

# Compoze Portlets

for Lotus Domino  
version 2.0



*Setup Guide*

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# Table of Contents

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## Table of Contents

### About This Document

Prerequisite Software . . . . .	0-v
Documentation Syntax Conventions. . . . .	0-v

### Compoze Portlets for Lotus Domino

#### Compoze Domino Service

Architecture. . . . .	2-1
Connectivity to Domino . . . . .	2-2
Network/Firewall Requirements . . . . .	2-2
Installation and Configuration . . . . .	2-3
Prerequisites. . . . .	2-3
Installing on Windows. . . . .	2-3
Verifying the Installation . . . . .	2-5
Installing on Linux. . . . .	2-5
GUI Mode. . . . .	2-5
Console Mode. . . . .	2-6
Verifying the Installation . . . . .	2-8
Configuring the Lotus Domino Server . . . . .	2-9
Compoze Domino Service Configuration Console. . . . .	2-11
Testing the Service and Connection. . . . .	2-18

#### Lotus Domino Administration

Access Control List and Permissions . . . . .	3-1
---	-----

**Setting Up Portlets**

Setting the CompozeDominoProfile Properties . . . . . 4-1  
User Profile Property Names and Descriptions . . . . . 4-1  
Setting CompozeDominoProfile Properties for a Portal User . . . . 4-2  
Placing the Compoze Portlets in the Portal. . . . . 4-2  
Modifying the Compoze Portlet Look and Feel . . . . . 4-3

**Manually Installing the Portlets**

# About This Document

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This guide is intended for software developers or server administrators who are building Web portal applications. A basic understanding of BEA WebLogic Platform, Lotus Domino, Java, and JavaServer Pages (JSP) are assumed.

## Prerequisite Software

Setting up the Compoze Portlets assumes the following prerequisite software:

- BEA WebLogic Platform 8.1
- Lotus Domino Release 5.0.11 or higher

## Documentation Syntax Conventions

The Windows convention of “\” as a path separator is used wherever necessary. UNIX users and users of other operating systems should translate these paths and variables accordingly.

Also, since system software and configurations can vary from one system to another, portions of the command syntax displayed in this document may include sample parameters or variables that represent the actual command syntax you would need to enter. These entries

are indicated by parameters in uppercase placed between percent signs (%PARAMETER%), and include, but are not limited to the following:

<b>Parameter</b>	<b>Definition</b>
%COMPOZE_HOME%	The complete directory specification for Compoze Software products. For example: c:\Program Files\compoze
%COMPOZE_PORTLETS_HOME%	The complete directory specification for the Compoze Portlets. For example: c:\Program Files\compoze\compoze_portlets_bea-2.0
%JAVA_HOME%	The complete directory specification for the Java Development Kit. For example: d:\bea\jdk141_03
%LOTUS_DOMINO_HOME%	The complete directory specification for the Lotus Domino server. For example: c:\Lotus\Domino
%WL_PLATFORM_HOME%	The complete directory specification for the BEA WebLogic Platform. For example: d:\bea\weblogic81
%SAMPLE_PORTAL_DOMAIN_HOME%	The complete directory specification for the Samples Portal Domain. For example: d:\bea\weblogic81\samples\portal\portalApp



# Compoze Portlets for Lotus Domino

---

The Compoze Portlets installer copies Compoze Portlets files into the appropriate folder under %SAMPLE\_PORTAL\_DOMAIN\_HOME%. This Setup Guide walks you through the steps you need to perform to complete the Sample Portal Compoze Portlets (for use with Lotus Domino) setup on the “Avitek” Sample Portal. In addition to installing the Portlets on the BEA WebLogic Portal machine, the Compoze Domino Service needs to be installed on a specified Lotus Domino server.

Chapters in this Guide include:

- “Compoze Portlets for Lotus Domino” on page 1-1
- “Compoze Domino Service” on page 2-1
- “Setting Up Portlets” on page 4-1
- “Manually Installing the Portlets” on page A-1

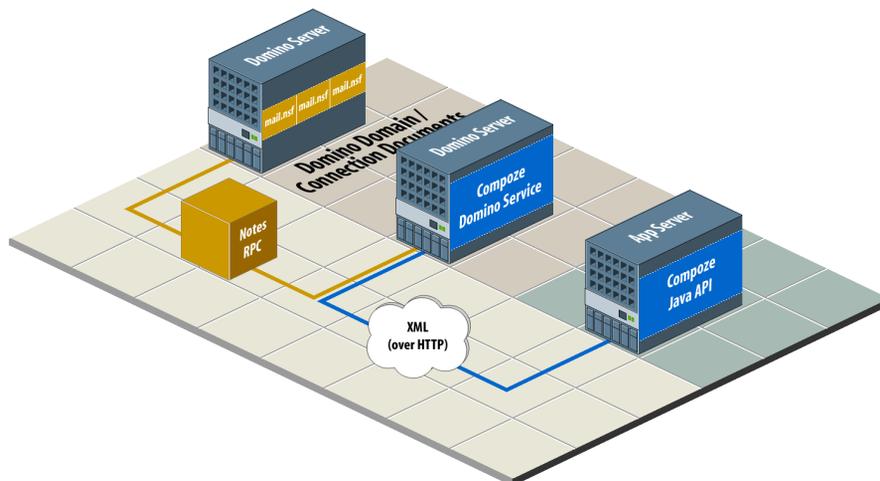
**Note:** While you can install the portlets in any portal of your own, this Guide shows you how to set up the Compoze Portlets inside the “Avitek” Sample Portal delivered with the WebLogic Portal. When you have finished all of the setup instructions in each of the above chapters, open the [compoze\\_portlets\\_users\\_guide.pdf](#) file located at %COMPOZE\_PORTLETS\_HOME%\docs for information about using each of the Compoze Portlets.

This chapter describes the Compoze Domino Service architecture, installation and configuration and supported platforms.

## Architecture

With the Compoze Portlets, Compoze has implemented a native Notes service which exposes Lotus Domino mail functionality to Java programs. The following benefits result from the Compoze Portlets architecture:

1. Better performance and scalability is achieved by sending coarse grained requests between the Java application and the Compoze Domino Service.
2. The firewall requirements are HTTP over port 80 (or a selected port) or HTTPS over port 443 (or a selected port).
3. New features are available due to the ability to use low-level Notes API calls on the intermediary server.



The Compoze Domino Service machine acts as an intermediary between a Java client application and Lotus Domino. The Java application could be a web application, desktop application or web framework such as a portal server. Essentially, any Java client application running on a JVM version 1.3 or greater is supported.

The means the protocol that the Java client uses to connect to the Compoze Domino Service is hidden in the implementation of the API. Compoze can then replace the APIs connectivity to the service without the need for API users to change their application or understand how the protocol is implemented.

## Connectivity to Domino

The Compoze Domino Service is implemented using a combination of Notes RPC and Notes DSAPI. It runs within Lotus Domino as part of the HTTP task. The details of this do not need to be understood by the application programmer, but this is the reason the Lotus Domino install is a prerequisite of the installation. This is where Notes RPC and the Notes DSAPI filter for Domino are obtained.

## Network/Firewall Requirements

The Compoze Domino Service must be located on a machine running Lotus Domino that is part of the **same Notes Domain** as the Domino server to access. It is possible to put the Compoze Domino Service on an existing Domino server, but be aware of the additional processor and memory burden that will be placed on Domino.

HTTP traffic must be able to pass between the Java client and the Compoze Domino Service. Traversing an HTTP proxy is OK as long as it is able to pass the POST requests used by the XML protocol. Although a high bandwidth, low-latency connection will improve performance, the protocol has been designed to reduce the number of round trips made on the network. Therefore, packet round trip times of 50-100ms should be tolerable for the application. The amount of bandwidth required will depend on the number of users simultaneously using the application. Each user may consume roughly 1K/sec. on average, with this number increasingly dramatically if users do a lot of work with large file attachments.

Notes RPC traffic must be able to pass between the Compoze Domino Service and Lotus Domino. Notes RPC requires TCP port 1352 to be open. The network connection for this Notes RPC traffic must have a low latency (less than 10 milliseconds, and preferably a 100

megabit LAN with less than 1 millisecond response times). Round trips are made over the network for each Notes RPC, therefore the Compoze Domino Service machine must be located as close as possible to Domino on the network.

## Installation and Configuration

### Prerequisites

Before installing the Compoze Portlets, the following steps must be taken:

1. Uninstall and remove any previous installed version of Compoze Portlets. This will ensure a clean install will occur.
2. For Windows installation, ensure Windows 2000 with Service Pack 4 or higher is installed on the server.  
For Linux installation, ensure Red Hat 8.0 or higher is installed on the server.
3. Lotus Domino R5.0.11 (or higher) or Domino R6.0.3, with the HTTP Task, is installed on the server.
4. The server is registered within the Notes domain.

### Installing on Windows

To install the Compoze Portlets onto Windows, follow these steps:

1. Start the installer by double-clicking on `setup_service.exe`. The InstallAnywhere screen opens and begins preparing the installation.
2. Read through the introduction and click “Next”. You will be able to exit the installation at anytime by clicking “Cancel”. You will also be able to go back a step by clicking “Previous” when available.
3. Read through the Compoze license agreement and select an option:
  - Selecting “I accept the terms of the License Agreement” will allow you to continue with the installation.

- Selecting “I do NOT accept the terms of the License Agreement” will terminate the installation.
4. Click “Next”.
  5. Select the directory Compoze Portlets will be installed to. By default, %COMPOZE\_HOME% is chosen. You may change this by entering the absolute path of the directory or by clicking “Choose” and selecting the directory.
  6. Click “Next”.
  7. Choose the Lotus Domino program directory. On a Domino server the program directory is typically C:\Lotus\Domino, unless you installed the program files to a different location.. You may change this by entering the absolute path of the directory or by clicking “Choose” and selecting the directory.
  8. Click “Next”. If the specified directory does not contain the Lotus Domino program files, an information screen appears stating such. Click “Next” to continue or “Previous” to go back and enter a valid Domino program directory.
  9. Choose the Lotus Domino data directory. On a Domino server the Domino data directory is typically C:\Lotus\Domino\Data, unless you installed the data directory to a different location.. You may change this by entering the absolute path of the directory or by clicking “Choose” and selecting the directory.
  10. Click “Next”. If the specified directory is not a valid Domino data directory (i.e. does not contain the names.nsf database), an information screen appears stating such. Click “Next” to continue or “Previous” to go back and enter a valid Domino data directory.
  11. Read the installation summary information before clicking “Install”. The summary will contain information such as the installation directory, the amount of disk space required, etc.
  12. Click “Install” to install the service.
  13. Once installation is complete, click “Done”

## Verifying the Installation

To verify Compoze Portlets was installed, check the following:

- A directory tree located at %COMPOZE\_HOME%\domino\_service.
- The following files added to %LOTUS\_DOMINO\_HOME% directory:

```
cz_xerces-c.dll  
czdo.dll  
czdo_service.dll
```

- The following database added to %LOTUS\_DOMINO\_DATA% directory:  
czdo\_config.nsf

## Installing on Linux

Compoze Portlets on Linux can be installed in two different modes:

- “GUI Mode” on page 2-5
- “Console Mode” on page 2-6

**Note:** It is critical you be root or have write permission for the directory where you plan to install the Compoze Portlets. You must also have write permissions for the Domino server directories.

### GUI Mode

The installer running in GUI mode will utilize GUI panels and will ask for all necessary configuration questions through the graphical panel. You must have the X-Window server running on the machine where you are installing the Compoze Portlets.

To install the Compoze Portlets on Linux using GUI mode, follow these steps:

1. Start the installer. To start the installer, enter in the following at the command prompt:

```
prompt> chmod 755 setup.bin  
prompt> ./setup.bin
```

2. Read through the Compoze license agreement and select an option:

- Selecting “I accept the terms of the License Agreement” will allow you to continue with the installation.

- Selecting “I do NOT accept the terms of the License Agreement” will terminate the installation.
3. Click “Next”.
  4. Select the directory Compoze Portlets will be installed to. By default, %COMPOZE\_HOME% is chosen. You may change this by entering the absolute path of the directory or by clicking “Choose” and selecting the directory.
  5. Click “Next”.
  6. Choose the Lotus Domino program directory. On a Domino server the program directory is typically /usr/lotus/notes/{version}/{platform} (or \$Notes\_ExecDirectory), unless you installed the program files to a different location.. You may change this by entering the absolute path of the directory or by clicking “Choose” and selecting the directory.
  7. Click “Next”. If the specified directory does not contain the Lotus Domino program files, an information screen appears stating such. Click “Next” to continue or “Previous” to go back and enter a valid Domino program directory.
  8. Choose the Lotus Domino data directory. On a Domino server the Domino data directory is typically /usr/lotus/notesdata, unless you installed the data directory to a different location.. You may change this by entering the absolute path of the directory or by clicking “Choose” and selecting the directory.
  9. Click “Next”. If the specified directory is not a valid Domino data directory (i.e. does not contain the names.nsf database), an information screen appears stating such. Click “Next” to continue or “Previous” to go back and enter a valid Domino data directory.
  10. Read the installation summary information before clicking “Install”. The summary will contain information such as the installation directory, the amount of disk space required, etc.
  11. Click “Install” to install the service.
  12. Once installation is complete, click “Done”

## Console Mode

The installer running in console mode will not utilize GUI panels (X-Window Server), but instead will ask all necessary configuration questions through the command prompt. This is best for machines running Lotus Domino Server without an X-Server.

To install the Compoze Portlets on Linux using the Console mode, follow these steps:

1. Start the installer. To start the installer, enter in the following at the command prompt:

```
prompt> chmod 755 setup.bin  
prompt> ./setup.bin -i console
```

2. Read through the Compoze license agreement and select an option:
  - Entering “Y” accept the license agreement and allow you to continue with the installation.
  - Entering “N” will decline the license agreement and terminate the installation.
3. Press “Enter”.
4. Select the directory Compoze Portlets will be installed to. By default, %COMPOZE\_HOME% is chosen. You may change this by entering the absolute path of the directory.
5. Press “Enter”.
6. You will be prompted if the selected directory is the correct directory to install the service.
  - Entering “Y” will accept the directory and continue with the installation.
  - Entering “N” will return you to the previous step to select the directory Compoze Portlets will be installed to.
7. Press “Enter”.
8. Choose the Lotus Domino program directory. On a Domino server the program directory is typically /usr/lotus/notes/{version}/{platform} (or \$Notes\_ExecDirectory), unless you installed the program files to a different location.. You may change this by entering the absolute path of the directory.
9. Press “Enter”. If the specified directory does not contain the Lotus Domino program files, the console will display information stating such. Press “Enter” to continue or enter “Back” to go back and enter a valid Domino program directory.
10. Choose the Lotus Domino data directory. On a Domino server the Domino data directory is typically /usr/lotus/notesdata, unless you installed the data directory to a different location.. You may change this by entering the absolute path of the directory.
11. Press “Enter”. If the specified directory is not a valid Domino data directory (i.e. does not contain the names.nsf database), the console will display information stating such.

Press “Enter” to continue or enter “Back” to go back and enter a valid Domino data directory.

12. Read the installation summary information before pressing “Enter”. The summary will contain information such as the installation directory, the amount of disk space required, etc.
13. Press “Enter” to install the service.
14. Once installation is complete, press “Enter” to exit.

## Verifying the Installation

To verify Compoze Portlets was installed, check the following:

- A directory tree located at %COMPOZE\_HOME%/domino\_service.
- The following files added to %LOTUS\_DOMINO\_HOME% directory:

```
libxerces-c.so  
libczdo.so  
libczdo_service.so
```

- The following database added to %LOTUS\_DOMINO\_DATA% directory:  
czdo\_config.nsf

## Configuring the Lotus Domino Server

The Lotus Domino server that will host the Compoze Portlets must be configured using the following procedure:

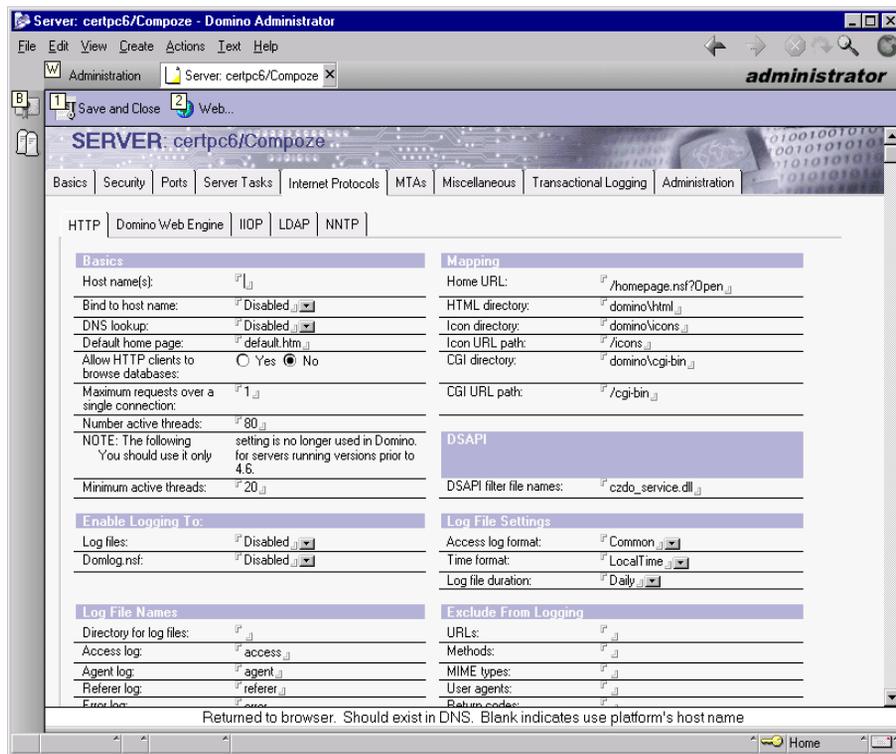
1. Open the Lotus Administrator client application and open the server where the Compoze Portlets is installed.
2. Edit the server document for the server where the Compoze Portlets is installed.
3. Select the Internet Protocols > HTTP tab.
4. Under the DSAPI section, add Compoze Portlets to the DSAPI filter file names field.

For Windows, add `czdo_service.dll`.

For Linux, add `libczo_service.so`.

**Note:** If entries exist in this field, append Compoze Portlets to the end, separated by a semicolon (;) with no carriage returns or whitespaces. For example:

```
ndolextn.dll;czdo_service.dll
```



5. Save the server document.
6. If the Domino server is started, enter the following `tell` commands from the Domino server console to restart the HTTP task:

```
tell http quit  
load http
```

If the Domino server is not started, start the server.

**Note:** Replication of server document to the Lotus Domino server may be needed to ensure Compoze Portlets is installed correctly.

7. To verify Compoze Portlets service was installed and configured correctly, one should see the following from within the Lotus Domino server console:

```
10/09/2003 04:19:27 PM JVM: Java Virtual Machine initialized.  
10/09/2003 04:19:28 PM Compoze Domino Service (version x.x.x): Production  
license key verified  
10/09/2003 04:19:28 PM Compoze Domino Service (version x.x.x): loaded.  
10/09/2003 04:19:29 PM HTTP Web Server started
```

# Compoze Domino Service Configuration Console

The Compoze Domino Service can be configured using the Java Swing based configuration console. The console allows the following administrative tasks:

- Upgrade the Compoze Domino Service evaluation license to production license.
- Modify the attachment directory and the attachment size limit.
- Modify the user session cache parameters.

## *Running the Service Configuration Console from the Shortcut*

Run the Start Domino Configuration Console shortcut from Programs > Compoze Software > Compoze Portlets - BEA WebLogic Edition > Start Domino Configuration Console.

## *Starting the Configuration Console Manually*

1. Add the following jar files to your CLASSPATH:

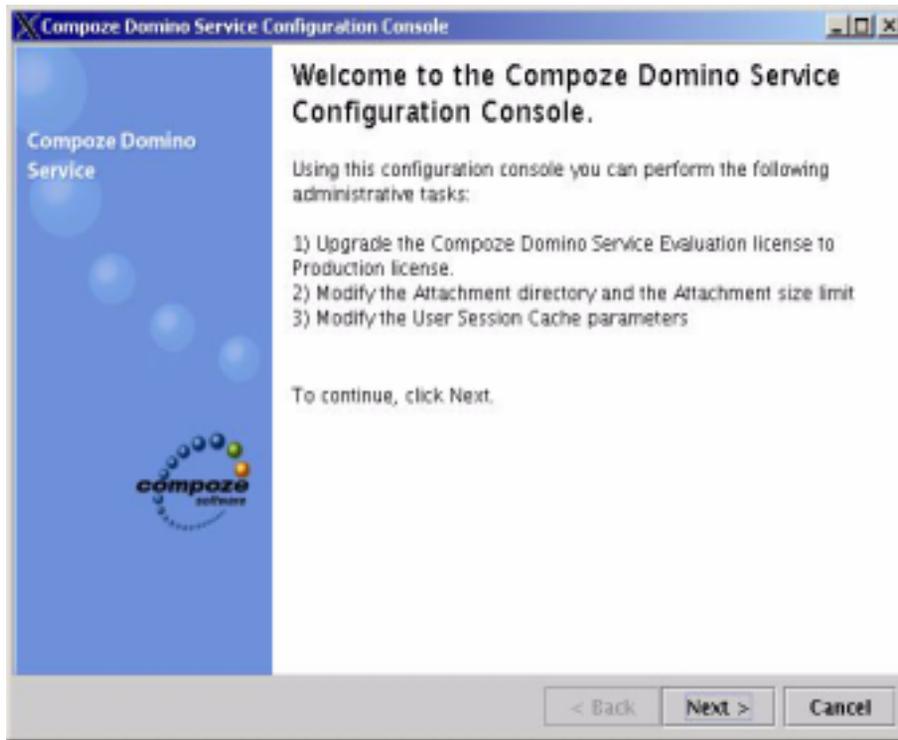
- harmony\_portlets.jar found at %COMPOZE\_PORTLETS\_HOME%\lib\
- weblogic.jar found at %WL\_PLATFORM\_HOME%\server\lib\
- p13n\_system.jar found at %WL\_PLATFORM\_HOME%\p13n\lib\

2. Run the Configuration Console with the following command:

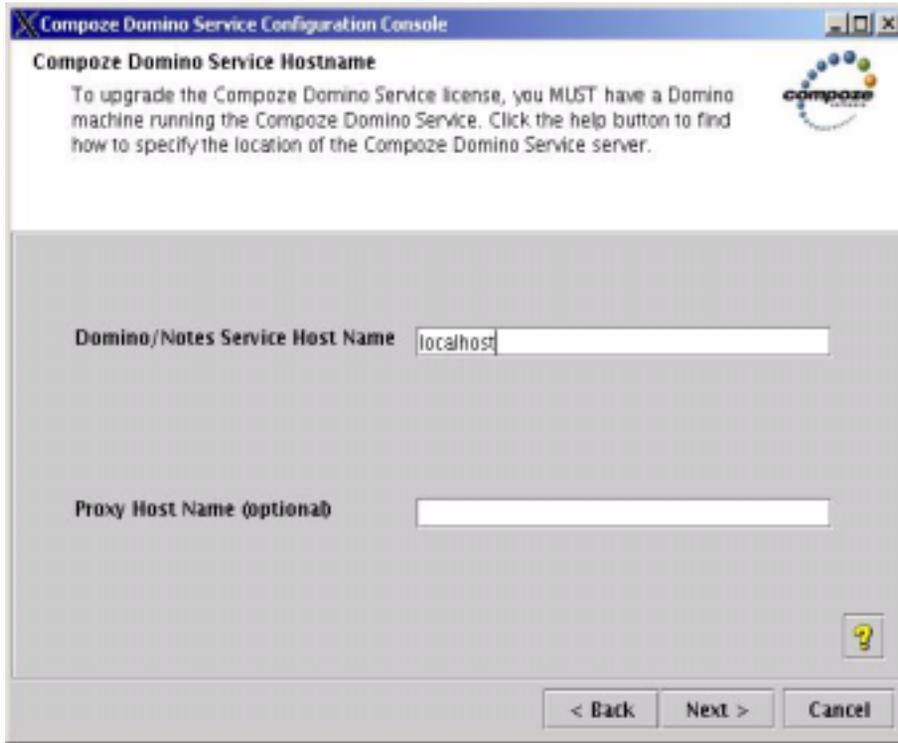
```
java com.compoze.domino.adminwizard.AdminUpdate
```

*Using the Configuration Console*

1. Read through the introduction and click “Next”. You will be able to exit the console at anytime by clicking “Cancel”. You will also be able to go back a step by clicking “Previous” when available.

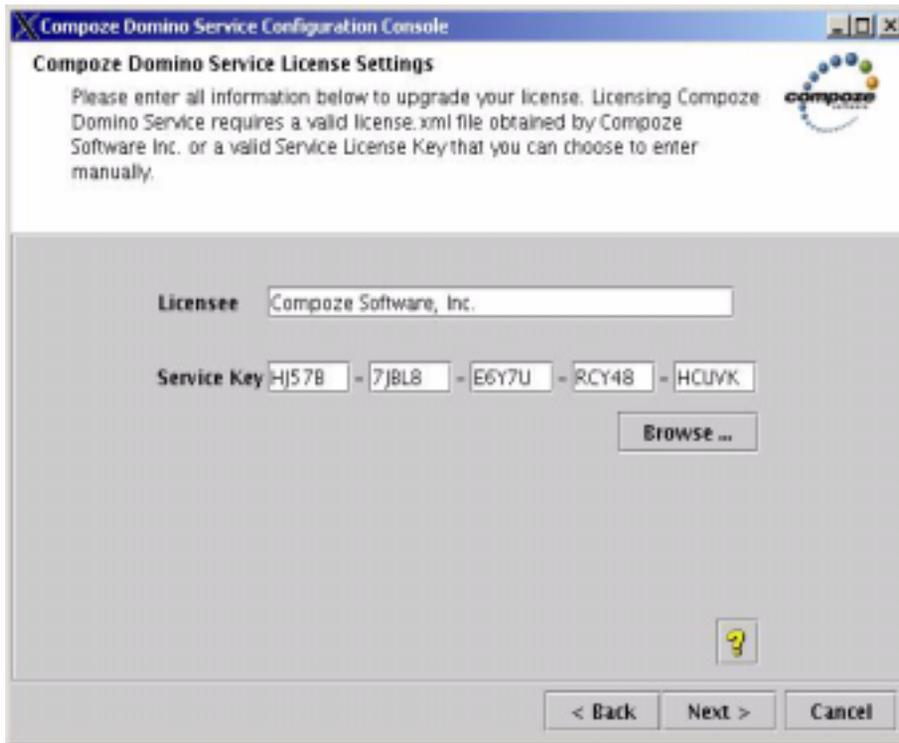


2. To configure the Compoze Domino Service using the console, you **MUST** have the Domino server hosting the Compoze Domino Service running. Enter the hostname of the Domino server.

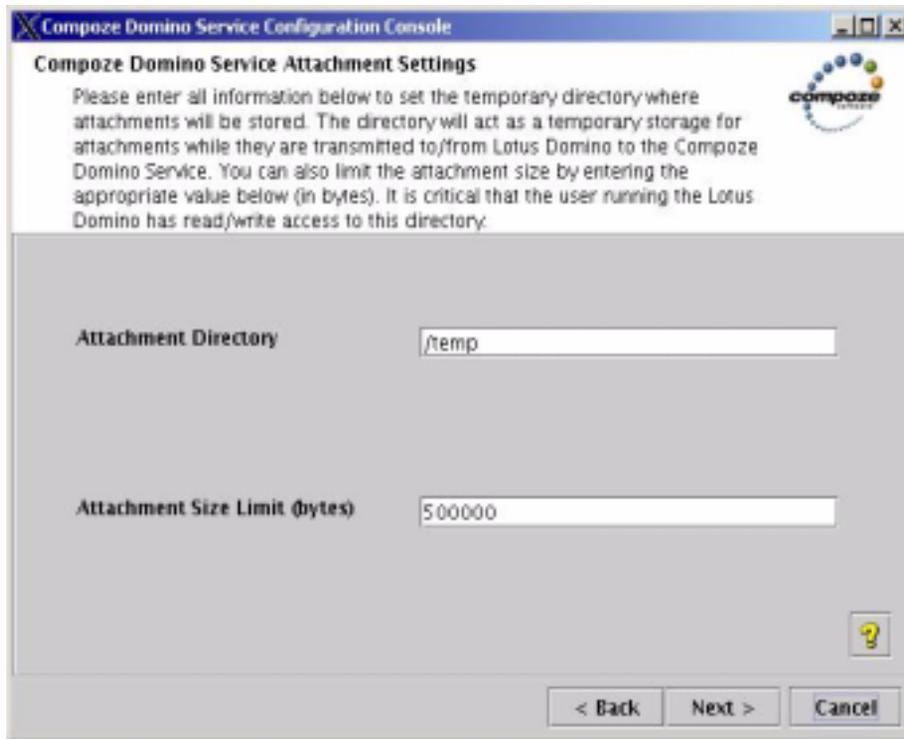


3. Click “Next”. The console makes an HTTP connection to access the Compoze Domino Service configuration and populates the GUI widgets with any existing values.

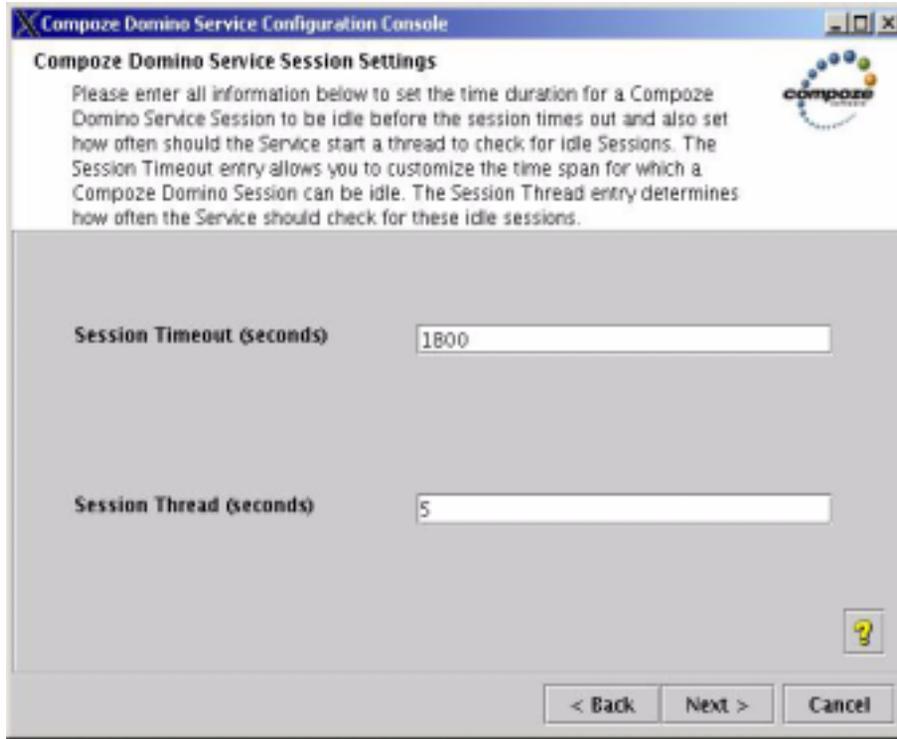
4. To upgrade the Compoze Domino Service license enter the Licensee and Service Key fields exactly as they appear in `license.xml` (case sensitive). Alternatively, click “Browse” to select a Compoze `license.xml` file.



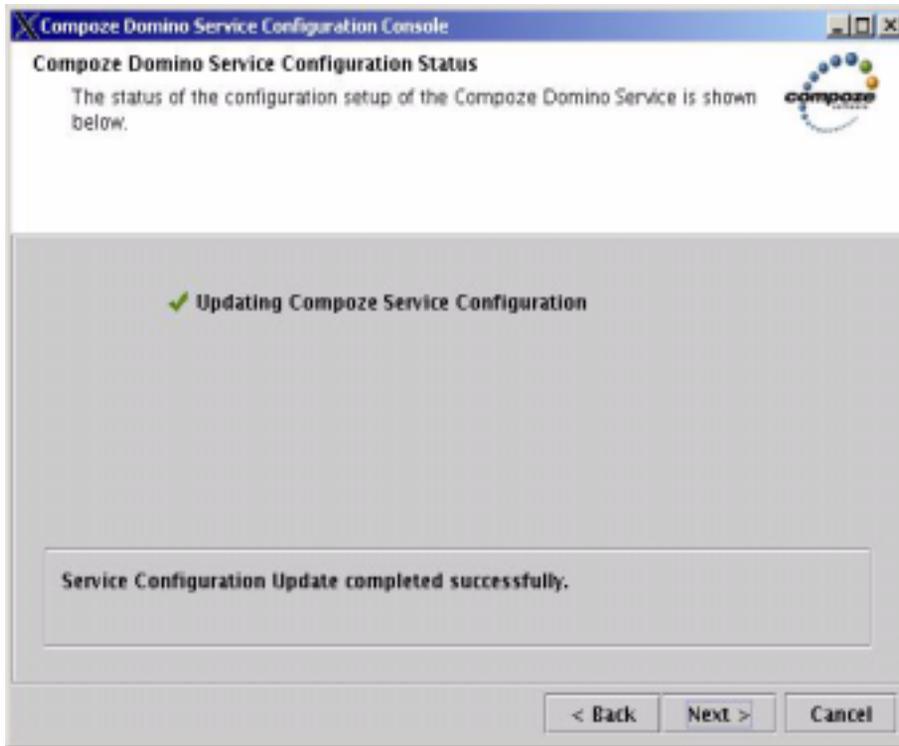
5. Click “Next”. To update the Compoze Domino Service attachment settings enter a fully qualified directory name to set the temporary directory where attachments will be stored. This directory will act as a temporary storage for attachments while they are transmitted to/from Lotus Domino to the Compoze Domino Service. You can also limit the attachment size by entering the appropriate value (in bytes). It is critical that the user running the Lotus Domino has read/write access to this directory



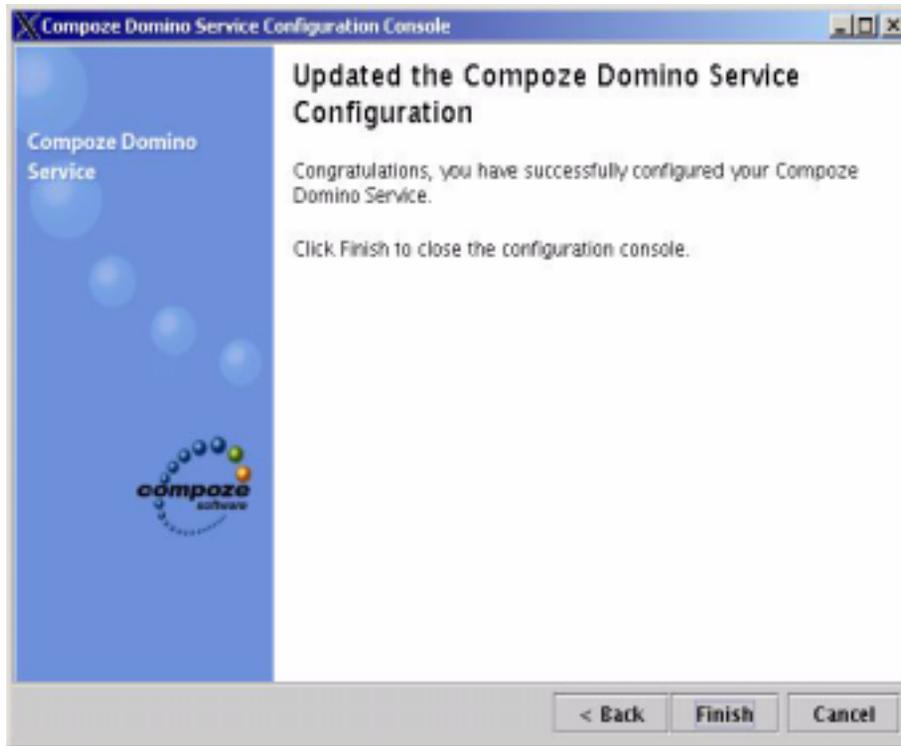
6. Click “Next”. To update the Compoze Domino Service session settings enter the information on the screen shown below. Compoze Domino sessions have a timeout period expressed as the number of seconds since the session was last used. The Session Timeout entry allows you to customize the time period for which a Compoze Domino session can be idle without timing out. You can also set how often should the Service start a thread to check for idle sessions. The Session Thread entry determines how often the Service should check for these idle sessions. All time periods are expressed in seconds.



7. Click “Next” to update the Compoze Domino Service configuration.



8. Once the update is complete, click “Finish”.



## Testing the Service and Connection

After installation, it is highly recommended that you verify that the service has been set up correctly. There are two ways to verify that you can open a connection to the service and that the service can connect to Lotus Domino:

1. Use the Swing based graphical wizard.
2. Use the command line exerciser.

If a graphical environment is available, using the wizard is recommended because it provides online help and resolutions to various common problems that can occur. The command line exerciser is available for text only environments and for performing additional advanced tests.

### ***Running the Wizard from the Shortcut***

Run the Start Connection Wizard shortcut from Programs > Compoze Software > Compoze Portlets - BEA WebLogic Edition > Start Domino Connection Wizard. For more information, see “Using the Setup Wizard” on page 2-20.

### ***Running the Wizard Manually***

1. Add the following jar files to your CLASSPATH:

- harmony\_portlets.jar found at %COMPOZE\_PORTLETS\_HOME%\lib\
- weblogic.jar found at %WL\_PLATFORM\_HOME%\server\lib\
- p13n\_system.jar found at %WL\_PLATFORM\_HOME%\p13n\lib\

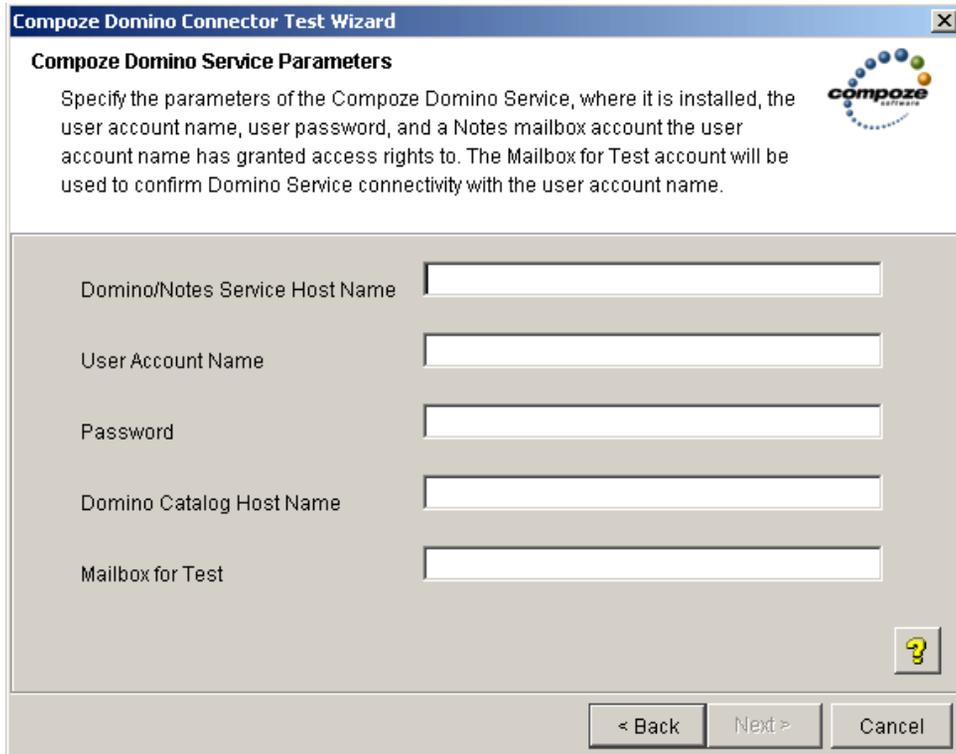
2. Run the exerciser with the following command:

```
java com.compoze.domino.sessiontest.SessionTest
```

3. For more information, see “Using the Setup Wizard” on page 2-20.

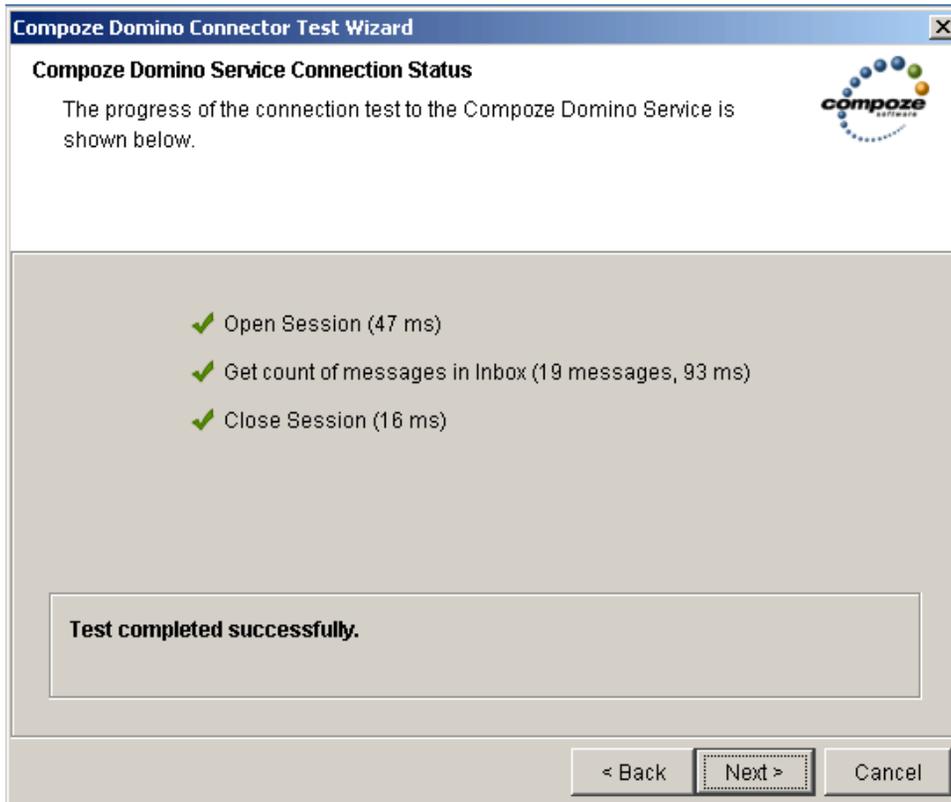
*Using the Setup Wizard*

1. The Wizard will start and ask you to fill in the connection parameters. A help dialog is available by clicking the question mark icon. It is highly recommended that you read this fully to understand what each of the connection parameters is.



2. The wizard will open a session to the service, check the number of messages in the Inbox, then close the session. A green checkmark will be placed next to operations that succeed. If an operation fails, a dialog will display more information and attempt to offer

you a resolution for the problem. If you find a problem that you cannot resolve, contact [support@compoze.com](mailto:support@compoze.com) with the full error report for more help.



**NOTE:** Opening a session for the first time can take a considerable amount of time as the Java classes are loaded on the Java side and dll files are loaded in the Compoze Domino Service. Once the test has completed you may wish to click *Back* then *Next* to open a session again. This will give you a better idea of how long this typically takes in your environment.

### ***Running the Command Line Exerciser Manually***

1. Add the following jar files to your CLASSPATH:
  - `harmony_portlets.jar` found at `%COMPOZE_PORTLETS_HOME%\lib\`
  - `weblogic.jar` found at `%WL_PLATFORM_HOME%\server\lib\`

- `p13n_system.jar` found at `%WL_PLATFORM_HOME%\p13n\lib\`
2. Run the exerciser with the following command:  

```
java com.compoze.domino.Exerciser
```
  3. For more information, see “Using the Command Line Exerciser” on page 2-22..

### *Using the Command Line Exerciser*

Once the Exerciser is running, type `open` and hit enter to be prompted for the following parameters:

<b>Field</b>	<b>Description</b>
Username Account Name	the username of the user that will access the Domino mailbox
Password	the Internet password of the user that will access the Domino mailbox
Domino Catalog Host Name (optional)	the name of a machine in the Notes domain that will be used to lookup the specified user’s mailbox information, such as database and server name to connect to (optional, leave blank to use the same machine as the Domino Service).
Mailbox (optional)	the name of a mailbox to connect to (optional, leave blank to connect to the specified user’s mailbox).
Domino/Notes Service Host Name	the hostname of the Compoze Domino Service machine as it can be resolved from the machine you are running this exerciser on (required, leave blank to connect to localhost). This can be either a machine name or IP address

If everything goes correctly, you should see something like the following:

```
User Info: com.compoze.domino.UserInfo@4b25f1
First Name: Joe
Middle Initial:
Last Name: Smith
Short Name: jsmith
Mail Server: CN=MyDomino/O=Mycompany
Mail File: mail\jsmith
Mail Domain: Mycompany
Internet Address: jsmith@mycompany.com
```

```
Full Name: CN=Joe Smith/O=Mycompany
Full Name: Joe Smith
Request/response time: 961 ms
```

If the connection fails you will see an exception with more error information to help you determine what went wrong.

Help on further commands in the exerciser is available by typing the command `help`. Help may be obtained for a specific command by typing `help <command>`.



# Lotus Domino Administration

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This chapter describes Administration of the Lotus Domino server as related to the Compoze Domino Service.

## Access Control List and Permissions

The Compoze Domino Service runs and connects to other Domino servers in the same Notes domain as the server it is running on. Therefore, the Domino server running the Service must have permissions to access a mail database in order to retrieve data from that mail database. This is accomplished by the Domino server being a member of the `LocalDomainServers` group and with that group having permissions to access the mail database. At a minimum, the `LocalDomainServers` group (or the specified server) must have the following ACL permissions in order to read a mail database:

Permission	Description	Required
Create Documents	Allows the user to create documents such as memos, appointments, and tasks.	Yes
Delete Documents	Allows the user to delete documents.	Yes
Read Public Documents	Allows the user to read documents.	Yes
Write Public Documents	Allows the user to write documents.	Yes
Create Personal folders/view	Allows the user to create views.	Yes
Create Shared folders/views	Allows the user to create folders for mail.	Yes

**Note:** these permissions correspond to the `Editor` Access Level WITHOUT the following: Create Personal agents and Create LotusScript/Java agent.

When connecting as a specific user, the Java caller specifies a user's name and Internet password to create a `com.compoze.domino.Session`. The Service authenticates the user using the Internet password and authorization against the ACL is performed. The Service authorizes the user by examining the ACL permissions available on the mail database for that user. If the user meets the minimum user permissions, as described above, regardless of Access Level, the user is granted access; otherwise, an invalid user/password exception is thrown (`com.compoze.domino.UserPasswordException`).

**Note:** The Domino user's Internet password is checked for authentication. If the Domino user is using the Domino feature "More Secure Internet Password" and you are running on Domino Release 5, this feature must be disabled in order to authenticate a user.



# Setting Up Portlets

After running the Compoze Portlet installer application, the Compoze Portlets are available to add to a portal. This chapter shows you how to configure the `CompozeDominoProfile` user profile and to register the portlets inside the Avitek Portal. This is accomplished with the WebLogic Workshop Platform Edition Portal Designer.

## Setting the CompozeDominoProfile Properties

The Compoze Portlets installer created a BEA User Profile named `CompozeDominoProfile`. The `CompozeDominoProfile` holds the Lotus Domino server information (such as Domino Server name) for each user.

## User Profile Property Names and Descriptions

The following table list the property names along with a description for each property in the `CompozeDominoProfile`. All of the values can be set or changed by a Portal Administrator in WebLogic Workshop or in the WebLogic Administration Portal. The user may set the Username, Password and Domino Service URL values within the “Edit” area of the portlets.

Property Name	Description
<code>compoze.domino.mailbox</code>	The Domino user’s mailbox (optional) This can be left without a specified value and will use the Domino user’s username as the mailbox value
<code>compoze.domino.username</code>	The Domino user’s username.

Property Name	Description
<code>compoze.domino.password</code>	The Domino user's password. This value is encrypted and should not be modified by hand.
<code>compoze.domino.server</code>	The Lotus Domino Service URL / Server name or IP where the user mailbox exists.

**Note:** HTTPS URLs may be used if JSSE is installed in the running virtual machine of the BEA WebLogic server.

## Setting CompozeDominoProfile Properties for a Portal User

You can set the CompozeDominoProfile property values in WebLogic Workshop. The following show you how to set the required Compoze Domino Service URL property:

1. Launch WebLogic Workshop
2. Open the `CompozeDominoProfile` (under `portalApp/data/userprofiles/`).
3. Highlight the `compoze.domino.server` property.
4. In the Property Editor, click on the little button next to the text box named `value(s)` to bring up Enter the Property Value window.
5. Enter the default value to be your Compoze Domino Service URL.
6. Click OK and save the file.

## Placing the Compoze Portlets in the Portal

You can drag and drop Compoze Portlets onto pages in the WebLogic Workshop. To do this perform the following steps:

1. Launch WebLogic Workshop
2. Open the portal file (sample.portal) and navigate to the page on which you want to place the portal on.
3. In the Data Palette window, drag the portlet you want (i.e., Compoze Domino Address-book) into the placeholder on the page.
4. Select the portlet and use the Property Editor window to edit the portlet properties if desired.
5. Save the portal file.
6. Close WebLogic Workshop and log into the portal. The portlets will now be available to the portal users. The first time a user accesses one of the Compoze Portlets, a wizard will be presented to them to guide them through the remaining necessary configuration.

## Modifying the Compoze Portlet Look and Feel

The Compoze Portlets are built with custom Cascading Style Sheet (CSS) classes. This gives you the greatest flexibility in modifying the look and feel of the portlets. The CSS classes need to be copied into the existing `portlet.css` for each skin that is available to the Portal users. To do this, perform the following steps:

1. Open the `%SAMPLE_PORTAL_DOMAIN_HOME%/sampleportal/framework/skins/avitek/portlet.css` file.
2. Append the contents of the `%COMPOZE_PORTLETS_HOME%/portlets/compoze_portlet.css` file into the `portlet.css` file.
3. Save the `portlet.css` file.
4. The Compoze Portlets should now have the default look and feel while in the Avitek Sample Portal. You can modify Compoze Portlet CSS classes (`.compoze_portlet_*`) in the `portlet.css` file as you see fit.

**Note:** This must be done for **every** portal domain that contains the Compoze Portlets.



# Manually Installing the Portlets

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The Compoze Portlets installer automatically copies the portlet JSP files, portlet definition files, User Profile files, and the `harmony_portlets.jar` in place. These are copied to directories under the `%WEBLOGIC81_HOME%\samples\portal\portalApp\sampleportal` directory. The installer also modifies the `web.xml` to add necessary servlet mappings for the Compoze Portlets.

The following procedure shows you how to do these steps manually. Adjust the domain name accordingly if different than the `sampleportal`.

## *Copying the Compoze Portlets into place*

1. Navigate to `%COMPOZE_PORTLETS_HOME%\portlets` and copy the `compoze` folder and all its contents.
2. Paste the `compoze` folder into the following directory:  
`%WEBLOGIC81_HOME%\samples\portal\portalApp\sampleportal\portlets\`

## *Copying the .portlet files into place*

1. Navigate to `%COMPOZE_PORTLETS_HOME%\portlets` and copy the `includes` folder and all its contents.
2. Paste the `includes` folder into the following directory:  
`%WEBLOGIC81_HOME%\samples\portal\portalApp\sampleportal\portlets\`

## *Copying the harmony\_portlets.jar into place*

1. Navigate to `%COMPOZE_PORTLETS_HOME%\lib` and copy the `harmony_portlets.jar` file.
2. Paste the `harmony_portlets.jar` file into the following directory:  
`%WEBLOGIC81_HOME%\samples\portal\portalApp\APP-INF\lib`

### *Copying the User profiles into place*

1. Navigate to %COMPOZE\_PORTLETS\_HOME%\userprofiles and copy the CompozeExchangeProfile.usr file.
2. Paste the CompozeExchangeProfile.usr files into the following folder:  
%WEBLOGIC81\_HOME%\samples\portal\portalApp\META-INF\data\userprofiles

### *Modifying the web.xml file*

1. Navigate to %WEBLOGIC81\_HOME%\samples\portal\portalApp\sampleportal\WEB-INF\  
INF\  
2. Open the web.xml file with a text editor and find the first section that starts with the following:

```
<!-- Compoze Servlet -->
```

3. After this section, add the following:

```
<servlet>  
<servlet-name>CompozeDominoAttachmentServlet</servlet-name>  
<servlet-class>com.compoze.domino.AttachmentServlet</servlet-class>  
</servlet>
```

```
<servlet>  
<servlet-name>EmbeddedImageServlet</servlet-name>  
<servlet-class>com.compoze.domino.EmbeddedImageServlet</servlet-class>  
</servlet>
```

4. In the same web.xml file, navigate to the section that begins with the following:

```
<!-- Compoze Servlet Mapping -->
```

5. After this section, add the following:

```
<servlet-mapping>  
<servlet-name>CompozeDominoAttachmentServlet</servlet-name>  
<url-pattern>*.compozedominoattachmentervlet</url-pattern>  
</servlet-mapping>
```

```
<servlet-mapping>  
<servlet-name>EmbeddedImageServlet</servlet-name>  
<url-pattern>*.compozedominoimage</url-pattern>  
</servlet-mapping>
```