



# BEAGuardian™ 1.1

## Installation Guide



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# Installing BEA Guardian 1.1

This document provides instructions for installing and upgrading to BEA Guardian 1.1. Also included are instructions for starting the Guardian User Interface and Guardian Command Line Interface (Guardian Headless Mode). Topics include:

- Overview
  - Supported Configurations
  - Supported Targets
  - Summary of Installation Procedures
- Install and Upgrade to Guardian 1.1
  - Step 1: Install Guardian 1.1
  - Step 2: Deploy the Guardian Agent
  - Step 3: (Upgrades, Only) Install and Run the Upgrade Plug-in
- Install Guardian 1.1 in Text Mode
- Launch Guardian 1.1
  - Start the Guardian User Interface
  - Start the Guardian Command Line Interface

## Overview

This section describes BEA Guardian 1.1 supported configurations and supported targets. Also provided is a brief overview of installation procedures, and important information for upgrading from Guardian 1.0.x to Guardian 1.1.

## Product Support Information

This section contains the following information:

- [Supported Configurations](#)
  - [Supported Operating Systems](#)
  - [Supported Java Runtime Versions](#)
- [Supported Targets](#)

## Supported Configurations

BEA Guardian 1.1 requires Java Version 5 (Version 1.5) or above.

The following sections outline the operating systems and Java Runtime Environment versions supported by Guardian 1.1.

## Supported Operating Systems

BEA Guardian supports the following operating systems:

**Table 1-1 Supported Operating Systems**

Operating System	Vendor/Version
Windows	XP, 2003, 2000
Linux	Red Hat Enterprise Linux 3, 4 <b>Note:</b> Requires Mozilla

## Supported Java Runtime Versions

BEA Guardian 1.1 supports the following Java Runtime Environment (JRE) versions:

**Table 1-2 Supported Java Runtime Environment Versions**

Vendor	JRE Version
BEA JRockit	Java Version 5 (Version 1.5) or above
Sun Microsystems JRE	Version 5 (Version 1.5) or above

## Supported Targets

Supported Targets are the environments that BEA Guardian can target for evaluations. This is distinct from supported configurations, which are the environments in which the Guardian application can be installed and executed.

Basically, Guardian can target any platform for evaluation that allows it to install and communicate with the Guardian Agent. In addition, the Guardian Agent must have access to a specific set of Java system information properties and methods. The BEA products capable of supporting these operations are based on WebLogic Server Versions 8.1 and above.

The following BEA product versions are supported:

**Note:** For the most current information on Supported BEA product versions, please see the *Guardian 1.1 Release Notes*.

**Table 1-3 Supported BEA Product Versions**

BEA Product	Versions
AquaLogic Data Services Platform	2.0 and above
AquaLogic Service Bus	2.1 and above
WebLogic Communications Platform SIP Server	3.0 and above
WebLogic Integration	8.1 and above
WebLogic Platform	8.1 and above
WebLogic Portal	8.1 and above
WebLogic RFID Enterprise Server	1.1 2.0
WebLogic Server	8.1 and above
WebLogic Virtual Edition	1.1

## Summary of Installation Procedures

There are two basic types of Guardian 1.1 installations:

- **New Installation** — If you are installing BEA Guardian for the first time—that is, there are no previous versions installed on your system—there are two basic steps:
  - [Step 1: Install Guardian 1.1](#) — The BEA Guardian 1.1 installer includes an Installation Wizard that guides you through the process of installing the Guardian application. You can also run the installer in Text Mode on both Windows and Linux (for instructions, see [“Install Guardian 1.1 in Text Mode” on page 12](#)). Perform Step 1 for both new and upgrade installations.
  - [Step 2: Deploy the Guardian Agent](#) — After installing Guardian 1.1, you must deploy the Guardian Agent to any WebLogic Server instances you wish to evaluate. If this is a new installation, the installation is now complete. If this is an upgrade installation, proceed to Step 3.

- **Upgrade from Guardian 1.0.x to Guardian 1.1** — If you are upgrading from a previous version of Guardian to Guardian 1.1, there is one more step to perform to complete the installation:
  - **Step 3: (Upgrades, Only) Install and Run the Upgrade Plug-in** — After installing Guardian 1.1 and deploying the Guardian Agent, you must install and run the Upgrade Plug-in to complete the upgrade process.

**IMPORTANT:** If upgrading from Guardian 1.0.x, you must install Guardian 1.1 in a different location than the previous Guardian 1.0.x installation. Otherwise, the Guardian Registry will not be installed properly and Guardian will not be able to start. In addition, you will not be able to import your previous Workspace data. It is also recommended that you back up your previous 1.0.x installation before proceeding, to ensure that your data is preserved.

## Install and Upgrade to Guardian 1.1

Installing Guardian 1.1 involves the following basic tasks:

- **Step 1: Install Guardian 1.1.**
- **Step 2: Deploy the Guardian Agent.**
- **Step 3: (Upgrades, Only) Install and Run the Upgrade Plug-in.**

The following sections provide step-by-step instructions for each of these tasks.

### Step 1: Install Guardian 1.1

**IMPORTANT:** If upgrading from Guardian 1.0.x, you must install Guardian 1.1 in a different location than the previous Guardian 1.0.x installation. Otherwise, the Registry will not be installed properly and Guardian will not be able to start. In addition, you will not be able to import your previous data. It is also recommended that you back up your previous 1.0.x installation before proceeding, to ensure that your data is preserved.

To install Guardian 1.1, do the following:

1. Download the BEA Guardian 1.1 Installer from the BEA Products Download Site.

Go to the following URL and click **BEA Guardian** to go to the BEA Guardian download site:

<http://commerce.bea.com/>

2. Start the Guardian 1.1 installer.

– **For Windows:**

To start the installer, double-click on the following executable filename, or enter it as a command at the Windows command prompt:

```
guardian_installer.exe
```

– **For Linux:**

```
./guardian110_linux32.bin
```

This displays the first page of the Installation Wizard, in which you can select the language for the installation.

3. Select the language from the drop down menu at the bottom of the page, and click **OK**.

The wizard proceeds to the **Introduction** page.

4. Read the introduction and click **Next**.

The wizard proceeds to the **License Agreement** page.

5. Accept the License Agreement to proceed.

Read the license terms and select **I accept the terms of the License Agreement**. Then click **Next** to proceed to the **Choose Install Folder** page.

6. Select the location in which to install Guardian.

Accept the default, or click **Choose...** to open a file browser from which you can select a location.

**Caution:** If you are upgrading from Guardian 1.0.x to Guardian 1.1, do **not** accept the default. Be sure to install Guardian 1.1 in a different location than the previous Guardian 1.0.x installation. Otherwise, the Registry will not be installed properly and Guardian will not be able to start.

7. Click **Next**.

This proceeds to the **Pre-installation Summary** page.

8. Review your installation details and click **Install** to proceed.

**Note:** If you need to change a setting, click **Previous** to backtrack to the appropriate page and change your setting.

The wizard displays the **Installing BEA Guardian** progress page. When the installation finishes, the **Install Complete** page displays.

9. Click **Done** to dismiss the wizard.

You are now ready to deploy the Guardian Agent in the WebLogic Administration Server. Proceed to the section entitled, [“Step 2: Deploy the Guardian Agent” on page 7.](#)

## Step 2: Deploy the Guardian Agent

After installing Guardian 1.1, you must deploy the new Guardian Agent to any WebLogic Server instances you wish to evaluate.

For a single instance, you can use the WebLogic Server Administration Console to uninstall the previous Guardian Agent and then install and deploy the new Agent. The WebLogic Server Administration Console provides a series of Web-based deployment assistants that guide you through the deployment process. For a summary of the steps involved in deploying the Guardian Agent, see [“Deploy Guardian Agent from WebLogic Server Administration Console” on page 7.](#) For complete instructions on deploying applications, see the Administration Console Online Help, and WebLogic Server documentation.

If you want to deploy the Guardian Agent to multiple servers, you can use the WebLogic Scripting Tool to automate this task. For basic instructions, see [“Deploy Guardian Agent to Multiple Servers” on page 9.](#) For complete instructions on using the WebLogic Scripting tool to deploy applications, see the WebLogic Scripting Tool documentation.

**Note:** If you are upgrading from Guardian 1.0.x to Guardian 1.1, after deploying the Agent, you must also install and run the Upgrade Plug-in, as described in [“Step 3: \(Upgrades, Only\) Install and Run the Upgrade Plug-in” on page 10.](#)

### Deploy Guardian Agent from WebLogic Server Administration Console

You can use the WebLogic Server Administration Console to manually deploy the Guardian Agent to the Administration Server. This section provides a summary of the basic steps involved for WebLogic Server versions 9.0 and above. For complete instructions for your specific version of WebLogic Server, please see your WebLogic Server documentation and Administration Console Online Help. Please also refer to the *Guardian 1.1 Release Notes* for additional important information.

To use the Administration Console to manually deploy the Guardian Agent, do the following:

1. Start the WebLogic Administration Console, and select **Lock & Edit** in the left pane.

**Caution:** Make sure that **Lock & Edit** is selected for each of the following procedures.

2. Stop the existing Guardian Agent deployment in the WebLogic Server.

By default, the Guardian Agent is named **bea-guardian-agent**.

**Note:** For detailed instructions for this procedure, see “Start and stop a deployed Enterprise Application” in the WebLogic Administration Console Online Help.

3. Delete the existing Guardian Agent deployment from the WebLogic Server, and activate your changes.

**Note:** For detailed instructions for this procedure, see “Delete an Enterprise Application” in the WebLogic Administration Console Online Help.

4. Install the new Guardian Agent in the WebLogic Server, and activate your changes.

The Guardian Agent is a WAR file named `bea-guardian-agent.war`, and is located in the following directory:

```
<root>\guardian\plugins\com.bea.guardian.agent.weblogic_<guard-version>\weblogic<wls-version>
```

Where:

`<root>` is the parent directory for the Guardian installation. For example:  
C:\Program Files

`<guard-version>` is the current (updated) Guardian version.

`<wls-version>` is the version of WebLogic Server in which you are deploying this Agent.

If you are installing the Agent on WebLogic 8.1.x, install the `bea-guardian-agent.war` file located in the `..\weblogic8` directory. For WebLogic Server 9.x and 10.x, install the `bea-guardian-agent.war` file located in the `..\weblogic9` directory.

**WARNING:** Do not change the name of the Guardian Agent when deploying it. Be sure to use the default name, `bea-guardian-agent.war`.

**Note:** For detailed instructions for this procedure, see the section entitled, “Install an Enterprise Application” in the Administration Console Online Help.

5. Start the new Guardian Agent in the WebLogic Administration Server.

**Note:** For detailed instructions for this procedure, see “Start and stop a deployed Enterprise Application” in the WebLogic Administration Console Online Help.

6. Start Guardian and activate the necessary domains in Guardian.

**Note:** For detailed instructions for this procedure, see “Activate Domain” in the BEA Guardian Online Help.

If this is a new installation, you can now use Guardian to evaluate the activated domains in your environment. If this is an upgrade installation, proceed to [“Step 3: \(Upgrades, Only\) Install and Run the Upgrade Plug-in” on page 10.](#)

## Deploy Guardian Agent to Multiple Servers

If you need to deploy the Guardian Agent to multiple servers, you can use the `weblogic.Deployer` command in the WebLogic Server Command Line Interface to automate this task. You can also use the WebLogic Scripting Tool (WLST) to deploy the Agent. This section provides basic instructions for using the `weblogic.Deployer` command for this purpose. For instructions on using WLST, please see the WebLogic Scripting Tool documentation.

**WARNING:** Do not change the name of the Guardian Agent when deploying it. Be sure to use the default name, `bea-guardian-agent.war`.

At the WebLogic Server CLI prompt, enter the following command line:

```
java weblogic.Deployer -debug -adminurl http://<admin_url>:<port> -username
<username> -password <password> -targets adminserver,<cluster1>,<cluster2>
-deploy -sourcerootforupload <dir_path>\bea-guardian-agent.war
```

Where:

- `<admin_url>` is the URL for the WLS Admin Server.
- `<port>` is the port number for the WLS Admin Server.
- `<cluster1>`, `<cluster2>` are the names of all configured clusters.
- `<dir_path>` is the directory path to the Guardian Agent WAR file (`bea-guardian-agent.war`).

**Note:** If this is an upgrade installation, after deploying the Agents, proceed to [“Step 3: \(Upgrades, Only\) Install and Run the Upgrade Plug-in” on page 10.](#)

## Step 3: (Upgrades, Only) Install and Run the Upgrade Plug-in

If you are upgrading from Guardian 1.0.x to Guardian 1.1, you must install and run the Upgrade Plug-in to complete the upgrade procedure. The Upgrade Plug-in imports your Guardian 1.0 Workspace into your current Guardian 1.1 workspace, and updates the Guardian 1.1 Registry.

To install and run the Upgrade Plug-in, do the following:

1. Download the Guardian 1.1 Upgrade Plug-in from the BEA Dev2Dev web site.

- a. Download the following file:

```
com.bea.guardian.ui.importing_1.0.0.jar
```

This is a plug-in for importing your Guardian 1.0.x Registry into Guardian 1.1.

2. Copy the plug-in JAR into the `plugins` directory in your Guardian 1.1 installation.

Copy the `com.bea.guardian.ui.importing_1.0.0.jar` file to the following directory:

```
<Guardian_Root>\guardian\plugins\
```

Where:

```
<Guardian_Root> is the Guardian installation root directory.
```

3. Start the Guardian 1.1 User Interface.

You can start the BEA Guardian User Interface (GUI) from either the Windows **Start** menu, or by invoking the `guardian.exe` executable in your Guardian installation directory. For details, see [“Start the Guardian User Interface” on page 14](#).

Guardian first displays the initial splash screen while loading, and then displays the **Select Workspace** dialog box.

4. Select or create the folder (directory) to use as your Guardian 1.1 Workspace folder.

**IMPORTANT:** For this upgrade procedure, do **not** accept the default location. Also, make sure this directory is not located within the Guardian installation directory, and is in a different location than your original Guardian 1.0.x Workspace.

**To use an existing folder:** Browse to the folder location and select the folder.

**To create a new folder:**

- a. Click **Make New Folder**.
- b. Select the location for the folder.

- c. Enter the name of the folder
- d. Click **OK**.

This creates or selects the folder and returns to the **Select Workspace** dialog box.

5. (Optional) Specify this as the default Workspace.

If you do not want to select the Workspace each time you start Guardian, select the checkbox for **Use this as the default workspace and do not ask again**. This is particularly useful to prevent accidentally accepting the default Workspace, and having to reconstruct or reimport your Workspace data. For the purposes of this upgrade, it is recommended that you select this option until the upgrade is complete. You can change this setting at a later time by selecting **Prompt for workspace on startup** in the Guardian **Preferences** configuration page. For instructions, open the Guardian 1.1 Online Help and select **Tasks > Workspaces > Select Workspace**.

6. Click **Finish**.

Guardian creates the new Workspace and starts Guardian.

7. Import your old Guardian 1.0.x Workspace into Guardian 1.1.

In the Guardian User Interface, do the following:

- a. Select **File > Import** to open the **Import** wizard.
- b. In the folder tree, open the **Guardian** folder and select **Guardian 1.0 Workspace**.
- c. Click **Next** to proceed to the **Select 1.0 Installation** page.
- d. Click **Browse** to open a file browser from which you can select your Guardian 1.0 installation directory.
- e. Click **OK** to select the directory and return to the **Select 1.0 Installation** page.
- f. Click **Next** to proceed to the **Select 1.0 Workspaces** page.
- g. Select a Workspace and click **Finish**.

Guardian proceeds to import the selected Workspace. This may take a few seconds to complete.

8. Restart Guardian.

Restart Guardian to automatically add the domains from the imported Workspace to the **Domain Explorer** tree. Until you restart Guardian, the imported data will not be displayed in the Navigation Pane Explorers.

The installation is now complete, and you can use Guardian 1.1 to evaluate your environment.

## Check Product Configuration

You can use the **Product Configuration** page to check the current configuration for a Guardian installation.

To check the current Guardian configuration, do the following:

1. Select **Help > Manage Guardian** to open the **Product Configuration** page.
2. In the **Product Configuration** tree (left pane), expand the **BEA Guardian** folder and subfolders.

Check the version numbers for each item.

## Install Guardian 1.1 in Text Mode

You can also run the Guardian 1.1 installer in Text Mode, if you do not want to use the Installation Wizard Graphical User Interface. The following sections provide instructions for the following:

- [Run the Installer in Text Mode on Windows](#)
- [Run the Installer in Text Mode on Linux](#)

## Run the Installer in Text Mode on Windows

On Windows, you can run the Guardian Installer in Text Mode in a Command Prompt window.

To install Guardian 1.1 on Windows using Text Mode, do the following:

1. Download the BEA Guardian 1.1 Installer from the BEA Products Download Site.

Go to the following URL and click **BEA Guardian** to go to the BEA Guardian download site:

`http://commerce.bea.com/`

2. Open a Windows Command Prompt window.

3. Change to the directory in which you downloaded the Guardian 1.1 installer, and run the following command:

```
guardian110_win32.exe -i console
```

The installation script prompts you for your installation information.

**WARNING:** If you are upgrading from Guardian 1.0.x to Guardian 1.1, do not accept the default installation location. You must install Guardian 1.1 in a location separate from the Guardian 1.0.x installation. Otherwise, the Registry will not be installed properly and Guardian will not be able to start.

When the installation is finished, a success message is displayed. You are now ready to deploy the Guardian Agent in the WebLogic Administration Server. Proceed to the section entitled, [“Step 2: Deploy the Guardian Agent” on page 7.](#)

## Run the Installer in Text Mode on Linux

On Linux, you can run the Guardian Installer in Text Mode using Linux Console Mode.

To install Guardian 1.1 from Linux Console Mode, do the following:

1. Download the BEA Guardian 1.1 Installer from the BEA Products Download Site.

Go to the following URL and click **BEA Guardian** to go to the BEA Guardian download site:

```
http://commerce.bea.com/
```

2. **cd** to the directory in which you downloaded the Guardian 1.1 installer, and enter the following command:

```
./ guardian_installer.bin -i console
```

The installation script prompts you for your installation information.

**WARNING:** If you are upgrading from Guardian 1.0.x to Guardian 1.1, do not accept the default installation location. You must install Guardian 1.1 in a location separate from the Guardian 1.0.x installation. Otherwise, the Registry will not be installed properly and Guardian will not be able to start.

When the installation is finished, a success message is displayed. You are now ready to deploy the Guardian Agent in the WebLogic Administration Server. Proceed to the section entitled, [“Step 2: Deploy the Guardian Agent” on page 7.](#)

## Launch Guardian 1.1

BEA Guardian has two modes of operation:

- **Guardian User Interface** — This is a Graphical User Interface (GUI) that provides more functionality and is much easier to use. In general, you will use the Guardian User Interface to perform the majority of Guardian tasks and activities. However, this interface does not include the scripting capabilities provided by the Command Line Interface. For instructions on starting the GUI, see [“Start the Guardian User Interface” on page 14](#).
- **Guarding Command Line Interface (CLI)** — The Command Line Interface provides scripting capabilities that the Graphical User Interface does not provide. Scripts are useful for automating repetitive or complex tasks that are performed frequently. For instructions on starting the CLI, see [“Start the Guardian Command Line Interface” on page 16](#).

## Start the Guardian User Interface

The Guardian 1.1 executable is named `guardian.exe`, and is located in the Guardian installation home directory, as follows:

```
<Guardian_Root>\guardian.exe
```

Where:

```
<Guardian_Root> is the Guardian installation directory.
```

Each time you start the Guardian User Interface, you are prompted to select a Guardian Workspace. If you do not want to select the Workspace each time you start Guardian, you can specify a default location and select an option to skip this process in the future. Instructions are provided below. For a description of the Guardian Workspace, see “Chapter 1: About Guardian” in the *Guardian 1.1 User Guide*.

To start Guardian and select a Workspace, do the following:

1. Open the Guardian User Interface.

- **In Windows:**

Select **Start > BEA Guardian > Guardian** or double-click on `guardian.exe` in your Guardian installation home folder.

- **In Linux:**

Change directories to the Guardian 1.1 installation directory, and enter the following command:

```
./guardian.sh
```

Guardian first displays the initial splash screen while loading, and then displays the **Select Workspace** dialog box.

2. Select or create the folder (directory) to use as your Workspace folder.

**IMPORTANT:** Do **not** place this folder within the Guardian installation directory. Otherwise, when conducting automatic updates of Guardian, your Workspace will be overwritten and the data will be lost. In addition, if you are upgrading from Guardian 1.0.x to Guardian 1.1 and have not yet imported your previous Workspace, do **not** select the default, as that may overwrite the old contents. Make sure that you select a location that is different than the Workspace used by the previous version.

**To use an existing folder:** Click **Browse** to open a directory browser from which you can select the folder.

**To create a new folder:**

- a. Click **Make New Folder**.
- b. Select the location for the folder.
- c. Enter the name of the folder
- d. Click **OK**.

This creates or selects the file and returns to the **Select Workspace** dialog box.

3. (Optional) Specify this as the default Workspace.

If you do not want to select the Workspace each time you start Guardian, select the checkbox for **Use this as the default workspace and do not ask again**.

**Note:** You can change this setting at a later time by selecting **Prompt for workspace on startup** in the Guardian **Preferences** configuration page. For instructions, open the Guardian 1.1 Online Help and select **Tasks > Workspaces > Select Workspace**.

4. Click **Finish**.

Guardian loads the selected Workspace and completes the startup procedure.

## Start the Guardian Command Line Interface

The Guardian Command Line Interface (CLI)—also referred to as Guardian Headless Mode—is a set of Guardian commands that can be issued directly from the operating system command prompt. There is a Guardian CLI command for almost every task available in the Guardian User Interface. For a complete description of these commands and their syntax, see the Guardian 1.1 Online Help and the *Guardian 1.1 User Guide*.

To start the Guardian Command Line Interface, do the following:

**Note:** Guardian Command Line Interface commands are case sensitive.

1. At the operating system command prompt, change directories to the Guardian installation directory.
2. Enter the Guardian Headless command.
  - **On Windows:**  
`guardianHeadless.cmd`
  - **On Linux:**  
`guardianHeadless.sh`
3. (Optional) To see a list of CLI commands and their syntax, enter the CLI Help command at the operating system prompt.
  - **On Windows:**  
`guardianHeadless.cmd -g help`
  - **On Linux:**  
`guardianHeadless.sh -g help`

The Command Line Interface uses your specified Guardian Workspace as the location for all CLI operations, unless you specify otherwise in each command. Identifying the Guardian Workspace location is essential for accessing the correct set of active domains, Domain Inventories, and Evaluation Summaries. For instructions on selecting a Guardian Workspace, see the *Guardian User Guide — Version 1.1* and Guardian 1.1 Online Help.

The following are some examples of Guardian Headless command lines:

- `guardianHeadless.cmd -g listActiveDomains`
- `guardianHeadless.cmd -g activateDomain -t http://localhost:9116 -u un -p pw -c true -data "D:\MyData\Guardian Data Directories\Installer-2079"`

- `guardianHeadless.cmd -g createShortcut -d Naxos_localhost_9116 -b 2`
- `guardianHeadless.cmd -g deleteShortcut -s "Security Advisories in Naxos"`

The output of each command is sent to the following output file:

`headless_output.txt`

The output file is created in your current directory, and is overwritten each time you run a Guardian Headless Mode command.

For a complete list of Guardian Command Line Interface commands and syntax, see *Guardian User Guide — Version 1.1*, and Guardian 1.1 Online Help.

## Installing BEA Guardian 1.1

# Appendix A: Apache License

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# Appendix B: Eclipse License

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March 17, 2005

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