" on page 1-2
- "Requirements for Novell SUSE Linux Enterprise Server (SLES) 11 on 64-bit Xeon and AMD64 with 64-bit JDK" on page 1-2

Table 1-1 Requirements for Novell SUSE Linux Enterprise Server (SLES) 11 on 64-bit Xeon and AMD64 with 32-bit JDK

Operating System Version and Patches	SLES 11 (all SP levels included) with Kernel 2.6.27.19-5, glibc 2.9-13.2 and later SUSE service packs and errata
Chip Architecture and Minimum Processor Speed	• AMD64 (1.3 GHz) • 64-bit Xeon (1.3 GHz)
JDK	Sun Java 2 JDK 5.0 with the Java HotSpotTM Client and Server VMs (32-bit) and all later service packs of 5.0 (version 1.5.0_19+)
RAM	1 GB minimum
Performance Pack	`server/native/linux/i686/libmuxer.so`
Oracle Product Support	WebLogic Server 10.0 MP2

Table 1-2 Requirements for Novell SUSE Linux Enterprise Server (SLES) 11 on 64-bit Xeon and AMD64 with 64-bit JDK

Operating System Version and Patches	SLES 11 (all SP levels included) with Kernel 2.6.27.19-5, glibc 2.9-13.2 and later SUSE service packs and errata
Chip Architecture and Minimum Processor Speed	• AMD64 (1.3 GHz) • 64-bit Xeon (1.3 GHz)
JDK	Sun Java 2 JDK 5.0 with the Java HotSpotTM Client and Server VMs (32-bit) and all later service packs of 5.0 (version 1.5.0_19+)
RAM	1 GB minimum
Performance Pack	`server/native/linux/x86_64/libmuxer.so`
Oracle Product Support	WebLogic Server 10.0 MP2

Issues Related to Other Oracle Products

For information about known issues with Oracle products supported on this configuration, including available workarounds, see the appropriate *Release Notes* document.

Issues related to WebLogic Server are described in:

http://e-docs.bea.com/wls/docs100/issues/known_resolved.html

Download and Install JDK 5.0

Complete the following procedure:

1. Download the supported Sun JDK for your environment.
2. Set the `JAVA_HOME` environment variable to the directory in which the JDK is installed and export `JAVA_HOME`. For example:

   ```
   export JAVA_HOME=/opt/java5/
   ```

3. Make sure that your `PATH` variable includes `$JAVA_HOME/bin`. For example:

   ```
   export PATH=$JAVA_HOME/bin:$PATH
   ```

CHAPTER 2

WebLogic Platform 10.3 on Novell SUSE Linux Enterprise Server 10

This section provides the following information:

- Configuration Requirements
- Known Issues
- Download and Install Instructions

Related Information

- For information about supported database configurations, Web servers, browsers, interoperability tools, and product support, see:
  - *Supported Configurations for WebLogic Platform 10.3*
- For support and installation information for JRockit:
  - For support information, see Welcome to JRockit
  - For download information, see `Oracle E-Delivery`
- For support and download information for suported Sun JDKs, see `http://java.sun.com`.
- For information about Novell SUSE Linux Enterprise Server®, visit the following Novell Web site: `http://www.novell.com`.

Configuration Requirements

The following section provides requirements for products supported on this configuration:

- "Requirements for Novell SUSE Linux Enterprise Server 10 on x86" on page 2-2
- "Requirements for Novell SUSE Linux Enterprise Server 10 on 64-bit Xeon and AMD64 with 32-bit JDK" on page 2-3
- "Requirements for Novell SUSE Linux Enterprise Server 10 on 64-bit Xeon and AMD64 with 64-bit JDK" on page 2-3

Table 2-1 Requirements for Novell SUSE Linux Enterprise Server 10 on x86

Operating System Version and Patches	Novell SUSE Linux Enterprise Server (SLES) 10 with Kernel 2.6.16.21-0.8-bigsmp, glibc-2.4-31.5 and later SUSE service packs and errata
Chip Architecture and Minimum Processor Speed	x86 (1.2GHz)
JDK	JRockit 6.0 (R27.6.0-50) JDK (32-bit) and all later 6.0 releases of JRockit
	Sun Java 2 JDK 6.0 with the Java HotSpot™ Client and Server VMs (32-bit) and all later service packs of 6.0 (version 1.6.0_05)
RAM	1 GB minimum
Performance Pack	`server/native/linux/i686/libmuxer.so`
Product Support	• WebLogic Server 10.3 • WebLogic Portal 10.3 (Supports JRockit only) • WebLogic Integration 10.3, WebLogic Integration 10.3.1 • Workshop for WebLogic 10.3 (Runtime)

Table 2-2 Requirements for Novell SUSE Linux Enterprise Server 10 on 64-bit Xeon and AMD64 with 32-bit JDK

Operating System Version and Patches	SUSE Linux Enterprise Server (SLES) 10 with Kernel 2.6.16.21-0.8-bigsmp, glibc-2.4-31.5 and later SUSE service packs and errata
Chip Architecture and Minimum Processor Speed	• AMD64 (1.3 GHz) • 64-bit Xeon (1.3 GHz)
JDK	JRockit 6.0 (R27.6.0-50) JDK (32-bit) and all later 6.0 releases of JRockit
	Sun Java 2 JDK 6.0 with the Java HotSpot™ Client and Server VMs (32-bit) and all later service packs of 6.0 (version 1.6.0_05)
RAM	1 GB minimum
Performance Pack	`server/native/linux/i686/libmuxer.so`
Product Support	• WebLogic Server 10.3 • WebLogic Portal 10.3 (Supports JRockit only) • WebLogic Integration 10.3, WebLogic Integration 10.3.1 • Workshop for WebLogic 10.3 (Runtime)

Table 2-3 Requirements for Novell SUSE Linux Enterprise Server 10 on 64-bit Xeon and AMD64 with 64-bit JDK

Operating System Version and Patches	SUSE Linux Enterprise Server (SLES) 10 with Kernel 2.6.16.21-0.8-bigsmp, glibc-2.4-31.5 and later SUSE service packs and errata
Chip Architecture and Minimum Processor Speed	• AMD64 (1.3 GHz) • 64-bit Xeon (1.3 GHz)
JDK	JRockit 6.0 (R27.6.0-50) JDK (64-bit) and all later 6.0 releases of JRockit
	Sun Java 2 JDK 6.0 with the Java HotSpot™ Client and Server VMs (64-bit) and all later service packs of 6.0 (version 1.6.0_05)

Table 2-3 Requirements for Novell SUSE Linux Enterprise Server 10 on 64-bit Xeon and AMD64 with 64-bit JDK (Continued)

RAM	1 GB minimum
Performance Pack	`server/native/linux/x86_64/libmuxer.so`
Product Support	• WebLogic Server 10.3 • WebLogic Portal 10.3 (Supports JRockit only) • WebLogic Integration 10.3, WebLogic Integration 10.3.1 • Workshop for WebLogic 10.3 (Runtime)

Known Issues

- Doing a Complete Install With a Generic Installer
- Serial Version UID Mismatch
- JVM Stack Overflow
- Issues Related to WebLogic Integration 10.3 Using 64-bit JDK
- Issues Related to SUSE Enterprise Linux on AMD64 and 64-bit Xeon when Using Remote Autonomy

Doing a Complete Install With a Generic Installer

If you are performing a complete install of a WebLogic product (e.g. WebLogic Server, WebLogic Portal) by using the generic installer (.jar) on a platform where Eclipse is not supported or not installed, you might encounter a situation where the generic installer will go into a repeated loop condition. If you are experiencing this condition refer to the *Installation Guide*, specifically the “Install Eclipse Location Options” section for more information on how to handle the installation.

Serial Version UID Mismatch

A Serial Version UID Mismatch Issue may be encountered if you deploy an application on a latest JVM, but compiled with an earlier JDK release.

Workaround: To be compatible with the serialization of previously compiled applications, modify the *<BEA_HOME>*/wlserver_10.3/common/bin/commEnv.sh file to include the following command:

```
JAVA_OPTIONS="$JAVA_OPTIONS -Dcom.sun.xml.namespace.QName.useCompatible
SerialVersionUID=1.0"
```

Alternatively, you can use the command line option:

```
export JAVA_OPTIONS="$JAVA_OPTIONS -Dcom.sun.xml.namespace.QName.useCom
patibleSerialVersionUID=1.0"
```

Note: If you intend to deploy new applications with previously compiled applications, they must be recompiled as necessary to have the same Serial Version UID.

JVM Stack Overflow

You might encounter a JVM stack overflow error or exception while running WebLogic Server.

This issue applies to AMD64 and 64-bit Xeon.

Workaround: Increase the stack size from the default 128k to 256k.

Issues Related to WebLogic Integration 10.3 Using 64-bit JDK

1. When you install WebLogic Integration 10.3, you might get the following Exception during installation:

```
“Creating Domains...

Exception in thread "Thread-38" java.lang.OutOfMemoryError: Java heap
space

        at java.util.Arrays.copyOf(Arrays.java:2882)

        at
java.lang.AbstractStringBuilder.expandCapacity(AbstractStringBuilder.ja
va:100)

        at
java.lang.AbstractStringBuilder.append(AbstractStringBuilder.java:390)

        at java.lang.StringBuffer.append(StringBuffer.java:224)

at
com.bea.plateng.domain.security.LDIFTMerger.getMergedResultStr(LDIFTMer
ger.java:108)
```

```
        at
com.bea.plateng.domain.security.SecurityHelper.mergeAuthorizerLDIFTFile
s(SecurityHelper.java:1489)

        at
com.bea.plateng.domain.security.SecurityHelper.mergeAuthorizer(Security
Helper.java:1466)

    at
com.bea.plateng.domain.TemplateImporter.generate(TemplateImporter.java:
340)

        at
com.bea.plateng.domain.script.ScriptExecutor$2.run(ScriptExecutor.java:
2785)
```

This problem occurs when you use the 64-bit Sun JDK or 64-bit JRockit.

Workaround:

You will need to increase the heap size by doing the following:

```
java -Xms512m -Xmx1024m  -jar wli10gR3_generic.jar
```

2. When the Medrec server goes into run mode and you try accessing the admin console for this Medrec server, you may get the following Exception:

```
"<Error> <netuix> <BEA-423341> <An exception was thrown while trying
to map the tag [ lookAndFeel ] : [ java.lang.Throwable ].

java.lang.Throwable

        at
com.bea.netuix.nf.factories.TagClassMap$NamespaceTagnameMap.getClass(Ta
gClassMap.java:189)

        at
com.bea.netuix.nf.factories.TagClassMap.getClass(TagClassMap.java:88)

        at
com.bea.netuix.nf.factories.ControlTreeFactoryBuilder$CustomDefaultHand
ler.startElement(ControlTreeFactoryBuilder.java:398)

        at
com.sun.org.apache.xerces.internal.parsers.AbstractSAXParser.startEleme
nt(AbstractSAXParser.java:501)

at
com.sun.org.apache.xerces.internal.impl.XMLNSDocumentScannerImpl.scanSt
artElement(XMLNSDocumentScannerImpl.java:400)

        Truncated. see log file for complete stacktrace
```

An exception can also be thrown when you try to stop the server. You get an "`OutOfMemoryexception`".

This problem occurs when you have the 64-bit Sun JDK installed.

Workaround:

In the setDomainEnv.sh file, increase MaxPermSize to 256. With this change, the server can start up and you can access the Admin Console without getting the above exception. The server can also shutdown gracefully.

Issues Related to SUSE Enterprise Linux on AMD64 and 64-bit Xeon when Using Remote Autonomy

See Using a Remote Autonomy Installation in *Supported Configurations for* WebLogic Platform 10.3.

For information about known issues with products supported on this configuration, including available workarounds, see the appropriate *Release Notes* document.

Issues related to...	Are described in...
WebLogic Server	*WebLogic Server Known and Resolved Issues:* `http://download.oracle.com/docs/cd/E12840_01/wls/docs103/issues/index.html`
WebLogic Portal	*WebLogic Portal Release Notes*: `http://download.oracle.com/docs/cd/E13155_01/wlp/docs103/relnotes/index.html`
WebLogic Integration	*WebLogic Integration Release Notes*: `http://download.oracle.com/docs/cd/E13160_01/wli/docs10gr3/relnotes/index.html`
Workshop for WebLogic	*Workshop for WebLogic Release Notes*: `http://e-docs.bea.com/wlw/docs103/relnotes/index.html`

Download and Install Instructions

- Download and Install Instructions for SLES 10 on 64-bit Xeon/AMD64
- Download and Install Instructions for SLES 10 on x86
- Oracle WebLogic Integration 10gR3 (10.3.1) installers (32-bit) for Linux, Windows and Solaris are available on Oracle Technology Network (OTN) for Oracle WebLogic Integration.

Download and Install Instructions for SLES 10 on 64-bit Xeon/AMD64

1. Download and install the supported JDK for your environment.
2. Go to `Oracle E-Delivery` and use the following information to select the WebLogic Media Pack and Part Numbers for download:
   - Select the Product Pack, Platform and Media Pack.

Product Pack	Oracle Fusion Middleware
Platform	Linux x86
Media Pack	B36233 (Oracle Application Server 10g Release 3 (10.1.3) Media Pack for Linux x86 (32 bit))

   - Select the file for download (choose the Part Number that corresponds to the product, hardware, and JVM).

Product	Platform	Platform JVM	Part Number (Description)
WebLogic Server	64-bit Xeon 64-bit AMD64	JRockit (32-bit) Sun JDK (32-bit)	V13616 (Oracle WebLogic Server 10gR3 (10.3) Linux x86)
WebLogic Server	64-bit Xeon 64-bit AMD64	JRockit (64-bit) Sun JDK 64-bit	V13672 (Oracle WebLogic Server 10gR3 (10.3)“generic”)
WebLogic Portal	64-bit Xeon 64-bit AMD64	JRockit (32-bit)	V13807 (Oracle WebLogic Portal 10gR3 (10.3) Linux x86)

WebLogic Portal	64-bit Xeon 64-bit AMD64	JRockit (64-bit)	V14087 (Oracle WebLogic Portal 10gR3 (10.3) “generic”)
WebLogic Integration	64-bit Xeon 64-bit AMD64	JRockit (32-bit) Sun JDK (32-bit)	V19639-01 Oracle WebLogic Integration 10gR3 MP1 (10.3.1) for Linux x86 V19642-01 Oracle WebLogic Integration 10gR3 MP1 (10.3.1) Upgrade Installer for Linux x86
WebLogic Integration	64-bit Xeon 64-bit AMD64	JRockit (64-bit) Sun JDK (64-bit)	V19187-01 (Oracle WebLogic Integration 10gR3 (10.3.1) Generic Installer) V19643-01 (Oracle WebLogic Integration 10gR3 MP1 (10.3.1) Upgrade Installer (Generic)) **Note:** The Generic installer can be used for different platforms. It is possible that the part number for the generic installer may not be in the Media pack of some platforms. If so, the generic installer can be found in Media Pack B36339 (Oracle Application Server 10gR3 Media Pack for HP-UX Itanium (64-bit)).

   – Unzip the file.

3. Install Instructions for 64-bit Xeon/AMD64 with 32-bit JDK

   – Install the WebLogic Products using the directions provided in the *“Using Installers with Filenames Ending in .bin* section of the *Products Installation Guide*.

4. Install Instructions for 64-bit Xeon/AMD64 with 64-bit JDK

   – Make sure that your `PATH` variable includes `$JAVA_HOME/bin` where `JAVA_HOME` is the installation path for the JDK. For example:

   ```
   export PATH=$JAVA_HOME/bin:$PATH
   ```

– Install the WebLogic Products using the directions provided in the *"Using Installers with Filenames Ending in .jar* section of the *Products Installation Guide*.

5. For WebLogic Portal, make sure that your WL_HOME variable is set to the directory in which you installed your product, and export WL_HOME. For example,

```
$ WL_HOME=<your installation directory>/wlserver_10.3
```

Download and Install Instructions for SLES 10 on x86

1. Download and install the supported JDK for your environment.
2. Go to `Oracle E-Delivery` and use the following information to select the WebLogic Media Pack and Part Numbers for download:

   – Select the Product Pack, Platform and Media Pack.

Product Pack	**Oracle Fusion Middleware**
Platform	Linux x86
Media Pack	B36233 (Oracle Application Server 10g Release 3 (10.1.3) Media Pack for Linux x86 (32 bit))

   – Select the file for download (choose the Part Number that corresponds to the product, hardware, and JVM).

Product	**Platform**	**Platform JVM**	**Part Number (Description)**
WebLogic Server	x86	JRockit (32-bit) Sun JDK (32-bit)	V13616 (Oracle WebLogic Server 10gR3 (10.3) Linux x86)
WebLogic Portal	x86	JRockit (32-bit)	V13807 (Oracle WebLogic Portal 10gR3 (10.3) Linux x86)
WebLogic Integration	x86	JRockit (32-bit) Sun JDK (32-bit)	V19639-01 Oracle WebLogic Integration 10gR3 MP1 (10.3.1) for Linux x86 V19642-01 Oracle WebLogic Integration 10gR3 MP1 (10.3.1) Upgrade Installer for Linux x86

   – Unzip the file.

3. Install Instructions for x86 with 32-bit JDK

   – Install the WebLogic Products using the directions provided in the *"Using Installers with Filenames Ending in .bin* section of the *Products Installation Guide*.

4. For WebLogic Portal, make sure that your WL_HOME variable is set to the directory in which you installed your product, and export WL_HOME. For example,

```
$ WL_HOME=<your installation directory>/wlserver_10.3
```

CHAPTER 3

WebLogic Platform 10.3 on Novell SUSE Linux Enterprise Server 9

This section provides the following information:

- Configuration Requirements
- Known Issues
- Download and Installation Instructions

Related Information

- For information about supported database configurations, Web servers, browsers, interoperability tools, and product support, see:
  - *Supported Configurations for WebLogic Platform 10.3*
- For support and installation information for JRockit:
  - For support information, see Welcome to JRockit
  - For download information, see `Oracle E-Delivery`
- For support and download information for suported Sun JDKs, see `http://java.sun.com`.
- For information about Novell SUSE Linux Enterprise Server®, visit the following Novell Web site: `http://www.novell.com`.

Configuration Requirements

The following section provides requirements for products supported on this configuration:

- "Requirements for Novell SUSE Linux Enterprise Server 9 on x86" on page 3-2
- "Requirements for Novell SUSE Linux Enterprise Server 9 on 64-bit Xeon and AMD64 with 32-bit JDK" on page 3-3
- "Requirements for Novell SUSE Linux Enterprise Server 9 on 64-bit Xeon and AMD64 with 64-bit JDK" on page 3-3

Table 3-1 Requirements for Novell SUSE Linux Enterprise Server 9 on x86

Operating System Version and Patches	Novell SUSE Linux Enterprise Server (SLES) 9 SP3 with Kernel 2.6.5-7.244-default, glibc-2.3.3-98.61 and later SUSE service packs and errata
Chip Architecture and Minimum Processor Speed	x86 (1.2GHz)
JDK	JRockit 6.0 (R27.6.0-50) JDK (32-bit) and all later 6.0 releases of JRockit
	Sun Java 2 JDK 6.0 with the Java HotSpot™ Client and Server VMs (32-bit) and all later service packs of 6.0 (version 1.6.0_05)
RAM	1 GB minimum
Performance Pack	`server/native/linux/i686/libmuxer.so`
Product Support	• WebLogic Server 10.3 • WebLogic Portal 10.3 (Support JRockit only) • WebLogic Integration 10.3, WebLogic Integration 10.3.1 • Workshop for WebLogic 10.3 (Runtime)

Table 3-2 Requirements for Novell SUSE Linux Enterprise Server 9 on 64-bit Xeon and AMD64 with 32-bit JDK

Operating System Version and Patches	SUSE LINUX Enterprise Server 9 SP3 (x86_64) - Kernel 2.6.5-7.244-smp glibc-2.3.3-98.61 and later SUSE service packs and errata
Chip Architecture and Minimum Processor Speed	• AMD64 (1.3 GHz) • 64-bit Xeon (1.3 GHz)
JDK	JRockit 6.0 (R27.6.0-50) JDK (32-bit) and all later 6.0 releases of JRockit
	Sun Java 2 JDK 6.0 with the Java HotSpot™ Client and Server VMs (32-bit) and all later service packs of 6.0 (version 1.6.0_05)
RAM	1 GB minimum
Performance Pack	`server/native/linux/i686/libmuxer.so`
Product Support	• WebLogic Server 10.3 • WebLogic Portal 10.3 (Supports JRockit only) • WebLogic Integration 10.3, WebLogic Integration 10.3.1 • Workshop for WebLogic 10.3 (Runtime)

Table 3-3 Requirements for Novell SUSE Linux Enterprise Server 9 on 64-bit Xeon and AMD64 with 64-bit JDK

Operating System Version and Patches	SUSE LINUX Enterprise Server 9 SP3 (x86_64) - Kernel 2.6.5-7.244-smp glibc-2.3.3-98.61 and later SUSE service packs and errata
Chip Architecture and Minimum Processor Speed	• AMD64 (1.3 GHz) • 64-bit Xeon (1.3 GHz)
JDK	JRockit 6.0 (R27.6.0-50) JDK (64-bit) and all later 6.0 releases of JRockit
	Sun Java 2 JDK 6.0 with the Java HotSpot™ Client and Server VMs (64-bit) and all later service packs of 6.0 (version 1.6.0_05)
RAM	1 GB minimum

Table 3-3 Requirements for Novell SUSE Linux Enterprise Server 9 on 64-bit Xeon and AMD64 with 64-bit JDK

Performance Pack	`server/native/linux/x86_64/libmuxer.so`
Product Support	• WebLogic Server 10.3 • WebLogic Portal 10.3 (Supports JRockit only) • WebLogic Integration 10.3, WebLogic Integration 10.3.1 • Workshop for WebLogic 10.3 (Runtime)

Known Issues

- Doing a Complete Install With a Generic Installer
- Serial Version UID Mismatch
- JVM Stack Overflow
- Issues Related to WebLogic Integration 10.3 Using 64-bit JDK
- Issues Related to SUSE Enterprise Linux on AMD64 and 64-bit Xeon when Using Remote Autonomy

Doing a Complete Install With a Generic Installer

If you are performing a complete install of a WebLogic product (e.g. WebLogic Server, WebLogic Portal) by using the generic installer (.jar) on a platform where Eclipse is not supported or not installed, you might encounter a situation where the generic installer will go into a repeated loop condition. If you are experiencing this condition refer to the *Installation Guide*, specifically the “Install Eclipse Location Options” section for more information on how to handle the installation.

Serial Version UID Mismatch

A Serial Version UID Mismatch Issue may be encountered if you deploy an application on a latest JVM, but compiled with an earlier JDK release.

Workaround: To be compatible with the serialization of previously compiled applications, modify the `<BEA_HOME>/wlserver_10.3/common/bin/commEnv.sh` file to include the following command:

```
JAVA_OPTIONS="$JAVA_OPTIONS -Dcom.sun.xml.namespace.QName.useCompatible
SerialVersionUID=1.0"
```

Alternatively, you can use the command line option:

```
export JAVA_OPTIONS="$JAVA_OPTIONS -Dcom.sun.xml.namespace.QName.useCom
patibleSerialVersionUID=1.0"
```

Note: If you intend to deploy new applications with previously compiled applications, they must be recompiled as necessary to have the same Serial Version UID.

JVM Stack Overflow

You might encounter a JVM stack overflow error or exception while running WebLogic Server.

This issue applies to AMD64 and 64-bit Xeon.

Workaround: Increase the stack size from the default 128k to 256k.

Issues Related to WebLogic Integration 10.3 Using 64-bit JDK

1. When you install WebLogic Integration 10.3, you might get the following Exception during installation:

```
“Creating Domains...

Exception in thread "Thread-38" java.lang.OutOfMemoryError: Java heap
space

        at java.util.Arrays.copyOf(Arrays.java:2882)

        at
java.lang.AbstractStringBuilder.expandCapacity(AbstractStringBuilder.ja
va:100)

        at
java.lang.AbstractStringBuilder.append(AbstractStringBuilder.java:390)

        at java.lang.StringBuffer.append(StringBuffer.java:224)

at
com.bea.plateng.domain.security.LDIFTMerger.getMergedResultStr(LDIFTMer
ger.java:108)

        at
com.bea.plateng.domain.security.SecurityHelper.mergeAuthorizerLDIFTFile
s(SecurityHelper.java:1489)

        at
com.bea.plateng.domain.security.SecurityHelper.mergeAuthorizer(Security
Helper.java:1466)
```

```
    at
com.bea.plateng.domain.TemplateImporter.generate(TemplateImporter.java:
340)

        at
com.bea.plateng.domain.script.ScriptExecutor$2.run(ScriptExecutor.java:
2785)
```

This problem occurs when you use the 64-bit Sun JDK or 64-bit JRockit.

Workaround:

You will need to increase the heap size by doing the following:

```
java -Xms512m -Xmx1024m  -jar wli10gR3_generic.jar
```

2. When the Medrec server goes into run mode and you try accessing the admin console for this Medrec server, you may get the following Exception:

```
"<Error> <netuix> <BEA-423341> <An exception was thrown while trying
to map the tag [ lookAndFeel ] : [ java.lang.Throwable ].

java.lang.Throwable

        at
com.bea.netuix.nf.factories.TagClassMap$NamespaceTagnameMap.getClass(Ta
gClassMap.java:189)

        at
com.bea.netuix.nf.factories.TagClassMap.getClass(TagClassMap.java:88)

        at
com.bea.netuix.nf.factories.ControlTreeFactoryBuilder$CustomDefaultHand
ler.startElement(ControlTreeFactoryBuilder.java:398)

        at
com.sun.org.apache.xerces.internal.parsers.AbstractSAXParser.startEleme
nt(AbstractSAXParser.java:501)

at
com.sun.org.apache.xerces.internal.impl.XMLNSDocumentScannerImpl.scanSt
artElement(XMLNSDocumentScannerImpl.java:400)

        Truncated. see log file for complete stacktrace
```

An exception can also be thrown when you try to stop the server. You get an "`OutOfMemoryexception`".

This problem occurs when you have the 64-bit Sun JDK installed.

Workaround:

In the setDomainEnv.sh file, increase MaxPermSize to 256. With this change, the server can start up and you can access the Admin Console without getting the above exception. The server can also shutdown gracefully.

Issues Related to SUSE Enterprise Linux on AMD64 and 64-bit Xeon when Using Remote Autonomy

See Using a Remote Autonomy Installation in *Supported Configurations for* WebLogic Platform 10.3.

For information about known issues with products supported on this configuration, including available workarounds, see the appropriate *Release Notes* document.

Issues related to...	Are described in...
WebLogic Server	*WebLogic Server Known and Resolved Issues:* http://download.oracle.com/docs/cd/E12840_01/wls/docs103/issues/index.html
WebLogic Portal	*WebLogic Portal Release Notes*: http://download.oracle.com/docs/cd/E13155_01/wlp/docs103/relnotes/index.html
WebLogic Integration	*WebLogic Integration Release Notes*: http://download.oracle.com/docs/cd/E13160_01/wli/docs10gr3/relnotes/index.html
Workshop for WebLogic	*Workshop for WebLogic Release Notes*: http://e-docs.bea.com/wlw/docs103/relnotes/index.html

Download and Installation Instructions

- Download and Install Instructions for SLES 9 on 64-bit Xeon/AMD64
- Download and Install Instructions for SLES 9 on x86

- Oracle WebLogic Integration 10gR3 (10.3.1) installers (32-bit) for Linux, Windows and Solaris are available on Oracle Technology Network (OTN) for Oracle WebLogic Integration.

Download and Install Instructions for SLES 9 on 64-bit Xeon/AMD64

1. Download and install the supported JDK for your environment.
2. Go to `Oracle E-Delivery` and use the following information to select the WebLogic Media Pack and Part Numbers for download:
   - Select the Product Pack, Platform and Media Pack.

Product Pack	Oracle Fusion Middleware
Platform	Linux x86
Media Pack	B36233 (Oracle Application Server 10g Release 3 (10.1.3) Media Pack for Linux x86 (32 bit))

   - Select the file for download (choose the Part Number that corresponds to the product, hardware, and JVM).

Product	Platform	Platform JVM	Part Number (Description)
WebLogic Server	64-bit Xeon 64-bit AMD64	JRockit (32-bit) Sun JDK (32-bit)	V13616 (Oracle WebLogic Server 10gR3 (10.3) Linux x86)
WebLogic Server	64-bit Xeon 64-bit AMD64	JRockit (64-bit) Sun JDK 64-bit	V13672 (Oracle WebLogic Server 10gR3 (10.3)“generic”)
WebLogic Portal	64-bit Xeon 64-bit AMD64	JRockit (32-bit)	V13807 (Oracle WebLogic Portal 10gR3 (10.3) Linux x86)
WebLogic Portal	64-bit Xeon 64-bit AMD64	JRockit (64-bit)	V14087 (Oracle WebLogic Portal 10gR3 (10.3) “generic”)

WebLogic Integration	64-bit Xeon 64-bit AMD64	JRockit (32-bit) Sun JDK (32-bit)	V19639-01 Oracle WebLogic Integration 10gR3 MP1 (10.3.1) for Linux x86 V19642-01 Oracle WebLogic Integration 10gR3 MP1 (10.3.1) Upgrade Installer for Linux x86
WebLogic Integration	64-bit Xeon 64-bit AMD64	JRockit (64-bit) Sun JDK (64-bit)	V19187-01 (Oracle WebLogic Integration 10gR3 (10.3.1) Generic Installer) V19643-01 (Oracle WebLogic Integration 10gR3 MP1 (10.3.1) Upgrade Installer (Generic)) **Note:** The Generic installer can be used for different platforms. It is possible that the part number for the generic installer may not be in the Media pack of some platforms. If so, the generic installer can be found in Media Pack B36339 (Oracle Application Server 10gR3 Media Pack for HP-UX Itanium (64-bit)).

  - Unzip the file.

3. Install Instructions for 64-bit Xeon/AMD64 with 32-bit JDK
   - Install the WebLogic Products using the directions provided in the *"Using Installers with Filenames Ending in .bin* section of the *Products Installation Guide*.
4. Install Instructions for 64-bit Xeon/AMD64 with 64-bit JDK
   - Make sure that your `PATH` variable includes `$JAVA_HOME/bin` where `JAVA_HOME` is the installation path for the JDK. For example:

```
export PATH=$JAVA_HOME/bin:$PATH
```

   - Install the WebLogic Products using the directions provided in the *"Using Installers with Filenames Ending in .jar* section of the *Products Installation Guide*.

5. For WebLogic Portal, make sure that your WL_HOME variable is set to the directory in which you installed your product, and export WL_HOME. For example,

```
$ WL_HOME=<your installation directory>/wlserver_10.3
```

Download and Install Instructions for SLES 9 on x86

1. Download and install the supported JDK for your environment.
2. Go to Oracle E-Delivery and use the following information to select the WebLogic Media Pack and Part Numbers for download:
   – Select the Product Pack, Platform and Media Pack.

Product Pack	Oracle Fusion Middleware
Platform	Linux x86
Media Pack	B36233 (Oracle Application Server 10g Release 3 (10.1.3) Media Pack for Linux x86 (32 bit))

   – Select the file for download (choose the Part Number that corresponds to the product, hardware, and JVM).

Product	Platform	Platform JVM	Part Number (Description)
WebLogic Server	x86	JRockit (32-bit) Sun JDK (32-bit)	V13616 (Oracle WebLogic Server 10gR3 (10.3) Linux x86)
WebLogic Portal	x86	JRockit (32-bit)	V13807 (Oracle WebLogic Portal 10gR3 (10.3) Linux x86)
WebLogic Integration	x86	JRockit (32-bit) Sun JDK (32-bit)	V19639-01 Oracle WebLogic Integration 10gR3 MP1 (10.3.1) for Linux x86 V19642-01 Oracle WebLogic Integration 10gR3 MP1 (10.3.1) Upgrade Installer for Linux x86

   – Unzip the file.

3. Install Instructions for x86 and 64-bit Xeon/AMD64 with 32-bit JDK
   - Install the WebLogic Products using the directions provided in the *"Using Installers with Filenames Ending in .bin* section of the *Products Installation Guide*.
4. For WebLogic Portal, make sure that your WL_HOME variable is set to the directory in which you installed your product, and export WL_HOME. For example,

```
$ WL_HOME=<your installation directory>/wlserver_10.3
```

CHAPTER 4

WebLogic Platform 10.2 on Novell SUSE Linux Enterprise Server 10

This section provides the following information:

- Configuration Requirements
- Known Issues
- Download and Install Instructions for WebLogic Platform 10.2 MP1
- Download and Installation Instructions for WebLogic Platform 10.2

Related Information

- For information about supported database configurations, Web servers, browsers, interoperability tools, and product support, see:
  - *Supported Configurations for WebLogic Platform 10.2 and 10.2 MP1*
- For support and installation information for JRockit:
  - For support information, see Welcome to JRockit
  - For download information, see `Oracle E-Delivery`
- For support and download information for suported Sun JDKs, see `http://java.sun.com`.
- For information about Novell SUSE Linux Enterprise Server®, visit the following Novell Web site: `http://www.novell.com`.

Configuration Requirements

The following section provides requirements for products supported on this configuration:

- "Requirements for Novell SUSE Linux Enterprise Server 10 on x86" on page 4-2
- "Requirements for Novell SUSE Linux Enterprise Server 10 on 64-bit Xeon and AMD64 with 32-bit JDK" on page 4-3
- "Requirements for Novell SUSE Linux Enterprise Server 10 on 64-bit Xeon and AMD64 with 64-bit JDK" on page 4-4
- Requirements for Novell SUSE Linux Enterprise Server 10 on Itanium with 64-bit JDK

Table 4-1 Requirements for Novell SUSE Linux Enterprise Server 10 on x86

Operating System Version and Patches	Novell SUSE Linux Enterprise Server (SLES) 10 with Kernel 2.6.16.21-0.8-bigsmp, glibc-2.4-31.5 and later SUSE service packs and errata
Chip Architecture and Minimum Processor Speed	x86 (1.2GHz)
JDK	• 10.2: JRockit 5.0 (R27.3.1+CR344434) JDK (32-bit) and all later 5.0 releases of JRockit • 10.2 MP1: JRockit 5.0 (R27.6.1) JDK (32-bit) and all later 5.0 releases of JRockit
	Sun Java 2 JDK 5.0 with the Java HotSpot™ Client and Server VMs (32-bit) and all later service packs of 5.0 (version 1.5.0_011)
RAM	1 GB minimum
Performance Pack	`server/native/linux/i686/libmuxer.so`
Product Support	• WebLogic Server 10.0 MP1, 10.0 MP2 • WebLogic Portal 10.2, 10.2 MP1 • WebLogic Integration 10.2, 10.2 MP1 • WebLogic Platform 10.2 MP1 • Workshop for WebLogic 10.2, 10.2 MP1 (Runtime)

Table 4-2 Requirements for Novell SUSE Linux Enterprise Server 10 on 64-bit Xeon and AMD64 with 32-bit JDK

Operating System Version and Patches	SUSE Linux Enterprise Server (SLES) 10 with Kernel 2.6.16.21-0.8-bigsmp, glibc-2.4-31.5 and later SUSE service packs and errata
Chip Architecture and Minimum Processor Speed	• AMD64 (1.3 GHz) • 64-bit Xeon (1.3 GHz)
JDK	• 10.0: JRockit 5.0 (R26.4.0 + CR302700) JDK (32-bit) and all later 5.0 releases of JRockit • 10.0 MP1: JRockit 5.0 (R27.3.1) JDK (32-bit) and all later 5.0 releases of JRockit • 10.2 MP1: JRockit 5.0 (R27.6.1) JDK (32-bit) and all later 5.0 releases of JRockit
	• 10.0: Sun Java 2 JDK 5.0 with the Java HotSpot™ Client and Server VMs (32-bit) and all later service packs of 5.0 (version 1.5.0_06) • 10.0 MP1: Sun Java 2 JDK 5.0 with the Java HotSpot™ Client and Server VMs (32-bit) and all later service packs of 5.0 (version 1.5.0_011) • 10.2 MP1: JRockit 5.0 (R27.6.1) JDK (32-bit) and all later 5.0 releases of JRockit
RAM	1 GB minimum
Performance Pack	`server/native/linux/i686/libmuxer.so`
Product Support	• WebLogic Server 10.0 MP1, 10.0 MP2 • WebLogic Portal 10.2, 10.2 MP1 • WebLogic Integration 10.2, 10.2 MP1 • WebLogic Platform 10.2 MP1

Table 4-3 Requirements for Novell SUSE Linux Enterprise Server 10 on 64-bit Xeon and AMD64 with 64-bit JDK

Operating System Version and Patches	SUSE Linux Enterprise Server (SLES) 10 with Kernel 2.6.16.21-0.8-bigsmp, glibc-2.4-31.5 and later SUSE service packs and errata
Chip Architecture and Minimum Processor Speed	• AMD64 (1.3 GHz) • 64-bit Xeon (1.3 GHz)
JDK	• 10.0: JRockit 5.0 (R26.4.0 + CR302700) JDK (64-bit) and all later 5.0 releases of JRockit • 10.0 MP1: JRockit 5.0 (R27.3.1) JDK (64-bit) and all later 5.0 releases of JRockit • 10.2 MP1: JRockit 5.0 R27.6.1 JDK (64-bit) and all later 5.0 releases of JRockit
RAM	1 GB minimum
Performance Pack	`server/native/linux/x86_64/libmuxer.so`
Product Support	• WebLogic Server 10.0 MP1, 10.0 MP2 • WebLogic Portal 10.2, 10.2 MP1 • WebLogic Integration 10.2, 10.2 MP1 • WebLogic Platform 10.2 MP1

Table 4-4 Requirements for Novell SUSE Linux Enterprise Server 10 on Itanium with 64-bit JDK

Operating System Version and Patches	SUSE Linux Enterprise Server (SLES) 10 with Kernel 2.6.16.21-0.8-bigsmp, glibc-2.4-31.5 and later SUSE service packs and errata
Chip Architecture and Minimum Processor Speed	• Itanium (1.5GHz)

Table 4-4 Requirements for Novell SUSE Linux Enterprise Server 10 on Itanium with 64-bit JDK

JDK	• 10.0: JRockit 5.0 (R26.4.0 + CR302700) JDK (64-bit) and all later 5.0 releases of JRockit • 10.0 MP1: JRockit 5.0 (R27.3.1) JDK (64-bit) and all later 5.0 releases of JRockit • 10.2 MP1: JRockit 5.0 R27.6.1 JDK (64-bit) and all later 5.0 releases of JRockit
RAM	1 GB minimum
Performance Pack	`server/native/linux/ia64/libmuxer.so`
Product Support	• WebLogic Server 10.0 MP1, 10.0 MP2 • WebLogic Portal 10.2, 10.2 MP1 • WebLogic Integration 10.2, 10.2 MP1 • WebLogic Platform 10.2 MP1

Known Issues

- "Serial Version UID Mismatch" on page 4-5
- "Issues Related to Novell SUSE Linux Enterprise 10 on AMD64, 64-bit Xeon when Using Remote Autonomy" on page 4-6
- Issues Related to Novell SUSE Linux Enterprise 10 on AMD64 and 64-bit Xeon
- Issues Related to Other Products

Serial Version UID Mismatch

A Serial Version UID Mismatch Issue may be encountered if you deploy an application on a latest JVM, but compiled with an earlier JDK release.

Workaround: To be compatible with the serialization of previously compiled applications, modify the `<BEA_HOME>/wlserver_10.0/common/bin/commEnv.sh` file to include the following command:

```
JAVA_OPTIONS="$JAVA_OPTIONS
-Dcom.sun.xml.namespace.QName.useCompatibleSerialVersionUID=1.0"
```

Or, you can use the command line option:

```
export JAVA_OPTIONS="$JAVA_OPTIONS
-Dcom.sun.xml.namespace.QName.useCompatibleSerialVersionUID=1.0"
```

Note: If you intend to deploy new applications with previously compiled applications, they must be recompiled as necessary to have the same Serial Version UID.

Issues Related to Novell SUSE Linux Enterprise 10 on AMD64, 64-bit Xeon when Using Remote Autonomy

See Using a Remote Autonomy Installation in *Supported Configurations for WebLogic Platform 10.0*.

Issues Related to Novell SUSE Linux Enterprise 10 on AMD64 and 64-bit Xeon

This section describes known issues that occur when you run WebLogic Server 10.0 on Novell SUSE Linux Enterprise 10 systems based on the AMD64 and 64-bit Xeon chip architecture.

JVM Stack Overflow

You might encounter a JVM stack overflow error or exception while running WebLogic Server on the Novell SUSE Linux Enterprise 10 on 64-bit Xeon configuration.

Workaround: Increase the stack size from the default 128k to 256k.

Exception Encountered on Systems with Mounted NFS File Systems

You might encounter the following exception while installing WebLogic Server on a system that has NFS file systems mounted:

```
"Caused by:  java.lang.IllegalArgumentException: Can not list file system
roots on this computer"
```

Workaround: Ensure that you have at least 600MB of free disk space before installing WebLogic Server and use the `-Dspace.detection=false` flag while installing. The installation command will look like:

```
java -Dspace.detection=false -jar server100_generic.jar -mode=console
```

Issues Related to Other Products

For information about known issues with products supported on this configuration, including available workarounds, see the appropriate *Release Notes* document.

Issues related to...	Are described in...
WebLogic Server	*WebLogic Server Known and Resolved Issues:* http://e-docs.bea.com/wls/docs100/issues/known_resolved.html
Installation and Configuration	*Products Installation and Configuration Release Notes*: http://e-docs.bea.com/common/docs102/relnotes/relnotes.html
WebLogic Portal	*WebLogic Portal Release Notes*: http://e-docs.bea.com/wlp/docs102/relnotes/index.html
WebLogic Integration	*WebLogic Integration Release Notes*: http://e-docs.bea.com/wli/docs102/relnotes/index.html
Workshop for WebLogic	*Workshop for WebLogic Release Notes*: http://e-docs.bea.com/wlw/docs102/relnotes/index.html

Download and Install Instructions for WebLogic Platform 10.2 MP1

- Download and Install WebLogic Media Pack for Linux x86
- Download and Install WebLogic Media Pack for Linux x86-64
- Download and Install WebLogic Media Pack for Linux Itanium

Download and Install WebLogic Media Pack for Linux x86

5. Go to Oracle E-Delivery and use the following information to select the WebLogic Media Pack and Part Numbers for download:

– Select the Product Pack, Platform and Media Pack.

Product Pack	Oracle BEA
Platform	Linux x86
Media Pack	BEA WebLogic Media Pack v4 for Linux x86

– Select the file for download (choose the Part Number that corresponds to the product, platform, and JVM).

Product	Part Number (Description)
WebLogic Server	V16486-01 (WebLogic Server 10.0 Maintenance Pack 2 (10.0.2.0) for Linux x86 (32-bit))
WebLogic Server	V16563-01 (WebLogic Server Process Edition 10.0 Maintenance Pack 2 (10.0.2.0) for Linux x86 (32-bit))
WebLogic Portal	V16565-01 (WebLogic Portal 10.2 Maintenance Pack 1 (10.2.1.0) for Linux x86 (32-bit))
WebLogic Integration	V16564-01 (WebLogic Integration 10.2 Maintenance Pack 1 (10.2.1.0) for Linux x86 (32-bit))
Workshop for WebLogic	V16566-01 (Workshop for WebLogic 10.2 Maintenance Pack 1 (10.2.1.0) for Linux x86 (32-bit)
WebLogic Platform	V16450-01 (WebLogic Platform 10.2 Maintenance Pack 1 (10.2.1.0) for Linux x86 (32-bit))
WebLogic Platform ISV	V16567-01 (WebLogic Platform ISV 10.2 Maintenance Pack 1 (10.2.1.0) for Linux x86 (32-bit))

6. Install the WebLogic Products using the directions provided in the BEA Products Installation Guide.

   Refer to http://e-docs.bea.com/common/docs102/install/start.html for instructions on how to start the `.jar` or `.bin` or `.exe` installer files. Note, that generic installers are those filenames that end in `.jar`.

Download and Install WebLogic Media Pack for Linux x86-64

1. Download and install the supported JDK for your environment.
2. Make sure that your `PATH` variable includes `$JAVA_HOME/bin`. For example:

   ```
   export PATH=$JAVA_HOME/bin:$PATH
   ```

3. Go to `Oracle E-Delivery` and use the following information to select the WebLogic Media Pack and Part Numbers for download:
   - Select the Product Pack, Platform and Media Pack.

Product Pack	Oracle BEA
Platform	Linux x86-64
Media Pack	BEA WebLogic Media Pack v4 for Linux x86-64

   - Select the file for download (choose the Part Number that corresponds to the product, platform, and JVM).

Product	Part Number (Description)
WebLogic Server	V16540-01 (WebLogic Server 10.0 Maintenance Pack 2 (10.0.2.0)
WebLogic Portal	V16543-01 (WebLogic Portal 10.2 Maintenance Pack 1 (10.2.1.0)
WebLogic Integration	V16542-01 (WebLogic Integration 10.2 Maintenance Pack 1 (10.2.1.0)
WebLogic Platform	V16541-01 (WebLogic Platform 10.2 Maintenance Pack 1 (10.2.1.0)
WebLogic Platform ISV	V16544-01 (WebLogic Platform ISV 10.2 Maintenance Pack 1 (10.2.1.0)

4. Install the WebLogic Products using the directions provided in the BEA Products Installation Guide.

   Refer to http://e-docs.bea.com/common/docs102/install/start.html for instructions on how to start the `.jar` or `.bin` or `.exe` installer files. Note, that generic installers are those filenames that end in `.jar`.

If your configuration includes the 64-bit version of the JDK, your installation is now complete. If your configuration includes the 32-bit version, however, you must also complete the following steps:

5. Set the `BEA_HOME` to point to the directory in which WebLogic Server is installed and export `BEA_HOME`. For example:

   ```
   export BEA_HOME=<your_WebLogic_Server_installation_directory>
   ```

6. In a text editor, open the `$BEA_HOME/wlserver_10.0/common/bin/commEnv.sh` and search for the following case statement:

   ```
   LINUX|Linux)
   arch='uname -m'
   ```

   Replace with the following:

   ```
   LINUX|Linux)
   arch='uname -m'
      if [ "${arch}" = "x86_64" ]; then
         arch=i686
      fi
   ```

Download and Install WebLogic Media Pack for Linux Itanium

1. Go to Oracle E-Delivery and use the following information to select the WebLogic Media Pack and Part Numbers for download:
   – Select the Product Pack, Platform and Media Pack.

Product Pack	Oracle BEA
Platform	Linux Itanium
Media Pack	BEA WebLogic Media Pack v4 for Linux Itanium

– Select the file for download (choose the Part Number that corresponds to the product, platform, and JVM).

Product	Part Number (Description)
WebLogic Server	V16487-01 (WebLogic Server 10.0 Maintenance Pack 2 (10.0.2.0) for Linux Itanium
WebLogic Portal	V16569-01 (WebLogic Portal 10.2 Maintenance Pack 1 (10.2.1.0) for Linux Itanium
WebLogic Integration	V16568-01 (WebLogic Integration 10.2 Maintenance Pack 1 (10.2.1.0) for Linux Itanium
WebLogic Platform	V16454-01 (WebLogic Platform 10.2 Maintenance Pack 1 (10.2.1.0) for Linux Itanium
WebLogic Platform ISV	V16570-01 (WebLogic Platform ISV 10.2 Maintenance Pack 1 (10.2.1.0) for Linux Itanium

2. Install the WebLogic Products using the directions provided in the BEA Products Installation Guide.

   Refer to http://e-docs.bea.com/common/docs102/install/start.html for instructions on how to start the `.jar` or `.bin` or `.exe` installer files. Note, that generic installers are those filenames that end in `.jar`.

Download and Installation Instructions for WebLogic Platform 10.2

- "Novell SUSE Linux Enterprise Server on x86" on page 4-11
- "Novell SUSE Linux Enterprise Server on AMD64 and 64-bit Xeon" on page 4-12

Novell SUSE Linux Enterprise Server on x86

Depending on your requirements:

- "Download and Install WebLogic Portal 10.2 on Novell SUSE Linux Enterprise Server on x86" on page 4-12
- "Download and Install WebLogic Integration 10.2 on Novell SUSE Linux Enterprise Server on x86" on page 4-12

Download and Install WebLogic Portal 10.2 on Novell SUSE Linux Enterprise Server on x86

Complete the following procedure:

1. Go to `Oracle E-Delivery` and download WebLogic Portal 10.2 for Linux x86.
2. Unzip the file.
3. Download the package installer `.bin` file.
4. Install the `.bin` file using the installation procedure provided at: http://e-docs.bea.com/common/docs102/install/start.html. This section describes how to install `.bin` files using Graphical mode.

Download and Install WebLogic Integration 10.2 on Novell SUSE Linux Enterprise Server on x86

Complete the following procedure:

1. Go to `Oracle E-Delivery` and download WebLogic Integration 10.2 for Linux x86.
2. Unzip the file.
3. Download the package installer `.bin` file.
4. Install the `.bin` file using the installation procedure provided at: http://e-docs.bea.com/common/docs102/install/start.html. This section describes how to install `.bin` files using Graphical mode.

Novell SUSE Linux Enterprise Server on AMD64 and 64-bit Xeon

Complete the following procedures:

1. Download and Install the supported JDK for your environment
2. Depending on your requirements:

- "Download and Install WebLogic Platform 10.2 on Novell SUSE Linux Enterprise Server on AMD64 and 64-bit Xeon" on page 4-13
- "Download and Install WebLogic Integration 10.2 on Novell SUSE Linux Enterprise Server on AMD64 and 64-bit Xeon" on page 4-14

Download and Install WebLogic Platform 10.2 on Novell SUSE Linux Enterprise Server on AMD64 and 64-bit Xeon

Complete the following procedure:

1. Go to `Oracle E-Delivery` and download WebLogic Portal 10.2 for Linux x86-x64.
2. Unzip the file.
3. Install using the instructions provided in the "Using Installers with Filenames Ending in .jar" section of the *Products Installation Guide*.

   If your configuration includes the 64-bit version of JRockit, your installation is now complete. If your configuration includes the 32-bit version, however, you must also complete the following steps:

4. Set the `BEA_HOME` to point to the directory in which WebLogic Server is installed and export `BEA_HOME`. For example:

   ```
   export BEA_HOME=<your_WebLogic_Server_installation_directory>
   ```

5. In a text editor, open the `$BEA_HOME/wlserver_10.0/common/bin/commEnv.sh` and search for the following case statement:

   ```
   LINUX|Linux)
   arch='uname -m'
   ```

   Replace with the following:

   ```
   LINUX|Linux)
   arch='uname -m'
      if [ "${arch}" = "x86_64" ]; then
         arch=i686
      fi
   ```

Download and Install WebLogic Integration 10.2 on Novell SUSE Linux Enterprise Server on AMD64 and 64-bit Xeon

Complete the following procedure:

1. Go to Oracle E-Delivery and download WebLogic Integration 10.2 for Linux x86-x64.
2. Unzip the file.
3. Install using the instructions provided in the "Using Installers with Filenames Ending in .jar" section of the *Product Installation Guide*.

   If your configuration includes the 64-bit version of JRockit, your installation is now complete. If your configuration includes the 32-bit version, however, you must also complete the following steps:

4. Set the BEA_HOME to point to the directory in which WebLogic Server is installed and export BEA_HOME. For example:

   ```
   export BEA_HOME=<your_WebLogic_Server_installation_directory>
   ```

5. In a text editor, open the $BEA_HOME/wlserver_10.0/common/bin/commEnv.sh and search for the following case statement:

   ```
   LINUX|Linux)
   arch='uname -m'
   ```

   Replace with the following:

   ```
   LINUX|Linux)
   arch='uname -m'
      if [ "${arch}" = "x86_64" ]; then
         arch=i686
      fi
   ```

CHAPTER 5

WebLogic Platform 10.2 on Novell SUSE Linux Enterprise Server 9

This section provides the following information:

- Configuration Requirements
- Known Issues
- Download and Install Instructions for WebLogic Platform 10.2 MP1
- Download and Installation Instructions for WebLogic Platform 10.2

Related Information

- For information about supported database configurations, Web servers, browsers, interoperability tools, and product support, see:
  - *Supported Configurations for WebLogic Platform 10.2 and 10.2 MP1*
- For support and installation information for JRockit:
  - For support information, see Welcome to JRockit
  - For download information, see `Oracle E-Delivery`
- For support and download information for suported Sun JDKs, see `http://java.sun.com`.
- For information about Novell SUSE Linux Enterprise Server®, visit the following Novell Web site: `http://www.novell.com`.

Configuration Requirements

The following section provides requirements for products supported on this configuration:

- "Requirements for Novell SUSE Linux Enterprise Server 9 on x86" on page 5-2
- "Requirements for Novell SUSE Linux Enterprise Server 9 on 64-bit Xeon and AMD64 with 32-bit JDK" on page 5-3
- "Requirements for Novell SUSE Linux Enterprise Server 9 on 64-bit Xeon and AMD64 with 64-bit JDK" on page 5-3
- Requirements for Novell SUSE Linux Enterprise Server 9 on Itanium with 64-bit JDK

Table 5-1 Requirements for Novell SUSE Linux Enterprise Server 9 on x86

Operating System Version and Patches	Novell SUSE Linux Enterprise Server (SLES) 9 SP3 with Kernel 2.6.5-7.244-default, glibc-2.3.3-98.61 and later SUSE service packs and errata
Chip Architecture and Minimum Processor Speed	x86 (1.2GHz)
JDK	• 10.2: JRockit 5.0 (R27.3.1+CR344434) JDK (32-bit) and all later 5.0 releases of JRockit • 10.2 MP1: JRockit 5.0 (R27.6.1) JDK (32-bit) and all later 5.0 releases of JRockit
	Sun Java 2 JDK 5.0 with the Java HotSpot™ Client and Server VMs (32-bit) and all later service packs of 5.0 (version 1.5.0_011)
RAM	1 GB minimum
Performance Pack	`server/native/linux/i686/libmuxer.so`
Product Support	• WebLogic Server 10.0 MP1, 10.0 MP2 • WebLogic Portal 10.2, 10.2 MP1 • WebLogic Integration 10.2, 10.2 MP1 • WebLogic Platform 10.2 MP1 • Workshop for WebLogic 10.2, 10.2 MP1 (Runtime)

Table 5-2 Requirements for Novell SUSE Linux Enterprise Server 9 on 64-bit Xeon and AMD64 with 32-bit JDK

Operating System Version and Patches	SUSE LINUX Enterprise Server 9 SP3 (x86_64) - Kernel 2.6.5-7.244-smp glibc-2.3.3-98.61 and later SUSE service packs and errata
Chip Architecture and Minimum Processor Speed	• AMD64 (1.3 GHz) • 64-bit Xeon (1.3 GHz)
JDK	• 10.2: JRockit 5.0 (R27.3.1) JDK (32-bit) and all later 5.0 releases of JRockit • 10.2 MP1: JRockit 5.0 R27.6.1 JDK (32-bit) and all later 5.0 releases of JRockit
	• Sun Java 2 JDK 5.0 with the Java HotSpot™ Client and Server VMs (32-bit) and all later service packs of 5.0 (version 1.5.0_011)
RAM	1 GB minimum
Performance Pack	`server/native/linux/i686/libmuxer.so`
Product Support	• WebLogic Server 10.0 MP1, 10.0 MP2 • WebLogic Portal 10.2, 10.2 MP1 • WebLogic Integration 10.2, 10.2 MP1 • WebLogic Platform 10.2 MP1

Table 5-3 Requirements for Novell SUSE Linux Enterprise Server 9 on 64-bit Xeon and AMD64 with 64-bit JDK

Operating System Version and Patches	SUSE LINUX Enterprise Server 9 SP3 (x86_64) - Kernel 2.6.5-7.244-smp glibc-2.3.3-98.61and later SUSE service packs and errata
Chip Architecture and Minimum Processor Speed	• AMD64 (1.3 GHz) • 64-bit Xeon (1.3 GHz)

Table 5-3 Requirements for Novell SUSE Linux Enterprise Server 9 on 64-bit Xeon and AMD64 with 64-bit JDK

JDK	• 10.2: JRockit 5.0 (R27.3.1) JDK (64-bit) and all later 5.0 releases of JRockit • 10.2 MP1: JRockit 5.0 R27.6.1 JDK (64-bit) and all later 5.0 releases of JRockit
	• Sun Java 2 JDK 5.0 with the Java HotSpot™ Client and Server VMs (64-bit) and all later service packs of 5.0 (version 1.5.0_011)
RAM	1 GB minimum
Performance Pack	`server/native/linux/x86_64/libmuxer.so`
Product Support	• WebLogic Server 10.0 MP1, 10.0 MP2 • WebLogic Portal 10.2, 10.2 MP1 • WebLogic Integration 10.2, 10.2 MP1 • WebLogic Platform 10.2 MP1

Table 5-4 Requirements for Novell SUSE Linux Enterprise Server 9 on Itanium with 64-bit JDK

Operating System Version and Patches	SUSE LINUX Enterprise Server 9 SP3 (x86_64) - Kernel 2.6.5-7.244-smp glibc-2.3.3-98.61and later SUSE service packs and errata
Chip Architecture and Minimum Processor Speed	• Itanium (1.5 GHz)
JDK	• 10.2: JRockit 5.0 (R27.3.1) JDK (64-bit) and all later 5.0 releases of JRockit • 10.2 MP1: JRockit 5.0 R27.6.1 JDK (64-bit) and all later 5.0 releases of JRockit
RAM	1 GB minimum

Table 5-4 Requirements for Novell SUSE Linux Enterprise Server 9 on Itanium with 64-bit JDK

Performance Pack	`server/native/linux/ia64/libmuxer.so`
Product Support	• WebLogic Server 10.0 MP1, 10.0 MP2 • WebLogic Portal 10.2, 10.2 MP1 • WebLogic Integration 10.2, 10.2 MP1 • WebLogic Platform 10.2 MP1

Known Issues

- "Serial Version UID Mismatch" on page 5-5
- Issues Related to Novell SUSE Linux Enterprise 9 on AMD64 and 64-bit Xeon
- Issues Related to Novell SUSE Linux Enterprise 9 on AMD64, 64-bit Xeon Itanium when Using Remote Autonomy
- Issues Related to Other Products

Serial Version UID Mismatch

A Serial Version UID Mismatch Issue may be encountered if you deploy an application on a latest JVM, but compiled with an earlier JDK release.

Workaround: To be compatible with the serialization of previously compiled applications, modify the `<BEA_HOME>/wlserver_10.0/common/bin/commEnv.sh` file to include the following command:

```
JAVA_OPTIONS="$JAVA_OPTIONS
-Dcom.sun.xml.namespace.QName.useCompatibleSerialVersionUID=1.0"
```

Or, you can use the command line option:

```
export JAVA_OPTIONS="$JAVA_OPTIONS
-Dcom.sun.xml.namespace.QName.useCompatibleSerialVersionUID=1.0"
```

Note: If you intend to deploy new applications with previously compiled applications, they must be recompiled as necessary to have the same Serial Version UID.

Issues Related to Novell SUSE Linux Enterprise 9 on AMD64 and 64-bit Xeon

This section describes known issues that occur when you run WebLogic Server 10.0 and WebLogic Portal 10.0 on Novell SUSE Linux Enterprise 9 systems based on the AMD64 and 64-bit Xeon chip architecture.

JVM Stack Overflow

You might encounter a JVM stack overflow error or exception while running WebLogic Server on the Novell SUSE Linux Enterprise 9 on 64-bit Xeon configuration.

Workaround: Increase the stack size from the default 128k to 256k.

Exception Encountered on Systems with Mounted NFS File Systems

You might encounter the following exception while installing WebLogic Server and WebLogic Portal on a system that has NFS file systems mounted:

```
"Caused by:  java.lang.IllegalArgumentException: Can not list file system
roots on this computer"
```

Workaround: Ensure that you have at least 600MB of free disk space before installing WebLogic Server and use the `-Dspace.detection=false` flag while installing. For example:

```
java -Dspace.detection=false -jar server100_generic.jar -mode=console
```

Issues Related to Novell SUSE Linux Enterprise 9 on AMD64, 64-bit Xeon Itanium when Using Remote Autonomy

See Using a Remote Autonomy Installation in *Supported Configurations for WebLogic Platform 10.0*.

Issues Related to Other Products

For information about known issues with products supported on this configuration, including available workarounds, see the appropriate *Release Notes* document.

Issues related to...	Are described in...
WebLogic Server	*WebLogic Server Known and Resolved Issues:* http://e-docs.bea.com/wls/docs100/issues/known_resolved.html
Installation and Configuration	*Products Installation and Configuration Release Notes*: http://e-docs.bea.com/common/docs102/relnotes/relnotes.html
WebLogic Portal	*WebLogic Portal Release Notes*: http://e-docs.bea.com/wlp/docs102/relnotes/index.html
WebLogic Portal	*WebLogic Integration Release Notes*: http://e-docs.bea.com/wlp/docs102/relnotes/index.html
Workshop for WebLogic	*Workshop for WebLogic Release Notes*: http://e-docs.bea.com/wlw/docs102/relnotes/index.html

Download and Install Instructions for WebLogic Platform 10.2 MP1

- Download and Install WebLogic Media Pack for Linux x86
- Download and Install WebLogic Media Pack for Linux x86-64
- Download and Install WebLogic Media Pack for Linux Itanium

Download and Install WebLogic Media Pack for Linux x86

1. Go to Oracle E-Delivery and use the following information to select the WebLogic Media Pack and Part Numbers for download:

– Select the Product Pack, Platform and Media Pack.

Product Pack	Oracle BEA
Platform	Linux x86
Media Pack	BEA WebLogic Media Pack v4 for Linux x86

– Select the file for download (choose the Part Number that corresponds to the product, platform, and JVM).

Product	Part Number (Description)
WebLogic Server	V16486-01 (WebLogic Server 10.0 Maintenance Pack 2 (10.0.2.0) for Linux x86 (32-bit))
WebLogic Server	V16563-01 (WebLogic Server Process Edition 10.0 Maintenance Pack 2 (10.0.2.0) for Linux x86 (32-bit))
WebLogic Portal	V16565-01 (WebLogic Portal 10.2 Maintenance Pack 1 (10.2.1.0) for Linux x86 (32-bit))
WebLogic Integration	V16564-01 (WebLogic Integration 10.2 Maintenance Pack 1 (10.2.1.0) for Linux x86 (32-bit))
Workshop for WebLogic	V16566-01 (Workshop for WebLogic 10.2 Maintenance Pack 1 (10.2.1.0) for Linux x86 (32-bit)
WebLogic Platform	V16450-01 (WebLogic Platform 10.2 Maintenance Pack 1 (10.2.1.0) for Linux x86 (32-bit))
WebLogic Platform ISV	V16567-01 (WebLogic Platform ISV 10.2 Maintenance Pack 1 (10.2.1.0) for Linux x86 (32-bit))

2. Install the WebLogic Products using the directions provided in the BEA Products Installation Guide.

   Refer to http://e-docs.bea.com/common/docs102/install/start.html for instructions on how to start the `.jar` or `.bin` or `.exe` installer files. Note, that generic installers are those filenames that end in `.jar`.

Download and Install WebLogic Media Pack for Linux x86-64

1. Download and install the supported JDK for your environment.
2. Make sure that your `PATH` variable includes `$JAVA_HOME/bin`. For example:

   ```
   export PATH=$JAVA_HOME/bin:$PATH
   ```

3. Go to `Oracle E-Delivery` and use the following information to select the WebLogic Media Pack and Part Numbers for download:
   - Select the Product Pack, Platform and Media Pack.

Product Pack	Oracle BEA
Platform	Linux x86-64
Media Pack	BEA WebLogic Media Pack v4 for Linux x86-64

   - Select the file for download (choose the Part Number that corresponds to the product, platform, and JVM).

Product	Part Number (Description)
WebLogic Server	V16540-01 (WebLogic Server 10.0 Maintenance Pack 2 (10.0.2.0)
WebLogic Portal	V16543-01 (WebLogic Portal 10.2 Maintenance Pack 1 (10.2.1.0)
WebLogic Integration	V16542-01 (WebLogic Integration 10.2 Maintenance Pack 1 (10.2.1.0)
WebLogic Platform	V16541-01 (WebLogic Platform 10.2 Maintenance Pack 1 (10.2.1.0)
WebLogic Platform ISV	V16544-01 (WebLogic Platform ISV 10.2 Maintenance Pack 1 (10.2.1.0)

4. Install the WebLogic Products using the directions provided in the BEA Products Installation Guide.

   Refer to http://e-docs.bea.com/common/docs102/install/start.html for instructions on how to start the `.jar` or `.bin` or `.exe` installer files. Note, that generic installers are those filenames that end in `.jar`.

If your configuration includes the 64-bit version of the JDK, your installation is now complete. If your configuration includes the 32-bit version, however, you must also complete the following steps:

5. Set the `BEA_HOME` to point to the directory in which WebLogic Server is installed and export `BEA_HOME`. For example:

   ```
   export BEA_HOME=<your_WebLogic_Server_installation_directory>
   ```

6. In a text editor, open the `$BEA_HOME/wlserver_10.0/common/bin/commEnv.sh` and search for the following case statement:

   ```
   LINUX|Linux)
   arch='uname -m'
   ```

   Replace with the following:

   ```
   LINUX|Linux)
   arch='uname -m'
      if [ "${arch}" = "x86_64" ]; then
         arch=i686
      fi
   ```

Download and Install WebLogic Media Pack for Linux Itanium

1. Go to Oracle E-Delivery and use the following information to select the WebLogic Media Pack and Part Numbers for download:
   – Select the Product Pack, Platform and Media Pack.

Product Pack	Oracle BEA
Platform	Linux Itanium
Media Pack	BEA WebLogic Media Pack v4 for Linux Itanium

– Select the file for download (choose the Part Number that corresponds to the product, platform, and JVM).

Product	Part Number (Description)
WebLogic Server	V16487-01 (WebLogic Server 10.0 Maintenance Pack 2 (10.0.2.0) for Linux Itanium
WebLogic Portal	V16569-01 (WebLogic Portal 10.2 Maintenance Pack 1 (10.2.1.0) for Linux Itanium
WebLogic Integration	V16568-01 (WebLogic Integration 10.2 Maintenance Pack 1 (10.2.1.0) for Linux Itanium
WebLogic Platform	V16454-01 (WebLogic Platform 10.2 Maintenance Pack 1 (10.2.1.0) for Linux Itanium
WebLogic Platform ISV	V16570-01 (WebLogic Platform ISV 10.2 Maintenance Pack 1 (10.2.1.0) for Linux Itanium

2. Install the WebLogic Products using the directions provided in the BEA Products Installation Guide.

   Refer to http://e-docs.bea.com/common/docs102/install/start.html for instructions on how to start the `.jar` or `.bin` or `.exe` installer files. Note, that generic installers are those filenames that end in `.jar`.

Download and Installation Instructions for WebLogic Platform 10.2

- "Novell SUSE Linux Enterprise Server on x86" on page 5-11
- "Novell SUSE Linux Enterprise Server on AMD64 and 64-bit Xeon" on page 5-12

Novell SUSE Linux Enterprise Server on x86

Depending on your requirements:

- "Download and Install WebLogic Portal 10.2 on Novell SUSE Linux Enterprise Server on x86" on page 5-12
- "Download and Install WebLogic Integration 10.2 on Novell SUSE Linux Enterprise Server on x86" on page 5-12

Download and Install WebLogic Portal 10.2 on Novell SUSE Linux Enterprise Server on x86

Complete the following procedure:

1. Go to `Oracle E-Delivery` and download WebLogic Portal 10.2 for Linux x86.
2. Unzip the file.
3. Download the package installer `.bin` file.
4. Install the `.bin` file using the installation procedure provided at: http://e-docs.bea.com/common/docs102/install/start.html. This section describes how to install `.bin` files using Graphical mode.

Download and Install WebLogic Integration 10.2 on Novell SUSE Linux Enterprise Server on x86

Complete the following procedure:

1. Go to `Oracle E-Delivery` and download WebLogic Integration 10.2 for Linux x86.
2. Unzip the file.
3. Download the package installer `.bin` file.
4. Install the `.bin` file using the installation procedure provided at: http://e-docs.bea.com/common/docs102/install/start.html. This section describes how to install `.bin` files using Graphical mode.

Novell SUSE Linux Enterprise Server on AMD64 and 64-bit Xeon

Complete the following procedures:

1. Download and Install the supported JDK for your environment
2. Depending on your requirements:

- "Download and Install WebLogic Platform 10.2 on Novell SUSE Linux Enterprise Server on AMD64 and 64-bit Xeon" on page 5-13
- "Download and Install WebLogic Integration 10.2 on Novell SUSE Linux Enterprise Server on AMD64 and 64-bit Xeon" on page 5-14

Download and Install WebLogic Platform 10.2 on Novell SUSE Linux Enterprise Server on AMD64 and 64-bit Xeon

Complete the following procedure:

1. Go to `Oracle E-Delivery` and download WebLogic Portal 10.2 for Linux x86-x64.
2. Unzip the file.
3. Install using the instructions provided in the "Using Installers with Filenames Ending in .jar" section of the *Products Installation Guide*.

   If your configuration includes the 64-bit version of JRockit, your installation is now complete. If your configuration includes the 32-bit version, however, you must also complete the following steps:

4. Set the `BEA_HOME` to point to the directory in which WebLogic Server is installed and export `BEA_HOME`. For example:

   ```
   export BEA_HOME=<your_WebLogic_Server_installation_directory>
   ```

5. In a text editor, open the `$BEA_HOME/wlserver_10.0/common/bin/commEnv.sh` and search for the following case statement:

   ```
   LINUX|Linux)
   arch='uname -m'
   ```

   Replace with the following:

   ```
   LINUX|Linux)
   arch='uname -m'
      if [ "${arch}" = "x86_64" ]; then
         arch=i686
      fi
   ```

Download and Install WebLogic Integration 10.2 on Novell SUSE Linux Enterprise Server on AMD64 and 64-bit Xeon

Complete the following procedure:

1. Go to Oracle E-Delivery and download WebLogic Integration 10.2 for Linux x86-x64.
2. Unzip the file.
3. Install using the instructions provided in the "Using Installers with Filenames Ending in .jar" section of the *Product Installation Guide*.

   If your configuration includes the 64-bit version of JRockit, your installation is now complete. If your configuration includes the 32-bit version, however, you must also complete the following steps:

4. Set the BEA_HOME to point to the directory in which WebLogic Server is installed and export BEA_HOME. For example:

   ```
   export BEA_HOME=<your_WebLogic_Server_installation_directory>
   ```

5. In a text editor, open the $BEA_HOME/wlserver_10.0/common/bin/commEnv.sh and search for the following case statement:

   ```
   LINUX|Linux)
   arch='uname -m'
   ```

   Replace with the following:

   ```
   LINUX|Linux)
   arch='uname -m'
      if [ "${arch}" = "x86_64" ]; then
         arch=i686
      fi
   ```

CHAPTER 6

WebLogic Platform 10.0 on Novell SUSE Linux Enterprise Server 10

This section provides the following information:

- Configuration Requirements
- Known Issues
- Download and Installation Instructions
- Download & Apply BEA Patches

Related Information

- For information about supported database configurations, Web servers, browsers, interoperability tools, and product support, see:
  - *Supported Configurations for WebLogic Platform 10.0*
- For information about Novell SUSE Linux Enterprise Server®, visit the following Novell Web site: `http://www.novell.com`.

Configuration Requirements

The following section provides requirements for BEA products supported on this configuration:

- "Requirements for Novell SUSE Linux Enterprise Server 10 on x86" on page 6-2
- "Requirements for Novell SUSE Linux Enterprise Server 10 on 64-bit Xeon and AMD64 with 32-bit JDK" on page 6-3

- "Requirements for Novell SUSE Linux Enterprise Server 10 on 64-bit Xeon and AMD64 with 64-bit JDK" on page 6-4
- "Requirements for Novell SUSE Linux Enterprise Server 10 on Itanium" on page 6-4

Table 6-1 Requirements for Novell SUSE Linux Enterprise Server 10 on x86

Operating System Version and Patches	Novell SUSE Linux Enterprise Server (SLES) 10 with Kernel 2.6.16.21-0.8-bigsmp, glibc-2.4-31.5 and later SUSE service packs and errata
Chip Architecture and Minimum Processor Speed	x86 (1.2GHz)
JDK	• 10.0: JRockit 5.0 (R26.4.0 + CR302700) JDK (32-bit) and all later 5.0 releases of JRockit • 10.0 MP1: JRockit 5.0 (R27.3.1) JDK (32-bit) and all later 5.0 releases of JRockit • 10.0 MP2: JRockit 5.0 (R27.6.1) JDK (32-bit) and all later 5.0 releases of JRockit
	• 10.0: Sun Java 2 JDK 5.0 with the Java HotSpot™ Client and Server VMs (32-bit) and all later service packs of 5.0 (version 1.5.0_06) • 10.0 MP1: Sun Java 2 JDK 5.0 with the Java HotSpot™ Client and Server VMs (32-bit) and all later service packs of 5.0 (version 1.5.0_011) • 10.0 MP2: Sun Java 2 JDK 5.0 with the Java HotSpot™ Client and Server VMs (32-bit) and all later service packs of 5.0 (version 1.5.0_011)
RAM	1 GB minimum
Performance Pack	`server/native/linux/i686/libmuxer.so`
Product Support	• WebLogic Server 10.0 (includes MP1, MP2) • WebLogic Portal 10.0 (includes MP1) • Workshop for WebLogic 10.0 (includes MP1) (Runtime)

Table 6-2 Requirements for Novell SUSE Linux Enterprise Server 10 on 64-bit Xeon and AMD64 with 32-bit JDK

Operating System Version and Patches	SUSE Linux Enterprise Server (SLES) 10 with Kernel 2.6.16.21-0.8-bigsmp, glibc-2.4-31.5 and later SUSE service packs and errata
Chip Architecture and Minimum Processor Speed	• AMD64 (1.3 GHz) • 64-bit Xeon (1.3 GHz)
JDK	• 10.0: BEA JRockit 5.0 (R26.4.0 + CR302700) JDK (32-bit) and all later 5.0 releases of JRockit • 10.0 MP1: BEA JRockit 5.0 (R27.3.1) JDK (32-bit) and all later 5.0 releases of JRockit • 10.0 MP2: BEA JRockit 5.0 (R27.6.1) JDK (32-bit) and all later 5.0 releases of JRockit
	• 10.0: Sun Java 2 JDK 5.0 with the Java HotSpot™ Client and Server VMs (32-bit) and all later service packs of 5.0 (version 1.5.0_06) • 10.0 MP1: Sun Java 2 JDK 5.0 with the Java HotSpot™ Client and Server VMs (32-bit) and all later service packs of 5.0 (version 1.5.0_011) • 10.0 MP2: Sun Java 2 JDK 5.0 with the Java HotSpot™ Client and Server VMs (32-bit) and all later service packs of 5.0 (version 1.5.0_011)
RAM	1 GB minimum
Performance Pack	`server/native/linux/i686/libmuxer.so`
BEA Product Support	• WebLogic Server 10.0 (includes MP1, MP2) • WebLogic Portal 10.0 (includes MP1) • Workshop for WebLogic 10.0 (includes MP1) (Runtime)

Table 6-3 Requirements for Novell SUSE Linux Enterprise Server 10 on 64-bit Xeon and AMD64 with 64-bit JDK

Operating System Version and Patches	SUSE Linux Enterprise Server (SLES) 10 with Kernel 2.6.16.21-0.8-bigsmp, glibc-2.4-31.5 and later SUSE service packs and errata
Chip Architecture and Minimum Processor Speed	• AMD64 (1.3 GHz) • 64-bit Xeon (1.3 GHz)
JDK	• 10.0: JRockit 5.0 (R26.4.0 + CR302700) JDK (64-bit) and all later 5.0 releases of JRockit • 10.0 MP1: JRockit 5.0 (R27.3.1) JDK (64-bit) and all later 5.0 releases of JRockit • 10.0 MP2: JRockit 5.0 (R27.6.1) JDK (64-bit) and all later 5.0 releases of JRockit
RAM	1 GB minimum
Performance Pack	`server/native/linux/x86_64/libmuxer.so`
BEA Product Support	• WebLogic Server 10.0 (includes MP1, MP2) • WebLogic Portal 10.0 (includes MP1) • Workshop for WebLogic 10.0 (includes MP1) (Runtime)

Table 6-4 Requirements for Novell SUSE Linux Enterprise Server 10 on Itanium

Operating System Version and Patches	Novell SUSE Linux Enterprise Server 10 with Kernel 2.6.16.21-0.8-bigsmp, glibc-2.4-31.5 and later SUSE service packs and errata
Chip Architecture and Minimum Processor Speed	Itanium (1.3 GHz)

Table 6-4 Requirements for Novell SUSE Linux Enterprise Server 10 on Itanium

JDK	• 10.0: BEA JRockit 5.0 (R26.4.0 + CR302700) JDK (64-bit) and all later 5.0 releases of JRockit • 10.0 MP1: BEA JRockit 5.0 (R27.3.1) JDK (64-bit) and all later 5.0 releases of JRockit • 10.0 MP2: BEA JRockit 5.0 (R27.6.1) JDK (64-bit) and all later 5.0 releases of JRockit
RAM	1 GB minimum
Performance Pack	`server/native/linux/ia64/libmuxer.so`
Product Support	• WebLogic Server 10.0 (includes MP1, MP2) • WebLogic Portal 10.0 (includes MP1) • Workshop for WebLogic 10.0 (includes MP1) (Runtime)

Known Issues

- "Serial Version UID Mismatch" on page 6-5
- "Issues Related to Novell SUSE Linux Enterprise 10 on AMD64, 64-bit Xeon, and Itanium when Using Remote Autonomy" on page 6-6
- Issues Related to Novell SUSE Linux Enterprise 10 on AMD64 and 64-bit Xeon
- Issues Related to Other BEA Products

Serial Version UID Mismatch

A Serial Version UID Mismatch Issue may be encountered if you deploy an application on a latest JVM, but compiled with an earlier JDK release.

Workaround: To be compatible with the serialization of previously compiled applications, modify the `<BEA_HOME>/wlserver_10.0/common/bin/commEnv.sh` file to include the following command:

```
JAVA_OPTIONS="$JAVA_OPTIONS
-Dcom.sun.xml.namespace.QName.useCompatibleSerialVersionUID=1.0"
```

Or, you can use the command line option:

```
export JAVA_OPTIONS="$JAVA_OPTIONS
-Dcom.sun.xml.namespace.QName.useCompatibleSerialVersionUID=1.0"
```

Note: If you intend to deploy new applications with previously compiled applications, they must be recompiled as necessary to have the same Serial Version UID.

Issues Related to Novell SUSE Linux Enterprise 10 on AMD64, 64-bit Xeon, and Itanium when Using Remote Autonomy

See Using a Remote Autonomy Installation in *Supported Configurations for WebLogic Platform 10.0*.

Issues Related to Novell SUSE Linux Enterprise 10 on AMD64 and 64-bit Xeon

This section describes known issues that occur when you run WebLogic Server 10.0 on Novell SUSE Linux Enterprise 10 systems based on the AMD64 and 64-bit Xeon chip architecture.

JVM Stack Overflow

You might encounter a JVM stack overflow error or exception while running WebLogic Server on the Novell SUSE Linux Enterprise 10 on 64-bit Xeon configuration.

Workaround: Increase the stack size from the default 128k to 256k.

Exception Encountered on Systems with Mounted NFS File Systems

You might encounter the following exception while installing WebLogic Server on a system that has NFS file systems mounted:

```
"Caused by:  java.lang.IllegalArgumentException: Can not list file system
roots on this computer"
```

Workaround: Ensure that you have at least 600MB of free disk space before installing WebLogic Server and use the `-Dspace.detection=false` flag while installing. The installation command will look like:

```
java -Dspace.detection=false -jar server100_generic.jar -mode=console
```

Issues Related to Other BEA Products

For information about known issues with BEA products supported on this configuration, including available workarounds, see the appropriate *Release Notes* document.

Issues related to...	Are described in...
WebLogic Server	*WebLogic Server Known and Resolved Issues:* `http://e-docs.bea.com/wls/docs100/issues/known_resolved.html`
Installation and Configuration	*Products Installation and Configuration Release Notes*: `http://e-docs.bea.com/common/docs100/relnotes/relnotes.html`
WebLogic Portal	*WebLogic Portal Release Notes*: `http://e-docs.bea.com/wlp/docs100/relnotes/index.html`
Workshop for WebLogic	*Workshop for WebLogic Release Notes*: `http://e-docs.bea.com/wlw/docs100/relnotes/index.html`

Download and Installation Instructions

- "Download and Install JDK 5.0" on page 6-7
- "Download and Install Instructions for WebLogic 10.0 and Later MPs on Novell SUSE Linux Enterprise Server on x86" on page 6-8
- "Download and Install Instructions for WebLogic 10.0 and Later MPs on Novell SUSE Linux Enterprise Server on AMD64 and 64-bit Xeon" on page 6-9
- "Download and Install Instructions for WebLogic 10.0 and Later MPs on Novell SUSE Linux Enterprise Server on Itanium" on page 6-11

Download and Install JDK 5.0

Complete the following procedure:

1. Download the supported JDK for your environment.

   For Oracle JRockit downloads, go to `Oracle E-Delivery` or Oracle Technology Network. For additional information on JRockit, refer to JRockit FAQ.

2. Set the `JAVA_HOME` environment variable to the directory in which the JDK is installed and export `JAVA_HOME`. For example:

```
export JAVA_HOME=/opt/java5/
```

3. Make sure that your `PATH` variable includes `$JAVA_HOME/bin`. For example:

```
export PATH=$JAVA_HOME/bin:$PATH
```

Download and Install Instructions for WebLogic 10.0 and Later MPs on Novell SUSE Linux Enterprise Server on x86

Depending on your requirements:

- "Download and Install WebLogic Server 10.0 and Later MPs on Novell SUSE Linux Enterprise Server on x86" on page 6-8
- "Download and Install WebLogic Portal 10.0 and Later MPs on Novell SUSE Linux Enterprise Server on x86" on page 6-8

Download and Install WebLogic Server 10.0 and Later MPs on Novell SUSE Linux Enterprise Server on x86

1. Go to `Oracle E-Delivery` and use the following information to download WebLogic Server 10.0 MP2.
   a. Select Product Pack "Oracle BEA".
   b. Select platform "Linux x86".
   c. Select media pack "BEA WebLogic Media for Linux x86".
   d. Select the part number with the "WebLogic Server 10.0 Maintenance Pack 2 (10.0.2.0)" description for download.
2. Install the WebLogic Products using the directions provided in the BEA Products Installation Guide.

   Refer to http://e-docs.bea.com/common/docs100/install/start.html for instructions on how to start the `.jar` or `.bin` or `.exe` installer files. Note, that generic installers are those filenames that end in `.jar`.

Download and Install WebLogic Portal 10.0 and Later MPs on Novell SUSE Linux Enterprise Server on x86

To install WebLogic Portal on SUSE:

1. Go to Oracle Technology Network or Oracle E-Delivery and download WebLogic Portal for Red Hat Enterprise Linux.

   Note: For information on how to download BEA products refer to My Oracle Support Note 762254.1 and My Oracle Support Note 763603.1.

2. Install WebLogic Portal using the instructions provided in Using Installers with Filenames Ending in .bin in *Products Installation Guide*.

Download and Install Instructions for WebLogic 10.0 and Later MPs on Novell SUSE Linux Enterprise Server on AMD64 and 64-bit Xeon

Complete the following procedures:

1. "Download and Install JDK 5.0" on page 6-7
2. Depending on your requirements:

- "Download and Install WebLogic Server 10.0 and Later MPs on Novell SUSE Linux Enterprise Server on AMD64 and 64-bit Xeon" on page 6-9
- "Download and Install WebLogic Portal 10.0 and Later MPs on Novell SUSE Linux Enterprise Server on AMD64 and 64-bit Xeon" on page 6-10

3. For 64-Bit JRockit JDK, see "Download & Apply BEA Patches" on page 6-13.

Download and Install WebLogic Server 10.0 and Later MPs on Novell SUSE Linux Enterprise Server on AMD64 and 64-bit Xeon

To install WebLogic Server:

1. To download WebLogic Server 10.0 MP2, do the following:

   Go to Oracle E-Delivery and use the following information to download WebLogic Server 10.0 MP2:

   - Select Product Pack "Oracle BEA".
   - Select platform "Linux x86-64".
   - Select media pack "BEA WebLogic Media for Linux x86-64>"
   - Select the part number with the "WebLogic Server 10.0 Maintenance Pack 2 (10.0.2.0)" description for download

If you're downloading WebLogic Server 10.0 MP1, select the part number with the "WebLogic Server 10.0 MP 1" description..

Note: For additional information on how to download BEA products refer to My Oracle Support Note 762254.1 and My Oracle Support Note 763603.1.

2. Install the WebLogic Products using the directions provided in the BEA Products Installation Guide.

   Refer to http://e-docs.bea.com/common/docs100/install/start.html for instructions on how to start the `.jar` or `.bin` or `.exe` installer files. Note, that generic installers are those filenames that end in `.jar`.

   If your configuration includes the 64-bit version of JDK, your installation of WebLogic Server is now complete. If your configuration includes the 32-bit version, however, you must also complete the following steps:

3. Set the `BEA_HOME` to point to the directory in which WebLogic Server is installed and export `BEA_HOME`. For example:

   ```
   export BEA_HOME=<your_WebLogic_Server_installation_directory>
   ```

4. In a text editor, open the `$BEA_HOME/wlserver_10.0/common/bin/commEnv.sh` and search for the following case statement:

   ```
   LINUX|Linux)
   arch='uname -m'
   ```

   Replace with the following:

   ```
   LINUX|Linux)
   arch='uname -m'
      if [ "${arch}" = "x86_64" ]; then
         arch=i686
      fi
   ```

Download and Install WebLogic Portal 10.0 and Later MPs on Novell SUSE Linux Enterprise Server on AMD64 and 64-bit Xeon

To install WebLogic Portal:

1. Go to `Oracle Technology Network` or `Oracle E-Delivery` and download WebLogic Portal for Red Hat Enterprise Linux.

Note: For important information on how to download BEA products refer to My Oracle Support Note 762254.1 and My Oracle Support Note 763603.1.

2. Install WebLogic Portal using the instructions in Using Installers with Filenames Ending in .jar in the *Products Installation Guide*. This section describes the process of installing `.jar` files in the Graphical mode.

   If your configuration includes the 64-bit version of BEA JRockit, your installation of WebLogic Portal is now complete. If your configuration includes the 32-bit version, however, you must also complete the following steps:

3. Set the `BEA_HOME` to point to the directory in which WebLogic Server is installed and export `BEA_HOME`. For example:

   ```
   export BEA_HOME=<your_WebLogic_Server_installation_directory>
   ```

4. In a text editor, open the `$BEA_HOME/wlserver_10.0/common/bin/commEnv.sh` and search for the following case statement:

   ```
   LINUX|Linux)
   arch='uname -m'
   ```

   Replace with the following:

   ```
   LINUX|Linux)
   arch='uname -m'
      if [ "${arch}" = "x86_64" ]; then
         arch=i686
      fi
   ```

Download and Install Instructions for WebLogic 10.0 and Later MPs on Novell SUSE Linux Enterprise Server on Itanium

Complete the following procedures:

- "Download and Install WebLogic Server 10.0 and Later MPs on Novell SUSE Linux Enterprise Server on Itanium" on page 6-12
- "Download and Install WebLogic Portal 10.0 and Later MPs on Novell SUSE Linux Enterprise Server 10 on Itanium" on page 6-12

Download and Install WebLogic Server 10.0 and Later MPs on Novell SUSE Linux Enterprise Server on Itanium

1. To download WebLogic Server 10.0 MP2, do the following:

   Go to `Oracle E-Delivery` and use the following information to download WebLogic Server 10.0 MP2:

   - Select Product Pack “Oracle BEA”.
   - Select platform “Linux Itanium”.
   - Select media pack “BEA WebLogic Media for Linux Itanium>”
   - Select the part number with the “WebLogic Server 10.0 Maintenance Pack 2 (10.0.2.0)” description for download

   If you’re downloading WebLogic Server 10.0 MP1, select the part number with the “WebLogic Server 10.0 MP 1” description..

   Note: For additional information on how to download BEA products refer to My Oracle Support Note 762254.1 and My Oracle Support Note 763603.1.

2. Install the WebLogic Products using the directions provided in the BEA Products Installation Guide.

   Refer to http://e-docs.bea.com/common/docs100/install/start.html for instructions on how to start the `.jar` or `.bin` or `.exe` installer files. Note, that generic installers are those filenames that end in `.jar`.

3. “Download & Apply BEA Patches” on page 6-13 for WebLogic Server 10.0.

Download and Install WebLogic Portal 10.0 and Later MPs on Novell SUSE Linux Enterprise Server 10 on Itanium

To install on Itanium:

1. Go to `Oracle Technology Network` or `Oracle E-Delivery` and download WebLogic Portal for Red Hat Enterprise Linux.

   Note: For information on how to download BEA products refer to My Oracle Support Note 762254.1 and My Oracle Support Note 763603.1.

2. Install WebLogic Portal using the instructions provided in Using Installers with Filenames Ending in .bin in *Products Installation Guide*.

3. Install using the instructions in Using Installers with Filenames Ending in .bin in the BEA Products Installation Guide. This section describes the process of installing `.bin` files in the Graphical mode.
4. "Download & Apply BEA Patches" on page 6-13 for WebLogic Portal 10.0.

Download & Apply BEA Patches

Download and install the following patches using the BEA Smart Update tool:

WLS 10.0 and **WLP 10.0**

- Patch ID: `X91N` Passcode: `VPRA9TXJ` (for Itanium)
- Patch ID: `AZBH` Passcode: `TBVLUV55` (for AMD64 and 64-Bit Xeon using 64-bit JRockit JDK)

For more information on the BEA Smart Update tool, refer to http://e-docs.bea.com/common/docs100/smart_update/intro.html.

CHAPTER 7

WebLogic Platform 10.0 on Novell SUSE Linux Enterprise Server 9

This section provides the following information:

- Configuration Requirements
- Known Issues
- Download and Installation Instructions
- Download & Apply BEA Patches

Related Information

- For information about supported database configurations, Web servers, browsers, interoperability tools, and product support, see:
  - *Supported Configurations for WebLogic Platform 10.0*
- For information about Novell SUSE Linux Enterprise Server®, visit the following Novell Web site: `http://www.novell.com`.

Configuration Requirements

The following section provides requirements for BEA products supported on this configuration:

- "Requirements for Novell SUSE Linux Enterprise Server 9 on x86" on page 7-2
- "Requirements for Novell SUSE Linux Enterprise Server 9 on 64-bit Xeon and AMD64 with 32-bit JDK" on page 7-3

- "Requirements for Novell SUSE Linux Enterprise Server 9 on 64-bit Xeon and AMD64 with 64-bit JDK" on page 7-4
- "Requirements for Novell SUSE Linux Enterprise Server 9 on Itanium" on page 7-4

Table 7-1 Requirements for Novell SUSE Linux Enterprise Server 9 on x86

Operating System Version and Patches	Novell SUSE Linux Enterprise Server (SLES) 9 SP3 with Kernel 2.6.5-7.244-default, glibc-2.3.3-98.61 and later SUSE service packs and errata
Chip Architecture and Minimum Processor Speed	x86 (1.2GHz)
JDK	• 10.0: JRockit 5.0 (R26.4.0 + CR302700) JDK (32-bit) and all later 5.0 releases of JRockit • 10.0 MP1: JRockit 5.0 (R27.3.1) JDK (32-bit) and all later 5.0 releases of JRockit • 10.0 MP2: JRockit 5.0 (R27.6.1) JDK (32-bit) and all later 5.0 releases of JRockit
	• 10.0: Sun Java 2 JDK 5.0 with the Java HotSpot™ Client and Server VMs (32-bit) and all later service packs of 5.0 (version 1.5.0_06) • 10.0 MP1: Sun Java 2 JDK 5.0 with the Java HotSpot™ Client and Server VMs (32-bit) and all later service packs of 5.0 (version 1.5.0_011) • 10.0 MP2: Sun Java 2 JDK 5.0 with the Java HotSpot™ Client and Server VMs (32-bit) and all later service packs of 5.0 (version 1.5.0_011)
RAM	1 GB minimum
Performance Pack	`server/native/linux/i686/libmuxer.so`
Product Support	• WebLogic Server 10.0 (includes MP1, MP2) • WebLogic Portal 10.0 (includes MP1) • Workshop for WebLogic 10.0 (includes MP1) (Runtime)

Table 7-2 Requirements for Novell SUSE Linux Enterprise Server 9 on 64-bit Xeon and AMD64 with 32-bit JDK

Operating System Version and Patches	SUSE LINUX Enterprise Server 9 SP3 (x86_64) - Kernel 2.6.5-7.244-smp glibc-2.3.3-98.61 and later SUSE service packs and errata
Chip Architecture and Minimum Processor Speed	• AMD64 (1.3 GHz) • 64-bit Xeon (1.3 GHz)
JDK	• 10.0: JRockit 5.0 (R26.4.0 + CR302700) JDK (32-bit) and all later 5.0 releases of JRockit • 10.0 MP1: JRockit 5.0 (R27.3.1) JDK (32-bit) and all later 5.0 releases of JRockit • 10.0 MP2: JRockit 5.0 (R27.6.1) JDK (32-bit) and all later 5.0 releases of JRockit
	• 10.0: Sun Java 2 JDK 5.0 with the Java HotSpot™ Client and Server VMs (32-bit) and all later service packs of 5.0 (version 1.5.0_06) • 10.0 MP1: Sun Java 2 JDK 5.0 with the Java HotSpot™ Client and Server VMs (32-bit) and all later service packs of 5.0 (version 1.5.0_011) • 10.0 MP2: Sun Java 2 JDK 5.0 with the Java HotSpot™ Client and Server VMs (32-bit) and all later service packs of 5.0 (version 1.5.0_011)
RAM	1 GB minimum
Performance Pack	`server/native/linux/i686/libmuxer.so`
Product Support	• WebLogic Server 10.0 (includes MP1, MP2) • WebLogic Portal 10.0 (includes MP1) • Workshop for WebLogic 10.0 (includes MP1) (Runtime)

Table 7-3 Requirements for Novell SUSE Linux Enterprise Server 9 on 64-bit Xeon and AMD64 with 64-bit JDK

Operating System Version and Patches	SUSE LINUX Enterprise Server 9 SP3 (x86_64) - Kernel 2.6.5-7.244-smp glibc-2.3.3-98.61and later SUSE service packs and errata
Chip Architecture and Minimum Processor Speed	• AMD64 (1.3 GHz) • 64-bit Xeon (1.3 GHz)
JDK	• 10.0: JRockit 5.0 (R26.4.0 + CR302700) JDK (64-bit) and all later 5.0 releases of JRockit • 10.0 MP1: JRockit 5.0 (R27.3.1) JDK (64-bit) and all later 5.0 releases of JRockit • 10.0 MP2: JRockit 5.0 (R27.6.1) JDK (64-bit) and all later 5.0 releases of JRockit
RAM	1 GB minimum
Performance Pack	`server/native/linux/x86_64/libmuxer.so`
BEA Product Support	• WebLogic Server 10.0 (includes MP1, MP2) • WebLogic Portal 10.0 (includes MP1) • Workshop for WebLogic 10.0 (includes MP1) (Runtime)

Table 7-4 Requirements for Novell SUSE Linux Enterprise Server 9 on Itanium

Operating System Version and Patches	Novell SUSE Linux Enterprise Server 9 SP3 with Kernel 2.6.5-7.244 with glibc-2.3.3-98.61 and later SUSE service packs and errata
Chip Architecture and Minimum Processor Speed	Itanium (1.3 GHz)
JDK	• 10.0: BEA JRockit 5.0 (R26.4.0 + CR302700) JDK (64-bit) and all later 5.0 releases of JRockit • 10.0 MP1: BEA JRockit 5.0 (R27.3.1) JDK (64-bit) and all later 5.0 releases of JRockit • 10.0 MP2: BEA JRockit 5.0 (R27.6.1) JDK (64-bit) and all later 5.0 releases of JRockit

Table 7-4 Requirements for Novell SUSE Linux Enterprise Server 9 on Itanium

RAM	1 GB minimum
Performance Pack	`server/native/linux/ia64/libmuxer.so`
Product Support	• WebLogic Server 10.0 (includes MP1, MP2) • WebLogic Portal 10.0 (includes MP1) • Workshop for WebLogic 10.0 (includes MP1) (Runtime)

Known Issues

- "Serial Version UID Mismatch" on page 7-5
- Issues Related to Novell SUSE Linux Enterprise 9 on AMD64 and 64-bit Xeon
- Issues Related to Novell SUSE Linux Enterprise 9 on AMD64, 64-bit Xeon, and Itanium when Using Remote Autonomy
- Issues Related to Other BEA Products

Serial Version UID Mismatch

A Serial Version UID Mismatch Issue may be encountered if you deploy an application on a latest JVM, but compiled with an earlier JDK release.

Workaround: To be compatible with the serialization of previously compiled applications, modify the *<BEA_HOME>*`/wlserver_10.0/common/bin/commEnv.sh` file to include the following command:

```
JAVA_OPTIONS="$JAVA_OPTIONS
-Dcom.sun.xml.namespace.QName.useCompatibleSerialVersionUID=1.0"
```

Or, you can use the command line option:

```
export JAVA_OPTIONS="$JAVA_OPTIONS
-Dcom.sun.xml.namespace.QName.useCompatibleSerialVersionUID=1.0"
```

Note: If you intend to deploy new applications with previously compiled applications, they must be recompiled as necessary to have the same Serial Version UID.

Issues Related to Novell SUSE Linux Enterprise 9 on AMD64 and 64-bit Xeon

This section describes known issues that occur when you run WebLogic Server 10.0 and WebLogic Portal 10.0 on Novell SUSE Linux Enterprise 9 systems based on the AMD64 and 64-bit Xeon chip architecture.

JVM Stack Overflow

You might encounter a JVM stack overflow error or exception while running WebLogic Server on the Novell SUSE Linux Enterprise 9 on 64-bit Xeon configuration.

Workaround: Increase the stack size from the default 128k to 256k.

Exception Encountered on Systems with Mounted NFS File Systems

You might encounter the following exception while installing WebLogic Server and WebLogic Portal on a system that has NFS file systems mounted:

```
"Caused by:  java.lang.IllegalArgumentException: Can not list file system
roots on this computer"
```

Workaround: Ensure that you have at least 600MB of free disk space before installing WebLogic Server and use the `-Dspace.detection=false` flag while installing. For example:

```
java -Dspace.detection=false -jar server100_generic.jar -mode=console
```

Issues Related to Novell SUSE Linux Enterprise 9 on AMD64, 64-bit Xeon, and Itanium when Using Remote Autonomy

See Using a Remote Autonomy Installation in *Supported Configurations for WebLogic Platform 10.0*.

Issues Related to Other BEA Products

For information about known issues with BEA products supported on this configuration, including available workarounds, see the appropriate *Release Notes* document.

Issues related to...	Are described in...
WebLogic Server	*WebLogic Server Known and Resolved Issues:* `http://e-docs.bea.com/wls/docs100/issues/known_resolved.html`
Installation and Configuration	*Products Installation and Configuration Release Notes*: `http://e-docs.bea.com/common/docs100/relnotes/relnotes.html`
WebLogic Portal	*WebLogic Portal Release Notes*: `http://e-docs.bea.com/wlp/docs100/relnotes/index.html`
Workshop for WebLogic	*Workshop for WebLogic Release Notes*: `http://e-docs.bea.com/wlw/docs100/relnotes/index.html`

Download and Installation Instructions

- "Download and Install JDK 5.0" on page 7-7
- "Download and Install Instructions for WebLogic 10.0 and Later MPs on Novell SUSE Linux Enterprise Server on x86" on page 7-8
- "Download and Install Instructions for WebLogic 10.0 and Later MPs on Novell SUSE Linux Enterprise Server on AMD64 and 64-bit Xeon" on page 7-9
- "Download and Install Instructions for WebLogic 10.0 and Later MPs on Novell SUSE Linux Enterprise Server on Itanium" on page 7-11

Download and Install JDK 5.0

Complete the following procedure:

1. Download the supported JDK for your environment.

   Note: JRockit 5.0 R26.4.0 on SLES 9 requires glibc update. See Summary of Supported Configurations by Release for R26.4.0 in *BEA JRockit 5.0 Supported Configurations*.

   For Oracle JRockit downloads, go to `Oracle E-Delivery` or Oracle Technology Network. For additional information on JRockit, refer to JRockit FAQ.

2. Set the `JAVA_HOME` environment variable to the directory in which the JDK is installed and export `JAVA_HOME`. For example:

   ```
   export JAVA_HOME=/opt/java5/
   ```

3. Make sure that your `PATH` variable includes `$JAVA_HOME/bin`. For example:

   ```
   export PATH=$JAVA_HOME/bin:$PATH
   ```

Download and Install Instructions for WebLogic 10.0 and Later MPs on Novell SUSE Linux Enterprise Server on x86

Depending on your requirements:

- "Download and Install WebLogic Server 10.0 and Later MPs on Novell SUSE Linux Enterprise Server on x86" on page 7-8
- "Download and Install WebLogic Portal 10.0 and Later MPs on Novell SUSE Linux Enterprise Server on x86" on page 7-9

Download and Install WebLogic Server 10.0 and Later MPs on Novell SUSE Linux Enterprise Server on x86

1. Go to `Oracle E-Delivery` and use the following information to download WebLogic Server 10.0 MP2.

   a. Select Product Pack "Oracle BEA".

   b. Select platform "Linux x86".

   c. Select media pack "BEA WebLogic Media for Linux x86".

   d. Select the part number with the "WebLogic Server 10.0 Maintenance Pack 2 (10.0.2.0)" description for download.

2. Install the WebLogic Products using the directions provided in the BEA Products Installation Guide.

   Refer to http://e-docs.bea.com/common/docs100/install/start.html for instructions on how to start the `.jar` or `.bin` or `.exe` installer files. Note, that generic installers are those filenames that end in `.jar`.

Download and Install WebLogic Portal 10.0 and Later MPs on Novell SUSE Linux Enterprise Server on x86

1. Go to the BEA download site at `http://commerce.bea.com/showallversions.jsp?family=WLPORTAL`.
2. Select `Novell SuSE Linux Enterprise Server (9, 10, x86)` from the list of OS Platforms for your configuration.
3. Download the package installer `.bin` file.
4. Install using the installation procedure provided at: http://e-docs.bea.com/common/docs100/install/start.html. This section describes how to install `.bin` files using Graphical mode.

Download and Install Instructions for WebLogic 10.0 and Later MPs on Novell SUSE Linux Enterprise Server on AMD64 and 64-bit Xeon

Complete the following procedures:

1. "Download and Install JDK 5.0" on page 7-7
2. Depending on your requirements:

- "Download and Install WebLogic Server 10.0 and Later MPs on Novell SUSE Linux Enterprise Server on AMD64 and 64-bit Xeon" on page 7-9
- "Download and Install WebLogic Portal 10.0 and Later MPs on Novell SUSE Linux Enterprise Server on AMD64 and 64-bit Xeon" on page 7-11

3. For 64-Bit JRockit JDK, see "Download & Apply BEA Patches" on page 7-13.

Download and Install WebLogic Server 10.0 and Later MPs on Novell SUSE Linux Enterprise Server on AMD64 and 64-bit Xeon

To install WebLogic Server:

1. To download WebLogic Server 10.0 MP2, do the following:

   Go to `Oracle E-Delivery` and use the following information to download WebLogic Server 10.0 MP2:

   - Select Product Pack "Oracle BEA".

- Select platform “Linux x86-64”.
- Select media pack “BEA WebLogic Media for Linux x86-64>”
- Select the part number with the “WebLogic Server 10.0 Maintenance Pack 2 (10.0.2.0)” description for download

If you’re downloading WebLogic Server 10.0 MP1, select the part number with the “WebLogic Server 10.0 MP 1” description..

Note: For additional information on how to download BEA products refer to My Oracle Support Note 762254.1 and My Oracle Support Note 763603.1.

2. Install the WebLogic Products using the directions provided in the BEA Products Installation Guide.

   Refer to http://e-docs.bea.com/common/docs100/install/start.html for instructions on how to start the `.jar` or `.bin` or `.exe` installer files. Note, that generic installers are those filenames that end in `.jar`.

   If your configuration includes the 64-bit version of JDK, your installation of WebLogic Server is now complete. If your configuration includes the 32-bit version, however, you must also complete the following steps:

3. Set the `BEA_HOME` to point to the directory in which WebLogic Server is installed and export `BEA_HOME`. For example:

   ```
   export BEA_HOME=<your_WebLogic_Server_installation_directory>
   ```

4. In a text editor, open the `$BEA_HOME/wlserver_10.0/common/bin/commEnv.sh` and search for the following case statement:

   ```
   LINUX|Linux)
   arch='uname -m'
   ```

   Replace with the following:

   ```
   LINUX|Linux)
   arch='uname -m'
      if [ "${arch}" = "x86_64" ]; then
         arch=i686
      fi
   ```

Download and Install WebLogic Portal 10.0 and Later MPs on Novell SUSE Linux Enterprise Server on AMD64 and 64-bit Xeon

To install WebLogic Server:

1. Go to Oracle Technology Network or Oracle E-Delivery and download WebLogic Portal for Red Hat Enterprise Linux.

   Note: For important information on how to download BEA products refer to My Oracle Support Note 762254.1 and My Oracle Support Note 763603.1.

2. Install using the instructions provided in the "Using Installers with Filenames Ending in .jar" section of the *BEA Product Installation Guide*.

   If your configuration includes the 64-bit version of the JDK, your installation of WebLogic Server is now complete. If your configuration includes the 32-bit version, however, you must also complete the following steps:

3. Set the `BEA_HOME` to point to the directory in which WebLogic Server is installed and export `BEA_HOME`. For example:

   ```
   export BEA_HOME=<your_WebLogic_Server_installation_directory>
   ```

4. In a text editor, open the `$BEA_HOME/wlserver_10.0/common/bin/commEnv.sh` and search for the following case statement:

   ```
   LINUX|Linux)
   arch='uname -m'
   ```

   Replace with the following:

   ```
   LINUX|Linux)
   arch='uname -m'
      if [ "${arch}" = "x86_64" ]; then
         arch=i686
      fi
   ```

Download and Install Instructions for WebLogic 10.0 and Later MPs on Novell SUSE Linux Enterprise Server on Itanium

Complete the following procedures:

- "Download and Install WebLogic Server 10.0 and Later MPs on Novell SUSE Linux Enterprise Server on Itanium" on page 7-12

- "Download and Install WebLogic Portal 10.0 and Later MPs on Novell SUSE Linux Enterprise Server 9 on Itanium" on page 7-12

Download and Install WebLogic Server 10.0 and Later MPs on Novell SUSE Linux Enterprise Server on Itanium

1. To download WebLogic Server 10.0 MP2, do the following:

   Go to `Oracle E-Delivery` and use the following information to download WebLogic Server 10.0 MP2:

   - Select Product Pack "Oracle BEA".
   - Select platform "Linux Itanium".
   - Select media pack "BEA WebLogic Media for Linux Itanium>"
   - Select the part number with the "WebLogic Server 10.0 Maintenance Pack 2 (10.0.2.0)" description for download

   If you're downloading WebLogic Server 10.0 MP1, select the part number with the "WebLogic Server 10.0 MP 1" description..

   Note: For additional information on how to download BEA products refer to My Oracle Support Note 762254.1 and My Oracle Support Note 763603.1.

2. Install the WebLogic Products using the directions provided in the BEA Products Installation Guide.

   Refer to http://e-docs.bea.com/common/docs100/install/start.html for instructions on how to start the `.jar` or `.bin` or `.exe` installer files. Note, that generic installers are those filenames that end in `.jar`.

3. "Download & Apply BEA Patches" on page 7-13 for WebLogic Server 10.0.

Download and Install WebLogic Portal 10.0 and Later MPs on Novell SUSE Linux Enterprise Server 9 on Itanium

To install on Itanium:

1. Go to `Oracle Technology Network` or `Oracle E-Delivery` and download WebLogic Portal for Red Hat Enterprise Linux.

   Note: For information on how to download BEA products refer to My Oracle Support Note 762254.1 and My Oracle Support Note 763603.1.

2. Install using the instructions in Using Installers with Filenames Ending in .bin in the BEA Products Installation Guide. This section describes the process of installing `.bin` files in the Graphical mode.
3. "Download & Apply BEA Patches" on page 7-13 for WebLogic Portal 10.0.

Download & Apply BEA Patches

Download and install the following patches using the BEA Smart Update tool:

WLS 10.0 and **WLP 10.0**

- Patch ID: `X91N` Passcode: `VPRA9TXJ` (for Itanium)
- Patch ID: `AZBH` Passcode: `TBVLUV55` (for AMD64 and 64-Bit Xeon using 64-bit JRockit JDK)

For more information on the BEA Smart Update tool, refer to http://e-docs.bea.com/common/docs100/smart_update/intro.html.

CHAPTER 8

BEA WebLogic Platform 9.2 and AquaLogic Service Bus on Novell SUSE Linux Enterprise Server 10

This section provides the following information:

- Configuration Requirements
- Known Issues
- Download and Installation Instructions

Related Information

- For information about supported database configurations, Web servers, browsers, interoperability tools, and product support, see:
  - *Supported Configurations for WebLogic Platform 9.2*
  - *AquaLogic Service Bus 2.6 Supported Configurations*
- For information about Novell SUSE Linux Enterprise Server®, visit the following Novell Web site: `http://www.novell.com`.

Configuration Requirements

The following section provides requirements for Oracle products supported on this configuration:

- "Requirements for Novell SUSE Linux Enterprise Server 10 on x86" on page 8-2
- "Requirements for Novell SUSE Linux Enterprise Server 10 on 64-bit Xeon and AMD64 with 32-bit JDK" on page 8-3

- "Requirements for Novell SUSE Linux Enterprise Server 10 on 64-bit Xeon and AMD64 with 64-bit JDK" on page 8-4
- "Requirements for Novell SUSE Linux Enterprise Server 10 on Itanium" on page 8-5

Table 8-1 Requirements for Novell SUSE Linux Enterprise Server 10 on x86

Operating System Version and Patches	WebLogic 9.2 MP1, 9.2 MP2, 9.2 MP3: • Novell SUSE Linux Enterprise Server (SLES) 10 with Kernel 2.6.16.21-0.8-bigsmp, glibc-2.4-31.5 and later SUSE service packs and errata WebLogic 9.2 MP4: • Novell SUSE Linux Enterprise Server (SLES) 10 (SP1+)
Chip Architecture and Minimum Processor Speed	x86 (1.2GHz)
JDK	• 9.2: JRockit 5.0 R26.4 JDK (32 bit) and all later 5.0 releases of JRockit • 9.2 MP1: JRockit 5.0 (R26.4.0 + CR302700) JDK (32-bit) and all later 5.0 releases of JRockit • 9.2 MP2: JRockit 5.0 (R27.2.0-131) JDK (32-bit) and all later 5.0 releases of JRockit • 9.2 MP3: JRockit 5.0 (R27.4) JDK (32-bit) and all later 5.0 releases of JRockit • 9.2 MP4: JRockit 5.0 (R27.6.6+) JDK (32-bit) and all later 5.0 releases of JRockit
RAM	1 GB minimum
Performance Pack	`server/native/linux/i686/libmuxer.so`
Product Support	• WebLogic Server 9.2, 9.2 MP1, 9.2 MP2, 9.2 MP3, 9.2 MP4 • WebLogic Integration 9.2, 9.2 MP1, 9.2 MP2, 9.2 MP3 • AquaLogic Service Bus 2.6 on WLS 9.2 MP1 • AquaLogic Service Bus 2.6 RP1 on WLS 9.2 MP2
Design and Development Tools	• Workshop for WebLogic Platform 9.2 and later MPs: Not supported • AquaLogic Service Bus 2.6 Data Transformation Tools on WebLogic Server 9.2: Not supported

Table 8-2 Requirements for Novell SUSE Linux Enterprise Server 10 on 64-bit Xeon and AMD64 with 32-bit JDK

Operating System Version and Patches	WebLogic 9.2, 9.2 MP1, 9.2 MP2, 9.2 MP3 • SUSE Linux Enterprise Server (SLES) 10 with Kernel 2.6.16.21-0.8-bigsmp, glibc-2.4-31.5 and later SUSE service packs and errata WebLogic 9.2 MP4: • SUSE Linux Enterprise Server (SLES) 10 (SP1+)
Chip Architecture and Minimum Processor Speed	• AMD64 (1.3 GHz) • 64-bit Xeon (1.3 GHz)
JDK	• 9.2: Jrockit 5.0 R26.4.0 JDK (32-bit) and all later 5.0 releases of JRockit • 9.2 MP1: JRockit 5.0 (R26.4.0 + CR302700) JDK (32-bit) and all later 5.0 releases of JRockit • 9.2 MP2: JRockit 5.0 (R27.2.0-131) JDK (32-bit) and all later 5.0 releases of JRockit • 9.2 MP3: JRockit 5.0 (R27.4) JDK (32-bit) and all later 5.0 releases of JRockit • 9.2 MP4: JRockit 5.0 (R27.6.6+) JDK (32-bit) and all later 5.0 releases of JRockit
RAM	1 GB minimum
Performance Pack	`server/native/linux/i686/libmuxer.so`
Product Support	• WebLogic Server 9.2, 9.2 MP1, 9.2 MP2, 9.2 MP3, 9.2 MP4 • WebLogic Integration 9.2, 9.2 MP1, 9.2 MP2, 9.2 MP3 • AquaLogic Service Bus 2.6 on WLS 9.2 MP1 • AquaLogic Service Bus 2.6 RP1 on WLS 9.2 MP2
Design and Development Tools	• Workshop for WebLogic Platform 9.2 and later MPs: Not supported • Integration IDE for WebLogic Platform 9.2 and later MPs: Not Supported • AquaLogic Service Bus 2.6 Data Transformation Tools on WebLogic Server 9.2: Not supported

Table 8-3 Requirements for Novell SUSE Linux Enterprise Server 10 on 64-bit Xeon and AMD64 with 64-bit JDK

Operating System Version and Patches	WebLogic 9.2, 9.2 MP1, 9.2 MP2, 9.2 MP3: • SUSE Linux Enterprise Server (SLES) 10 with Kernel 2.6.16.21-0.8-bigsmp, glibc-2.4-31.5 and later SUSE service packs and errata WebLogic 9.2 MP4: • SUSE Linux Enterprise Server (SLES) 10 (SP1+)
Chip Architecture and Minimum Processor Speed	• AMD64 (1.3 GHz) • 64-bit Xeon (1.3 GHz)
JDK	• 9.2: Jrockit 5.0 R26.4.0 JDK (64-bit) and all later 5.0 releases of JRockit • 9.2 MP1: JRockit 5.0 (R26.4.0 + CR302700) JDK (64-bit) and all later 5.0 releases of JRockit • 9.2 MP2: JRockit 5.0 (R27.2.0-131) JDK (64-bit) and all later 5.0 releases of JRockit • 9.2 MP3: JRockit 5.0 (R27.4) JDK (64-bit) and all later 5.0 releases of JRockit • 9.2 MP4: JRockit 5.0 (R27.6.6+) JDK (64-bit) and all later 5.0 releases of JRockit
RAM	1 GB minimum
Performance Pack	`server/native/linux/x86_64/libmuxer.so`
Product Support	WebLogic Server 9.2, 9.2 MP1, 9.2 MP2, 9.2 MP3, 9.2 MP4
Design and Development Tools	Workshop for WebLogic Platform 9.2 and later MPs: Not supported

Table 8-4 Requirements for Novell SUSE Linux Enterprise Server 10 on Itanium

Operating System Version and Patches	WebLogic 9.2, 9.2 MP1, 9.2 MP2, 9.2 MP3 • SUSE Linux Enterprise Server (SLES) 10 with Kernel 2.6.16.21-0.8-bigsmp, glibc-2.4-31.5 and later SUSE service packs and errata WebLogic 9.2 MP4 • SUSE Linux Enterprise Server (SLES) 10 (SP1+)
Chip Architecture and Minimum Processor Speed	Itanium (1.3 GHz)
JDK	• 9.2: Jrockit 5.0 R26.4.0 JDK (64-bit) and all later 5.0 releases of JRockit • 9.2 MP1: JRockit 5.0 (R26.4.0 + CR302700) JDK (64-bit) and all later 5.0 releases of JRockit • 9.2 MP2: JRockit 5.0 (R27.2.0-131) JDK (64-bit) and all later 5.0 releases of JRockit • 9.2 MP3: JRockit 5.0 (R27.4) JDK (64-bit) and all later 5.0 releases of JRockit • 9.2 MP4: JRockit 5.0 (R27.6.6+) JDK (64-bit) and all later 5.0 releases of JRockit
RAM	1 GB minimum
Performance Pack	`server/native/linux/ia64/libmuxer.so`
Product Support	• WebLogic Server 9.2, 9.2 MP1, 9.2 MP2, 9.2 MP3, 9.2 MP4 • WebLogic Integration 9.2, 9.2 MP1, 9.2 MP2, 9.2 MP3
Design and Development Tools	• Workshop for WebLogic Platform 9.2 and later MPs: Not supported • Integration IDE for WebLogic Platform 9.2 and later MPs: Not Supported

Known Issues

- Serial Version UID Mismatch
- Issues Related to Novell SUSE Linux Enterprise 10 on AMD64 and 64-bit Xeon

- Issues Related to Other BEA Products

Serial Version UID Mismatch

A Serial Version UID Mismatch Issue may be encountered if you deploy an application on a latest JVM, but compiled with an earlier JDK release.

Workaround: To be compatible with the serialization of previously compiled applications, modify the `<BEA_HOME>/Weblogic92/common/bin/commEnv.sh` file to include the following command:

```
JAVA_OPTIONS="$JAVA_OPTIONS -Dcom.sun.xml.namespace.QName.useCompatible
SerialVersionUID=1.0"
```

Note: If you intend to deploy new applications with previously compiled applications, they must be recompiled as necessary to have the same Serial Version UID.

Issues Related to Novell SUSE Linux Enterprise 10 on AMD64 and 64-bit Xeon

This section describes known issues that occur when you run WebLogic Server 9.2 on Novell SUSE Linux Enterprise 10 systems based on the AMD64 and 64-bit Xeon chip architecture.

JVM Stack Overflow

You might encounter a JVM stack overflow error or exception while running WebLogic Server on the Novell SUSE Linux Enterprise 10 on 64-bit Xeon configuration.

Workaround: Increase the stack size from the default 128k to 256k.

Exception Encountered on Systems with Mounted NFS File Systems

You might encounter the following exception while installing WebLogic Server on a system that has NFS file systems mounted:

```
"Caused by:  java.lang.IllegalArgumentException: Can not list file system
roots on this computer"
```

Workaround: Ensure that you have at least 600MB of free disk space before installing WebLogic Server and use the `-Dspace.detection=false` flag while installing. The installation command will look like:

```
java -Dspace.detection=false -jar server920_generic.jar -mode=console
```

Issues Related to Other BEA Products

For information about known issues with BEA products supported on this configuration, including available workarounds, see the appropriate *Release Notes* document.

Issues related to...	Are described in...
WebLogic Server	*Oracle WebLogic Server Release Notes, Release 9.2 MP4 (9.2.4):* Refer to Document ID **1125333.1** at `https://support.oracle.com` *Oracle WebLogic Server 9.2 Known and Resolved Issues:* `http://edocs.bea.com/wls/docs92/issues/known_resolved.html`

Download and Installation Instructions

- "Novell SUSE Linux Enterprise Server on x86" on page 8-7
- "Novell SUSE Linux Enterprise Server on AMD64 and 64-bit Xeon" on page 8-9
- "Novell SUSE Linux Enterprise Server on Itanium" on page 8-14

Novell SUSE Linux Enterprise Server on x86

Depending on your requirements:

- "Download and Install BEA JRockit 5.0 R26.4 for x86" on page 8-7
- "Download and Install WebLogic Server 9.2 and Later MPs on Novell SUSE Linux Enterprise Server on x86" on page 8-8
- "Download and Install WebLogic Integration 9.2 MP1 and Later MPs on Novell SUSE Linux Enterprise Server 9 on x86" on page 8-9
- "Download and Install AquaLogic Service Bus on Novell SUSE Linux Enterprise Server 10 on x86" on page 8-9

Download and Install BEA JRockit 5.0 R26.4 for x86

BEA JRockit 5.0 R26.4 on SLES 10 requires glibc update. See Summary of Supported Configurations by Release for JRockit 5.0 R26.4.0 in *BEA JRockit 5.0 Supported Configurations*.

1. Go to Oracle Technology Network or Oracle E-Delivery and download and install the JRockit 5.0 R26 JDK Linux (x86 - 32 bit).

   Note: For important information about how to download BEA products refer to *BEA Product Download Changes* (Document ID **762254.1** and **763603.1**) at https://support.oracle.com/.

   Note: The BEA Download Center (i.e. http://commerce.bea.com) will be decommissioned on February 2, 2009. After this time, customers will be able to download the BEA software from Oracle's E-delivery portal (http://edelivery.oracle.com) or Oracle Technology Network (http://otn.oracle.com).

2. Update the JAVA_HOME environment variable to reflect the JDK installation directory. For example:

   ```
   export JAVA_HOME=<JRockit_installation _directory>
   ```

3. Add your Java executables to the PATH environment variable:

   ```
   export PATH=$JAVA_HOME/bin:$PATH
   ```

Download and Install WebLogic Server 9.2 and Later MPs on Novell SUSE Linux Enterprise Server on x86

1. Go to Oracle E-Delivery and use the following information to download WebLogic Server 9.2 Maintenance Packs:

   a. Select Product Pack "Oracle BEA".

   b. Select the operating system.

   c. Select the appropriate media pack for the BEA WebLogic product that you want to download. For example, if you want to download WebLogic Server for Microsoft Windows (32-bit), select the media pack "BEA WebLogic Media Pack for Microsoft Windows (32-bit)".

   d. Select the part number for the WebLogic Server 9.2 Maintenance Pack and download the zip file. For example, select the part number corresponding to the description "WebLogic Server 9.2 MP4 for Microsoft Windows (32-bit)" and download the zip file.

   e. Extract files from the downloaded zip file.

      Note: For important information about how to download BEA products refer to *BEA Product Download Changes* (Document ID **762254.1** and **763603.1**) at https://support.oracle.com/.

2. Install WebLogic Server using the instructions in http://e-docs.bea.com/common/docs92/install/start.html. This section describes the process of installing .jar files in the Graphical mode.

Download and Install WebLogic Integration 9.2 MP1 and Later MPs on Novell SUSE Linux Enterprise Server 9 on x86

To install WebLogic Integration 9.2 for SLES 10 on x86:

1. Go to the Oracle E-Delivery and download the product zip file.

   Note: For important information about how to download BEA products refer to *BEA Product Download Changes* (Document ID **762254.1** and **763603.1**) at https://support.oracle.com/.

2. Install WebLogic Integration using the instructions in http://e-docs.bea.com/common/docs92/install/start.html. This section describes the process of installing .jar files in the Graphical mode.

Download and Install AquaLogic Service Bus on Novell SUSE Linux Enterprise Server 10 on x86

To install the BEA AquaLogic Service Bus on Novell SUSE Linux Enterprise Server 10 on x86:

1. Go to the download site at Oracle E-Delivery.

   Note: For important information about how to download BEA products refer to *BEA Product Download Changes* (Document ID **762254.1** and **763603.1**) at https://support.oracle.com/.

2. Install AquaLogic Service Bus using the instructions in http://e-docs.bea.com/common/docs92/install/start.html. This section describes the process of installing .jar files in the Graphical mode.

Novell SUSE Linux Enterprise Server on AMD64 and 64-bit Xeon

Complete the following procedures:

1. Depending on your hardware requirements:

- "Download and Install BEA JRockit 5.0 R26.4 for x86 (32 bit)" on page 8-10 or

- "Download and Install BEA JRockit 5.0 R26.4 for AMD64 and 64-bit Xeon (64 bit)" on page 8-10

2. Depending on your requirements:

- "Download and Install WebLogic Server 9.2 and Later MPs on Novell SUSE Linux Enterprise Server on AMD64 and 64-bit Xeon" on page 8-11
- "Download and Install WebLogic Integration 9.2 and Later MPs on Novell SUSE Linux Enterprise Server on AMD64 and 64-bit Xeon" on page 8-12
- "Download and Install AquaLogic Service Bus on Novell SUSE Linux Enterprise Server 10 on AMD64 and 64-bit Xeon" on page 8-13

Download and Install BEA JRockit 5.0 R26.4 for x86 (32 bit)

BEA Jrockit 5.0 R26.4 on SLES 10 requires glibc update. See Summary of Supported Configurations by Release for 5.0 R26.4.0 in *BEA JRockit 5.0 Supported Configurations*.

1. Go to `Oracle Technology Network` or `Oracle E-Delivery` and download and install the `JRockit 5.0 R26 JDK Linux (x86 - 32 bit)`.

   Note: For important information about how to download BEA products refer to *BEA Product Download Changes* (Document ID **762254.1** and **763603.1**) at `https://support.oracle.com/`.

   Note: The BEA Download Center (i.e. http://commerce.bea.com) will be decommissioned on February 2, 2009. After this time, customers will be able to download the BEA software from Oracle's E-delivery portal (http://edelivery.oracle.com) or Oracle Technology Network (http://otn.oracle.com).

2. Update the `JAVA_HOME` environment variable to reflect the JDK installation directory. For example:

   ```
   export JAVA_HOME=<JRockit_installation _directory>
   ```

3. Add your Java executables to the `PATH` environment variable:

   ```
   export PATH=$JAVA_HOME/bin:$PATH
   ```

Download and Install BEA JRockit 5.0 R26.4 for AMD64 and 64-bit Xeon (64 bit)

BEA Jrockit 5.0 R26.4 on SLES 10 requires glibc update. See Summary of Supported Configurations by Release for 5.0 R26.4.0 in *BEA JRockit 5.0 Supported Configurations*.

1. Go to Oracle Technology Network or Oracle E-Delivery and download and install the Rockit 5.0 R26 JDK Linux (Intel EM64T & AMD64 - 64 bit).

   Note: For important information about how to download BEA products refer to *BEA Product Download Changes* (Document ID **762254.1** and **763603.1**) at https://support.oracle.com/.

   Note: The BEA Download Center (i.e. http://commerce.bea.com) will be decommissioned on February 2, 2009. After this time, customers will be able to download the BEA software from Oracle's E-delivery portal (http://edelivery.oracle.com) or Oracle Technology Network (http://otn.oracle.com).

2. Update the JAVA_HOME environment variable to reflect the JDK installation directory. For example:

   ```
   export JAVA_HOME=<JRockit_installation _directory>
   ```

3. Add your Java executables to the PATH environment variable:

   ```
   export PATH=$JAVA_HOME/bin:$PATH
   ```

Download and Install WebLogic Server 9.2 and Later MPs on Novell SUSE Linux Enterprise Server on AMD64 and 64-bit Xeon

To install WebLogic Server:

1. Go to Oracle E-Delivery and use the following information to download WebLogic Server 9.2 Maintenance Packs:

   a. Select Product Pack "Oracle BEA".

   b. Select the operating system.

   c. Select the appropriate media pack for the BEA WebLogic product that you want to download. For example, if you want to download WebLogic Server for Microsoft Windows (32-bit), select the media pack "BEA WebLogic Media Pack for Microsoft Windows (32-bit)".

   d. Select the part number for the WebLogic Server 9.2 Maintenance Pack and download the zip file. For example, select the part number corresponding to the description "WebLogic Server 9.2 MP4 for Microsoft Windows (32-bit)" and download the zip file.

   e. Extract files from the downloaded zip file.

Note: For important information about how to download BEA products refer to *BEA Product Download Changes* (Document ID **762254.1** and **763603.1**) at https://support.oracle.com/.

2. Install WebLogic Server using the instructions in http://e-docs.bea.com/common/docs92/install/start.html. This section describes the process of installing .jar files in the Graphical mode.

   If your configuration includes the 64-bit version of BEA JRockit, your installation of WebLogic Server is now complete. If your configuration includes the 32-bit version, however, you must also complete the following steps:

3. Set the `BEA_HOME` to point to the directory in which WebLogic Server is installed and export `BEA_HOME`. For example:

   ```
   export BEA_HOME=<your_WebLogic_Server_installation_directory>
   ```

4. In a text editor, open the `$BEA_HOME/weblogic92/common/bin/commEnv.sh` and search for the following case statement:

   ```
   LINUX|Linux)
   arch='uname -m'
   ```

   Replace with the following:

   ```
   LINUX|Linux)
   arch='uname -m'
      if [ "${arch}" = "x86_64" ]; then
         arch=i686
      fi
   ```

Download and Install WebLogic Integration 9.2 and Later MPs on Novell SUSE Linux Enterprise Server on AMD64 and 64-bit Xeon

To install WebLogic Integration:

1. Go to Oracle E-Delivery and download WebLogic Integration:

   Note: For important information about how to download BEA products refer to *BEA Product Download Changes* (Document ID **762254.1** and **763603.1**) at https://support.oracle.com/.

2. Install WebLogic Integration using the instructions in http://e-docs.bea.com/common/docs92/install/start.html. This section describes the process of installing .jar files in the Graphical mode.
3. Set the BEA_HOME to point to the directory in which WebLogic Server is installed and export BEA_HOME. For example:

   ```
   export BEA_HOME=<your_WebLogic_Server_installation_directory>
   ```

4. In a text editor, open the $BEA_HOME/weblogic92/common/bin/commEnv.sh and search for the following case statement:

   ```
   LINUX|Linux)
   arch='uname -m'
   ```

   Replace with the following:

   ```
   LINUX|Linux)
   arch='uname -m'
      if [ "${arch}" = "x86_64" ]; then
         arch=i686
      fi
   ```

Download and Install AquaLogic Service Bus on Novell SUSE Linux Enterprise Server 10 on AMD64 and 64-bit Xeon

To install the BEA AquaLogic Service Bus on Novell SUSE Linux Enterprise Server 10 on AMD64 and 64-bit Xeon:

1. Go to Oracle E-Delivery and download AquaLogic Service Bus:

   Note: For important information about how to download BEA products refer to *BEA Product Download Changes* (Document ID **762254.1** and **763603.1**) at https://support.oracle.com/.

2. Download the .bin package installer.
3. Install AquaLogic Service Bus by completing the console-mode installation procedure for .bin files available at Running the Installation Program in Graphical Mode.
4. Set the WL_HOME variable to the directory in which you installed your BEA product and export WL_HOME. For example:

   ```
   $ export WL_HOME=<your_installation_directory>/weblogic92
   ```

5. In a text editor, open the `$BEA_HOME/weblogic92/common/bin/commEnv.sh` and search for the following case statement:

   ```
   LINUX|Linux)
   arch='uname -m'
   ```

   Replace with the following:

   ```
   LINUX|Linux)
   arch='uname -m'
      if [ "${arch}" = "x86_64" ]; then
         arch=i686
      fi
   ```

Novell SUSE Linux Enterprise Server on Itanium

Complete the following procedures:

- "Download and Install BEA JRockit 5.0 R26.4 for Itanium" on page 8-14
- "Download and Install WebLogic Server 9.2 and Later MPs on Novell SUSE Linux Enterprise Server on Itanium" on page 8-15
- "Download and Install WebLogic Integration 9.2 and Later MPs on Novell SUSE Linux Enterprise Server 10 on Itanium" on page 8-15

Download and Install BEA JRockit 5.0 R26.4 for Itanium

BEA Jrockit 5.0 R26.4 on SLES 10 requires glibc update. See Summary of Supported Configurations by Release for 5.0 R26.4.0 in *BEA JRockit 5.0 Supported Configurations*.

1. Go to `Oracle E-Delivery` and download JRockit 5.0:

   Note: For important information about how to download BEA products refer to *BEA Product Download Changes* (Document ID **762254.1** and **763603.1**) at `https://support.oracle.com/`.

2. Download and install `JRockit 5.0 R26 JDK Linux (Intel Itanium - 64-bit)`.
3. Update the `JAVA_HOME` environment variable to reflect the JDK installation directory. For example:

   ```
   export JAVA_HOME=<JRockit_installation _directory>
   ```

4. Add your Java executables to the `PATH` environment variable:

```
export PATH=$JAVA_HOME/bin:$PATH
```

Download and Install WebLogic Server 9.2 and Later MPs on Novell SUSE Linux Enterprise Server on Itanium

1. Go to Oracle E-Delivery and use the following information to download WebLogic Server 9.2 Maintenance Packs:

   a. Select Product Pack "Oracle BEA".

   b. Select the operating system.

   c. Select the appropriate media pack for the BEA WebLogic product that you want to download. For example, if you want to download WebLogic Server for Microsoft Windows (32-bit), select the media pack "BEA WebLogic Media Pack for Microsoft Windows (32-bit)".

   d. Select the part number for the WebLogic Server 9.2 Maintenance Pack and download the zip file. For example, select the part number corresponding to the description "WebLogic Server 9.2 MP4 for Microsoft Windows (32-bit)" and download the zip file.

   e. Extract files from the downloaded zip file.

      Note: For important information about how to download BEA products refer to *BEA Product Download Changes* (Document ID **762254.1** and **763603.1**) at https://support.oracle.com/.

2. Install WebLogic Server using the instructions in http://e-docs.bea.com/common/docs92/install/start.html. This section describes the process of installing .jar files in the Graphical mode.

Download and Install WebLogic Integration 9.2 and Later MPs on Novell SUSE Linux Enterprise Server 10 on Itanium

To install on Itanium:

1. Go to the download site at Oracle E-Delivery.

   Note: For important information about how to download BEA products refer to *BEA Product Download Changes* (Document ID **762254.1** and **763603.1**) at https://support.oracle.com/.

2. Download the package installer `.bin` file.

3. Install using the instructions in Using Installers with Filenames Ending in .bin in the BEA Products Installation Guide. This section describes the process of installing `.bin` files in the Graphical mode.

CHAPTER 9

BEA WebLogic Platform 9.2 and AquaLogic Service Bus on Novell SUSE Linux Enterprise Server 9

This section provides the following information:

- Configuration Requirements
- Known Issues
- Download and Installation Instructions
- Download and Apply BEA Patches

Related Information

- For information about supported database configurations, Web servers, browsers, interoperability tools, and product support, see:
  - *AquaLogic Service Bus 2.5 Supported Configurations*
  - *AquaLogic Service Bus 2.6 Supported Configurations*
  - *Supported Configurations for WebLogic Platform 9.2*
- For information about Novell SUSE Linux Enterprise Server®, visit the following Novell Web site: `http://www.novell.com`.

Configuration Requirements

The following section provides requirements for BEA products supported on this configuration:

- "Requirements for Novell SUSE Linux Enterprise Server 9 on x86" on page 9-2

- "Requirements for Novell SUSE Linux Enterprise Server 9 on 64-bit Xeon and AMD64 with 32-bit JDK" on page 9-3
- "Requirements for Novell SUSE Linux Enterprise Server 9 on 64-bit Xeon and AMD64 with 64-bit JDK" on page 9-4
- "Requirements for Novell SUSE Linux Enterprise Server 9 on Itanium" on page 9-4

Table 9-1 Requirements for Novell SUSE Linux Enterprise Server 9 on x86

Operating System Version and Patches	Novell SUSE Linux Enterprise Server (SLES) 9 SP3 with Kernel 2.6.5-7.244-smp (3) and later SUSE service packs and errata
Chip Architecture and Minimum Processor Speed	x86 (1.2GHz)
JDK	• 9.2: BEA JRockit 5.0 (R26.0.0-189_CR269406) JDK (32-bit) and all later 5.0 releases of JRockit • 9.2 MP1: BEA JRockit 5.0 (R26.4.0 + CR302700) JDK (32-bit) and all later 5.0 releases of JRockit • 9.2 MP2: BEA JRockit 5.0 (R27.2.0-131) JDK (32-bit) and all later 5.0 releases of JRockit • 9.2 MP3: BEA JRockit 5.0 (R27.4) JDK (32-bit) and all later 5.0 releases of JRockit
RAM	1 GB minimum
Performance Pack	`server/native/linux/i686/libmuxer.so`
Product Support	• WebLogic Server 9.2, 9.2 MP1, 9.2 MP2, 9.2 MP3 • WebLogic Portal 9.2, 9.2 MP1, 9.2 MP2, 9.2 MP3 • WebLogic Integration 9.2, 9.2 MP1, 9.2 MP2, 9.2 MP3 • AquaLogic Service Bus 2.6 on WLS 9.2 MP1 • AquaLogic Service Bus 2.6 RP1 on WLS 9.2 MP2
Design and Development Tools	• BEA Workshop for WebLogic Platform 9.2 and later MPs: Not supported • AquaLogic Service Bus 2.6 Data Transformation Tools on WebLogic Server 9.2: Not supported

Table 9-2 Requirements for Novell SUSE Linux Enterprise Server 9 on 64-bit Xeon and AMD64 with 32-bit JDK

Operating System Version and Patches	SUSE LINUX Enterprise Server 9 SP3 (x86_64) - Kernel 2.6.5-7.244-smp glibc-2.3.3-98.61 and later SUSE service packs and errata
Chip Architecture and Minimum Processor Speed	• AMD64 (1.3 GHz) • 64-bit Xeon (1.3 GHz)
JDK	• 9.2: BEA JRockit 5.0 (R26.0.0-189_CR269406) JDK (32 bit) and all later 5.0 releases • 9.2 MP1: BEA JRockit 5.0 (R26.4.0 + CR302700) JDK (32-bit) and all later 5.0 releases of JRockit • 9.2 MP2: BEA JRockit 5.0 (R27.2.0-131) JDK (32-bit) and all later 5.0 releases of JRockit • 9.2 MP3: BEA JRockit 5.0 (R27.4) JDK (32-bit) and all later 5.0 releases of JRockit
RAM	1 GB minimum
Performance Pack	`server/native/linux/i686/libmuxer.so`
Product Support	• WebLogic Server 9.2, 9.2 MP1, 9.2 MP2, 9.2 MP3 • WebLogic Portal 9.2, 9.2 MP1, 9.2 MP2, 9.2 MP3 • WebLogic Integration 9.2, 9.2 MP1, 9.2 MP2, 9.2 MP3 • AquaLogic Service Bus 2.5 on WLS 9.2 • AquaLogic Service Bus 2.6 on WLS 9.2 MP1 • AquaLogic Service Bus 2.6 RP1 on WLS 9.2 MP2
Design and Development Tools	• BEA Workshop for WebLogic Platform 9.2 and later MPs: Not supported • BEA Integration IDE for WebLogic Platform 9.2 and later MPs: Not Supported • AquaLogic Service Bus 2.5 and AquaLogic Service Bus 2.6 Data Transformation Tools on WebLogic Server 9.2: Not supported.

Table 9-3 Requirements for Novell SUSE Linux Enterprise Server 9 on 64-bit Xeon and AMD64 with 64-bit JDK

Operating System Version and Patches	SUSE LINUX Enterprise Server 9 SP3 (x86_64) - Kernel 2.6.5-7.244-smp glibc-2.3.3-98.61and later SUSE service packs and errata
Chip Architecture and Minimum Processor Speed	• AMD64 (1.3 GHz) • 64-bit Xeon (1.3 GHz)
JDK	• 9.2: BEA JRockit 5.0 (R26.0.0-189_CR269406) JDK (64 bit) and all later 5.0 releases • 9.2 MP1: BEA JRockit 5.0 (R26.4.0 + CR302700) JDK (64-bit) and all later 5.0 releases of JRockit • 9.2 MP2: BEA JRockit 5.0 (R27.2.0-131) JDK (64-bit) and all later 5.0 releases of JRockit • 9.2 MP3: BEA JRockit 5.0 (R27.4) JDK (64-bit) and all later 5.0 releases of JRockit
RAM	1 GB minimum
Performance Pack	`server/native/linux/x86_64/libmuxer.so`
Product Support	• WebLogic Server 9.2, 9.2 MP1, 9.2 MP2, 9.2 MP3 • WebLogic Portal 9.2, 9.2 MP1, 9.2 MP2, 9.2 MP3
Design and Development Tools	BEA Workshop for WebLogic Platform 9.2 and later MPs: Not supported

Table 9-4 Requirements for Novell SUSE Linux Enterprise Server 9 on Itanium

Operating System Version and Patches	Novell SUSE Linux Enterprise Server (SLES) 9 SP3 with Kernel 2.6.5-7.244 with glibc-2.3.3-98.61 and later SUSE service packs and errata
Chip Architecture and Minimum Processor Speed	Itanium (1.3 GHz)

Table 9-4 Requirements for Novell SUSE Linux Enterprise Server 9 on Itanium

JDK	• 9.2: BEA JRockit 5.0 (R26.0.0-189_CR269406) JDK (64-bit) and all later 5.0 releases of JRockit • 9.2 MP1: BEA JRockit 5.0 (R26.4.0 + CR302700) JDK (64-bit) and all later 5.0 releases of JRockit • 9.2 MP2: BEA JRockit 5.0 (R27.2.0-131) JDK (64-bit) and all later 5.0 releases of JRockit • 9.2 MP3: BEA JRockit 5.0 (R27.4) JDK (64-bit) and all later 5.0 releases of JRockit
RAM	1 GB minimum
Performance Pack	`server/native/linux/ia64/libmuxer.so`
Product Support	• WebLogic Server 9.2, 9.2 MP1, 9.2 MP2, 9.2 MP3 • WebLogic Portal 9.2, 9.2 MP1, 9.2 MP2, 9.2 MP3 • WebLogic Integration 9.2, 9.2 MP1, 9.2 MP2, 9.2 MP3
Design and Development Tools	• BEA Workshop for WebLogic Platform 9.2 and later MPs: Not supported • BEA Integration IDE for WebLogic Platform 9.2 and later MPs: Not Supported

Known Issues

- Issues Related to Novell SUSE Linux Enterprise 9 on AMD64 and 64-bit Xeon
- Issues Related to Novell SUSE Linux Enterprise 9 on AMD64, 64-bit Xeon, and Itanium when Using Remote Autonomy
- Serial Version UID Mismatch
- Issues Related to Other BEA Products

Issues Related to Novell SUSE Linux Enterprise 9 on AMD64 and 64-bit Xeon

This section describes known issues that occur when you run WebLogic Server9.2 and later MPs and WebLogic Portal 9.2 and later MPs on Novell SUSE Linux Enterprise 9 systems based on the AMD64 and 64-bit Xeon chip architecture.

JVM Stack Overflow

You might encounter a JVM stack overflow error or exception while running WebLogic Server on the Novell SUSE Linux Enterprise 9 on 64-bit Xeon configuration.

Workaround: Increase the stack size from the default 128k to 256k.

Exception Encountered on Systems with Mounted NFS File Systems

You might encounter the following exception while installing WebLogic Server and WebLogic Portal on a system that has NFS file systems mounted:

```
"Caused by:  java.lang.IllegalArgumentException: Can not list file system
roots on this computer"
```

Workaround: Ensure that you have at least 600MB of free disk space before installing WebLogic Server and use the `-Dspace.detection=false` flag while installing. For example:

```
java -Dspace.detection=false -jar server920_generic.jar -mode=console
```

Issues Related to Novell SUSE Linux Enterprise 9 on AMD64, 64-bit Xeon, and Itanium when Using Remote Autonomy

See Using a Remote Autonomy Installation in *Supported Configurations for WebLogic Platform 9.2*.

Serial Version UID Mismatch

A Serial Version UID Mismatch Issue may be encountered if you deploy an application on a latest JVM, but compiled with an earlier JDK release.

Workaround: To be compatible with the serialization of previously compiled applications, modify the `<BEA_HOME>/Weblogic92/common/bin/commEnv.sh` file to include the following command:

```
JAVA_OPTIONS="$JAVA_OPTIONS -Dcom.sun.xml.namespace.QName.useCompatible
SerialVersionUID=1.0"
```

Note: If you intend to deploy new applications with previously compiled applications, they must be recompiled as necessary to have the same Serial Version UID.

Issues Related to Other BEA Products

For information about known issues with BEA products supported on this configuration, including available workarounds, see the appropriate *Release Notes* document.

Issues related to...	Are described in...
AquaLogic Service Bus	*BEA AquaLogic Service Bus Release Notes:* http://e-docs.bea.com/alsb/docs25/relnotes/relnotes.html
WebLogic Server	*BEA WebLogic Server Known and Resolved Issues:* http://e-docs.bea.com/wls/docs92/issues/known_resolved.html
Installation and Configuration	*BEA Products Installation and Configuration Release Notes*: http://e-docs.bea.com/common/docs92/relnotes/relnotes.html
WebLogic Portal	*BEA WebLogic Portal 9.2 Release Notes*: http://e-docs.bea.com/wlp/docs92/relnotes/index.html
WebLogic Integration	*BEA WebLogic Portal 9.2 Release Notes*: http://edocs.bea.com/wli/docs92/relnotes/index.html
BEA Workshop for WebLogic Platform	*BEA Workshop Product Family Release Notes*: http://e-docs/workshop/docs92/relnotes/index.html

Download and Installation Instructions

- "Download and Install BEA JRockit 5.0 R26.4.0-6 JDK" on page 9-7
- "Novell SUSE Linux Enterprise Server on x86" on page 9-8
- "Novell SUSE Linux Enterprise Server 9 on AMD64 and 64-bit Xeon" on page 9-10
- "Novell SUSE Linux Enterprise Server on Itanium" on page 9-14

Download and Install BEA JRockit 5.0 R26.4.0-6 JDK

1. Go to the BEA download site:

   http://commerce.bea.com

2. Download and install the supported version of JRockit JDK for your configuration:
   - Linux (Intel EM64T & AMD64 - 64 bit)

  – Linux (x86 - 32 bit)

3. Update the `JAVA_HOME` environment variable to reflect the JDK installation directory. For example:

   ```
   export JAVA_HOME=<JRockit_installation _directory>
   ```

4. Add your Java executables to the `PATH` environment variable:

   ```
   export PATH=$JAVA_HOME/bin:$PATH
   ```

Novell SUSE Linux Enterprise Server on x86

1. "Download and Install BEA JRockit 5.0 R26.4.0-6 JDK" on page 9-7
2. Depending on your requirements:

- "Download and Install WebLogic Server 9.2 and Later MPs on Novell SUSE Linux Enterprise Server on x86" on page 9-8
- "Download and Install WebLogic Portal 9.2 and Later MPs on Novell SUSE Linux Enterprise Server 9 on x86" on page 9-9
- "Download and Install WebLogic Integration 9.2 MP1 and Later MPs on Novell SUSE Linux Enterprise Server 9 on x86" on page 9-9
- "Download and Install AquaLogic Service Bus on Novell SUSE Linux Enterprise Server 9 on x86" on page 9-9

Download and Install WebLogic Server 9.2 and Later MPs on Novell SUSE Linux Enterprise Server on x86

1. Go to the BEA download site at `http://commerce.bea.com/showallversions.jsp?family=WLS`.
2. Under the WebLogic Server Package Installer, select `Novell SUSE Linux Enterprise Server (9, 10, x86)` from the list of OS Platforms for your configuration.
3. Download the package installer `.bin` file.
4. Install by completing the installation procedure provided at: http://e-docs.bea.com/common/docs92/install/start.html. This section describes how to install `.bin` files using Graphical mode.

For more information on installing WebLogic Server, refer to the WebLogic Server 9.2 Installation Guide.

Download and Install WebLogic Portal 9.2 and Later MPs on Novell SUSE Linux Enterprise Server 9 on x86

To install WebLogic Portal on SLES 9 on x86:

1. Go to the BEA download site at `http://commerce.bea.com/index.jsp/showallversions.jsp?family=WLP`.
2. Under the WebLogic Platform Package Installer, select `Novell SuSE Linux Enterprise Server` from the list of OS Platforms for your configuration.
3. Download the package installer `.bin` file.
4. Install WebLogic Portal using the instructions in Using Installers with Filenames Ending in .bin in the BEA Products Installation Guide. This section describes the process of installing `.bin` files in the Graphical mode.

Download and Install WebLogic Integration 9.2 MP1 and Later MPs on Novell SUSE Linux Enterprise Server 9 on x86

To install WebLogic Integration 9.2 on SLES 9 on x86:

1. Go to the BEA download site at `http://commerce.bea.com/index.jsp/showallversions.jsp?family=WLI`.
2. Under the WebLogic Platform Package Installer, select `Novell SuSE Linux Enterprise Server (9, 10, x86, 64-bit Xeon/AMD64)` from the list of OS Platforms for your configuration.
3. Download the package installer `.jar` file.
4. Install using the instructions in Using Installers with Filenames Ending in .jar in the BEA Products Installation Guide. This section describes the process of installing `.jar` files in the Graphical mode.

Download and Install AquaLogic Service Bus on Novell SUSE Linux Enterprise Server 9 on x86

To install the BEA AquaLogic Service Bus on Novell SUSE Linux Enterprise Server 9 on x86:

1. Go to the BEA download site at `http://commerce.bea.com/showallversions.jsp?family=ALSB`.
2. From the list of OS Platforms, select `Novell Suse Linux Enterprise Server (9, 10, x86, 64 bit Xeon/AMD64).`

3. Download the `.bin` package installer.
4. Install AquaLogic Service Bus by completing the console-mode installation procedure for .bin files available at Running the Installation Program in Graphical Mode.
5. Set the `WL_HOME` variable to the directory in which you installed your BEA product and export `WL_HOME`. For example:

   ```
   $ export WL_HOME=<your_installation_directory>/weblogic92
   ```

Novell SUSE Linux Enterprise Server 9 on AMD64 and 64-bit Xeon

Complete the following procedures:

1. "Download and Install BEA JRockit 5.0 R26.4.0-6 JDK" on page 9-7.
2. Depending on your requirements:
   a. "Download and Install WebLogic Server 9.2 and Later MPs on Novell SUSE Linux Enterprise Server 9 on AMD64 and 64-bit Xeon" on page 9-10
   b. "Download and Install WebLogic Portal 9.2 and Later MPs on Novell SUSE Linux Enterprise Server 9 on AMD64 and 64-bit Xeon" on page 9-11
   c. "Download and Install WebLogic Integration 9.2 and Later MPs on Novell SUSE Linux Enterprise Server on AMD64 and 64-bit Xeon" on page 9-12
   d. "Download and Install AquaLogic Service Bus on 64-bit Xeon and AMD64" on page 9-13
3. "Download and Apply BEA Patches" on page 9-16

Download and Install WebLogic Server 9.2 and Later MPs on Novell SUSE Linux Enterprise Server 9 on AMD64 and 64-bit Xeon

To install WebLogic Server on Novell SUSE Linux Enterprise Server 9 on AMD64 or 64-bit Xeon, you need BEA JRockit 5.0 and the installer for WebLogic Server 9.2.

To install WebLogic Server 9.2

1. Go to the BEA download site at `http://commerce.bea.com/showallversions.jsp?family=WLS`.

2. Under the WebLogic Server Package Installer, select `Novell SUSE Linux Enterprise Server (9, 10, 64-bit Xeon/AMD64)` from the list of OS Platforms for your configuration.
3. Download the package installer `.jar` file.
4. Install WebLogic Server using the instructions provided in the "Using Installers with Filenames Ending in .jar" section of the *WebLogic Server 9.2 Installation Guide*.

   If your configuration includes the 64-bit version of BEA JRockit, your installation of WebLogic Server is now complete. If your configuration includes the 32-bit version, however, you must also complete the following steps:

5. Set the `BEA_HOME` to point to the directory in which WebLogic Server is installed and export `BEA_HOME`. For example:

   ```
   export BEA_HOME=<your_WebLogic_Server_installation_directory>
   ```

6. In a text editor, open the `$BEA_HOME/weblogic92/common/bin/commEnv.sh` and search for the following case statement:

   ```
   LINUX|Linux)
   arch='uname -m'
   ```

   Replace with the following:

   ```
   LINUX|Linux)
   arch='uname -m'
      if [ "${arch}" = "x86_64" ]; then
         arch=i686
      fi
   ```

Download and Install WebLogic Portal 9.2 and Later MPs on Novell SUSE Linux Enterprise Server 9 on AMD64 and 64-bit Xeon

To install WebLogic Portal on SLES 9 on AMD64 and 64-bit Xeon:

1. Go to the BEA download site at `http://commerce.bea.com/index.jsp/showallversions.jsp?family=WLP`.
2. Under the WebLogic Platform Package Installer, select `Novell SUSE Linux Enterprise Server (9, 10, 64-bit Xeon/AMD64)` from the list of OS Platforms for your configuration.
3. Download the package installer `.jar` file.

4. Install using the instructions in Using Installers with Filenames Ending in .jar in the BEA Products Installation Guide. This section describes the process of installing `.jar` files in the Graphical mode.

If your configuration includes the 64-bit version of BEA jRockit, your installation of WebLogic Portal is now complete. If your configuration includes the 32-bit version of BEA jRockit, however, you must also complete the following steps:

5. Set the *`BEA_HOME`* variable to point to the directory in which WebLogic Portal is installed and export *`BEA_HOME`*. For example:

   ```
   export BEA_HOME=<your_Portal_installation_directory>
   ```

6. In a text editor, open the `$BEA_HOME/weblogic92/common/bin/commEnv.sh` and search for the following case statement:

   ```
   LINUX|Linux)
   arch='uname -m'
   ```

   Replace with the following:

   ```
   LINUX|Linux)
   arch='uname -m'
      if [ "${arch}" = "x86_64" ]; then
         arch=i686
      fi
   ```

Download and Install WebLogic Integration 9.2 and Later MPs on Novell SUSE Linux Enterprise Server on AMD64 and 64-bit Xeon

To install WebLogic Integration:

1. Go to the BEA download site at `http://commerce.bea.com/showallversions.jsp?family=WLI`.
2. Under the WebLogic Platform Package Installer, select `Novell SuSE Linux Enterprise Server (9, 10, x86, 64-bit Xeon/AMD64)`
3. Download the package installer `.jar` file.
4. Install using the instructions provided in the "Using Installers with Filenames Ending in .jar" section of the *WebLogic Server 9.2 Installation Guide*.

5. Set the `BEA_HOME` to point to the directory in which WebLogic Server is installed and export `BEA_HOME`. For example:

   ```
   export BEA_HOME=<your_WebLogic_Server_installation_directory>
   ```

6. In a text editor, open the `$BEA_HOME/weblogic92/common/bin/commEnv.sh` and search for the following case statement:

   ```
   LINUX|Linux)
   arch='uname -m'
   ```

   Replace with the following:

   ```
   LINUX|Linux)
   arch='uname -m'
      if [ "${arch}" = "x86_64" ]; then
         arch=i686
      fi
   ```

Download and Install AquaLogic Service Bus on 64-bit Xeon and AMD64

To install the BEA AquaLogic Service Bus on SUSE Linux ES 9:

1. Go to the BEA download site at `http://commerce.bea.com/showallversions.jsp?family=ALSB`.
2. From the list of OS Platforms for your ALSB release:

- For ALSB 2.6, select `Novell Suse Linux Enterprise Server (9, 10, x86, 64 bit Xeon/AMD64).`
- For ALSB 2.5, select `Novell SUSE Linux Enterprise Server (9, EM64T, AMD64).`

3. Download the `.bin` package installer.
4. Install BEA AquaLogic Service Bus by completing the console-mode installation procedure for `.bin` files available at

- For ALSB 2.5, see Starting the Installation Program on UNIX Platforms for .bin installer in the *BEA AquaLogic Service Bus™ 2.5 Installation Guide*.
- For ALSB 2.6, see Starting the Installation Program on UNIX Platforms for .bin installer in the *BEA AquaLogic Service Bus™ 2.6 Installation Guide*.

5. Set the *BEA_HOME* variable to point to the directory in which AquaLogic Service Bus is installed and export *BEA_HOME*. For example:

   ```
   export BEA_HOME=<your_AquaLogic_installation_directory>
   ```

6. In a text editor, open the `$BEA_HOME/weblogic92/common/bin/commEnv.sh` and search for the following case statement:

   ```
   LINUX|Linux)
   arch='uname -m'
   ```

   Replace with the following:

   ```
   LINUX|Linux)
   arch='uname -m'
      if [ "${arch}" = "x86_64" ]; then
         arch=i686
      fi
   ```

Novell SUSE Linux Enterprise Server on Itanium

Complete the following procedures:

1. Depending on your requirements:
   a. "Download and Install WebLogic Server 9.2 and Later MPs on Novell SUSE Linux Enterprise Server on Itanium" on page 9-14
   b. "Download and Install WebLogic Portal 9.2 and Later MPs on Novell SUSE Linux Enterprise Server 9 on Itanium" on page 9-15
   c. "Download and Install WebLogic Integration 9.2 and Later MPs on Novell SUSE Linux Enterprise Server 9 on Itanium" on page 9-15
2. "Download and Apply BEA Patches" on page 9-16

Download and Install WebLogic Server 9.2 and Later MPs on Novell SUSE Linux Enterprise Server on Itanium

To install WebLogic Server on SUSE Linux Itanium:

1. Go to the BEA download site at `http://commerce.bea.com/showallversions.jsp?family=WLS`.

2. Under the WebLogic Server Package Installer, select `Novell SUSE Linux Enterprise Server (9, 10, Itanium)` from the list of OS Platforms for your configuration.
3. Download the package installer `.bin` file.
4. Install WebLogic Server 9.2 by completing the installation procedure provided at: http://e-docs.bea.com/common/docs92/install/start.html. This section describes how to install `.bin` files using Graphical mode.

Download and Install WebLogic Portal 9.2 and Later MPs on Novell SUSE Linux Enterprise Server 9 on Itanium

To install WebLogic Portal on SLES 9 on Itanium:

1. Go to the BEA download site at `http://commerce.bea.com/index.jsp/showallversions.jsp?family=WLP`.
2. Under the WebLogic Platform Package Installer, select `Novell SuSE Linux Enterprise Server (9, 10, Itanium)` from the list of OS Platforms for your configuration.
3. Download the package installer `.bin` file.
4. Install WebLogic Portal using the instructions in Using Installers with Filenames Ending in .bin in the BEA Products Installation Guide. This section describes the process of installing `.bin` files in the Graphical mode.

Download and Install WebLogic Integration 9.2 and Later MPs on Novell SUSE Linux Enterprise Server 9 on Itanium

To install on SLES 9 on Itanium:

1. Go to the BEA download site at `http://commerce.bea.com/index.jsp/showallversions.jsp?family=WLI`.
2. Under the WebLogic Platform Package Installer, select `Novell SuSE Linux Enterprise Server (9, 10 Itanium)` from the list of OS Platforms for your configuration.
3. Download the package installer `.bin` file.
4. Install using the instructions in Using Installers with Filenames Ending in .bin in the BEA Products Installation Guide. This section describes the process of installing `.bin` files in the Graphical mode.

Download and Apply BEA Patches

Download and install the following patches for Novell SUSE Linux Enterprise Server 9 using the BEA Smart Update tool:

WLP 9.2

- Patch ID: DY4Y Pass Code: GL8HWQWZ (Required for Remote Autonomy on AMD64, 64-bit Xeon, and Itanium, see Post-Installation Instructions for BEA Smart Update Patch DY4Y.)

For more information on the BEA Smart Update tool, refer to http://e-docs.bea.com/common/docs92/smart_update/intro.html.

CHAPTER 10

BEA WebLogic Server 9.1 on Novell SUSE Linux Enterprise Server 9

BEA Products Supported on this Configuration

Product	Version
BEA WebLogic Server®	9.1

This section provides the following information:

- Configuration Requirements
- Known Issues
- Download and Installation Instructions

Related Information

- For information about supported database configurations, Web servers, browsers, and interoperability tools, plus BEA product support for WebLogic Server 9.1, see:
  - *WebLogic Server 9.1 Supported Configurations*
- For information about Novell SUSE Linux Enterprise Server®, visit the following Novell Web site: `http://www.novell.com`.

Configuration Requirements

WebLogic Server 9.1 is supported on Novell SUSE Linux Enterprise Server 9 on x86 hardware. WebLogic Server 9.1 on SUSE Linux 9 is also supported on AMD64, 64-bit Xeon and Itanium. For detailed requirements for these configurations, see the appropriate table:

- Requirements for Novell SUSE Linux Enterprise Server 9 on x86 (for WebLogic Server 9.1 only)
- Requirements for Novell SUSE Linux Enterprise Server 9 on 64-bit Xeon and AMD64 with 64-bit JDK (for WebLogic Server 9.1 only)
- Requirements for Novell SUSE Linux Enterprise Server 9 on 64-bit Xeon and AMD64 with 32-bit JDK (for WebLogic Server 9.1 only)
- Requirements for Novell SUSE Linux Enterprise Server 9 on Itanium (for WebLogic Server 9.1 only)

Table 10-1 Requirements for Novell SUSE Linux Enterprise Server 9 on x86 (for WebLogic Server 9.1 only)

Operating System Version and Patches	Novell SUSE Linux Enterprise Server (SLES) 9 SP3 with Kernel 2.6.5-7.244-smp (3) and later SUSE service packs and errata
Chip Architecture and Minimum Processor Speed	x86 (1.2GHz)
JDK	BEA JRockit® 5.0 (R26.0.0) JDK (32-bit) and all later 5.0 releases of JRockit
RAM	1 GB minimum
Performance Pack	`server/native/linux/i686/libmuxer.so`
Design and Development Tools	WebLogic Server development tools are supported.

Table 10-2 Requirements for Novell SUSE Linux Enterprise Server 9 on 64-bit Xeon and AMD64 with 64-bit JDK (for WebLogic Server 9.1 only)

Operating System Version and Patches	Novell SUSE Linux Enterprise Server (SLES) 9 with Kernel 2.6.5-7.244-smp (3) on x86_64 and later SUSE service packs and errata (64-bit kernel)
Chip Architecture and Minimum Processor Speed	• AMD64 (1.3 GHz) • 64-bit Xeon (1.3 GHz)
JDK	BEA JRockit 5.0 (R26.0.0-188) JDK (64-bit) and all later 5.0 releases of JRockit
RAM	1 GB minimum
Performance Pack	`server/native/linux/x86_64/libmuxer.so`
Design and Development Tools	WebLogic Server development tools are supported.

Table 10-3 Requirements for Novell SUSE Linux Enterprise Server 9 on 64-bit Xeon and AMD64 with 32-bit JDK (for WebLogic Server 9.1 only)

Operating System Version and Patches	Novell SUSE Linux Enterprise Server (SLES) 9 with Kernel 2.6.5-7.244-smp (3) on x86_64 and later SUSE service packs and errata (64-bit kernel)
Chip Architecture and Minimum Processor Speed	• AMD64 (1.3 GHz) • 64-bit Xeon (1.3 GHz)
JDK	BEA JRockit 5.0 (R26.0.0-189) JDK (32-bit) and all later 5.0 releases of JRockit
RAM	1 GB minimum
Performance Pack	`server/native/linux/i686/libmuxer.so`
Design and Development Tools	WebLogic Server development tools are supported.

Table 10-4 Requirements for Novell SUSE Linux Enterprise Server 9 on Itanium (for WebLogic Server 9.1 only)

Operating System Version and Patches	Novell SUSE Linux Enterprise Server (SLES) 9 SP3 with Kernel 2.6.5-7.244 with glibc-2.3.3-98.61 and later SUSE service packs and errata
Chip Architecture and Minimum Processor Speed	Itanium (1.3 GHz)
JDK	BEA JRockit 5.0 (R26.0.0-188) JDK (64-bit) and all later 5.0 releases of JRockit
RAM	1 GB minimum
Performance Pack	`server/native/linux/ia64/libmuxer.so`
Design and Development Tools	WebLogic Server development tools are supported.

Known Issues

- Issues Related to Novell SUSE Linux Enterprise 9 on AMD64 and 64-bit Xeon
- Serial Version UID Mismatch
- Issues Related to Other BEA Products

Issues Related to Novell SUSE Linux Enterprise 9 on AMD64 and 64-bit Xeon

This section describes known issues that occur when you run WebLogic Server 9.1 on Novell SUSE Linux Enterprise 9 systems based on the AMD64 and 64-bit Xeon chip architecture.

JVM Stack Overflow

You might encounter a JVM stack overflow error or exception while running WebLogic Server on the Novell SUSE Linux Enterprise 9 on 64-bit Xeon configuration.

Workaround: Increase the stack size from the default 128k to 256k.

Exception Encountered on Systems with Mounted NFS File Systems

You might encounter the following exception while installing WebLogic Server on a system that has NFS file systems mounted:

```
"Caused by: java.lang.IllegalArgumentException: Can not list file system
roots on this computer"
```

Workaround: Ensure that you have at least 600MB of free disk space before installing WebLogic Server and use the `-Dspace.detection=false` flag while installing. The installation command will look like:

```
java -Dspace.detection=false -jar server910_generic.jar -mode=console
```

Serial Version UID Mismatch

A Serial Version UID Mismatch Issue may be encountered if you deploy an application on a latest JVM, but compiled with an earlier JDK release.

Workaround: To be compatible with the serialization of previously compiled applications, modify the *<BEA_HOME>*`/Weblogic91/common/bin/commEnv.sh` file to include the following command:

```
JAVA_OPTIONS="$JAVA_OPTIONS -Dcom.sun.xml.namespace.QName.useCompatible
SerialVersionUID=1.0"
```

Note: If you intend to deploy new applications with previously compiled applications, they must be recompiled as necessary to have the same Serial Version UID.

Issues Related to Other BEA Products

For information about known issues with BEA products supported on this configuration, including available workarounds, see the appropriate *Release Notes* document.

Issues related to...	Are described in...
WebLogic Server	*BEA WebLogic Server Known and Resolved Issues:* http://e-docs.bea.com/wls/docs91/issues/known_resolved.html
Installation and Configuration	*BEA Products Installation and Configuration Release Notes*: http://e-docs.bea.com/common/docs91/relnotes/relnotes.html

Download and Installation Instructions

This section provides procedures for downloading and installing the software required to run WebLogic Server 9.1 on the Novell SUSE Linux Enterprise Server on Itanium, AMD64, 64-bit Xeon and x86 configurations.

Download and Installation Instructions for Novell SUSE Linux Enterprise Server 9 on Itanium

To install WebLogic Server 9.1 on Novell SUSE Linux Enterprise Server 9 on Itanium, you need BEA JRockit 5.0 and the installer for WebLogic Server 9.1. The steps for downloading and installing WebLogic Servere 9.1 are described in the following section.

Note: You do not need to download JRockit separately as the WebLogic Server on Itanium installer includes JRockit.

Downloading and Installing the WebLogic Server 9.1

To install WebLogic Server 9.1

1. Go to the BEA downloads site:

   `http://commerce.bea.com`

2. Click on the link for WebLogic Server 9.1.
3. From the list of OS Platforms, select `Novell SUSE Linux Enterprise Server (9, Itanium)`.
4. Download the `server910_linuxia64.bin`.
5. Install WebLogic Server using the instructions provided in the "Using Installers with Filenames Ending in .bin" section of the *WebLogic Server 9.1 Installation Guide*.

For more information on installing WebLogic Server, refer to the WebLogic Server 9.1 Online Documentation.

Download and Installation Instructions for Novell SUSE Linux Enterprise Server 9 on AMD64 and 64-bit Xeon

To install WebLogic Server 9.1 on Novell SUSE Linux Enterprise Server 9 on AMD64 or 64-bit Xeon, you need BEA JRockit 5.0 and the installer for WebLogic Server 9.1. The steps are described in the following sections:

- Downloading and Installing BEA JRockit 5.0 R26 JDK
- Downloading and Installing the WebLogic Server 9.1 Package Installer

Downloading and Installing BEA JRockit 5.0 R26 JDK

1. Go to the BEA downloads site:

   `http://commerce.bea.com`

2. Download and install the version of the BEA JRockit 5.0 R26 JDK that you want to use:
   - Linux (Intel EM64T & AMD64 - 64 bit)
   - Linux (x86 - 32 bit)

3. Update the `JAVA_HOME` environment variable to reflect the JDK installation directory. For example:

   ```
   export JAVA_HOME=<JRockit_installation _directory>
   ```

4. Add your Java executables to the `PATH` environment variable:

   ```
   export PATH=$JAVA_HOME/bin:$PATH
   ```

Downloading and Installing the WebLogic Server 9.1 Package Installer

To install WebLogic Server 9.1

1. Go to the BEA downloads site:

   `http://commerce.bea.com`

2. Click on the link for WebLogic Server 9.1.

3. From the list of OS Platforms, select `Novell SUSE Linux Enterprise Server (9, 64-bit Xeon/AMD64)`.

4. Download the `server910_generic.jar` package installer.

5. Install WebLogic Server using the instructions provided in the "Using Installers with Filenames Ending in .jar" section of the *WebLogic Server 9.1 Installation Guide*.

For more information on installing WebLogic Server, refer to the WebLogic Server 9.1 Online Documentation.

Downloading and Installing WebLogic Server 9.1 on the Novell SUSE Linux Enterprise Server on x86 Configuration

1. Go to the BEA downloads site:

   `http://commerce.bea.com`

2. Click on the link for WebLogic Server 9.1.

3. From the list of OS Platforms, select `Novell SUSE Linux Enterprise Server (9, x86)`.

4. Install WebLogic Server 9.1 by completing the installation procedure provided at: http://e-docs.bea.com/common/docs91/install/start.html.

For more information on installing WebLogic Server, refer to the WebLogic Server 9.1 Online Documentation.

CHAPTER 11

BEA WebLogic Server 9.0 on Novell SUSE Linux Enterprise Server 9

BEA Products Supported on this Configuration

Product	Version
WebLogic Server	9.0

This section provides the following information:

- Configuration Requirements
- Known Issues
- Download and Installation Instructions

Related Information

- For information about supported database configurations, Web servers, browsers, and interoperability tools, plus BEA product support for WebLogic Server 9.0, see: *WebLogic Server 9.0 Supported Configurations*.
- For information about Novell SUSE Linux Enterprise Server, visit the following Novell Web site: `http://www.novell.com`.

Configuration Requirements

WebLogic Server 9.0 is supported on Novell SUSE Linux Enterprise Server 9 on x86 hardware. WebLogic Server 9.0 on SUSE Linux 9 is also supported on Itanium, AMD64, and 64-bit Xeon. For detailed requirements for these configurations, see the appropriate table:

- Requirements for Novell SUSE Linux Enterprise Server 9 on x86 (for WebLogic Server 9.0 only)
- Requirements for Novell SUSE Linux Enterprise Server 9 on Itanium (for WebLogic Server 9.0 only)
- Requirements for Novell SUSE Linux Enterprise Server 9 on 64-bit Xeon and AMD64 with 32-bit JDK (for WebLogic Server 9.0 only)
- Requirements for Novell SUSE Linux Enterprise Server 9 on 64-bit Xeon and AMD64 with 64-bit JDK (for WebLogic Server 9.0 only)

Table 11-1 Requirements for Novell SUSE Linux Enterprise Server 9 on x86 (for WebLogic Server 9.0 only)

Operating System Version and Patches	Novell SUSE Linux Enterprise Server (SLES) 9 SP2 with Kernel 2.6.5-7.191-bigsmp with glibc-2.3.3-98.47 and later SUSE service packs and errata
Chip Architecture and Minimum Processor Speed	Xeon, Pentium II or higher, x86, and compatible chip architectures (400 MHz)
JDK	BEA JRockit 5.0 (R25.2.0-28) JDK SP2 and all later 5.0 releases
RAM	1 GB minimum
Performance Pack	`server/native/linux/i686/libmuxer.so`
Design and Development Tools	WebLogic Server development tools are supported.

Table 11-2 Requirements for Novell SUSE Linux Enterprise Server 9 on Itanium (for WebLogic Server 9.0 only)

Operating System Version and Patches	Novell SUSE Linux Enterprise Server (SLES) 9 SP2 with Kernel 2.6.5-7.191 with glibc-2.3.3-98.47 and later SUSE service packs and errata
Chip Architecture and Minimum Processor Speed	Itanium (1.3 GHz)
JDK	BEA JRockit 5.0 R26 JDK (R26.0.0-188) and all later 5.0 releases
RAM	1 GB minimum
Performance Pack	`server/native/linux/ia64/libmuxer.so`
Design and Development Tools	WebLogic Server development tools are supported.

Table 11-3 Requirements for Novell SUSE Linux Enterprise Server 9 on 64-bit Xeon and AMD64 with 32-bit JDK (for WebLogic Server 9.0 only)

Operating System Version and Patches	Novell SUSE Linux Enterprise Server (SLES) 9 SP2 with Kernel 2.6.5-7.191-bigsmp on x86_64 with glibc-2.3.3-98.47 and later SUSE service packs and errata (64-bit kernel)
Chip Architecture and Minimum Processor Speed	• AMD64 (1.3 GHz) • 64-bit Xeon (1.3 GHz)
JDK	BEA JRockit 5.0 R26 JDK (R26.0.0-189) and all later 5.0 releases (32-bit version)
RAM	1 GB minimum
Performance Pack	`server/native/linux/i686/libmuxer.so`
Design and Development Tools	WebLogic Server development tools are supported.

Table 11-4 Requirements for Novell SUSE Linux Enterprise Server 9 on 64-bit Xeon and AMD64 with 64-bit JDK (for WebLogic Server 9.0 only)

Operating System Version and Patches	Novell SUSE Linux Enterprise Server (SLES) 9 SP2 (x86_64) with Kernel 2.6.5-7.191-bigsmp on x86_64 with glibc-2.3.3-98.47 and later SUSE service packs and errata (64-bit kernel)
Chip Architecture and Minimum Processor Speed	• AMD64 (1.3 GHz) • 64-bit Xeon (1.3 GHz)
JDK	BEA JRockit 5.0 R26 JDK (R26.0.0-188) and all later 5.0 releases (64-bit version)
RAM	1 GB minimum
Performance Pack	`server/native/linux/x86_64/libmuxer.so`
Design and Development Tools	WebLogic Server development tools are supported.

Known Issues

This section provides descriptions of known issues for users of WebLogic Server 9.0 on various SUSE Linux 9 configurations:

- Serial Version UID Mismatch
- Issues with Configurations Based on Itanium, AMD64, or 64-bit Xeon
- Issues with Configurations Based on AMD64 or 64-bit Xeon

Serial Version UID Mismatch

A Serial Version UID Mismatch Issue may be encountered if you deploy an application on a latest JVM, but compiled with an earlier JDK release.

Workaround: To be compatible with the serialization of previously compiled applications, modify the `<BEA_HOME>/Weblogic90/common/bin/commEnv.sh` file to include the following command:

```
JAVA_OPTIONS="$JAVA_OPTIONS -Dcom.sun.xml.namespace.QName.useCompatible
SerialVersionUID=1.0"
```

Note: If you intend to deploy new applications with previously compiled applications, they must be recompiled as necessary to have the same Serial Version UID.

Issues with Configurations Based on Itanium, AMD64, or 64-bit Xeon

When installing WebLogic Server on a configuration that includes NFS mounted file systems, you may see the following exception:

```
"Caused by:  java.lang.IllegalArgumentException: Can not list file system roots on this computer"
```

If you see this message, complete the following procedure:

1. Make sure you have a minimum of 600 MB of disk space available.

2. Start the installation again, specifying the flag `-Dspace.detection=false`, as follows:

```
java -Dspace.detection=false –jar server900_generic.jar –mode=console
```

Issues with Configurations Based on AMD64 or 64-bit Xeon

- If a JVM stack overflow error or exception occurs, increase the stack size from 128 KB (the default size) to 256 KB.
- JMS C APIs are not supported on configurations running with a 64-bit JDK.

Related Information

For more information about known issues with BEA products supported on this configuration, including available workarounds, see the appropriate *Release Notes* document.

Issues related to...	Are described in...
WebLogic Server	*BEA WebLogic Server Known and Resolved Issues:* `http://e-docs.bea.com/wls/docs90/issues/known_resolved.html`
Installation and configuration	*BEA Products Installation and Configuration Release Notes*: `http://e-docs.bea.com/common/docs90/relnotes/relnotes.html`

Download and Installation Instructions

This section provides procedures for downloading and installing the software required to run WebLogic Server 9.0 on a configuration based on Novell SUSE Linux Enterprise Server on Itanium, AMD64, or 64-bit Xeon. See the instructions appropriate for your configuration:

- Instructions for SUSE Linux on Itanium
- Instructions for SUSE Linux on AMD64 and 64-bit Xeon

Instructions for SUSE Linux on Itanium

To install WebLogic Server 9.0 on a configuration comprising Novell SUSE Linux Enterprise Server 9 on Itanium, you must have BEA JRockit 5.0 and the installer for WebLogic Server 9.0. This section provides instructions for:

- Downloading and Installing BEA JRockit 5.0
- Downloading and Installing WebLogic Server 9.0

Downloading and Installing BEA JRockit 5.0

1. Go to the BEA downloads site:

   `http://commerce.bea.com`

2. Download and install the 64-bit BEA JRockit™ 5.0 R26 JDK (R26.0.0-188) for Itanium-based machines hosting Linux systems.

3. Update the `JAVA_HOME` environment variable to reflect the JDK installation directory. For example:

   `export JAVA_HOME=<JRockit_installation_directory>`

4. Add your Java executables to the `PATH` environment variable:

   ```
   export PATH=$JAVA_HOME/bin:$PATH
   ```

Downloading and Installing WebLogic Server 9.0

1. Go to the BEA downloads site:

   `http://commerce.bea.com`

2. From the list of installers for WebLogic Server 9.0, select “Novell SUSE Linux (9.0, Itanium)” as your operating system, and download the WebLogic Server package installer.

3. In a browser, open *BEA Products Installation Guide* and find the chapter called “Starting the Installation Program”:

   `http://e-docs.bea.com/common/docs90/install/start.html`

   Scroll down to the heading called “Using Installers with Filenames Ending in .jar” and then, within that section, find “Starting Graphical-Mode Installation for .jar Installation Files.

4. Following the instructions, install WebLogic Server 9.0.

For more information, see *BEA Products Installation Guide*.

Instructions for SUSE Linux on AMD64 and 64-bit Xeon

To install WebLogic Server 9.0 on a configuration comprising Novell SUSE Linux Enterprise Server 9 on AMD64 or 64 bit Xeon, you must have BEA JRockit 5.0 and the installer for WebLogic Server 9.0. This section provides instructions for:

- Downloading and Installing BEA JRockit 5.0
- Downloading and Installing WebLogic Server 9.0

Downloading and Installing BEA JRockit 5.0

1. Go to the BEA downloads site:

   `http://commerce.bea.com`

2. Download and install the BEA JRockit™ 5.0 R26 JDK (R26.0.0) that you want to use:
   - Linux (Intel EM64T & AMD64 - 64 bit)
   - Linux (x86 - 32 bit)

3. Update the `JAVA_HOME` environment variable to reflect the JDK installation directory. For example:

   `export JAVA_HOME=<JRockit_installation_directory>`

4. Add your Java executables to your `PATH` environment variable:

   ```
   export PATH=$JAVA_HOME/bin:$PATH
   ```

Downloading and Installing WebLogic Server 9.0

1. Go to the BEA downloads site:

   `http://commerce.bea.com`

2. From the list of installers for WebLogic Server 9.0, select “Novell SUSE Linux (9 64-bit Xeon/AMD64)” as your operating system, and download the WebLogic Server package installer.

3. In a browser, open *BEA Products Installation Guide* and find the chapter called “Starting the Installation Program”:

   `http://e-docs.bea.com/common/docs90/install/start.html`

Scroll down to the heading called “Using Installers with Filenames Ending in .jar” and then, within that section, find “Starting Graphical-Mode Installation for .jar Installation Files.

4. Following the instructions, install WebLogic Server 9.0.

   If your configuration includes the 32-bit version of JRockit, the installation of WebLogic Server is now complete. If your configuration includes the 64-bit version of JRockit, however, you must also complete steps 5 and 6.

5. Set the `BEA_HOME` variable to point to the directory in which WebLogic Server is installed and export `BEA_HOME`. For example:

   ```
   export BEA_HOME=<your_WebLogic_Server_installation_directory>
   ```

6. In a text editor, open the script that is used to set up your WebLogic Server environment: `$BEA_HOME/weblogic90/common/bin/commEnv.sh`.

   a. Search for the following `case` statement:

   ```
   LINUX|Linux)
      arch=’uname -m’
        if [ "${arch}" = "x86_64" ]; then
        arch=i686
     fi
   ```

   b. Remove or comment out the following lines of code:

   ```
   if [ "${arch}" = "x86_64" ]; then
      arch=i686
   fi
   ```

   Now the `case` statement should appear as follows:

   ```
   LINUX|Linux)
     arch=’uname -m’
     #if [ "${arch}" = "x86_64" ]; then
     #  arch=i686
     #fi
   ```

For more information, see *BEA Products Installation Guide*.

CHAPTER 12

WebLogic Server 8.1 SP5/SP6 on Novell SuSE Linux Enterprise Server 10 (SP1+)

This section provides the following information:

- Configuration Requirements
- Known Issues
- Download and Install Instructions

Related Information

- For information about supported database configurations, Web servers, browsers, interoperability tools, and product support, see:
  - *Supported Configurations for WebLogic Platform 8.1*
- For information about Novell SuSE Linux Enterprise Server®, visit the following Novell Web site: `http://www.novell.com`.

Configuration Requirements

The following section provides requirements for products supported on this configuration:

- "Requirements for Novell SuSE Linux Enterprise Server 10 (SP1+) on x86 with 32-bit JDK" on page 12-2
- "Requirements for Novell SuSE Linux Enterprise Server 10 (SP1+) on 64-bit Xeon and AMD64 with 32-bit JDK" on page 12-2

Table 12-1 Requirements for Novell SuSE Linux Enterprise Server 10 (SP1+) on x86 with 32-bit JDK

Operating System Version and Patches	• SuSE Linux Enterprise Server (SLES) 10 (SP1+) with Kernel 2.6.16.46-0.12-smp, glibc-2.4-31.30 and later SLES service packs and errata
Chip Architecture and Minimum Processor Speed	x86 (1.2GHz)
JDK	JRockit R27.6.0 (1.4.2_17) (32-bit)
RAM	1 GB minimum
Performance Pack	`server/native/linux/i686/libmuxer.so`
Product Support	• WebLogic Server 8.1 SP5 • WebLogic Server 8.1 SP6

Table 12-2 Requirements for Novell SuSE Linux Enterprise Server 10 (SP1+) on 64-bit Xeon and AMD64 with 32-bit JDK

Operating System Version and Patches	• SuSE Linux Enterprise Server (SLES) 10 (SP1+) with Kernel 2.6.16.46-0.12-smp, glibc-2.4-31.30 and later SLES service packs and errata
Chip Architecture and Minimum Processor Speed	• AMD64 (1.3 GHz) • 64-bit Xeon (1.3 GHz)
JDK	JRockit R27.6.0 (1.4.2_17) (32-bit)
RAM	1 GB minimum
Performance Pack	`server/native/linux/i686/libmuxer.so`
Product Support	• WebLogic Server 8.1 SP5 • WebLogic Server 8.1 SP6

Known Issues

- The WebLogic Server startup script, `startWLS.sh` (available in `$BEA_HOME/weblogic81/server/bin`) wrongly initializes the architecture as `x86_64` instead of `i686`. To make sure the architecture is initialized correctly, append the following code to the Linux `case` statement:

```
LINUX|Linux)
arch='uname-m'
if [ "${arch}" = "x86_64" ]; then
arch=i686
fi
```

For information about known issues with products supported on this configuration, including available workarounds, see the appropriate *Release Notes* document.

Issues related to...	Are described in...
WebLogic Server	*WebLogic Server Known and Resolved Issues:* http://e-docs.bea.com/platform/docs81/interm/relnotes.html

Download and Install Instructions

- Installation of WebLogic Server 8.1 SP5 on SuSE Linux Enterprise Server on x86
- Installation of WebLogic Server 8.1 SP5 on SuSE Linux Enterprise Server on 64-bit Xeon/AMD64
- Installation of WebLogic Server 8.1 SP6 on SuSE Linux Enterprise Server on x86
- Installation of WebLogic Server 8.1 SP6 on SuSE Linux Enterprise Server on 64-bit Xeon/AMD64

Installation of WebLogic Server 8.1 SP5 on SuSE Linux Enterprise Server on x86

1. Refer to Metalink Note number 763603.1 on https://metalink.oracle.com for instructions on how to download WebLogic Server 8.1 SP5.

Note: From Metalink Note number 763603.1, select the following WebLogic Server 8.x product to download:

WebLogic Server/Express 8.1 with SP5 for Red Hat Enterprise Linux (Pentium)

The Red Hat Enterprise Linux package installer `server815_linux32.bin` is applicable for SLES 10. There is no separate WebLogic Server 8.1 SP5 package installer for SLES 10.

2. Replace the JVM that is packaged with the `server815_linux32.bin` installer. The JVM needs to be replaced with JRockit R27.6.0 (1.4.2_17) 32-bit. Contact Oracle Support for information on how to get this JRockit version.

3. Install WebLogic Server following the instructions provided in the Starting Graphical-Mode Installation for .bin Installation Files section of *Installing WebLogic Platform*.

   For more information on installing WebLogic Server, refer to Installing WebLogic Platform.

Installation of WebLogic Server 8.1 SP5 on SuSE Linux Enterprise Server on 64-bit Xeon/AMD64

1. Refer to Metalink Note number 763603.1 on https://metalink.oracle.com for instructions on how to download WebLogic Server 8.1 SP5.

   Note: From Metalink Note number 763603.1, select the following WebLogic Server 8.x product to download:

   WebLogic Server/Express 8.1 with SP5 for Red Hat Enterprise Linux (4.0, 64-bit Xeon/AMD64)

   The Red Hat Enterprise Linux package installer `server815_linux32.bin` is applicable for SLES 10. There is no separate WebLogic Server 8.1 SP5 package installer for SLES 10.

2. Replace the JVM that is packaged with the `server815_linux32.bin` installer. The JVM needs to be replaced with JRockit R27.6.0 (1.4.2_17) 32-bit. Contact Oracle Support for information on how to get this JRockit version.

3. Install WebLogic Server following the instructions provided in the Starting Graphical-Mode Installation for .bin Installation Files section of *Installing WebLogic Platform*.

For more information on installing WebLogic Server, refer to Installing WebLogic Platform.

Installation of WebLogic Server 8.1 SP6 on SuSE Linux Enterprise Server on x86

1. Refer to Metalink Note number 763603.1 on https://metalink.oracle.com for instructions on how to download WebLogic Server 8.1 SP6.

   Note: From Metalink Note number 763603.1, select the following WebLogic Server 8.x product to download:

   WebLogic Server/Express 8.1 with SP6 for Novell SuSE Linux Enterprise Server (9, x86)

   There is no separate WebLogic Server 8.1 SP6 package installer for SLES 10.

2. Replace the JVM that is packaged with the `server816_linux32.bin` installer. The JVM needs to be replaced with JRockit R27.6.0 (1.4.2_17) 32-bit. Contact Oracle Support for information on how to get this JRockit version.

3. Install WebLogic Server following the instructions provided in the Starting Graphical-Mode Installation for .bin Installation Files section of *Installing WebLogic Platform*.

   For more information on installing WebLogic Server, refer to Installing WebLogic Platform.

Installation of WebLogic Server 8.1 SP6 on SuSE Linux Enterprise Server on 64-bit Xeon/AMD64

1. Refer to Metalink Note number 763603.1 on https://metalink.oracle.com for instructions on how to download WebLogic Server 8.1 SP6.

   Note: From Metalink Note number 763603.1, select the following WebLogic Server 8.x product to download:

   WebLogic Server/Express 8.1 with SP6 for Novell SuSE Linux Enterprise Server (9, 64-bit Xeon/AMD64)

   There is no separate WebLogic Server 8.1 SP6 package installer for SLES 10.

2. Replace the JVM that is packaged with the `server816_linux32.bin` installer. The JVM needs to be replaced with JRockit R27.6.0 (1.4.2_17) 32-bit. Contact Oracle Support for information on how to get this JRockit version.
3. Install WebLogic Server using the instructions in "Starting Graphical-Mode Installation for .bin Installation Files."

   For more information on installing WebLogic Server, see *Installing WebLogic Platform*: `http://e-docs.bea.com/platform/docs81/install/index.html`.
4. The weblogic server startup script, `startWLS.sh`, under `BEA_HOME/weblogic81/server/bin` wrongly initializes the architecture as x86_64 instead of i686.

   To rectify this issue, append the following to the Linux case statement,

   ```
   LINUX|Linux)
      arch='uname -m'
      if [ "${arch}" = "x86_64" ]; then
      arch=i686
      fi
   ```
5.