



BEA WebLogic Platform™

**7.0 Supported
Configurations: HP
OpenVMS 7.3, 7.3-1 on
Alpha**

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Contents

HP OpenVMS 7.3, 7.3-1 on Alpha with WebLogic Server 7.0 SP1

Configuration Requirements	1-2
Known Issues	1-2
Download and Installation Instructions	1-3
Preparing Your System	1-3
Verifying the Prerequisites on Your System	1-3
Setting Up a Disk, Directory, and Account to Run WebLogic Server	1-3
Downloading WebLogic Server	1-4
Installing the WebLogic Server Kit and Latest Service Pack	1-5
Instructions for Startup, Shutdown, Configuration, and Building Examples with Ant	1-15
Starting WebLogic Server, the PetStore Example, or Other Examples	1-15
Shutting Down WebLogic Server	1-16
Using the Configuration Wizard	1-17
Configuring the WebLogic Server Node Manager	1-17
Using Ant to Build Examples	1-18

HP OpenVMS 7.3, 7.3-1 on Alpha with WebLogic Server 7.0 SP1

Product Components Supported on this Configuration

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

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

✓ Supported
✗ Not supported

This section provides the following information:

- [Configuration Requirements](#)
- [Known Issues](#)
- [Download and Installation Instructions](#)
- [Instructions for Startup, Shutdown, Configuration, and Building Examples with Ant](#)

Related Information

- For information about supported database configurations, Web servers, and browsers, plus support for interoperability tools and WebLogic Platform product support information, see [WebLogic Platform 7.0 Supported Configurations](#).
- For details about HP Open VMS on Alpha, visit the following HP Web site:
<http://h71000.www7.hp.com/index.html>

Configuration Requirements

Table 1-1 Requirements for WebLogic Server 7.0 SP1 on HP OpenVMS 7.3, 7.3-1 on Alpha

Operating System Version and Patches	HP OpenVMS 7.3 or 7.3-1
Chip Architecture and Minimum Processor Speed	HP Alpha processor (433 MHz) with a non-system disk that can be converted or initialized to ODS-5 Note: The disk must not contain page or swap files.
SDK	HP Fast VM 1.3.1-5 JDK 1.3.1 Java™ 2 Runtime Environment, Standard Edition Fast VM (build 1.3.1-5, build J2SDK.v.1.3.1:11/21/2002-13:37, native threads, jit_131)
Design and Development Tools	Supports WebLogic Server development tools.
RAM	512 MB required; 1 GB recommended
Disk Space	For any components of WebLogic Platform or for the full WebLogic Platform product, see Disk Space Requirements .
Performance Pack	None
Node Manager	Included
BEA jDrivers for Oracle	None

Known Issues

This release does not support any WebLogic Server native libraries other than Apache plug-ins. For example, there is no WebLogic Server jDriver or pollmuxer support.

For more information about known issues with this release of WebLogic Server, see the WebLogic Server 7.0 *Release Notes*:

<http://e-docs.bea.com/wls/docs70/notes/index.html>

Download and Installation Instructions

This section provides instructions for the following tasks:

- [Preparing Your System](#)
- [Downloading WebLogic Server](#)
- [Installing the WebLogic Server Kit and Latest Service Pack](#)

Review all the instructions before proceeding. An ODS-5 disk is required.

Preparing Your System

This section provides instructions for the following tasks:

- [Verifying the Prerequisites on Your System](#)
- [Setting Up a Disk, Directory, and Account to Run WebLogic Server](#)

Verifying the Prerequisites on Your System

Obtain and install any necessary patches (ECOs) described on the SDK v 1.3.1 patch installation page, which is located at:

http://h18012.www1.hp.com/java/archive_download/ovms/1.3.1-5/sdk1.3.1_patches.html

Setting Up a Disk, Directory, and Account to Run WebLogic Server

Before starting the WebLogic Server installation process, set up your ODS-5 disk, directory, and account as follows:

1. Log in to the `SYSTEM` account.
2. Create an account called `bea` and set its default device and directory to `wldisk:[bea]`, which you will create in the following steps.

The `bea` account should have the following minimum quotas:

```
/PGFLQUO=2097152/WSDEF=8192/WSEXTENT=32768/WSQUO=16384/BYTLM=400000/FILLM=4096
```

3. Create or convert an ODS-5 disk and define a system logical called `wldisk` pointing to this disk.

Warning: THIS COMMAND WILL DESTROY ALL DATA ON THE SELECTED DRIVE.

```
$ initialize/structure_level=5 DKA100: wldisk
$ define/system/exec wldisk DKA100:
```

Note: Include this command in `sys$startup:systartup_vms.com`, too.

4. On the ODS-5 disk, create a directory called `wldisk:[bea]` and specify the `bea` account as the owner:

```
$ create/dir/own=bea/ver=0 wldisk:[bea]
```

5. On the same disk, create an additional directory in which downloaded kits can be held, such as `wldisk:[kits]`. Specify the `bea` account as the owner. Enter a command line such as the following:

```
$ create/dir/own=bea/ver=0 wldisk:[kits]
```

Note: The following steps are based on the assumption that the system already includes installations of the Java SDK, Java Fast VM, and any required service packs or system ECOs. If this assumption is not true, install all required items now and reboot the system.

6. From the `SYSTEM` account, execute the following commands:

```
$ set default wldisk:[bea]
$ set process/parse_style=extended !long filenames and case sensitivity
$ define decc$argv_parse_style enable !preserve argv case from DCL
$ define decc$efs_case_preserve enable !enable ODS-5 names when you 'un
jar' the kit
$ @sys$common:[java$131.com]java$131_setup.com fast
$ define decc$readdir_dropdotnotype enable
$ define decc$efs_charset enable
$ define java$filename_controls "8" !map mix of UNIX and VMS filenames
into UNIX-style file names
$ define decc$efs_case_special enable !convert filename to lowercase wh
en reporting name in UNIX style
$ define java$classpath []
$ define SYS$SCRATCH 'F$ENVIRONMENT("DEFAULT")
```

7. Before you start running Weblogic Server, verify that the time zone is set correctly in OpenVMS. For details, see Section 6.1, “Setting Correct Time Zone Information on Your System,” in *OpenVMS System Manager's Manual*.

Downloading WebLogic Server

1. Go to the BEA Downloads site:
<http://commerce.beasys.com/showallversions.jsp?family=WLS>

Find the listings for WebLogic Server 7.0 SP1 in the section WebLogic Server Package Installer.

2. Select HP OpenVMS.
3. Download the WebLogic Server installer and BEA's supplemental JAR file for OpenVMS configurations.

BEA's supplemental JAR file for OpenVMS, `wls70sp1_OpenVMS_supp.jar`, is available for download with WebLogic Server. The files delivered in this JAR contain customized commands and settings for OpenVMS. They are copied to the proper directories, automatically, at download time.

The supplemental JAR file contains the following files: `configEnvVMS.com`, `configEnvVMS_template.dat`, `configFilesVMS.com`, `env.com`, `extEnv.com`, `login.com`, `mod_wl.exe`, `mod_wl_ssl.exe`, `parseNodeManager.exe`, `setEnv.com`, `setExamplesEnv.com`, `setWLSEnv.com`, `startExamplesServer.com`, `startManagedWebLogic.com`, `startNodeManager.com`, `startNodeManagerProcess.com`, `startPetStore.com`, `startWebLogic.com`, `startWLS.com`, `startWLSNm.com`, `stopWebLogic.com`, `stopWLS.com`, `vms_javac.com`, `_java.policy`

4. Transfer the installer and the supplemental JAR file to a convenient location, such as `wldisk: [kits]`, using either of two methods:
 - Copy the files to the target location.
 - Send the files via FTP, in binary mode, to the target location.

Installing the WebLogic Server Kit and Latest Service Pack

From the `SYSTEM` account, install the WebLogic Server kit as follows:

1. Set attributes for the downloaded and supplemental JAR files to `stream LF`. For example:


```
$ set file/attr=(rfm=stmlf) wldisk:[kits]pj_server701_generic.jar
$ set file/attr=(rfm=stmlf) wldisk:[kits]wls70sp1_OpenVMS_supp.jar
```
2. Install the WebLogic Server kit by setting the default to `wldisk: [bea]` and using the `java` command to unpack the archive:


```
$ set default wldisk:[bea]
$ java -DJAVA_HOME=/sys$common/java$131 -Djdk.check.override=true -jar
wldisk:[kits]pj_server701_generic.jar
```

These commands are based on the assumption that the JAR file resides in the `wldisk:[kits]` directory. If you put the JAR file in a different directory, modify the `java` command line as necessary.

Note: This command creates the WebLogic Server directory structure, starting with the WebLogic Server directory `[bea.weblogic700]`. Depending on the speed of the machine, this command may run for more than 20 minutes.

3. While the BEA installer is running, note the pathnames for two directories: the BEA Home directory and the Product Installation directory.
4. While the Configuration Wizard is running, note the pathname for the “domain directory.”
5. After the installer and Configuration Wizard finish running, you must run `configEnvVMS.com`. This program prompts you to enter the names of the directories noted in steps 3 and 4, as input for the configuration of the WebLogic Server environment on OpenVMS.

The following listing shows an example of the input and output displayed during a console-mode installation. User responses are **highlighted in bold**. To select Next, simply press Enter.

Listing 1-1 Sample Console-Mode Installation of WebLogic Server 7.0 SP1

```
Unable to instantiate GUI, defaulting to console mode.
Extracting 0%.....100%

<----- BEA Installer - WebLogic Platform 7.0.1.0 ----->

Welcome:

This installer will guide you through the installation of
WebLogic Platform 7.0.1.0. Type "Next" or enter to proceed to
the next prompt. If you want to change data entered
previously, type "Previous". You may quit the installer at
any time by typing "Exit".

Enter [Exit] [Next]> Next

<----- BEA Installer - WebLogic Platform 7.0.1.0 ----->
BEA Systems License Agreement:
```

BEA SYSTEMS, INC. SOFTWARE LICENSE AGREEMENT

NOTE: Please read the license agreement.

Enter [Yes] [No] [Exit] [Previous] [More] > **Yes**

<----- BEA Installer - WebLogic Platform 7.0.1.0 ----->

Choose BEA Home Directory:

BEA Home = [/sys\$sysroot/sysmgr/bea]

Input new BEA Home Directory OR [Exit] [Previous] [Next] > **/wldisk/bea**

NOTE: Record the BEA Home directory for reference later.

<----- BEA Installer - WebLogic Platform 7.0.1.0 ----->

Choose BEA Home Directory:

BEA home choice

- >1| Yes, Use this BEA home directory [/wldisk/bea]
- 2| No, return to BEA home directory selection

Enter index number to select OR [Exit] [Previous] [Next] > **1**

<----- BEA Installer - WebLogic Platform 7.0.1.0 ----->

Choose Install Type:

- >1| Typical Installation (Install all software components, including program files and examples.)
- 2| Custom Installation (Choose software components to install and optionally create custom application domains. Recommended for advanced users.)

Enter index number to select OR [Exit] [Previous] [Next] > **2**

<----- BEA Installer - WebLogic Platform 7.0.1.0 ----->

Choose Components:

HP OpenVMS 7.3, 7.3-1 on Alpha with WebLogic Server 7.0 SP1

```
Release 7.0.1.0
|_____WebLogic Server [0] x
|       |_____Server [0.0] x
|       |_____Workshop [0.1] x
|       |_____Server Examples [0.2] x
```

Enter number exactly as it appears in brackets to toggle selection OR
[Exit] [Previous] [Next] > **Next**

<----- BEA Installer - WebLogic Platform 7.0.1.0 ----->

Choose Components:

```
->1| Yes, use these component selections
    2| No, return to component selection
```

Enter index number to select OR [Exit] [Previous] [Next] > **1**

<----- WebLogic Platform Installer - WebLogic Platform 7.0.1.0 ----->

Choose Product Directory:

```
Product Installation Directory = [/wldisk/bea/weblogic700]
```

Input new Product Installation Directory OR [Exit] [Previous] [Next] > **Next**

<----- WebLogic Platform Installer - WebLogic Platform 7.0.1.0 ----->

Choose Product Directory:

```
->1| Yes, use this product directory [/wldisk/bea/weblogic700]
    2| No, select another product directory
```

NOTE: Record the Product Installation directory for reference later.

Enter index number to select OR [Exit] [Previous] [Next] > **1**

<----- WebLogic Platform Installer - WebLogic Platform 7.0.1.0 ----->

Copying files.

```

0%           25%           50%           75%           100%
[-----|-----|-----|-----]
[*****]
(NOTE: You may notice a delay at this point. Do not abort.)
Copying JDK....

```

```
<----- WebLogic Platform Installer - WebLogic Platform 7.0.1.0 ----->
```

Run Configuration Wizard

- >1 - Yes, run Configuration Wizard to create my application domain
- 2 - No, skip Configuration Wizard

Enter index number to select OR [Exit][Previous][Next]> 1

```
<----- BEA Configuration Wizard - WebLogic Platform 7.0.1.0 ----->
```

Choose Domain Type

- >1 - WLS Examples
- 2 - WLS Petstore
- 3 - WLS Domain
- 4 - WebLogic Workshop

Enter a number or [Exit][Previous][Next]> 3

```
<----- BEA Configuration Wizard - WebLogic Platform 7.0.1.0 ----->
```

Choose Server Type

- >1 - Single Server (Standalone Server)
- 2 - Admin Server with Managed Server(s)
- 3 - Admin Server with Clustered Managed Server(s)
- 4 - Managed Server (with owning Admin Server configuration)

Enter a number or [Exit][Previous][Next]> 1

```
<----- BEA Configuration Wizard - WebLogic Platform 7.0.1.0 ----->
```

HP OpenVMS 7.3, 7.3-1 on Alpha with WebLogic Server 7.0 SP1

Choose Domain Name

- 1 - Modify current selection(mydomain)
- >2 - Use current name

Enter a number or [Exit] [Previous] [Next]> **2**

<----- BEA Configuration Wizard - WebLogic Platform 7.0.1.0 ----->

Configure Single Server

- 1- Modify Server Name (myserver)
- 2- Modify Server Listen Address ()
- 3- Modify Server Listen Port (7001)
- 4- Modify Server SSL Listen Port (7002)

Enter a number or [Exit] [Previous] [Next]> **Next**

<----- BEA Configuration Wizard - WebLogic Platform 7.0.1.0 ----->

Choose Location to Create Domain

- 1 - Modify current selection
 (/wldisk/bea/user_projects)
- >2 - Use current directory

The domain directory will be located at:
 (/wldisk/bea/user_projects/mydomain)

NOTE: Record domain directory for reference later.

Enter a number or [Exit] [Previous] [Next]> **Next**

<----- BEA Configuration Wizard - WebLogic Platform 7.0.1.0 ----->

Enter User Name or [Exit] [Previous] [Next]> **system**

Enter Password or [Exit] [Previous] [Next]> **weblogic**

Enter Verify Password or [Exit] [Previous] [Next]> **weblogic**

```
<----- BEA Configuration Wizard - WebLogic Platform 7.0.1.0 ----->
```

```
Configuration Summary
```

```
Domain Name:          mydomain
Server Type:         Single Server (Standalone Server)
Domain Template Name: WLS Domain
Install Directory:
/wldisk/bea/user_projects/mydomain
Listen Address:      localhost and primary IP address
Listen Port:         7001
SSL Listen Port:     7002
User Name:           system
Password:            *****
```

```
Enter [Exit] [Previous] [Create] > Create
```

```
<----- BEA Configuration Wizard - WebLogic Platform 7.0.1.0 ----->
```

```
Domain Configuration Wizard has successfully created "mydomain" domain
```

```
Enter [Exit] [Next] > Next
```

```
<----- BEA Configuration Wizard - WebLogic Platform 7.0.1.0 ----->
```

```
Configuration Wizard Complete
```

- 1 - Run Configuration Wizard again.
- >2 - End Configuration Wizard.

```
Enter [Exit] [Previous] [Next] > 2
```

```
<----- BEA Configuration Wizard - WebLogic Platform 7.0.1.0 ----->
```

```
Install Complete
```

```
Congratulations! WebLogic Platform 7.0.1.0
has been successfully installed to
/wldisk/weblogic700/bea/weblogic700.
```

Press any key to continue OR [Exit]> **Exit**

<----- BEA Configuration Wizard - WebLogic Platform 7.0.1.0 ----->

Clean up process in progress ...

6. (optional) In the current directory, delete all the temporary directories with names similar that contain special characters, such as `bea16107^.tmp.DIR;1`. These directories were created during the installation process; they are no longer needed by WebLogic Server.
7. If you plan to run WebLogic Server clusters before rebooting your system, set the quotas required by the Administration Server and Managed Servers by running the following commands:

```
$ tcpip set protocol udp/quota=send:32768
$ tcpip set protocol udp/quota=receive:32768
```

If you want these commands to be executed automatically the next time the system is booted, add them to `SYS$STARTUP:SYSTARTUP_VMS.COM`.

8. A 30-day evaluation license is provided with your download and a normal installation. To continue using WebLogic Server after the initial 30-day period expires, you must obtain a new license from BEA and complete the following procedure:
 - a. Copy your new BEA license to `wldisk:[bea.weblogic700]`.
 - b. Set the default to `wldisk:[bea.weblogic700]`
 - c. Use the `java` command to run `LicenseMerger`, which installs the new WebLogic Server license. For example:
9. Now use the `jar` command to unpack the contents of `wls70sp1_OpenVMS_supp.jar`, the file that contains OpenVMS command procedures, which you copied to a convenient location, such as `wldisk:[kits]`, earlier. For example:

```
$ copy *new_license_filename* to wldisk:[bea.weblogic700]
$ set default wldisk:[bea]
$ java -cp [.utils]utils.jar com.bea.installer.registry.LicenseMerge
r license.bea wldisk:[bea.weblogic700]*new_license_filename*

$ set default wldisk:[kits]
$ jar xf wldisk:[kits]wls70sp1_OpenVMS_supp.jar
```

10. Log out of the SYSTEM account.
11. Log in to the bea account and configure your WebLogic Server environment on OpenVMS by running a command procedure, such as the following script.

Listing 1-2 Sample Configuration of a WebLogic Server Environment

```

$ set default wldisk:[kits]
$ @configEnvVMS

                Configure BEA WebLogic Server Environment

Enter the BEA Home location (e.g., WLDISK:[BEA]? wldisk:[bea])

Enter the BEA WebLogic Product location (e.g.,WLDISK:[BEA.WEBLOGIC700]?
wldisk:[bea.weblogic700])

Creating WLDISK:[kit]setEnvVMS.com . . .
Create complete

Install OpenVMS Command Procedure Files.

If modifications were made to installed command procedure
files on this system please save them in an alternate
directory previous to running this install.

Install OpenVMS Command Procedure Files (Y/N)? Y
Installing OpenVMS Command Procedure Files...
OpenVMS Command Procedure Files installed.

The BEA Configuration Wizard configures a WebLogic Server Domain.
There are additional OpenVMS Command Procedures related to this
domain that can be installed.

Has a WebLogic Server Domain been configured (Y/N)? Y

Enter the BEA WebLogic domain location
(e.g., WLDISK:[BEA.USER_PROJECTS.MYDOMAIN]? wldisk:[bea.user_projects.mydomain])

Copy command procedures to wldisk:[bea.user_projects.mydomain] (Y/N)? Y

Domain related command procedures installed.

```

12. Log out of the bea account.

Your installation and configuration are now complete.

Instructions for Startup, Shutdown, Configuration, and Building Examples with Ant

This section provides instructions for the following tasks:

- [Starting WebLogic Server, the PetStore Example, or Other Examples](#)
- [Shutting Down WebLogic Server](#)
- [Using the Configuration Wizard](#)
- [Configuring the WebLogic Server Node Manager](#)
- [Using Ant to Build Examples](#)

Starting WebLogic Server, the PetStore Example, or Other Examples

To start WebLogic Server, complete the following procedure:

1. Log in to the `bea` account.

Note: At startup time, WebLogic Server 7.0 automatically updates the `config.xml` file, based on your current `config.xml` and dynamic environment. If you want to preserve your `config.xml` file, make a copy of it (for example, `config.xml_backup`) and copy it to `config.xml` before starting the server. Currently WebLogic Server 7.0 does not provide a way to turn off this feature.

2. Choose one of the following operations:

- Start WebLogic Server by running the following commands:

```
$ set def wldisk:[bea.user_projects.mydomain]
$ @startWebLogic
WebLogic Server Password: *enter the password you
supplied during installation*
```

This process takes a few minutes. The following messages are displayed:

```
WebLogic Server started
ListenThread listening on port 7001.
```

Now you can run your application with WebLogic Server.

During startup a `startwls_environment.log` is produced in the directory.

- Start the PetStore example by running the following commands:

```
$ set def wldisk:[bea.weblogic700.samples.server.config.petstore]
$ @startPetStore
```

Using Internet Explorer, access the PetStore application using the following URL:

`http://hostname:7001/petstore/index.jsp`

Here, *hostname* is the name or IP address of the machine on which you installed the WebLogic Server software.

Note: You can modify the default username (*weblogic*) and password (*weblogic*) by editing the `startPetStore.com` command. To verify that your installation is complete, try running the PetStore example.

During startup a `startwls_environment.log` is produced in the directory.

- Start additional examples:

```
$ set def wldisk:[bea.weblogic700.samples.server.config.examples]
$ @startExamplesServer
```

Using Internet Explorer, access the example applications using the following URL:

`http://hostname:7001/examplesWebApp/index.jsp`

Here, *hostname* is the name or IP address of the machine on which you installed the WebLogic Server software.

Note: The default username (*weblogic*) and password (*weblogic*) can be modified by editing the `startExamplesServer.com` command. To learn more about using WebLogic Server, try running additional examples.

During startup a `startwls_environment.log` is produced in the directory.

Shutting Down WebLogic Server

To shut down WebLogic Server, run the following command:

```
$ @wldisk:[bea.weblogic700]stopWebLogic.com port user password proceed
```

Replace the arguments shown in *italics* with the values described.

For this argument ...	Specify this value ...
<i>port</i>	The appropriate port number
<i>user</i>	Your WebLogic Server username, which is case-sensitive.

<i>password</i>	Your WebLogic Server password, which is case-sensitive.
<i>proceed</i>	Whether you are ready to proceed. If you are ready, enter Yes or Y; if not, enter No or N.

If you do not specify these arguments on the command line, you are prompted to provide them after you launch the command.

Because the username and password are case sensitive, you must specify these two arguments within double quotes when providing them interactively. For example:

```
7001 "username" "Password" Y
```

The use of double quotes ensures that the use of lowercase and uppercase in the enclosed arguments is preserved and interpreted correctly.

Using the Configuration Wizard

If you want to set up your domains by running the Configuration Wizard, you must set the default to the [.common.lib] subdirectory of the WebLogic Server installation directory. For example:

```
$ set def wldisk:[bea.weblogic700.common.lib]
$ java -Dplatform.properties=platform.properties -jar dmwiz.jar
```

To run in console mode:

```
$ set def wldisk:[bea.weblogic700.common.lib]
$ java -Dplatform.properties=platform.properties -jar dmwiz.jar -mode=console
```

Note: The Configuration Wizard does not create DCL scripts to start and stop WebLogic Server. You may want to create start/stop server scripts, based on the sample scripts available in the `petstore` example or the `examples` directories.

Configuring the WebLogic Server Node Manager

Note: For an overview of the WebLogic Server Node Manager, see “Managing Server Availability with Node Manager” at http://e-docs.bea.com/wls/docs70/admin_domain/nodemgr.html

If your deployment of WebLogic Server requires the starting and stopping of Managed Servers from the Administration Server Console, be sure to complete the following procedure:

1. Log in to the `bea` account.

2. Edit `WL_HOME:[server.bin]startNodeManager.com` and modify the `weblogic.ListenAddress` with the IP address of the system on which the Node Manager will run. For example:

```
$ WRITE COMMAND "-Dweblogic.ListenAddress=11.22.33.44"
```

3. Open the `WL_HOME:[common.nodemanager.config]nodemanager.hosts` file and add the IP address of the Admin Server to the end of the file. For example:

```
# localhost, loopback
localhost
127.0.0.1
22.33.44.55
```

4. Start the Node Manager to create a process named `WLS_NODEMANAGER` on port 5555:

```
$ SET DEFAULT WL_HOME:[server.bin]
$ @startNodeManagerProcess
```

5. While the Node Manager process is running:

- a. Invoke the Admin Server Console.
- b. Go to http://e-docs.bea.com/wls/docs70/admin_domain/nodemanager.html.
- c. Complete the instructions provided in “Configure a Machine to Use Node Manager.”
- d. Complete the instructions provided in “Configure Startup Arguments for Managed Servers.”

You can now use the Node Manager to start and stop Managed Servers from the Admin Server Console.

Using Ant to Build Examples

1. Log in to the bea account.
2. Set up the Examples environment:

```
$ @wldisk:[bea.weblogic700.samples.server.config.examples]setExamplesEnv.com
$ SET DEFAULT wldisk:[bea.weblogic700.samples.server.src.examples.jndi]
```

3. To build the example, enter the following command:

```
$ java org.apache.tools.ant.Main
```