Content Server

Version: 6.3

Installing Content Server with Sun Java Enterprise System

Document Revision Date: Dec. 1, 2005



FATWIRE CORPORATION PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. In no event shall FatWire be liable for any loss of profits, loss of business, loss of use of data, interruption of business, or for indirect, special, incidental, or consequential damages of any kind, even if FatWire has been advised of the possibility of such damages arising from this publication. FatWire may revise this publication from time to time without notice. Some states or jurisdictions do not allow disclaimer of express or implied warranties in certain transactions; therefore, this statement may not apply to you.

Copyright © 2005 FatWire Corporation. All rights reserved.

This product may be covered under one or more of the following U.S. patents: 4477698, 4540855, 4720853, 4742538, 4742539, 4782510, 4797911, 4894857, 5070525, RE36416, 5309505, 5511112, 5581602, 5594791, 5675637, 5708780, 5715314, 5724424, 5812776, 5828731, 5909492, 5924090, 5963635, 6012071, 6049785, 6055522, 6118763, 6195649, 6199051, 6205437, 6212634, 6279112 and 6314089. Additional patents pending.

FatWire, Content Server, Content Server Bridge Enterprise, Content Server Bridge XML, Content Server COM Interfaces, Content Server Desktop, Content Server Direct, Content Server Direct Advantage, Content Server DocLink, Content Server Engage, Content Server InSite Editor, Content Server Satellite, and Transact are trademarks or registered trademarks of FatWire, Inc. in the United States and other countries.

iPlanet, Java, J2EE, Solaris, Sun, and other Sun products referenced herein are trademarks or registered trademarks of Sun Microsystems, Inc. *AIX, IBM, WebSphere*, and other IBM products referenced herein are trademarks or registered trademarks of IBM Corporation. *WebLogic* is a registered trademark of BEA Systems, Inc. *Microsoft, Windows* and other Microsoft products referenced herein are trademarks or registered trademarks of Trademarks of Microsoft Corporation. *UNIX* is a registered trademarks of The Open Group. Any other trademarks and product names used herein may be the trademarks of their respective owners.

This product includes software developed by the Apache Software Foundation (http://www.apache.org/) and software developed by Sun Microsystems, Inc. This product contains encryption technology from Phaos Technology Corporation.

You may not download or otherwise export or reexport this Program, its Documentation, or any underlying information or technology except in full compliance with all United States and other applicable laws and regulations, including without limitations the United States Export Administration Act, the Trading with the Enemy Act, the International Emergency Economic Powers Act and any regulations thereunder. Any transfer of technical data outside the United States by any means, including the Internet, is an export control requirement under U.S. law. In particular, but without limitation, none of the Program, its Documentation, or underlying information of technology may be downloaded or otherwise exported or reexported (i) into (or to a national or resident, wherever located, of) Cuba, Libya, North Korea, Iran, Iraq, Sudan, Syria, or any other country to which the U.S. prohibits exports of goods or technical data; or (ii) to anyone on the U.S. Treasury Department's Specially Designated Nationals List or the Table of Denial Orders issued by the Department of Commerce. By downloading or using the Program or its Documentation, you are agreeing to the foregoing and you are representing and warranting that you are not located in, under the control of, or a national or resident of any such country or on any such list or table. In addition, if the Program or Documentation is identified as Domestic Only or Not-for-Export (for example, on the box, media, in the installation process, during the download process, or in the Documentation), then except for export to Canada for use in Canada by Canadian citizens, the Program, Documentation, and any underlying information or technology may not be exported outside the United States or to any foreign entity or "foreign person" as defined by U.S. Government regulations, including without limitation, anyone who is not a citizen, national, or lawful permanent resident of the United States. By using this Program and Documentation, you are agreeing to the foregoing and you are representing and warranting that you are not a "foreign person" or under the control of a "foreign person."

Installing Content Server with Sun Java Enterprise System Document Revision Date: Dec. 1, 2005 Product Version: 6.3

FatWire Technical Support

www.fatwire.com/Support

FatWire Headquarters

FatWire Corporation 330 Old Country Road Suite 207 Mineola, NY 11501 www.fatwire.com

Table of

Contents

1	Installation Overview	.7
	What This Guide Covers	.8
	What This Guide Does Not Cover.	.8
	How This Guide Is Organized	.8
	Installation Summary.	.8
	System Requirements	.8
	Terms and Acronyms.	.9
	Graphics in This Guide	10
	Installation Steps	10

Part 1. Database

2	Setting Up a Database	1	5
---	-----------------------	---	---

Part 2. Application Server

3	Installing Sun Java Enterprise System 19
	Installing JES
	Uninstalling JES
	Starting and Stopping JES Components
	Application Server
	Access Manager (Identity Server)
	Directory Server
	Verifying the JES Installation
4	Configuring JES Application Server
	Working with Domains

	Backing Up a Domain	24
	Restoring a Domain	24
	Working with Server Instances	25
	Creating a New Server Instance and Node Agent (as Necessary)	25
	Deleting a Server Instance	26
	Deleting a Node Agent	26
	Working with Clusters.	27
	Creating a Cluster	27
	Migrating EJB Timers on a Cluster	27
	Deleting a Cluster	
	Modifying an App Server Instance to Support Portal Installations (for JES Q305 only	y) 29
5	Working with the Data Source	. 31
	Modifying the Classpath of a Domain	32
	Manually Modifying the Classpath of a Node Agent	32
	Graphical Method (preferred)	32
	File-based Method (advanced)	33
	Creating a New Data Source	34
	Deleting a Data Source	35
6	Deploying Applications	. 37
	Deploying Applications	38
	Deploying a Web Application	38
	Deploying a Portal Application	39
	Undeploying Applications	39
	Undeploying a Web Application	39
	Undeploying a Portal Application	
7	Setting Up the Sun JES Application Server LoadBalancer Plugin	. 41
	Generating the JES Application Server LoadBalancer Plugin	42
	Deleting the JES Application Server LoadBalancer Plugin	42

Part 3. Web Server

8	Installing a Web Server 45
	Installing JES Web Server
	Starting and Stopping JES Web Server Components
	admin Console
	Server Instances
	Installing Apache and IIS Web Servers
9	Configuring the Web Server and JES LoadBalancer Plugin
	Configuring the Web Server

Configuring Sun JES Web Server	66
Configuring Apache and IIS Web Servers	79
Configuring the LoadBalancer Plugin for the Web Server	80
Configuring for Sun JES Web Server	80
Configuring for Apache 2.X	83
Configuring for IIS	84

Part 4. Content Server

10	Installing the Content Server Web Application and Portal	37
	Pre-Installation Steps	88
	Installing Content Server	88
11	Completing the Content Server Installation	17
	Step I. Test the Administrative Interface	18
	Step II. Configure the Portal Interface (Portal Installations Only) 12	21
	Step III. Integrate with LDAP (Optional. Web Installations Only) 13	34
	Step IV. Install Verity Search Engine (Optional) 13	34
	Step V. Set Up Content Server for Its Business Purpose (All Installations) 13	34

Appendixes

Α.	Sample Procedure for Installing JES	.137
	Installing JES	. 138
В.	Sample Procedure for Uninstalling JES	.157
	Uninstalling JES	. 158

Chapter 1 Installation Overview

This document provides guidelines for installing Content Server on Sun Java Enterprise System 2004Q2, 2005Q1, and 2005Q3 connecting to a supported database of your choice.

Note

Anyone using this guide is expected to have experience installing and configuring databases, web servers, and application servers. Selected information regarding the configuration of third-party products is given in this guide. For detailed information about a particular third-party product, refer to that product's documentation.

In this guide, Sun Java Enterprise System is called "JES."

This chapter provides information that will help you prepare for the Content Server installation. It contains the following sections:

- What This Guide Covers
- What This Guide Does Not Cover
- System Requirements
- Terms and Acronyms
- Graphics in This Guide
- Installation Steps

What This Guide Covers

This guide covers the usage of Sun Java Enterprise System versions 2004Q2, 2005Q1, and 2005Q3 as they pertain to Content Server. Topics covered include the installation and configuration of a database, installation and configuration of JES (portal/Directory Server Optional), creation of a data source, deployment of war and ear files, configuration of a cluster, configuration of a remote web server, and the installation of Content Server.

What This Guide Does Not Cover

This guide does not cover the following topics, as they fall outside the scope of this guide:

- Installation of the Apache and IIS web servers
- SSL configuration on Apache and IIS

How This Guide Is Organized

The content of this guide is organized by function rather than the order in which installation steps are completed. For example, a function such as application deployment is associated with the application server. It is presented in Part II (which covers the application server), even though it is performed, later, when Content Server is installed (Part IV). Each major component of the Content Server installation is covered in its own part.

Installation Summary

After you install and configure the J2EE components that support Content Server, you will run the Content Server installer, which will guide you through the installation process. You will run the installer on each development, delivery, and management system on which you plan to use Content Server. During the Content Server installation, you will have the option to install or bypass sample sites and sample content, depending on the system you are setting up and on your business needs.

Note

The names of the systems in your Content Server environment might vary from the names used in this document. Generally, the management system is also called "staging," and the delivery system is also called "production."

System Requirements

System requirements for installing Content Server are given in the following documents, located on your Content Server installation CD:

9

- *Content Server Supported Platform List*, which specifies third-party databases and drivers, application servers, web servers, and other software required for installing and running Content Server.
- Content Server Release Notes

FatWire recommends that you read both of these documents before installing Content Server.

Note

The latest versions of the above-mentioned documents are located at the following URL (password-protected):

http://e-docs.fatwire.com/CS

If you need a password, contact FatWire Technical Support. Contact information is available at the following URL:

http://www.fatwire.com/Support/contact_info.html

The e-docs website is organized by product and version number. To obtain the correct documents, follow the link for the version of Content Server you are installing.

Terms and Acronyms

The following table defines the acronyms that are used throughout this guide.

Term	Definition
AS	Application Server
CA	Certified Authority
JES	Java Enterprise System
lb	load balancer
SJSAS	Sun Java Enterprise Application Server
SJSWS	Sun Java Enterprise Web Server
SSL	Secure Sockets Layer
ТА	Trusted Authority

Graphics in This Guide

Many steps in this guide include screen captures of dialog boxes and similar windows that you interact with in order to complete the steps. The screen captures are presented to help you follow the installation process. They are not intended to be sources of specific information, such as parameter values, options to select, or product version number.

Installation Steps

The steps below summarize the installation/configuration of Content Server and its supporting software. Keep the steps handy as a quick reference to the installation procedure and to chapters that provide detailed instructions.

- 1. Ensure that you have licensed copies of all the software you will be installing. For the latest specifications on Content Server's supporting software, refer to the *Content Server Supported Platform List* and *Release Notes*. The latest versions of these documents are available on the e-docs website (password-protected), at the URL that is given in "System Requirements," on page 8.
- **2.** Install, create, and configure your choice of supported databases. For instructions on creating and configuring the database, see our configuration guide, *Third-Party Software*.
- **3.** Install JES and verify the installation.

For instructions, see Chapter 3, "Installing Sun Java Enterprise System." Note that Chapter 3 also provides supplementary information for uninstalling JES (as necessary), as well as starting and stopping JES components (the application server, identity server, and directory server).

- **4.** Configure the JES installation. The steps that you will complete depend on the components you have selected for your installation. The steps are outlined below and given in the sections of Chapter 4, "Configuring JES Application Server."
 - If you need to create a new server instance and node agent, follow the steps in "Working with Server Instances," on page 25.
 - If you are creating a portal installation, follow the steps in "Modifying an App Server Instance to Support Portal Installations (for JES Q305 only)," on page 29.
- **5.** Configure the data source. The steps are outlined below and given in detail in Chapter 5, "Working with the Data Source."
 - **a.** Modify the classpath of the domain (created during the JES installation) to include database connection jars.
 - **b.** Modify the classpaths(s) of the node agent(s).
 - **c.** Create a data source.
- **6.** If you are planning to use a web server, generate the loadbalancer plugin that comes with JES application server. For instructions, see "Generating the JES Application Server LoadBalancer Plugin," on page 42.
- **7.** Install Content Server by running the installer. For instructions, see Chapter 10, "Installing the Content Server Web Application and Portal" and take note of the following:

11

- Halfway through the installation, you will need to deploy Content Server, using either the command line or the graphical web-based method. For instructions on deploying Content Server, see Chapter 6, "Deploying Applications."
- If you are creating a portal installation, you must integrate it with LDAP and you must do so during the Content Server installation process. If you bypass LDAP integration, you will need to reinstall Content Server and make sure to enable the LDAP integration option when prompted by the installer.
- If you are creating a web installation and wish to integrate with LDAP, you can do so either during the Content Server installation or after the installation is complete. If you choose to integrate afterward, follow instructions in our configuration guide, *Third-Party Software*.
- You will have the option to install sample sites and their content. If you are installing a production system, do not install any samples sites and content on the system.
- **8.** Complete the Content Server installation by performing the steps in Chapter 11, "Completing the Content Server Installation." The steps are summarized below:
 - a. Verify the Content Server installation by logging in.
 - **b.** If you created a portal installation, configure the portal installation to display the correct portlets on the required pages.
 - **c.** If you created a web installation and wish to integrate with LDAP, see our configuration guide, *Third-Party Software* for instructions.
 - d. If you wish, you can install the Verity search engine.
- **9.** If you are creating a clustered installation, repeat step 7 and follow instructions in "Working with Clusters," on page 27."
- **10.** Optional. Install and configure a supported web server.
 - **a.** For instructions on installing the web server, see Chapter 8, "Installing a Web Server."
 - **b.** For instructions on configuring the web server, see Chapter 9, "Configuring the Web Server and JES LoadBalancer Plugin." Note the following:
 - 1) If you installed a JES web server, follow the steps in "Configuring Sun JES Web Server," on page 66." For all other supported web servers, follow the steps in "Configuring Apache and IIS Web Servers," on page 79.
 - 2) Make sure to configure the loadbalancer plugin for your choice of web server. For instructions, see "Configuring the LoadBalancer Plugin for the Web Server," on page 80.
- **11.** Once the entire installation is completed and verified, you are ready to set up Content Server for its business purpose.

Part 1 Database

This part contains a short chapter summarizing the databases that Content Server uses. Instructions on creating and configuring the databases are given in our configuration guide, *Third-Party Software*.

This part contains the following chapter:

• Chapter 2, "Setting Up a Database"

Chapter 2 Setting Up a Database

Content Server requires access to a supported database that is specifically configured for Content Server. Supported databases for this release include:

- Oracle 9
- Oracle 10g
- Microsoft SQL Server 2000 SP3 and SP4
- DB2

The complete list of supported databases (as well as other third-party components) is given in the *Supported Platform List* (accessible from http://e-docs.fatwire.com/CS).

Before installing any other of Content Server's supporting software, you must complete the following steps:

- 1. Install the database management system. For instructions, refer to the product vendor's documentation.
- **2.** Create and configure a database for Content Server. For instructions, consult our configuration guide, *Third-Party Software*. Note that database configuration is identical across different application servers. Refer to the correct chapter to create and configure the database of your choice.

Part 2 Application Server

This part contains information about installing and configuring the Sun JES Application Server to support and deploy your Content Server web application or portal.

This part contains the following chapters:

- Chapter 3, "Installing Sun Java Enterprise System"
- Chapter 4, "Configuring JES Application Server"
- Chapter 5, "Working with the Data Source"
- Chapter 6, "Deploying Applications"
- Chapter 7, "Setting Up the Sun JES Application Server LoadBalancer Plugin"

Chapter 3 Installing Sun Java Enterprise System

This chapter provides instructions for installing and verifying JES for use by Content Server.

This chapter contains the following sections:

- Installing JES
- Uninstalling JES
- Starting and Stopping JES Components
- Verifying the JES Installation

Installing JES

- **1.** Procedures for installing JES are environment specific. They depend on licensing terms and the JES version, among other factors.
 - For instructions on installing JES on your environment, consult the JES documentation. Commands for starting and stopping JES components are given in the next section.
 - For reference, Appendix A in this guide provides a sample JES procedure for installing JES.
- **2.** When you have completed the JES installation, complete the steps in "Verifying the JES Installation," on page 21.

Uninstalling JES

For reference, Appendix A provides a sample procedure for uninstalling JES by the use of scripts obtained from Sun Microsystems.

Starting and Stopping JES Components

This section provides the commands for starting and stopping the application server, access manager (identity server) and the directory server.

Note

If you have Directory Server (LDAP integrated systems), start the Access manager and Directory Servers **before** starting the application server.

Application Server

- To start:
 - # /opt/SUNWappserver/appserver/bin/asadmin start-domain \
 --user admin --password <admin_user_password> domain1
- To stop:
 - # /opt/SUNWappserver/appserver/bin/asadmin stop-domain domain1

Access Manager (Identity Server)

- To start
 - # /opt/SUNWam/bin/amserver start
- To stop
 - # /opt/SUNWam/bin/amserver stop

Directory Server

- To start
 - # /usr/sbin/directoryserver start
- To stop
 - # /usr/sbin/directoryserver stop

Verifying the JES Installation

1. Log in and test the application server.

Note

Ports: The ports given below (4849 and 8080) are the default ports. If they were changed during the installation, enter the new port numbers in their place, wherever appropriate.

Connections: By default, JES no longer allows connections to the console without SSL being enabled.

2. Connect to the administrative interface to confirm the server is running:

URL: https://<hostname>:4849/admingui/

	Sun Java [™] System Application Server Administration Console	للجن Java [™]	
2	User Name: Password: Log In		

- **3.** If a portal server is installed:
 - **a.** Log in and test the portal server.
 - **b.** Access the following URL to confirm the portal is running:

http://<hostname>:8080/portal/dt

🔄 Sun JavaTM System Portal Server 6 2004Q2 - Microsoft Internet Explorer						
Elle Edit View Favorites Iools Help						
🕞 Back 🗸 🕥 🖌 😰 👘 🔎 Search 🔗 Fa	avorites 🛞 🔗 🍹 📓	- 📃 🕄 🖏				
Address 🗃 http://realsun03.fatwire.com:8080/portal/dt				▼ 🗲 Go Links ≫		
Sun Java [™] System Port 6 2004Q2	al Server	= Home =	Help	Search		
My Front Page Samples Search Collabora	ation Portlet Samples					
Login ?	Sample JSP Channel			?		
Member Login	An Introduction of the JSP p	rovider				
Local Login user ID password	The JSPProvider content channel is an example of Edit button.	provider can be used to create de what is possible using JSPs. To cl	sktop channels using <u>Ja</u> nange the session attribu	<u>vaServer Pages</u> . This utes, click the channel		
	JSP:	samplecontent.jsp				
Login	JSP Real Path:	/etc/opt/SUNWps/desktop/s				
New West? Sime are up	Request Parameters:	None				
New User? Sign me up	Session Attributes:	None				
Trouble signing in? <u>Get Help</u>	Selected User Attributes:	First Name (givenname) = null Last Name (sn) = default				
Sun Information	VML Test Channel			2		
News and information about Sun						
Browse Sun JavaTM Systems	company22.com	10.040000	0	NASDAQ, 15:47		
<u>The latest word from Sun Software</u>	Change	16.240000	Open Draviava Class	10.8		
Ihe latest word from Sun Microsystems	Change % Chapge	-0.85	Previous Close	17.090000		
My Bookmarks	Volumo	-4.97%	Diu Ack	10.24		
	Davis High	16.99	52 Week High	64 6562		
Enter URL Below:	Day's Low	16.05	52 Week Low	12.85		
	Daystow	10.00	52 1166K L011	12.00		
Sun home page						
Everything you want to know about Sun Java						
Sun Software home name						
				Home Help		
E Done				💣 Internet		

Chapter 4 Configuring JES Application Server

This chapter provides instructions for configuring JES Application Server for use by Content Server.

This chapter contains the following sections:

- Working with Domains
- Working with Server Instances
- Working with Clusters
- Modifying an App Server Instance to Support Portal Installations (for JES Q305 only)

Working with Domains

This section provides instructions for completing the following operations:

- Backing Up a Domain
- Restoring a Domain

Backing Up a Domain

You may wish to back up your domain before you attempt to modify it. This allows you to restore the domain later on if something fails to work properly.

To back up a domain

1. Stop the domain you wish to back up:

./asadmin stop-domain domain1

2. Back up the domain:

3. Write down the name of the backup information that is given after the backup task is complete, as you will need this information to restore the domain.

For example:

```
Backup Filename: /var/opt/SUNWappserver/domains/domain1/
backups/sjsas_backup_v00001.zip
Date and time backup was performed: Sat Sep 24 12:13:44 EDT
2005
Domains Directory: /var/opt/SUNWappserver/domains
Domain Directory: /var/opt/SUNWappserver/domains/domain1
Domain Name: domain1
Name of the user that performed the backup: root
```

4. Restart the domain:

./asadmin start-domain --user admin --password demo4132 domain1

Restoring a Domain

- 1. Stop the domain you wish to back up:
 - ./asadmin stop-domain domain1
- **2.** Restore the domain:

3. Restart the domain:

```
./asadmin start-domain --user admin --password demo4132 domain1
```

Working with Server Instances

This section provides instructions for completing the following operations:

- Creating a New Server Instance and Node Agent (as Necessary)
- Deleting a Server Instance
- Deleting a Node Agent

Creating a New Server Instance and Node Agent (as Necessary)

The following steps show you how to create a new server instance on which to install Content Server. A new server instance is helpful, as it allows you to separate your Content Server installation from administration functions. Note, however, that while the server instance can be expanded for use in portal installations, the procedure is outside the scope of this guide. Instead, you will be creating a new node (named realsun03 in our examples) and a new instance (named csPortal in our examples).

Note

All commands below are based on the assumption that your current location is /opt/SUNWappserver/sbin (which is the location where your JES application server is installed).

1. List all know instances:

```
./asadmin list-instances --host localhost --port 4849 \
    --user admin --password demo4132
```

Normally the command returns none for a new installation.

2. List all known node agents:

```
./asadmin list-node-agents --host localhost --port 4849 \
    --user admin --password demo4132
```

Normally the command returns none for a new installation.

3. Create a new node agent:

```
./asadmin create-node-agent --host localhost \
    --port 4849 --user admin --password demo4132 realsun03
```

Enter a master password when prompted. (Note that your password is not displayed as you type it. Be sure that you enter the password correctly.)

4. Start the new node agent:

```
./asadmin start-node-agent --user admin \
    --password demo4132 realsun03
```

Note

Before continuing, you can repeat step 2 now as it will show whether your new node agent was correctly created (this can also be confirmed from the administrative GUI).

5. Create a new instance:

```
./asadmin create-instance --user admin --password demo4132 \
    --host localhost --port 4849 --nodeagent realsun03s\
    csPortal
```

6. Start the new instance:

```
./asadmin start-instance --host localhost --port 4849 \
    --user admin --password demo4132 csPortal
```

Note

Before continuing, you can repeat step 1 now as it will show whether your new instance was correctly created (this can also be confirmed from the administrative GUI).

7. List information on the new instance, including ports:

```
./asadmin list-system-properties --host localhost \
    --port 4849 --user admin --password demo4132 csPortal
```

This command returns information similar to the following, which is a list of all the ports allocated to this new instance:

```
HTTP_LISTENER_PORT=38080
HTTP_SSL_LISTENER_PORT=38181
IIOP_SSL_LISTENER_PORT=33820
IIOP_LISTENER_PORT=33700
JMX_SYSTEM_CONNECTOR_PORT=38686
IIOP_SSL_MUTUALAUTH_PORT=33920
Command list-system-properties executed successfully.
```

Deleting a Server Instance

1. Stop the instance:

```
./asadmin stop-instance --user admin --password demo4132 \
    --host localhost --port 4849 csPortal
```

2. Delete the instance:

```
./asadmin delete-instance --user admin --password demo4132 \
    --host localhost --port 4849 csPortal
```

Deleting a Node Agent

1. Stop the node agent:

./asadmin stop-node-agent realsun03

- 2. Delete the node agent:
 - ./asadmin delete-node-agent realsun03

Working with Clusters

This section provides instructions for completing the following operations:

- Creating a Cluster
- Migrating EJB Timers on a Cluster
- Deleting a Cluster
- •

Creating a Cluster

1. List existing clusters:

```
./asadmin list-clusters --user admin --password demo4132 \
    --host localhost --port 4849
```

2. Create a new cluster:

```
./asadmin create-cluster --user admin --password demo4132 \
    --host localhost --port 4849 testCluster
```

3. Create a new instance to add to your cluster:

Note

For detailed instructions on creating a node agent and instance see section "Creating a New Server Instance and Node Agent (as Necessary)," on page 25. Follow the instructions as given. However, add the -- cluster <name> option to the create-instance command.

```
./asadmin create-instance --user admin --password demo4132 \
    --host localhost --port 4849 --cluster testCluster \
    --nodeagent portalTest Ctest
```

4. Start the new cluster:

```
./asadmin start-cluster --user admin --password demo4132 \
    --host localhost --port 4849 testCluster
```

Migrating EJB Timers on a Cluster

1. Locate the stopped instance by using the list command:

```
./asadmin list-instances --host localhost --port 4849 \
    --user admin --password demo4132
```

2. Move the EJB timers from the stopped instance to one that is running on the same cluster. In this case move the EJB timers from Dtest to Ctest:

```
./asadmin migrate-timers --user admin --password demo4132 \
    --host localhost --port 4849 --destination Ctest Dtest
```

3. Restart the instance to which the timers were moved:

```
./asadmin stop-instance --user admin --password demo4132 \
    --host localhost --port 4849 Ctest
```

```
./asadmin start-instance --host localhost --port 4849 \
    --user admin --password demo4132 Ctest
```

Deleting a Cluster

- 1. Delete all instances located in the cluster:
 - ./asadmin delete-instance --user admin --password demo4132 \
 --host localhost --port 4849 Ctest
- **2.** Stop the cluster:

```
./asadmin stop-cluster --user admin --password demo4132 \
    --host localhost --port 4849 testCluster
```

- **3.** Delete the cluster:
 - ./asadmin delete-cluster --user admin --password demo4132 \
 --host localhost --port 4849 testCluster
- 4. List the remaining cluster to ensure that the deletion was completed:
 - ./asadmin list-clusters --user admin --password demo4132 \
 --host localhost --port 4849

Modifying an App Server Instance to Support Portal Installations (for JES Q305 only)

By default, the portal is installed on the "server" instance, which was created during the installation of the portal. If you wish to deploy the portal to a new instance, follow the steps in this section.

- 1. Execute /opt/SUNWps/bin/multiserverinstance (the location may vary with the installation).
 - **a.** Select option 1: "Create a new portalserver instance"
 - b. Select option 3: "Sun Java Systems Application Server 8.1"
 - **c.** Answer the following questions when prompted:

Where is the Web Container installed? [/opt/SUNWappserver/ appserver] What is the domain name? [domain1]

- What is the domain (DAS) path? [] /var/opt/SUNWappserver/ domains/domain1/
- What is the Web Container instance path? [] /var/opt/ SUNWappserver/nodeagents/<node agent name>/<instance name>/

What is the Web Container administrator? [admin]

What is the Web Container administration port? [4849]

Is the Web Container administration port secure? [y]/n y

Instance name? <instance to add portal to>

Instance port? <port on which the instance is running>

Is the instance port secure? y/[n] n

- What is the Web Container document root directory? [/var/ opt/SUNWappserver/nodeagents/realsun03a/csInstanceA// docroot]
- What is the Application Server administration password? <hidden>

What is the Identity Server administration password? <hidden>

- **d.** Confirm that your previous selections are correct and click [**y**].
- **e.** Allow the installation to complete.
- **2.** If you already have a portal configured on another instance, then the script will fail to redeploy the portal applications. To correct the situation, do the following:
 - **a.** Log in to the admin console.
 - **b.** Complete the steps below for each of the following web applications: amserver, ampassword, amcommon, amconsole, portal, portalsamples.
 - **1)** Select the application.
 - 2) Select the **Targets** tab.

- 3) Click the Manage Targets button.
- 4) Add the instance that was added above (in step 1 on page 29).
- 5) Click OK.
- **c.** Restart the affected instance and domain.

Chapter 5 Working with the Data Source

This chapter provides instructions for creating a domain and data source for web and portal installations.

This chapter contains the following sections:

- Modifying the Classpath of a Domain
- Manually Modifying the Classpath of a Node Agent
- Creating a New Data Source
- Deleting a Data Source

Modifying the Classpath of a Domain

The classpath of a domain must be modified to include database connection jars. The basic classpath affects only the domain and not any server instances.

To modify the classpath of a domain

1. Determine the pre_class_path for a server running on a given port:

```
./asadmin get --user admin --password demo4132 \
    --host localhost --port 4849 server.java-
    config.classpath_prefix
```

Example return:

```
server.java-config.classpath-prefix = /opt/SUNWam/lib/sax.jar:/
opt/SUNWam/lib/dom.jar:/opt/SUNWam/lib/saaj-api.jar:/opt/
SUNWam/lib/common-logging.jar:/opt/SUNWam/lib/saaj-
impl.jar:/opt/SUNWam/lib/mail.jar:/opt/SUNWam/lib/
activation.jar:
```

2. Add a new item to the classpath:

```
./asadmin set --user admin --password demo4132 \
    --host localhost \
    --port 4849 server.java-config.classpath_prefix={string
    return from get}:{path to classes12.zip}
```

Example of the modified return:

```
/opt/SUNWam/lib/sax.jar:/opt/SUNWam/lib/dom.jar:/opt/SUNWam/
lib/saaj-api.jar:/opt/SUNWam/lib/common-logging.jar:/opt/
SUNWam/lib/saaj-impl.jar:/opt/SUNWam/lib/mail.jar:/opt/
SUNWam/lib/activation.jar:/u01/DB/Oracle/classes12.zip:/u01/
DB/Oracle/ojdbc14.jar:/u01/DB/JTDS/jtds-1.1.jar:/u01/DB/DB2/
db2jcc.jar:/u01/DB/DB2/db2jcc_license_cu.jar
```

3. Restart the affected domain.

Manually Modifying the Classpath of a Node Agent

This section shows you how to modify the classpath of a node agent, using the graphical interface and a file-based method.

Note

The graphical interface method is preferred. The file-based method is an advanced method for experienced users.

Graphical Method (preferred)

- Open the admin console of the Sun JES Application Server and browse the left-hand tree to Configuration > *instance_name* > JVM Settings.
- 2. Select the **Path Settings** tab (in the right-hand panel).

- **a.** Add the correct paths to the list box "Classpath Prefix," making sure to list one jar file per line.
- **b.** Save the changes by clicking the **Save** button, then restart the instance.



File-based Method (advanced)

The file-based method for modifying the classpath of a node agent involves editing an xml file. In order to successfully edit the file, you must be especially careful to enter all characters correctly. Complete the following steps:

- Make a backup of domain.xml (located in: /var/opt/SUNWappserver/domains/domain1/config/domain.xml
- 2. Using a text editor, open domain.xml (located in: /var/opt/SUNWappserver/domains/domain1/config/domain.xml
 - a. Search for: <instance name>-name
 - **b.** Search again for: server-classpath
 - **c.** Add a new section called: classpath-prefix It has the following form:

```
classpath-prefix="/<path>/file.jar:
    ${path.separator}<path>/file.jar"
Example:
    classpath-prefix="
    /u01/DB/Oracle/classes12.zip:
    ${path.separator}/u01/DB/Oracle/ojdbc14.jar:
    ${path.separator}/u01/DB/JTDS/jtds-1.1.jar:
    ${path.separator}/u01/DB/DB2/db2jcc.jar:
    ${path.separator}/u01/DB/DB2/db2jcc_license_cu.jar"
```

- **d.** Save the changes.
- 3. Restart the domain.

Creating a New Data Source

1. List all currently created pools and all resources:

```
./asadmin list-jdbc-connection-pools --user admin \
    --password demo4132
```

```
./asadmin list-jdbc-resources --user admin --password demo4132
```

2. Create a new data pool for your database type:

```
For Oracle 9 and 10:
Include ojdbc14.jar and classes12.zip in the classpath
```

```
./asadmin create-jdbc-connection-pool --user admin \
    --password demo4132 --host localhost --port 4849 \
    --datasourceclassname oracle.jdbc.pool.OracleDataSource \
    --restype javax.sql.ConnectionPoolDataSource \
    --property User=JES3:Password=demo4132:URL=\
    "jdbc:oracle:thin:@10.120.16.55:1521:OraCS621\
    " csPoolOracle
```

- For SQL Server 2000:

Using the third-party JTDS driver, include jtds-1.1. jar in the classpath

./asadmin create-jdbc-connection-pool --user admin \
 --password demo4132 --host localhost --port 4849 \
 --datasourceclassname net.sourceforge.jtds.jdbcx.
 JtdsDataSource --restype javax.sql.DataSource \
 --property User=csuser:Password=demo4132:
 SelectMethod=Cursor:DatabaseName=CS621:serverName=\
 "win2k3db.fatwire.com\":portNumber=1433 csPoolJTDS

- For DB2:

```
Using the third-party IBM DB2 drivers, include db2jcc.jar and db2jcc_license_cu.jar
```

```
./asadmin create-jdbc-connection-pool --user admin \
    --password demo4132 --host localhost --port 4849 \
    --datasourceclassname
    com.ibm.db2.jcc.DB2ConnectionPoolDataSource \
    --restype javax.sql.ConnectionPoolDataSource \
    --property User=csuser:Password=demo4132:URL=\"jdbc:db2:/
    /aixdb2.fatwire.com:50001/
    CS621JES\":driverType=4:serverName=aixdb2.fatwire.com:dat
    abaseName=CS621JES:portNumber=50001 csPoolIBMDB2
```

Note

The data source command below automatically targets the default instance server to target another instance. Add the --target <instance name> option after --port <number>.

3. Create a new data source that connects to your pool above:

```
./asadmin create-jdbc-resource --user admin \
    --password demo4132 --host localhost --port 4849 \
    --connectionpoolid csPoolOracle jdbc/csDataSourceOracle
```

- **4.** Restart the domain.
- **5.** Test the pool:

```
./asadmin ping-connection-pool --user admin \
    --password demo4132 --host localhost \
    --port 4849 csPoolIBMDB2
```

Deleting a Data Source

1. List all currently created pools and all resources:

```
./asadmin list-jdbc-connection-pools --user admin \
    --password demo4132
```

- ./asadmin list-jdbc-resources --user admin --password demo4132
- **2.** Delete the data pool:

```
./asadmin delete-jdbc-resource --user admin \
    --password demo4132 --host localhost --port 4849 jdbc/
csDataSourceOracle
```

3. Delete the data source:

```
./asadmin delete-jdbc-connection-pool --user admin \
    --password demo4132 --host localhost --port 4849 csPoolDB2
```
Chapter 6 Deploying Applications

This chapter provides instructions for deploying Content Server as a web application and a portal.

This chapter contains the following sections:

- Deploying Applications
- Undeploying Applications

Deploying Applications

This section provides instructions for completing the following operations:

- Deploying a Web Application
- Deploying a Portal Application

Deploying a Web Application

Note

If you are deploying to an instance other than server, then add the instance to the end of the command.

1. List all currently deployed applications:

```
./asadmin list-application-refs --user admin \
    --password demo4132 --host localhost --port 4849 csPortal
```

Note

The deployment command below automatically targets the default instance server to target another instance. Add the --target <instance name> after --port <number>.

2. Deploy Content Server:

```
./asadmin deploy --user admin --password demo4132 \
    --host localhost --port 4849 --contextroot cs --name cs \
    --target csPortal /u01/CS/suneone/091605_cs6321_Sx86/
    ominstallinfo/app/ContentServer.ear
```

3. List all currently deployed applications (to confirm proper deployment):

```
./asadmin list-application-refs --user admin \
    --password demo4132 --host localhost --port 4849 csPortal
```

4. Restart the instance on which you deployed Content Server (not required but strongly suggested):

```
./asadmin stop-instance --host localhost --port 4849 \
    --user admin --password demo4132 csPortal
```

```
./asadmin start-instance --host localhost --port 4849 \
    --user admin --password demo4132 csPortal
```

Deploying a Portal Application

Note

If you are deploying to an instance other than server, add the instance to the end of the command.

1. List all currently deployed applications:

```
./asadmin list-application-refs --user admin \
    --password demo4132 --host localhost --port 4849
```

2. Deploy the war file using the portal deploy command:

```
/opt/SUNWps/bin/pdeploy deploy -u
"uid=amAdmin,ou=People,dc=fatwire,dc=com" -v -w demo4132456
-d "dc=fatwire,dc=com" -p demo4132 /u01/CS/suneone/
091605_cs6321_Sx86/ominstallinfo/app/cs.war
```

3. List all currently deployed applications (to confirm proper deployment):

```
./asadmin list-application-refs --user admin \
    --password demo4132 --host localhost --port 4849
```

4. Restart the instance on which you deployed Content Server (not required but strongly suggested):

```
./asadmin stop-instance --host localhost --port 4849 \
    --user admin --password demo4132 csPortal
```

```
./asadmin start-instance --host localhost --port 4849 \
    --user admin --password demo4132 csPortal
```

Undeploying Applications

This section provides instructions for completing the following operations:

- Undeploying a Web Application
- Undeploying a Portal Application

Undeploying a Web Application

All commands below are based on the assumption that your current directory is /opt/SUNWappserver/sbin (the location where your JES application server is installed):

```
./asadmin undeploy --user admin --password demo4132 \
    --host localhost --port 4849 --target csPortal cs
```

Undeploying a Portal Application

All commands below are based on the assumption that your current directory is /opt/ SUNWps/bin: 39

```
./undeploy: ./pdeploy undeploy -u
"uid=amAdmin,ou=People,dc=fatwire,dc=com" -v -w demo4132456
    -d "dc=fatwire,dc=com" -p demo4132 cs
```

Chapter 7

Setting Up the Sun JES Application Server LoadBalancer Plugin

If you plan to install a web server you need to generate the loadbalancer plugin that comes with JES application server. This chapter provides instructions for generating the plugin.

This chapter contains the following sections:

- Generating the JES Application Server LoadBalancer Plugin
- Deleting the JES Application Server LoadBalancer Plugin

Generating the JES Application Server LoadBalancer Plugin

- **1.** Create an lb-config file:
 - ./asadmin create-http-lb-config --host localhost --port 4849 \
 --user admin --password demo4132 --target csPortal
 lbconfig_csPortal
- 2. Run the following command for each instance, other than the first, that you want to be referenced in the lb-config:
 - ./asadmin create-http-lb-ref --host localhost --port 4849 \
 --user admin --password demo4132 --config lbconfig_csPortal
 csDB2
- **3.** Enable the http-lb-server for each instance given in steps 1 and 2:
 - ./asadmin enable-http-lb-server --host localhost --port 4849 \
 --user admin --password demo4132 csPortal
- **4.** Create a new health checker. Repeat this step for every instance given in steps 1 and 2:
 - ./asadmin create-http-health-checker --host localhost \
 --port 4849 --user admin --password demo4132 --config
 lbconfig_csPortal csPortal
- 5. Export the lb-config file to disk, then copy it to each web server that you will use:
 - ./asadmin export-http-lb-config --host localhost --port 4849 \
 --user admin --password demo4132 --config lbconfig_csPortal
 /u01/lbconfig.xml

Deleting the JES Application Server LoadBalancer Plugin

1. Delete the http health checker for each instance:

```
./asadmin create-http-health-checker --host localhost \
    --port 4849 --user admin --password demo4132 --config
    lbconfig_csPortal csPortal
```

- **2.** Delete references to each instance you want to remove:
 - ./asadmin delete-http-lb-ref --host localhost --port 4849 \
 --user admin --password demo4132 --config lbconfig_csPortal
 csPortal
- **3.** After all instances have been deleted, remove the lb-config itself:

```
./asadmin delete-http-lb-config --host localhost --port 4849 \
    --user admin --password demo4132 lbconfig_csPortal
```

Part 3 Web Server

This part contains information related to the web servers that support Content Server web applications and portals. Note that installing a web server is optional.

This part contains the following chapters:

- Chapter 8, "Installing a Web Server"
- Chapter 9, "Configuring the Web Server and JES LoadBalancer Plugin"

Chapter 8 Installing a Web Server

This chapter provides instructions for installing your choice of supported web servers: Sun JES, Apache 2.x, and IIS.

This chapter contains the following sections:

- Installing JES Web Server
- Starting and Stopping JES Web Server Components
- Installing Apache and IIS Web Servers

Installing JES Web Server

At the time this guide was written, the latest version of Sun Java System Web Server was 6.1 patch 4. This section covers the installation and configuration of Sun Java System Web Server 6.1, also referred to as "JES web server" in this guide.

To install JES web server

Note

Before you can use any external web server with the JES application server, you must complete the steps required to create an lb-configuration. For instructions, see "Generating the JES Application Server LoadBalancer Plugin," on page 42.

The plugin that was installed is for the platform on which the installation was done. If you need a plugin for Windows, you will need to install the Sun JES application server on Windows to get a copy of the plugin.

- 1. Create a new user and group named webservd which this web server can run as.
- **2.** Download the correct package from the Sun site.
- **3.** Make a temporary directory and copy the tar file into it.
- 4. Uncompress the archive by running: tar -xf <file name>.tar
- 5. Start the installer by running: ./setup
- **6.** Respond to the installer prompts to specify your options for this installation. For instructions, continue with steps a–p.

Note

In steps a–p, pay careful attention to the options you are choosing, as the system will be creating files according to your chosen options. The correct files can be created only if the options are correctly chosen.

a. Press **Enter** to continue the installation.

🔽 1:10.120.16.41 - [realsun02] - F-Secure SSH Client	- D ×
Eile Edit View Window Help	
Quick Connect Profiles	
Sun Microsystems, Inc. Sun ONE Web Server Installation/Uninstallation	_
Ĩ	
Welcome to the Sun ONE Web Server installation program This program will install Sun ONE Server Products and the Sun ONE Console on your computer.	
It is recommended that you have "root" privilege to install the software.	
<pre>Tips for using the installation program: - Press "Enter" to choose the default and go to the next screen - Type "Control-B" to go back to the previous screen - Type "Control-C" to cancel the installation program - You can enter multiple items using commas to separate them. For example: 1, 2, 3</pre>	
Would you like to continue with installation? [Yes]:	Ţ
Connected to 10.120.16.41 55H2 - 3des-cbc - hmac-sha1 - none 80x25 54, 22 00:12	:21

b. Agree to the terms by entering **yes**.

🔽 1:10.120.16.41 - [realsun02] - F-Se	ecure SSH Client			_ 🗆 🗵
Eile Edit <u>V</u> iew <u>W</u> indow <u>H</u> elp				
- - - - - - - - -	👬 🛡 🗑 🗑 🦓 🔖			
Quick Connect 🗋 Profiles				
				_
Sun ONE T	Sun Microsystems, Inc Web Server Installation/U	ninstallatio	on	
BY INSTALLING THIS SOFTWAR AND ARE BECOMING A PARTY 7 LICENSE.TXT FILE. IF YOU I OF THIS AGREEMENT, PLEASE Do you agree to the licens	RE YOU ARE CONSENTING TO TO THE AGREEMENT FOUND IN DO NOT AGREE TO ALL OF TH DO NOT INSTALL OR USE TH Se terms? [No]: yes	BE BOUND BY THE E TERMS IS SOFTWARE.		
				-
, Connected to 10.120.16.41	SSH2 - 3des-cbc - hmac-sha1 - none	80×25	45, 12	00:13:05

c. For "Choose an installation type," enter the default (2).



d. Leave the default location selected.



e. When prompted for which components to install, enter ALL.

🔽 1:10.120.16.41 - [realsun02] - F-Se	ecure SSH Client			_ 🗆 ×
Eile Edit <u>V</u> iew <u>W</u> indow <u>H</u> elp				
	👬 호 🖻 ன 🍓 🔗 📢			
Quick Connect 📄 Profiles				
Sun ONE 1	Sun Microsystems, Inc. Jeb Server Installation/Un	ninstallatio	on 	
Sun ONE Web Server compone	ents:			
Components with a number : which you can select using	in () contain additional : g subsequent screens.	subcomponent	.5	
1. Sun ONE Web Server,	, Enterprise Edition (2)			
Specify the components you	a wish to install [All]:	I		
Connected to 10,120,16,41	j55H2 - 3des-cbc - hmac-shal - none	80x25	51, 15	00:14:13

f. When prompted to install either core or JDK, specify the option that makes the most sense in your environment. If you have a valid 1.4+ JDK installed, specify core. Otherwise, specify JDK.

🔽 1:10.120.16.41 - [realsun02] - F-Se	cure SSH Client				_ 🗆 ×
Eile Edit View Window Help					
	👫 🛡 🖲 💌 🌯 🔗 🎌				
📗 🗋 Quick Connect 📋 Profiles					
Sun ONE 5	Sun Microsystems, Inc Jeb Server Installation/U	ninstall:	ati	on 	
Sun ONE Web Server, Enterp	orise Edition components:				
Components with a number i which you can select using	n () contain additional : ; subsequent screens.	subcompo	nen	ts	
1. Server Core 2. Java Development Ki	t				
Specify the components you	wish to install [1, 2]:				
Connected to 10.120.16.41	SSH2 - 3des-cbc - hmac-sha1 - none	80x25		52, 16	00:15:12 //.

g. Enter the DNS name of this server.

🔽 1:10.120.16.41 - [realsun02] - F-Se	ecure SSH Client			_ 🗆 ×
Eile Edit <u>V</u> iew <u>W</u> indow <u>H</u> elp				
E <i>5</i> C <i>9 S</i> • C •	👬 🛡 🗑 🕅 🎭 🔗 🕅			
📗 🗋 Quick Connect 📋 Profiles				
Sun ONE 1	Sun Microsystems, Inc Web Server Installation/U	ninstallatio	n 	
Enter the fully qualified on which you're installing <hostname>.<domainname> Example: eros.airius.com.</domainname></hostname>	domain name of the compu g server software. Using	ter the form		
To accept the default show	wn in brackets, press the	Enter key.		
Computer name [realsun02.5	fatwire.com]:			
				-
Connected to 10.120.16.41	SSH2 - 3des-cbc - hmac-sha1 - none	80x25	40, 14	00:16:24

- **h.** Enter the group and user to run the server as. Use the group and user created in step 1 on page 46.
- i. Enter the default root for "Run Web Server Administration Server as []".

🔽 1:10.120.16.41 - [realsun02] - F-5e	ecure SSH Client				_ 🗆 ×
Eile Edit <u>V</u> iew <u>W</u> indow <u>H</u> elp					
	👬 호 🖻 🗖 🆓 🔗 🕅				
📗 🗋 Quick Connect 📋 Profiles					
Sun ONE 5	Sun Microsystems Inc. Jeb Server Installation/Un	ninstalls	ation	n 	
The Web Server Administrat other web servers on the s Web Server Administration user id than those used by The Administration Server server configuration files	tion Server is different f system. It is recommended Server run with a differe the other web servers of user is the only user ab 3.	from that the ent h the mad le to wri	e chine ite T	⊇. web	
Note: If the Web Server Ad as "root", the administrat the other web servers.	Aministration Server is ru tion GUI can be used to st	un tart and	stoj	p	
Run Web Server Administrat	ion Server as [root]:				×
Connected to 10.120.16.41	SSH2 - 3des-cbc - hmac-sha1 - none	80x25		49, 19	00:18:23

j. Enter the name of the admin server user and a password. Use the default [admin], or note what you entered here.



k. Enter the port on which to run the admin server. Use the default or note what you entered here.

🔽 1:10.120.16.41 - [realsun02] - F-Se	cure SSH Client			
Eile Edit View Window Help				
844	🛤 😨 🗑 💌 🎭 🔗 🍋			
Quick Connect 📄 Profiles				
Sun ONE W	Sun Microsystems Inc. eb Server Installation/Un	ninstallati	.on	·
The Web Server Administrat restricted access). Pick to run your Web Server Adm your web server port.	ion Server also listens (a port number between 102 inistration Server. It n	to a differ 24 and 6553 must be dif	ent port (wit) 5 on which ferent than	1
Web Server Admin Server Po	rt [8888]: 📕			
Connected to 10.120.16.41	SSH2 - 3des-cbc - hmac-sha1 - none	80x25	38, 13 00:20	•

I. Enter the port on which to run the web server. Use the default value [80].

🔽 1:10.120.16.41 - [realsun02] - F-Se	ecure SSH Client		_ 🗆 🗙
Eile Edit Yiew Window Help			
	👬 🔽 🖲 💌 🇠 🔖		
Quick Connect 📄 Profiles			
Sun ONE U Pick a port number between You should NOT use a port Web Server Port [80]:	Sun Microsystems Inc. Jeb Server Installation/U 	ninstallation to run your We to run other s	
Connected to 10.120.16.41	55H2 - 3des-cbc - hmac-sha1 - none	80x25	▼ 3, 11 00:21:30

m. Enter the path to the location where the document root is to be kept. This path depends on your environment. If you are using this server only for Content Server, the default will work.

🔽 1:10.120.16.41 - [realsun02] - F-Se	ecure SSH Client			_ 🗆 ×
<u> </u>				
860.88 •66	🛤 호 🖻 🖬 🍓 🗞 🌾			
Quick Connect 🗋 Profiles				
Sun ONE T	Sun Microsystems Inc. Jeb Server Installation/U	ninstallat	ion	·
Enter content root for the	e Web Server.			
Web Server Content Root [/	'opt/SUNWwbsvr/docs]:			
Connected to 10.120.16.41	SSH2 - 3des-cbc - hmac-sha1 - none	80x25	48, 10	00:22:27

n. Decide if you want this server to be started automatically and enter your choice.

🔽 1:10.120.16.41 - [realsun02] - F-Se	ecure SSH Client			
<u> </u>				
E 6 Q 8 S • C C	👬 🔽 🖻 ன 🧠 🗞			
Quick Connect 📄 Profiles				
	Sun Microsystems Inc.			-
Sun ONE 5	Jeb Server Installation/U	ninstallatio	on 	
Would you like Web Server	to be started automatica	lly when the	e system boots	?
Web Server Start On Boot [[yes]:			
				•
Connected to 10.120.16.41	SSH2 - 3des-cbc - hmac-sha1 - none	80x25	33, 10 00:23:	00 //.

o. If you specified core only (in step f on page 52), provide the installer with the location of your JDK.

🔽 1:10.120.16.41 - [realsun02] - F-Se	ecure SSH Client			_ 🗆 ×
Eile Edit <u>V</u> iew <u>W</u> indow <u>H</u> elp				
E <i>6</i> C, <i>9 S</i> • C C	👬 호 🖻 ன 🇠 🐶			
Quick Connect 📄 Profiles				
Sun ONE T	Sun Microsystems Inc. Jeb Server Installation/U 	ninstallat	ion	
Please enter the absolute (A JDK is necessary for th and earlier in this instal install the bundled JDK.)	path to your JDK directo: he Sun ONE WebServer to o Llation process, you chose	ry. perate ≥ not to		
JDK Directory: /usr/java				
				•
Connected to 10.120.16.41	SSH2 - 3des-cbc - hmac-sha1 - none	80x25	25, 13	00:26:50 //.

p. Enter the location of the JDK libpath you wish to use. If you have a single JDK, leave this field blank.

The installation process starts.



- 7. When the installation process is complete, do the following:
 - a. Create the directory structure: /passthrough/bin
 - **b.** Copy the files and directories that were created by the installation process from:

```
/opt/SUNWappserver/appserver/lib/webserver-plugin/
<platform>/iws61
```

into:

```
/opt/SUNWwbsvr/plugins/passthrough/bin/
```

Starting and Stopping JES Web Server Components

This section provides instructions for starting and stopping the following components of the web server installation:

- admin Console
- Server Instances

admin Console

Note

Start and stop the admin console by issuing the commands below. Ignore the message that was displayed at the end of the web server installation, instructing you to start the console from the interface. The instructions apply only if your graphical display is local.

• To start the admin console:

/opt/SUNWwbsvr/https-admserv/start

• To stop the admin console:

/opt/SUNWwbsvr/https-admserv/stop

• To access the admin console:

http://10.120.16.41:8888

Log in as user admin with *admin_password* (in this guide, *admin_password* is **demo4132**).

Example of the admin console:



Server Instances

Instances of the Sun JES web server can be started from their relevant paths. During installation, a single default was created from the DNS name of the machine. Thus, if the DNS name is realsun02.fatwire.com, the instance is named as follows: https-realsun02.fatwire.com

• To start a server instance:

/opt/SUNWwbsvr/https-realsun02.fatwire.com/start

• To stop a server instance:

/opt/SUNWwbsvr/https-realsun02.fatwire.com/stop

Installing Apache and IIS Web Servers

For instructions on installing the web server, consult the following sources:

- If you are installing an Apache web server on Linux or Solaris, consult our configuration guide, *Third-Party Software*, for instructions. If you are using an operating system other than Linux or Solaris, refer to the Apache documentation.
- If you are installing IIS on Windows, consult our configuration guide, *Third-Party Software*, for instructions. If you are using a different operating system, refer to the IIS documentation.

Installing Apache and IIS Web Servers

Chapter 9

Configuring the Web Server and JES LoadBalancer Plugin

This chapter provides instructions for configuring the web server and the loadbalancer plugin for use with the web server.

This chapter contains the following sections:

- Configuring the Web Server
- Configuring the LoadBalancer Plugin for the Web Server

Configuring the Web Server

This section provides instructions on the following operations:

- Configuring Sun JES Web Server
- Configuring Apache and IIS Web Servers

Configuring Sun JES Web Server

This section provides instructions for completing the following operations:

- Installing a Valid TA SSL Certificate
- Installing a Self-Signed SSL Certificate

Installing a Valid TA SSL Certificate

Note

This section outlines the steps for installing a valid TA SSL certificate. For more detailed information, refer to Sun documentation.

- **1.** Open the administration console for the Sun JES web server and complete the steps below.
- 2. Create a request:

a. Select the **Security** tab.

🗿 Web Server 6.1 Administration Server - Microsoft Internet Explorer		_ 🗆 🗵
Elle Edit Yiew Favorites Iools Help		
🚱 Back 🔹 🕥 - 🖹 🛃 🏠 🔎 Search 👷 Favorites 🚱 🔗 - 🍃 🖸 + 🛄 🐼 🖄		
Address 🕘 http://realsun02.fatwire.com:8888/https-admserv/bin/index	▼ > ⊙	Links »
Sun ^w ONE Web Server 6.1 Administration Server	Welcom admin	e
Manage Servers Add Server Remove Server Migrate Server Mostname: realsun02.fatwire.com DNS: Off User: Webservd Help		
Done	Internet	

b. Click the **Create Database** button (in the left-hand navigation bar) and enter a password.

🚰 Web Server 6.1 Administration Server - Microsoft Internet Explorer		_ 🗆 🗙
<u>File Edit Vi</u> ew Favorites <u>I</u> ools <u>H</u> elp		
🚱 Back 🔹 🍙 🖌 😰 🏠 🔎 Search 👷 Favorites 🤣 😥 + 🌽 🔯 🔸 💭 🌋 🖓		
Address 🗃 http://realsun02.fatwire.com:8888/https-admserv/bin/index	💌 🏓 Go	Links »
Sun™ONE Web Server 6.1 Administration Server	Welcom admin	e
Servers Preferences Global Settings Users and Groups Security Cluster Mgmt		
Create Database WARNING: You should only do this on your local machine.		
Certificate Database Password:		
Install Password (again): Certificate		
Change Password	p	
Manage Certificates		
VeriSign Certificate		
Install VeriSign Certificate		
CRL/CKL's		
Preferences	🍘 Internet	li.

c. A message appears to let you know whether the database was successfully initialized. Assuming success, click **OK**.

Microsof	t Internet Explorer X
⚠	Success! Trust database has been successfuly initialized.
	ОК

d. Create a request by clicking on the button **Request a Certificate**. Fill out the form and click **OK**. Save your password in a safe location.

🖉 Web Server 6.1 Administra	tion Server - Microsoft Internet Ex	plorer				X
<u>File Edit View Favorites</u>	Tools Help					
🕞 Back 🔹 💮 👻 📓	Search 😪 Favorites	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- 📃 🕴 🖏			
Address E http://realsun02.fat	wire.com:8888/https-admserv/bin/index				<u>▼</u> ∋ 60	Links »
Sun™ON	IE Web Server 6.1 Administrati	on Server			Welcom admin	ie
Servers V Preference	<u>ces y Global Settings y User</u>	<u>rs and Groups</u> y <u>sec</u>	urity (Cluster Mgh			
<u>Create</u> Database	Request a Server Ce	ertificate				
Request a Certificate	 New certificate Certificate renev 	val				
Install Certificate Change Password Manage	Submit to Certificate CA Email Address CA URL: Select the module to	Authority via: s: tester@test.org	tificate:			
Certificates Request VeriSign	Cryptographic Modul Key Pair File Passwo	e: Internal 💌 rd:				
<u>Certificate</u> Install VeriSign <u>Certificate</u>	Requestor name: Telephone number: Common name:	tester 5161237890 fatwire.com				
<u>Install</u> <u>CRL/CKL's</u>	Email address: Organization:	tester@fatwire.com fatwire				
Manage <u>CRL/CKL's</u>	Organizational Unit:	engineering mineola				
	State or Province:	NY				
	Country:	US				
	Plea	ase double check	everything bef	ore submittir	ng!	
	OK		Reset		Help	
E Global Settings					👔 👔 Internet	

- e. Send the resulting request to your Trusted Authority provider.
- **3.** Once you have received your certificate, click on **Install Certificate**, and fill out the required information. In the password field, enter the password that you created in step d on page 69 and click **OK**.

🚰 Web Server 6.1 Administr	ation Server - Microsoft Internet Explorer			
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites	Iools Help			
🕞 Back 🔹 💮 👻 📩	🕄 🎧 🔎 Search 👷 Favorites 🧐 🔗 • 👌	🎍 🖸 • 🛄 🚷 🖓		
Address E http://realsun02.fa	twire.com:8888/https-admserv/bin/index			💌 🔁 Go 🛛 Links 🎇
Sun™O	NE Web Server 6.1 Administration Server	Security Cluster Momt	1	Welcome admin
			•	
<u>Create</u> Database	Install a Server Certificate			
Request a	Certificate For:			
Certificate	 This Server 			
Install	O Server Certificate Chain			
Certificate	 Trusted Certificate Authority 	(CA)		
<u>Change</u> <u>Password</u>	Select the module to use with th	is certificate:		
Manage	Key Dair File Dassword			
Certificates				
Request				
Certificate	Enter Certificate Name ONLV if	certificate is not for 'Th	his Server'	
Install VeriSign	Certificate Name:	mvServerCert		
Certificate	• Message is in this file:	/u01/test.crt		
Install	 Message text (with headers)):		
CRL/CKL's				
Manage CPL/CKL's				
	OK	Deset	Hele	1
		Hesel		-
	4			
Preferences				Internet //

- 4. Configure the sockets by selecting the **Preferences** tab and doing the following:
 - a. Click the Add Listen Socket button.
 - **1)** Enter a port number (443 is the default for SSL).
 - 2) For "Security," select **Enabled** from the drop-down list.
 - 3) Click OK.

🖉 Server Manager - Microsoft Internet Explorer
Elle Edit View Favorites Icols Help
\bigcirc Back + \bigcirc - \textcircled{k} \textcircled{a} \bigcirc Search \textcircled{c} Favorites \textcircled{a} \textcircled{a} + \textcircled{a} \textcircled{b} + \textcircled{b} \textcircled{b} + \textcircled{b} \textcircled{b} + \textcircled{b}
Address 🖗 http://realsun02.fatwire.com:8888/https-realsun02.fatwire.com/bin/index 🗾 🔁 Go 🛛 Links 🎽
Administration Server > realsun02.fatwire.com Manage Sun*ONE Web Server 6.1 Server Manager Apply
Preferences V Security V Logs V Monitor V Virtual Server Class V Java
<u>On / Off</u> Add Listen Socket
Performance Listen Socket ID: Magnus Editor Socket Gott Socket Edit Listen Sockets Edit Listen Sockets Gott Sockets Bestrict Access Restore Configuration File Cache Configuration Thread Pools
Wirtual Server Class

- **b.** Click the **Edit Listen Sockets** button in the left-hand navigation bar.
 - 1) Select the new socket created in step 4a. Look for the option "Server Certificate Name" in the middle of the page. Ensure that it is pointing to the certificate that was created in step 3 on page 70. If it is not, select the certificate from the list.
 - 2) Click the **On / Off** button.
 - 3) Click the Server Off button.
 - 4) Enter the password for the database created in step 2b on page 68.
 - 5) Click Server On.

🚈 Server Manager - Microsoft Internet Explorer	_ 🗆 ×			
Eile Edit View Favorites Tools Help				
🕝 Back 🔹 💮 🖌 😰 🏠 🔎 Search 🥋 Favorites 🤣 🔗 + چ 🔯 👻 🗍 🛠				
Address a http://realsun02.fatwire.com:8888/https-realsun02.fatwire.com/bin/index	▼ 🛃 Go Links »			
Sum. Administration Server > realsun02.fatwire.com	Class Manager Apply			
Sun™ONE Web Server 6.1 Server Manager				
Preferences (Security Logs (Monitor Virtual Server Class Java				
On / Off Server On / Off				
Performance				
The server is currently off.				
WARNING: You should only do this on your local machi	ne.			
Add Listen Socket The following passwords are required to start the server:				
Edit Listen				
Sockets Module internal :				
MIME Types Server On Server On	Dff			
Restrict	_			
About this server				
<u>Configuration</u>	Help			
Enable/Disable WebDAV				
File Cache Configuration				
Thread Pools				
Virtual Server Class	🔹 🖉 Internet 🏼 🎢			
Installing a Self-Signed SSL Certificate

- 1. Open the admin console for the Sun JES web server and complete the steps below.
- **2.** Select the **Security** tab.

🚰 Web Server 6.1 Administra	tion Server - Microsoft Internet Explorer		_O×
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites	Iools Help		
🕞 Back 🔹 🕥 🗸 💌 🙎	🖞 🏠 🔎 Search 👷 Favorites 🧭 🔗 - چ 🔯 - 🛄 🕉 🦓		
Address Address Address Address Address	wire.com:8888/https-admserv/bin/index	▼ 🗲 💽	Links »
Sun∞ON	IE Web Server 6.1 Administration Server	Welcom admin	e
	Coconct Constoning (Coors and croups Coconct Constoning C		
Manage	Manage Servers		
Add Server	Select a Server: realsun02.fatwire.com 💌 Manage		
Remove Server	Settings		
	Hostname:realsun02.fatwire.com DNS: off User: webservd		
	Help		
, Done		Internet	

🚰 Web Server 6.1 Administr	ation Server - Microsoft Internet Explorer		_ 🗆 🗙
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites	Iools Help		
🕝 Back 🔹 🕥 🖌 💌 🏅	🗄 🏠 🔎 Search 🥁 Favorites 🧭 - 🦕 🔯 - 📃 🐼 🦄		
Address 🖉 http://realsun02.fa	twire.com:8888/https-admserv/bin/index	💌 🏓 Go	Links »
Sun~Ol	NE Web Server 6.1 Administration Server ces V <u>Global Settings</u> V Users and Groups) <mark>Security</mark> V Cluster Mgmt	Welcom admin	e
Create Database Request a Certificate Install Certificate Change Password Manage Certificates Request Verisign Certificate Install Verisign Certificate Install Verisign Certificate Install CRL/CKL's	Initialize Trust Database WARNING: You should only do this on your local machine. Database Password: Password (again): OK Reset]	
Preferences		Internet	1.

a. Click the Create Database button and enter a password.

b. A message appears to let you know that the database was successfully initialized. Click **OK**.

Microsoft	: Internet Explorer 🛛 🗙
⚠	Success! Trust database has been successfuly initialized.
	OK

- **3.** Follow steps a–f below to create a selfsigned pair (Trusted Certificate Authority, CA) and a Certificate that is signed by that root and valid for the server in question:
 - **a.** Set up the environment:

```
export LD_LIBRARY_PATH=/opt/SUNWwbsvr/bin/https/
lib:$LD_LIBRARY_PATH
export PATH=/opt/SUNWwbsvr/bin/https/admin/bin:$PATH
```

b. Change to the following directory: /opt/SUNWwbsvr/alias

c. Create a new CA certificate by responding to the prompts in the "Secure SSH Client" screen.

🔽 2:10.120.16.41 - [realsun02] - F-9	ecure SSH Client			_ 🗆 ×
<u>File E</u> dit <u>V</u> iew <u>W</u> indow <u>H</u> elp				
) 🗛 🛡 🖻 💌 🎭 🥔 🌾			
U Quick Connect C Profiles				
Continue tuning until the	prograga motor is full.			
Concinue cyping uncil che	progress meter is full:			
* * * * * * * * * * * * * * * * * *	********	* * * * * * * * * * * *	*	
Finished. Press enter to	continue:			
Enter Password or Pin for	"NSS Certificate DB":			
Generating key. This may	take a few moments			
	0 - Digital Signature			
	1 - Non-repudiation			
	2 - Key encipherment			
	3 - Data encipherment			
	4 - Key agreement			
	5 - Cert signing key			
	6 - CRL signing Key Other to finish			
	ocher co rinish			
Is this a critical extens	ion [v/n]?			
n				
Is this a CA certificate	[y/n] ?			
y Enter the path length con	straint, enter to skip [<	0 for unlin	mited path]:	
Is this a critical extens	ion [y/n]?			
n				
	U - SSL Client			
	1 - SSL SELVEL 2 _ S/MIME			
	3 - Object Signing			
	4 - Reserved for futuer	use		
	5 - SSL CA			
	6 - S/MIME CA			
	7 - Object Signing CA			
	Other to finish			
5				
1	0 - SSL Client			
1	1 - SSL Server			
1	2 - S/MINE 3 - Object Signing			
1	4 - Reserved for futuer	use		
1	5 - SSL CA			
1	6 - S/MIME CA			
1	7 - Object Signing CA			
1	Other to finish			
9				
Is this a critical extens	ion [y/n]?			
h bash-3.00#				
ï				-
Connected to 10.120.16.41	SSH2 - 3des-cbc - hmac-sha1 - none	80×50	12, 50 00:35	5:28

d. Generate a certificate request:

```
certutil -R -a -s "C=US, ST=NY, CN=realsun02.fatwire.com,
    O=fatwire.com" -o mycertreq.pem -d . -P https-
    realsun02.fatwire.com-realsun02-
```



e. Sign the certificate request:

```
certutil -C -c "FatWireCA" -a -i mycertreq.pem -o
mysignedcertreq.pem -v 12 -d . -P https-
realsun02.fatwire.com-realsun02- -5:
```

🔽 2:10.120.16.41 - [realsun02] - F-5e	ecure SSH Client			-OX
<u> </u>				
i s s s s s s s	👬 🛡 🖲 💌 🌯 🕔 N?			
				_
Continue typing until the	progress meter is full:			
* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	******	***	
Finished Dross onter to				
Enter Password or Pin for	"NSS Certificate DB":			
Concreting here. This were	tolic o for momenta			
Generating key. Inis may	cake a lew moments			
bash-3.00# certutil -C -c	"FatWireCA" -a -i mycertr	eq.pem -	-o ./mysign	edcertreq.p
em -v 12 -dP https-rea	alsun02.fatwire.com-realsu	un025		
	0 - SSL Client			
	1 - SSL Server			
	2 - S/MIME			
	3 - Object Signing			
	4 - Reserved for fucuer (ise		
	S - SSL CA			
	0 - S/MIME CA			
	7 - Object Signing CA			
	Other to finish			
0	o ggi Client			
	1 SGL Carrient			
	1 - SSL Server			
	2 - S/HINE			
	3 - Object Signing			
	4 - Reserved for futurer (e get C)	ise		
	S - SSL CA			
	7 - Object Signing Ch			
	A Collect Signing CA			
9	ooner oo rimbu			
Is this a critical extensi	ion [y/n]?			
n				
Enter Password or Pin for	"NSS Certificate DB":			
bash-3.00#				
I				
Connected to 10.120.16.41	SSH2 - 3des-cbc - hmac-sha1 - none	80x37	12, 37	00:38:05 //,

77

f. Import the newly signed request:

```
certutil -A -a -n "Fatwire" -i ./mysignedcertreq.pem -t \
Pu -d . -P https-realsun02.fatwire.com-realsun02-
```

- 4. Select the **Preferences** tab and do the following:
 - a. Click the button Add Listen Socket.
 - **1)** Enter a port number (443 is the default of SSL).
 - 2) For "Security" select **Enabled** from the drop-down list.
 - 3) Click OK.

🚈 Server Manager - Microsoft Internet Explorer	
Elle Edit View Favorites Iools Help	
🚱 Back 🔹 💮 🖌 😰 🏠 🔎 Search 👷 Favorites 🤪 🔗 👟 嫨 🖸 🔹 📃 🐼 🖓	
Address ahttp://realsun02.fatwire.com:8888/https-realsun02.fatwire.com/bin/index	▼ ∋ Go Links »
	Class Manager Apply
Sun™ONE Web Server 6.1 Server Manager	
Preferences Security Logs Monitor Virtual Server Class Java	
On / Off Add Listen Socket	
Performance	
Tuning Listen Socket ID:	
Magnus Editor IP Address: any	
Add Listen	
Socket Server Name: realsun02.fatwire.com	
Edit Listen	
Sockets Default Virtual Server ID: https://www.com.willing.com.wil	
MIME Types OK Beset	Heln
Restrict	
Access	
Restore	
Configuration	
Enable/Disable WebDAV	
File Cache Configuration	
Wirtual Server Class	🛛 🔹 👘 Internet

- b. Click Edit Listen Sockets in the left-hand navigation bar.
 - 1) Select the new socket created in step 4 on page 71. Look for the option in the middle of the page named "Server Certificate Name." Ensure that it is pointed to the certificate created in step 3 on page 74. If not select it from the list.
 - 2) Click On / Off in the left-hand navigation bar.
 - 3) Click the Server Off button.

4) Enter the password for the database created in step b on page 68 and click Server On.

🖉 Server Manager - Microsoft Internet Explorer	
Eile Edit View Favorites Iools Help	
🕒 Back 🔹 🔊 🗸 😰 🏠 🔎 Search 🦙 Favorites 🤣 🔗 + 😓 🔯 🔹 🛄 😵 🖏	
Address 🗃 http://realsun02.fatwire.com:8888/https-realsun02.fatwire.com/bin/index	▼ ⋺ Go Links »
Administration Server > realsun02.fatwire.com ▼ Manage Sun™ONE Web Server 6.1 Server Manager	Class Manager Apply
Preferences Security Logs Monitor Virtual Server Class Java	
<u>On / Off</u> Server On / Off	
Performance Tuning The server is currently off.	
Magnus Editor WARNING: You should only do this on your local machine	
<u>Socket</u> The following passwords are required to start the server:	
Edit Listen Sockets Module internal	
MIME Types Server On Server Off	1
Access About this server	
Restore Configuration	Help
Enable/Disable WebDAV	
File Cache Configuration	
Thread Pools	
Virtual Server Class	🔹 👔 Internet

Note

The following command for migrating a CA certificate exports the CA certificate to a file named FatWirecacert.pem:

```
certutil -L -d . -P https-realsun02.fatwire.com-realsun02- \
    -n "FatWireCA" -a -o FatWirecacert.pem
```

Configuring Apache and IIS Web Servers

- 1. Before you can use any external web server with the Sun JES application server, you must complete the steps required to create an lb-configuration. For instructions, see "Generating the JES Application Server LoadBalancer Plugin," on page 42.
- **2.** To configure the Apache or IIS web server, refer to the product documentation for configuration instructions.

79

Configuring the LoadBalancer Plugin for the Web Server

This section provides instructions for configuring the plugin that comes with and connects to Sun JES application server. The following configurations are covered:

- Configuring for Sun JES Web Server
- Configuring for Apache 2.X
- Configuring for IIS

Note

If you have not generated the loadbalancer plugin, do so now. For instructions, see "Generating the JES Application Server LoadBalancer Plugin," on page 42.

Configuring for Sun JES Web Server

1. Stop the web server instance you will be editing.

If you are setting up a clustered installation, you should tune the Sun Java System Web Server, by completing steps 2 and 3 below. If you are simply enabling connections to the Sun JES application server, then go directly to step 4.

2. Edit the file /etc/system by adding the following lines to the end of the file:

```
set rlim_fd_cur=65535
set rlim_fd_max=65535
```

3. Tune the TCP stack by running the following commands:

```
/usr/sbin/ndd -set /dev/tcp tcp_time_wait_interval 30000 # for
solaris 9 only.
/usr/sbin/ndd -set /dev/tcp tcp_conn_req_max_q 1024
/usr/sbin/ndd -set /dev/tcp tcp_ip_abort_interval 60000
/usr/sbin/ndd -set /dev/tcp tcp_keepalive_interval 90000
/usr/sbin/ndd -set /dev/tcp tcp_rexmit_interval_initial 3000
/usr/sbin/ndd -set /dev/tcp tcp_rexmit_interval_max 10000
/usr/sbin/ndd -set /dev/tcp tcp_rexmit_interval_min 3000
/usr/sbin/ndd -set /dev/tcp tcp_rexmit_interval_min 3000
/usr/sbin/ndd -set /dev/tcp tcp_smallest_anon_port 1024
/usr/sbin/ndd -set /dev/tcp tcp_slow_start_initial 2
/usr/sbin/ndd -set /dev/tcp tcp_slow_start_initial 2
/usr/sbin/ndd -set /dev/tcp tcp_recv_hiwat 32768 # for
solaris 9 only.
```

Note

All files in the remaining steps are stored in the following location: /opt/SUNWwbsvr/https-your_server_name/config

- 4. Edit magnus.conf as follows for the instance on which you wish to install Content Server:
 - a. Depending on load, change RqThrottle 128 to: RqThrottle 256 to 1024
 - **b.** Look for the line:

```
Init fn="load-modules" shlib="/opt/SUNWwbsvr/bin/https/lib/
libj2eeplugin.so" shlib_flags="(global|now)"
```

c. After the line above, add the following two lines:

```
Init fn="load-modules" shlib="/opt/SUNWwbsvr/plugins/
passthrough/bin/libpassthrough.so" funcs="init-
passthrough,auth-passthrough,check-passthrough,service-
passthrough" NativeThread="no"
```

Init fn="init-passthrough"

- **5.** Edit obj.config as follows:
 - **a.** Comment out the following lines:

```
#PathCheck fn=unix-uri-clean
#PathCheck fn="check-acl" acl="default"
#PathCheck fn=find-pathinfo
#PathCheck fn=find-index index-names="index.html, home.html"
```

Note

The file lbconfig.xml is the file created on the application server and copied to every web server.

- **b.** Add lines to obj.conf as follows:
 - At the end of the section <Object name=default>, but before </object> add:

```
NameTrans fn="name-trans-passthrough" name="lbplugin"
config-file="/opt/SUNWwbsvr/https-
realsun02.fatwire.com/config/lbconfig.xml"
```

2) At the end of the file, add:

```
<Object name="lbplugin">
ObjectType fn="force-type" type="magnus-internal/
lbplugin"
PathCheck fn="deny-existence" path="*/WEB-INF/*"
Service type="magnus-internal/lbplugin" fn="service-
passthrough"
Error reason="Bad Gateway" fn="send-error" uri="$docroot/
badgateway.html"
</Object>
```

6. Edit lbconfig.xml by changing the response-timeout-in-seconds from 60 to 300 in the line below:

<property name="response-timeout-in-seconds" value="60"/>

Configuring the LoadBalancer Plugin for the Web Server

The result reads as follows:

<property name="response-timeout-in-seconds" value="300"/>

- 7. Make a directory plugins/lbplugin/resource/ under this instance and copy both the.res files from /opt/SUNWwbsvr/plugins/passthrough/bin into this directory.
- 8. Start the affected web server instance.

Configuring for Apache 2.X

A. Configuration Requirements

- Linux installations: In order to use the Sun plugin with a Linux server, you must have a copy of the Sun Java Application Server installed before configuring Apache. See the *High Availability Administration Guide* for the complete set of steps that are needed to install Apache as a front-end web server for Sun Java Application Server on Linux.
- Solaris installations: See the *High Availability Administration Guide* for the complete set of steps that are needed to install Apache as a front-end web server for Sun Java Application Server on Solaris.
- lbconfig.xml refers to the file that was copied from the application server. Place lbconfig.xml in your <apache install>/conf directory.
- Copy from the application server to this server all the .db files that are associated with the domain you will be connecting to, and place the files into: <apache install>/sec_db_files
- Obtain the file mod_loadbalancer.so located in /opt/SUNWappserver/ appserver/lib/webserver-plugin/<platform>/apache2/ for your given platform. Copy the file into the <apache install> /libexec directory.

B. Configuration Steps

1. Edit the httpd.conf file by adding the following lines:

```
LoadModule apachelbplugin_module libexec/mod_loadbalancer.so
#AddModule mod_apachelbplugin.cpp
<IfModule mod_apachelbplugin.cpp>
config-file <apache install>/conf/lbconfig.xml
locale en
</IfModule>
```

2. If Apache is located on Solaris, add the following line before the block of lines in step 1 above:

LoadFile /usr/lib/libCstd.so.1

- 3. Under <apache install>, create a new directory named: sec_db_files
- 4. Copy all the files from the directory /var/opt/domains/domain1/config/*.db on the application server to <apache install>/sec_db_files.
- 5. Modify the apachectl file located in <apache install>/bin by adding the following to the beginning of the LIB_PATH statement:

Linux: /opt/sun/private/lib

Solaris: /usr/lib/mps/secv1

6. Stop and restart Apache.

Configuring for IIS

Note

In order to use the Sun plugin with IIS, you must install a copy of the Sun JES application server locally.

- 1. Copy the file lbconfig.xml to the local machine and place it in: wwroot\sun-passthrough
- 2. Locate the file sun-passthrough.dll in the Sun JES application server. Install and copy the file to a directory under: wwroot\sun-passthrough
- 3. Open the ISAPI Filters tab and add a new filter:

name: lbpassthrough

executable: location of the file copied in step 1

4. Right-click on the website which will forward your request to Sun JES application server and select **New > Virtual Directory**.

Alias: sun-passthrough

Path: wwwroot\sun-passthrough

Permissions: execute only

- 5. Add the location of the Sun JES application server install/bin directory to the system path.
- 6. Stop the web server instance that was edited.
- 7. Restart the server.
- 8. Start the web server instance that was edited.
- **9.** Edit the file sun-passthrough.properties in wwwroot\sun-passthrough by modifying the property lb-config-file to point to the lbconfig.xml file that was copied in step 1.
- **10.** Restart the web server.

Part 4 Content Server

This part shows you how to proceed through the installation of Content Server. It contains the following chapters:

- Chapter 10, "Installing the Content Server Web Application and Portal"
- Chapter 11, "Completing the Content Server Installation"

Chapter 10

Installing the Content Server Web Application and Portal

Content Server can be installed on any instance, but certain requirements must be met prior to the installation. This chapter covers the pre-installation requirements and provides instructions for installing Content Server as a web application and a portal.

This chapter contains the following sections:

- Pre-Installation Steps
- Installing Content Server

Pre-Installation Steps

Before installing Content Server, make sure the following steps have been completed:

- 1. A license file named FWLicense.xml was obtained from FatWire. This file needs to include the server and ports from which Content Server will be accessed.
- 2. A data source has been created and tested. Confirm the following:
 - You have modified the classpath of the instance onto which you plan to install Content Server to include any necessary jars for the data source to work
 - You have added the jars to the domain.
- 3. The directory where Content Server is be installed has been created and has the correct permissions to allow the application server to write to it. The directory is <SUNWappserver j2ee-app root>/<application name>/cs_war/. This is the directory you will point to in step 17 on page 105.
- **4.** If this is to be a clustered installation, ensure that you have created a shared file system that all cluster members can access and write to.
- **5.** Since Content Server installations are graphical, a monitor capable of displaying the GUI is required.
- 6. Ensure that you are using the correct version of Java.
- 7. The CS installer requires the cs and lib folders. You must create the folders manually in the following path: /var/opt/SUNWps/tmp/deploy/web-apps/ https-<server name>/cs/lib

Installing Content Server

1. From the command line in the exploded CS installation directory, run the following command:

sh ./CombinedInstall.sh



2. On the welcome screen, leave the default option **Install Fatwire Products** selected and click **Next**.



3. Enter or browse to the directory where you will be installing Content Server and click **Next**.

XInstallation Directory	<u>_ </u>
Installation Directory	
Select the directory for Content Server installation:	
/u01/CS/suneone/091605_cs6321_Sx86	
Choose	
Exit	Next

4. Browse to where the FWLicense.xml file you received from FatWire is located and click Next.



5. Read and ensure that you fully understand the license agreement, then select the radio button **I Accept** and click **Next**.

License Agreement		_ [
Please read the license		
FATWIRE SOFTWARE LICENSE AGREEMENT		
Content Server		
IMPORTANT: PLEASE READ THE TERMS AND THIS LICENSE AGREEMENT CAREFULLY BEFO FATWIRE CORPORATION AND/OR ITS SUBSIN (COLLECTIVELY ##FATWIRE##) IS WILLING TO YOU AS THE INDIVIDUAL, THE COMPANY ENTITY THAT WILL BE UTILIZING THE SO BELOW AS ##YOU## OR ##YOUR##) ONLY ON ACCEPT ALL OF THE TERMS OF THIS LICEN THIS IS A LEGAL AND ENFORCEABLE CONTU FATWIRE. BY CLICKING THE ##ACCEPT## O	CONDITIONS OF DRE USING THE SOFTWARE. DIARIES TO LICENSE THE SOFTWARE Y, OR THE LEGAL FTWARE (REFERENCED THE CONDITION THAT YOU NSE AGREEMENT. RACT BETWEEN YOU AND DR #YYES# BUTTON OR LOAD	E
I ACCEPT		
Exit	Previous	ext

6. Select the products you wish to install and click Next.

Select Products		<u>_ ×</u>
Select Products to install		
Select the product(s) that you want to install: ContentServer v6.2.1 Content Server Applications v6.2.1		
Exit	Previous	Next

93

7. Select the installation type as follows:

If this is a standalone installation or your primary (first) cluster member to be installed, select **Single Server**. Otherwise, select **Cluster Member**.

XInstallation Type		_ 🗆 🗙
Installation Type		
Select install option:		
Single Server		
Exit	Previous	Next

8. In the "Installation Options" screen, leave the default options selected. Click Next.

VIPS Install Options		
Installation Options		
Choose the options you wish to install:		
Portal Example		
Deploy Debug Servlet (not recommended for production sys	tems)	
Do you want to display the property editor: (Property Editor is used to configure Content Server properties li	ike debug)	
⊖Yes		
(€ No		
Exit	ous	Next

9. Enter your password for Content Server. Write it down in a safe place, as it will be needed for future upgrades. Click **Next**.

Content Server Configuration		>
Content Server Configuration	on	
Username to be used for Content Server adminis	stration:	
ContentServer		
Password to be used for the Content Server adm	inistrator.	
Default password is 'password':		

(Must be at least 8 characters)		
Verify the password entered:		
*****		1
(Must be at least 8 characters)]
Exit	Previous	Next
	11011040	110/11

10. Enter your password for Satellite Server. Write it down in a safe place, as it will be needed for future upgrades. Click **Next**.

Satellite Server Configuration	<u>_0×</u>
Satellite Server Configuration	
Licorporte to be used for Satellite Server administration:	
SatelliteServer	
Password to be used for the Satellite Server administrator.	
Default password is 'password':	

(Must be at least 8 characters)	
Verify the password entered:	

(Must be at least 8 characters)	
Exit	Next

11. Enter or browse to the location of your shared file system,. If this will not be a clustered environment, then the default directory will work.

🔀 Shared Folder Root		
Shared Folder Root		
Dethughers groups to be used up to added a to be in stalle	al.	
Path where you want shared upload tolders to be installe	a:	
u01/CS/suneone/091605_cs6321_Sx86/Shared		
	Choose	
Exit	Previous	Next

12. Enter the host name and IP address for your application server in the correct fields. Note that these values must exist in the FWLicense.xml file for the installation to complete successfully. Click **Next**.



13. Select the appropriate platform type and click **Next**.

Content Server Platform Type	-D×
Platform Type	
Select if you are using Application Server or Portal Server:	
Portal Server Platform	
Exit	Next

14. In the "Application Server" screen, select your application server from the pull-down menu. In this guide, your options are **Sun App Server 7.0** and **Sun App Server 8.1**.

Select Server for Installation		-O×
Application Server		
Select the Application Server you are using:		
Exit	Previous	Next

14. If you are creating a portal installation, you will see the "Portal Server" screen (otherwise, continue with the next step). Select your portal server (either JES2 Sun Application Server or JES3 Sun Application Server). Click Next.

Select Server for Installation		<u>_ ×</u>
Portal Server		
Select the Portal Server you are using: JES3: Sun Portal on Sun Applicati 🛛 🗸		
Exit	Previous	Next

- **a.** Enter (or choose) the path to your SAS root (which is the directory under which all SAS domains are created). The path field should be correctly pre-populated, unless you changed the directory when installing SAS.
- **b.** For "WebApplication URI," enter the context root for your installation. Because of how SAS assigns context roots, the context root must be the name of your application (which you will enter later in step 17 on page 105). For a portal installation, make sure the context root is /cs.

Sun Installation Directory Dialog		_O×
SAS Root Directory		
Path to your SAS root directory:		
/var/opt/SUNWappserver		
	Choose	
WebApplication URI:		
lcs		
Exit	Previous	Next

FatWire

- **16.** In the "Database Configuration" screen, do the following:
 - a. Select your database type from the drop-down list.
 - **b.** Enter the name of your data source (created previously; omit the leading jdbc/).
 - **c.** If you are installing a portal, or you have integrated LDAP into your SAS server during installation, select **Yes** for CS-LDAP integration. Otherwise select **No** and click **Next**.

Note

If you are installing a portal, do not bypass the LDAP integration option. A Content Server portal application, once installed, cannot be manually integrated with LDAP. It must be reinstalled with CS-LDAP integration enabled.

Configuration	
Database Configuration	
Select the Database you are using:	
Enter JNDI Data Source Name: (Name given when you regis:	tered the datasource)
csDataSourceOracle]	
Do you wish to perform CS-LDAP Integration?	
() Yes	
⊖No	
Exit	evious

17. In the "SAS8 Configuration" screen, do the following:

- **a.** Enter your domain name (normally this is domain1 unless you changed it during the installation).
- **b.** Enter the name of the server instance onto which to install Content Server. This name is normally server by default. However, if you created a new instance, enter the new instance name here.
- **c.** Application name. Currently, the name cs must always be used with the portal server.
- **d.** Enter the path to which your application will be deployed.

SAS8 Configuration	_O×
SAS8 Configuration	
Enter the domain name where this application is going to be deployed:	
Enter the server name where this application is going to be deployed:	
csPortal	
Enter the Application Name you will use when deploying:	
Path to your JES deployment root directory:	
var/opt/SUNWappserver/nodeagents/realsun03/csPortal/applications/j2	
Choose	
Exit	Next

18. If you selected LDAP integration, you are now prompted to enter its base DN. The field should be correctly pre-populated if you are using local LDAP. If your LDAP is remote, enter the correct base DN.

LDAP Integration		_O×
LDAP Integration		
Enter LDAP Base DN: eg. dc=fatwire,dc=com		
dc=fatwire,dc=com		
Exit	Previous	Next

19. Select the options to install according to your installation requirements and click **Next**.



107

- Select **Content Management** if you are installing Content Server on either a development or management (staging) system *and* you wish to install sample sites and their assets on the system. (By selecting **Content Management**, you allow sample sites and assets to be installed later in the installation process.) Continue as follows:
 - 1) Click Next.
 - 2) Enter (or select) the options on the next few screens (not covered in this guide) until you arrive at the "Content Server Applications Install" screen, then continue with step 24 on page 112.
- Do not select **Content Management** if you are installing Content Server on a delivery (production) system, or any system where sample sites and assets are unnecessary. (By deselecting **Content Management**, you prevent sample sites and assets from being installed.) Click **Next**.

Configuration Options	_ 🗆 🗵
Installation Mode	
Pick 'Content Management' to include sample sites. Do NOT pick 'Content Management' for production-system installation.	
Content Management	
Exit	Next
21. For portal server only: Select **Spark Sample Portlets** if you need a sample portlet implementation. Click **Next**.



22. In the "Transact Connectivity Installation Options" screen, keep the default value (2) and click **Next**.

Transact Connectivity Installation Options		_ 🗆 🗵
Number of stores for Transact:		
2		
Exit	Previous	Next

23. Do not select any property editors unless required for your environment. Click **Next**.

Configuration Options		_ 🗆 🗙
Property Editors		
Select the property editors that you want to display:		
CS-Direct		
CS-Direct Advantage/CS-Engage		
Analytics Bridge		
Commons-Logging		
Exit	Previous	Next

24. Click Install.

χ Fa	★FatWire Corporation Install								
	Cli	ick the	Conte	nt Server	Applica	tions	install		
[Sep [Sep	16, 16,	2005 2005	10:36:10 10:36:16	AM][CS.INSTA AM][CS.INSTA	LL][INFO] LL][INFO]	CSSetup CSSetup	o.displayDi o.displayDi	.alogs() .alogs()	: Product : Product
<u> </u>	Ē	Exit	J			Prev	ious	inst	aii

25. Complete the steps that are listed in the pop-up dialog box. **Do not click OK.** Instead, complete the steps that are given below the figure.



Note

ear files are deployed to the folder j2ee-apps under /var/opt/ SUNWappserver/domains/domain1/applications/, while war files are deployed to j2ee-modules under /var/opt/SUNWappserver/ domains/domain1/applications/

Depending on your installation type (web application or portal) make the necessary changes to the paths in the steps below.

a. For all web installations, deploy the application ContentServer.ear. If you need instructions, see "Deploying a Web Application," on page 38.

For portal installations, deploy the application cs.war. If you need instructions, see "Deploying a Portal Application," on page 39.

- **b.** Edit the server.policy file (in /var/opt/SUNWappserver/domains/ domain1/config/) as shown below:
 - 1) Add the following section to your server.policy file:

```
grant codeBase "file:/var/opt/SUNWappserver/domains/
    domain1/applications/j2ee-apps/ContentServer/cs_war/
    WEB-INF/lib/-" {
    permission java.security.AllPermission;
    };
```

114

2) Add the following lines:

permission	java.lang.RuntimePermission	"loadLibrary.*";
permission	java.lang.RuntimePermission	"queuePrintJob";
permission	java.lang.RuntimePermission	"createClassLoader";
permission	java.net.SocketPermission	"*", "connect";
permission	java.io.FilePermission	"< <all files="">>",</all>
"read,wr	rite,delete,execute";	

- **c.** If using node agents, apply the changes in step b on page 113 to <node agent name>/agent/config/server.policy.
- **d.** In the SAS administration interface, select **Configurations** > *Server Instance Name* > **HTTP Service**, click the **Keep Alive** tab and change the timeout from 30 to 1.



- e. Restart the domain (see starting a domain). Restart all affected server instances.
- f. Test that HelloCS and pingDB work:

http://10.120.16.42:38080/cs/HelloCS



http://10.120.16.42:38080/cs/CatalogManager?ftcmd=pingdb



- **26.** Click **OK** to continue with the installation.
- **27.** Copy the file libFtFleLock.so from <cs install directory>/bin/ <platform type> to /opt/SUNWappserver/application/lib.
- **28.** Restart the domain.
- **29.** Configure the Content Server installation. For instructions, follow the steps in Chapter 11, "Completing the Content Server Installation."

Installing Content Server

Chapter 11

Completing the Content Server Installation

This chapter provides post-installation instructions showing you how to test and configure your Content Server web application and portal.

This chapter contains the following sections:

- Step I. Test the Administrative Interface
- Step II. Configure the Portal Interface (Portal Installations Only)
- Step III. Integrate with LDAP (Optional. Web Installations Only)
- Step IV. Install Verity Search Engine (Optional)
- Step V. Set Up Content Server for Its Business Purpose (All Installations)

Step I. Test the Administrative Interface

In this section, you will log in to your installation in order to verify that it functions.

To test the administrative interface

- If you installed Content Server as a web application, complete the following steps. (for portal installations, skip to step 1 on page 120):
 - 1. Open a browser window and connect to the following URL:

http://10.120.16.42:38080/cs/Xcelerate/LoginPage.html

2. Log in with username fwadmin and password xceladmin.

Content Se	rver
Login Name:	admin
Password:	*****
	Login Reset
Installed Modules:	
Content Server 6.1 CS-Direct 6.1 CS-Direct Advantage 6.1 CS-Engage 6.1 Analysis Connector 6.1 Commerce Connector 6.1	FatWire s o f t w A R E

Content Server's console is displayed and Content Server is now ready for further configuration. Follow the steps in the rest of this chapter, starting with "Step III. Integrate with LDAP (Optional. Web Installations Only)," on page 134.



- If you installed a Content Server portal:
 - **1.** Open a browser window and connect to the following URL to confirm that you can access the portal:

http://10.120.16.42:38080/portal/dt

2. Log in with username fwadmin and password xceladmin.

The "Sun Java System Portal Server" is displayed and the Content Server portal is now ready for further configuration. Follow the steps in the rest of this chapter.

Sun JavaTM System Portal Server 6 2004Q2 - M	🚰 Sun JavaTM System Portal Server 6 2004Q2 - Microsoft Internet Explorer								
Eile Edit View Favorites Iools Help									
		Ø - 🕲 🕲 - 🖸 🚫 -	4			tinter »			
Agdress Address Addres	d_dress @_http://sun09as1.fatwire.com:8080/portal/dt								
Sun Java~ System I 6 2004Q2	Portal Server	Home	= Help		Search	- 1			
My Front Page Samples Search Co	ollaboration Portle	Samples Spark Admin	CS Content CS	S Documents	Spark Ads Spark	Displ			
Login ?	Sample JSP Chan	nel				?			
Member Login	An Introduction of	the JSP provider							
Local Login user ID password	The JSPProvide Pages. This char attributes, click th	r content provider can be nnel is an example of what ne channel Edit button.	used to create de t is possible using	esktop channe g JSPs. To ch	els using <u>JavaServer</u> nange the session	ſ			
· · · · ·	JSP:	samplecontent.j	sp						
Login	JSP Real Path:	JSP Real Path: /etc/opt/SUNWps/desktop/s							
	Request Parame	eters: None							
New User? Sign me up	Session Attribut	es: None							
Trouble signing in? Get Help	Selected User A	ttributes: First Name (giv Last Name (sn)	enname) = null = default						
Sun Information]		~			
News and information about Sun	XML Test Channel					?			
Browse Sun JavaTM Systems	company22.co	n			NASDAQ, 15:4	17			
The latest word from Sun Software	Last	16.240000	Oper	า	16	.8			
<u>The latest word from Sun</u>	Change	-0.85	Prev	ious Close	17.09000	00			
Microsystems	% Change	-4.97%	Bid		16.2	24			
My Bookmarks	Volume	26786000	Ask		16.2	25			
	Day's High	16.99	52 W	/eek High	64.656	52			
Enter URL Below:	Day's Low	16.05	52 W	/eek Low	12.8	35			
Sup home page									
Som nome page						▼ ►			
E Done					💓 Internet				

Step II. Configure the Portal Interface (Portal Installations Only)

In the following steps, you will create portlet channels, select the portlets you wish to display, and create the container channels on which to display the portlets.

Note

In this guide, "container channel" is also called "display page."

To configure the portal interface

1. Log in to the amconsole interface: http://10.120.16.42:8080/amconsole

🗿 Sun Java System Access Manager (Login) - Microsoft Internet Explorer	<u> </u>
<u>File Edit View Favorites Tools H</u> elp	R
\bigcirc Back \bullet \bigcirc \star $\textcircled{2}$ \bigcirc Search \bigcirc Favorites $\textcircled{2}$ $\textcircled{2}$ $\textcircled{2}$ $\textcircled{3}$ $\textcircled{3}$ Search \bigcirc Favorites $\textcircled{2}$ $\textcircled{3}$ $\textcircled{3}$ \bigstar $\textcircled{3}$	
Agdress 🙋 http://sun09as1.fatwire.com:8080/amserver/UI/Login?service=adminconsoleservice&org=dc%3Dfatwire%2Cdc%3Dcom&goto=%2Famconsole%2Fbase%2FAMAdminFrame&gx_charset=UT 🔽 🛃 Go	Links »
	<u> </u>
Sun Java~ System Access Manager	
This server uses LDAP Authentication	
User Name:	
Password:	
Log In	
Copyright © 2004 Sun Microsystems, Inc. All rights reserved. Sun Microsystems, Inc. has intellectual property rights relating to technology embodied in the product that is described in this document. In particular, and without limitation, these intellectual property rights may include one or more of the U.S. patents listed at http://www.sun.com/patents and one or more additional patents or pending patent applications in the U.S. and in other countries. U.S. Government Rights - Commercial software. Government users are subject to the Sun Microsystems, Inc. standard license agreement and applicable provisions of the FAR and its supplements. Use is subject incense terms. This distribution may include materials developed by third parties. Sun, Sun Microsystems, the Sun logo, Java and Sun[tm] ONE are trademarks or registered trademarks of Sun Microsystems, Inc. in the U.S. and other countries.	:t to
Copyright © 2004 Sun Microsystems, Inc. Tous droits réservés. Sun Microsystems, Inc. détient les droits de propriété intellectuels relatifs à la technologie incorporée dans le produit qui est décrit dans ce document. En particulier, et ce sans limitation, ces droits de propriété intellectuelle peuvent inclure un ou plus des brevets américains listés à l'adresse http://www.sun.com/patents et un ou les brevets supplémentaires ou les applications de brevet en attente aux Etats - Unis et dans les autres pays. L'utilisation est soumise aux termes du contrat de licence. Cette distribution peut comprendre des composants développés par des tierces parties. Sun, Sun Microsystems, le logo Sun, Ja et Sun[tm] ONE sont des marques de fabrique ou des marques déposées de Sun Microsystems, Inc. aux Etats-Unis et dans d'autres pays.	/a
	Ŧ
Done	11.

121

- 2. Click the Identity Management tab.
- 3. From the "View" drop-down list in the left-hand panel, select Services.

🖆 Sun Java System Access Manager - Microsoft Internet Explorer						
Eile Edit View Favorites Iools Help			R.			
🕒 Back 🔹 🕑 🖌 📩 💋 🎧 🖉 Search 🎡	Favorites 🧭 🔗 🎍 🖸	- 🔜 🐼 🖓				
Address Addres	e/AMAdminFrame?&amconsoleRedirect=1	&HUZiGJ05QXtIGNcT8dVgZQFHL2L6PVWRnFblVWjbf05	6IxWZ2xGiONcpCf 🔽 🛃 Go 🛛 Links 🎇			
		Si	earch Logout Help			
Sun Java* System Access Manag	ler		weicome			
Identity Management Service Cor	nfiguration Current Se	ssions Federation Manageme	nt			
fatwire	fatwire					
View: Organizations	View: General	<u> </u>	Save Reset			
	General Propertie	es				
Organizations (0 items)	Domain Name:					
New Delete * Search						
Name	Organization Status	Active 💌				
I here are no entries.						
	Aliases:	sunu9as1.tatwire.com				
		Add Domouo				
		Aud Remove				
	DNS Alias					
	indifies.					
		Add Remove				
e vone			Internet			

4. Click on the arrow next to Portal Desktop

🚰 Sun Java System Access Manager - Microsoft Interne	et Exp	lorer	_ 🗆 🗴				
File Edit View Favorites Iools Help							
🕞 Back 🔹 💮 👻 😰 🏠 🔎 Search ☆	🕞 Back + 🛞 - 🖹 😰 🏠 🔎 Search 👷 Favorites 🤣 🔗 + 🍃 🔯 + 🦷 🛠 %						
Address 🔊 m:8080/amconsole/base/AMAdminFrame?&amconso	leRedi	irect=1&HUZiGJ05QXtIGNcT8dVgZQFHL2L6	PYWRnFblVWjbf056IxWZ2xGiONcpCfP8c9VZJ1PvbIg0qN7v7318 🗾 💽 Go 🛛 Links 🏾				
			Search Logout Help				
👁 Sun			Welcome				
Sun Java [™] System Access Manag	jer		amAdmin				
Identity Management Coursign Con	ficu	wation Current Cossion	Endountion Management				
Identity Management Service Con	myu	uration Current Session					
Authentication		Portal Desktop					
Configuration '	_						
	_		Save Reset Delete				
	_	Dynamic					
	_	Conflict Resolution					
	_	Level:	Highest 💌				
	-	Default Channel	WirelessDesktopDispatcher				
Oser Mahila Application Configuration	-	Name:					
Mobile Address Bask	-11	Default Edit	JSPEditContainer				
	-11	Channel Name:					
	-11	Portal Desktop	sampleportal				
	-11	l iype:					
	- 11		Manage Channels and Containers				
	- 11	Display Profile:					
Portal Desktop /	- 11		Upload XML from File Download XML to File				
	-11	Show Portal					
	-11	Desktop Service					
			Save Reset Delete				
é			Internet				

123

5. Click on the link **Manage Channels and Containers** in the middle of the right-hand column.

🚰 Sun Java System Access Manager - Microsoft Interr	net Exp	lorer				
Elle Edit View Favorites Iools Help						
🕞 Back 🔹 🕗 👻 😰 🏠 🔎 Search 🔮	Favo	rites 🚱 🔗 • 嫨 🖸 • 📃	8 3			
Address am:8080/amconsole/base/AMAdminFrame?&amcon	soleRed	irect=1&HUZiGJ05QXtIGNcT8dVgZQFHL2L6	PVWRnFblVWjbf056IxWZ2xGiONcpCfP8c9VZJ1PvbIg0qN7v7318 🗾 🔁 Go 🛛 Links 🌺			
			Search Logout Help			
🐟 Sun			Welcome			
Sun Java System Access Mana	iger		amAdmin			
Identity Management Coursian Co	nficu	wation Current Section	Endoration Management			
Identity Management Service Co	my					
Authentication		Portal Desktop				
Configuration	P					
			Save Reset Delete			
		Dynamic				
		Conflict Resolution				
Membership Membership		Level:	Highest 💌			
□ Policy Configuration ▶		Default Channel	WirelessDesktonDispatcher			
	_	Name:	Wirelessbesktupbispateriei			
Mobile Application Configuration	-11	Default Edit	JSPEditContainer			
☐ Mobile Address Book ▶	-11	Channel Name:				
☐ Mobile Calendar ▶	-11	Portal Desktop	sampleportal			
	-11	Type:				
Portal Server Configuration	-11		Manage Channels and Containers			
	-11	Display Profile:	Edit XML Directly			
□ Portal Desktop ▷	-11		Upload XML from File Download XML to File			
Remote Portlets (WSRP)	-11	Show Portal				
	-11	Desktop Service				
□ WSRP Producers ▷	-11					
SSU Adapter D	-11		Save Reset Delete			
	-11					
SRA Configuration	-11					
Access List						
□ NetFile ►						
□ Proxylet ▶	_					
			internet			

- 6. Create a portlet channel as follows:
 - **a.** In the right-hand column, click **New Portlet Channel** (about half-way down the column).

Sun Java System Access Manager - Microsoft Internet Ex	olorer				
Eile Edit View Favorites Tools Help		Av			
🌀 Back 🔹 💮 🖌 😰 🕼 🎾 Search 🦿 Favo	rites 🚱 🔗 • 嫨 🖸 • 🛄 🐼 🖓				
ddress 🗃 m:8080/amconsole/base/AMAdminFrame?&amconsoleRed	lirect=1&HUZiGJ05QXtIGNcT8dVgZQFHL2L6PVWRnFblVWjbf056IxWZ2xG	iONcpCfP8c9VZJ1PvbIg0qN7v7318 🗾 🕤 Go 🛛 Links 🦻			
		Search Logout Help			
Sum		Welcome			
Sun Java [™] System Access Manager		amAdmin			
Identity Management Service Config	uration [Current Sessions Federation Ma	anagement			
Authoptication	L LemplateNativeContainer	IEdit Properties			
	TemplateTabContainer	[Edit Properties]			
Authentication Modules	TemplateTabContainer	[Edit Properties]			
Core 🕨		[Edit Properties]			
□LDAP ▶		[Edit Properties]			
□ Membership ▶	In <u>rooisrempiatePaneicontainer</u> F. Malas 2000 parktas Castala as	[Ealth Properties]			
Policy Configuration		[Ealt Properties]			
	WirelessDesktopDispatcher	[Edit Properties]			
Mobile Application Configuration	Channels				
Mobile Address Book	New Delete New Remote (WSRP)	Channel			
	Name	Action			
		[Edit Properties]			
Portal Server Configuration		[Edit Properties]			
□ NetMail ►		[Edit Properties]			
□ Portal Desktop ▷		[Edit Properties]			
Remote Portlets (WSRP)	DiscussionLite	[Edit Properties]			
🗖 WSRP Consumer 🕨	Discussions	[Edit Properties]			
□ WSRP Producers ▶	🗆 IMChannel	[Edit Properties]			
🗖 SSO Adapter 🕨	JSPPortlet	[Edit Properties]			
□ Subscriptions ▶	🗖 Login	[Edit Properties]			
SRA Configuration	LotusNotesAddressBook	[Edit Properties]			
□ Access List ▶	L LotusNotesCalendar	[Edit Properties]			
 ⊓ NetFile ▶	LotusiNotesMall	[Edit Properties]			
□ Netlet ▶		[Edit Properties]			
		[Edit Properties]			
javascript:hrefSubmit('BrowseContainer', 'BrowseContainer.Externa	IModulesTiledView[1].ModuleButton=', false)	Martin Ma			

- **7.** Configure the portlet channel:
 - **a.** Enter a channel name, for example, FW_ <portlet name>, where <portlet name> is one of the names in the table below the figure:

🚰 Sun Java System Access Manager - Microsoft Internet Explorer		_ 🗆 ×
<u>Eile E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>H</u> elp		At a
🕞 Back 🔹 💮 👻 😰 🏠 🔎 Search ☆ Favorites	🔗 🔗 · 🍃 🖸 • 🗔 🚷 🖓	
Address 🔊 http://sun09as1.fatwire.com:8080/amconsole/base/AMAdminFra	me	▼ ⋺ Go Links »
		Search Logout Help
♠Sun		Welcome
Sun Java [~] System Access Manager		amAdmin
Identity Management Coursies Configured	ion Current Cossions Foderation Management	
Identity Management Service Configurat	on Current Sessions Federation Management	
Name	Portal Desktop - New Channel	
Access Manager Configuration	Container Path: Top	
□ Administration ▶		
□ Authentication Configuration ▶		
Authentication Modules	Channel Name:* [Fw_ClearAssignments Channel name may contain only lette	rs $(a-7, A-7)$ and digits $(0-9)$
Core 🕨		
LDAP 🕨	PORSET: Cs.ClearAssignments	
□ Membership 🕨		
□ Policy Configuration ▶	* Indicates a required field	OK Cancel
🗆 User 🕨		
Mobile Application Configuration		
🗖 Mobile Address Book 🕨		
🗖 Mobile Calendar 🕨		
🗖 Mobile Mail 🕨		
Portal Server Configuration		
🗖 NetMail 🕨		
🗆 Portal Desktop 🕨		
Remote Portlets (WSRP)		
□ WSRP Consumer ▶		
□ WSRP Producers ▶		
□ SSO Adapter ▶		
□ Subscriptions ▶		
SRA Configuration		
Access List 🕨		
kii=i k		

	Sample Portlet Names			
Active Content	ClearCheckouts	Document Assignments	RolesAdmin	SparkAd
Active Documents	Content Assignments	Document History	Search Content	SparkDocuments
Checked Out Content	Content History	My Documents	Search Documents	SparkJobs
Checked Out Documents	ContentDefinition	Publish Console	Site Info	SparkNews
ClearAssignments	Create Content	PublishTarget		

- **b.** Select a portlet for the channel and click **OK**.
- **8.** Repeat steps 6 and 7 for every portlet that you installed during the Content Server installation process. When you complete the steps, your screen will look similar to the following:

🗿 Sun Java System Access Manager - Microsoft Internet Explorer		7	<u> </u>	
Eile Edit View Favorites Iools Help				
🕒 Back 🔹 🕥 🚽 😰 🏠 🔎 Search 👷 Favorites 🤜	🕑 🔗 - 🍃 🖸 - 🗔 🐼 🖓			
Address 😹 http://sun09as1.fatwire.com:8080/amconsole/base/AMAdminFra	me		💌 🄁 Go 🛛 Links »	
		Search Lo	ogout Help	
Sum		Wel	come	
Sun Java~ System Access Manager		amA	<u>dmin</u>	
Identity Management Service Configurat	ion Current Sessions Federation Man	agement		
Nama	New Helete New Pemote (MS	PD1 Channel I New Dortlet Char	nnel	
	Belete Hew Kelhote (445			
	Name	Action		
	□ AddressBook	[Edit Properties]		
Authentication Configuration	□ App	[Edit Properties]		
Authentication Modules	🗖 Bookmark	[Edit Properties]		
Core 🕨	🗖 BookmarkPortlet	[Edit Properties]		
LDAP 🕨	🗆 Calendar	[Edit Properties]		
□ Membership ▶	DiscussionLite	[Edit Properties]		
Policy Configuration		[Edit Properties]		
	FW_ActiveDocuments	[Edit Properties.]		
Mabile Application Configuration		[Edit Properties]		
		[Edit Properties]		
□ Mobile Address Book ▶	FW_ClearAssignments	[Ealt Properties]	\mathbf{X}	
□ Mobile Calendar ▶ /		[Edit Properties]	\mathbf{i}	
□ Mobile Mail 🕨 🛛 🖊		[Edit Properties]	$\langle \rangle$	
Portal Server Configuration		[Edit Properties]		
□ NetMail ▶	E FW_CreateContent	[Edit Properties]		
□ Portal Deskton ▷	E FW DocumentAssignments	[Edit Properties]		
Remote Portlets (WSRP)	□ FW DocumentHistory	[Edit Properties]		
	FW_MyDocuments	Edit Properties1		
	FW_PublishConsole	[Edit Properties]		
□ WSKP Producers ▶	📕 🗖 FW_PublishTarget	[Edit Properties]		
SSO Adapter 🕨	FW_RolesAdmin	[Edit Properties]		
🗆 Subscriptions 🕨 🛛 🔪	FW_SearchContent	[Edit Properties]		
SRA Configuration	FW_SearchDocuments	[Edit Properties]	/	
🗆 Access List 🕨	FW_SiteInfo	[Edit Properties]	/	
□ NetFile ▶	FW_SparkAds	[Edit Properties]		
□ Netlet ▶	W_SparkDocuments	[Edit Properties]		
		[Edit Properties.]		
		[Eait Propervies]		
iavascript:document_forms['AMHeader2'] submit()			Internet	
			//	

- **9.** Create a container channel (i.e., a display page) in which to display the portlets you will choose:
 - a. At the top of the right-hand column, click New under Container Channels.
 - **b.** Enter a channel name (i.e., a display page name).
 - c. For "Provider," select JSPTableContainerProvider.
 - d. Click OK.

🚰 Sun Java System Access Manager - Microsoft Internet Explorer			_ 🗆 🗙
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>H</u> elp			At a
🕞 Back 🔹 💮 👻 😰 🏠 🔎 Search ☆ Favorites 🐇	3 🗟 • 🎍 🖸 • 🗌	. 😵 🚳	
Address 🔊 http://sun09as1.fatwire.com:8080/amconsole/base/AMAdminFram	ne		▼ 🗗 Go Links »
		Search	Logout Help
💩 Sun			Welcome
Sun Java" System Access Manager			<u>amAdmin</u>
Identity Management Service Configuration	on Current Sessio	ns Federation Management	
fatwire 🕨	Portal Desktop -	New Channel	
	Container Path:	Гор	
View: Services			
Services	Channel Name:*	[FW_Spark] Channel name may contain only letters (a-7.0-7) and (diaite (0-9)
Add Remove		Charine have contain only letters (a-2,A-2) and	aigits (0-5)
Name	Provider:	JSPTableContainerProvider	
Access Manager Configuration	* T	ine d Rield	01/ 0
□ Administration ▶	∥ ↑ Indicates a requ	lirea fiela	UK Lancel
□ Authentication Configuration ▶			
Authentication Modules			
Core 🕨			
LDAP 🕨			
🗖 Membership 🕨			
□ Policy Configuration ▶			
🗖 User 🕨			
Mobile Application Configuration			
□ Mobile Address Book ▶			
□ Mobile Calendar 🕨			
□ Mobile Mail 🕨			
Portal Server Configuration			
□ NetMail 🕨			
□ Portal Desktop 🕨			
Remote Portlets (WSRP)			
□ WSRP Consumer ▶			
□ WSRP Producers ▶			
SSO Adapter 🕨 💌			
ê			💣 Internet

10. Configure the container channel:

a. Click on Edit Properties next to the container channel that you created in step 9.

🚈 Sun Java System Access Manager - Microsoft Internet Explorer				_ _ ×
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>H</u> elp				AT .
🕞 Back 🔹 🕑 🔹 😰 🏠 🔎 Search ☆ Favorites 🧔		• چ 🖸 • 🛄 🚷 🦓		
Address 🔊 http://sun09as1.fatwire.com:8080/amconsole/base/AMAdminFrame				💌 🔁 Go 🛛 Links 🌺
			Search	Logout Help
♠ Sun			We	elcome
Sun Java~ System Access Manager			an	<u>Admin</u>
The stitute of the second se				
	ոլ եւ	Irrent Sessions Federation Management		
fatwire 🖡 🔺	Ne	w Delete		_
	-	Nomo	Action	_
View: Services		CollaborationTabPapelContainer	Edit Droperties	1
			[Edit Properties	- <u>-</u>
Services		FrameTabContainer	[Edit Properties	
Add Remove		FW Spark	[Edit Properties	
Name		ISPNativeContainer	[Edit Properties	
Access Manager Configuration		ISPRenderingContainer	[Edit Properties	
□ Administration ▶		ISPTabContainer	[Edit Properties	
□ Authentication Configuration ▶		ISPTabCustomTableContainer	[Edit Properties	
Authentication Modules		ISPTableContainer	[Edit Properties	
Core 🕨		MvFrontPageFramePapelContainer	[Edit Properties	
LDAP 🕨		MyFrontPageTabPapelContainer	[Edit Properties	
□ Membership 🕨		MyFrontPageTemplatePapelContainer	[Edit Properties	
□ Policy Configuration ▶		PredefinedFrontPageFramePageIContainer	[Edit Properties	
🗖 User 🕨		PredefinedFrontPageTabPapelContainer	[Edit Properties	
Mobile Application Configuration		PredefinedFrontPageTemplatePapelContainer	[Edit Properties	
□ Mobile Address Book ▶		PredefinedSamplesEramePapelContainer	[Edit Properties	
□ Mobile Calendar 🕨		PredefinedSamplesTabPanelContainer	[Edit Properties	
□ Mobile Mail ▶		PredefinedSamplesTemplatePanelContainer	[Edit Properties	1
Portal Server Configuration		PredefinedToolsTemplatePanelContainer	[Edit Properties	
□ NetMail ►		SamplesFramePanelContainer	[Edit Properties	1
□ Portal Desktop ▷		SamplesTabPanelContainer	[Edit Properties	
Remote Portlets (WSRP)		SamplesTemplatePanelContainer	[Edit Properties	1
□ WSRP Consumer ▶		SearchTabPanelContainer	[Edit Properties	
□ WSRP Producers ▶		TemplateNativeContainer	[Edit Properties	
SSO Adapter ▶ ✓	•			
ē.				Internet

129

- b. In the "description" and "title" fields, enter FatWire_<container channel name>. This is the name of the page that will display the portlets you will select in step d on page 131. Suggested container channel names are the following:
 - FatWire Spark
 - FatWire Content
 - FatWire Documents
 - FatWire Admin
- c. Click Save.

🗿 Sun Java System Access Manager - Microsoft Internet Explorer						
Elle Edit View Favorites Tools Help						
🕝 Back 🔹 🕥 🖌 😰 🕜 🔎 Search 😭 Favorites 🚷	96	3• 🎍 🖸 • 📃 😣 🚜 👘				
Address 🔊 http://sun09as1.fatwire.com:8080/amconsole/base/AMAdminFran	ne				💌 🔁 Go 🛛 Links 🌺	
				Search	Logout Help	
🚸 Sun.					Welcome	
Sun Java" System Access Manager					amaamin	
Identity Management Service Configurati	on C	urrent Sessions Federation	n Management			
			9			
fatwire 🕨 🔺		description		basic		
		Decktop fontEaso1			dofault	
View: Services		Desktop-fontFacer	Sans-serif	Dasit		
		font-ace1	Sans-serif	basio	c default	
Services		fullwidth_popup_height	500	basio	: default	
Add Remove		fullwidth_popup_width	600	basio	: default	
Name Accors Managor Configuration		layout	1	basio	c default	
		maximizedChannel	,	basio	: default	
□ Authentication Configuration ▶		Nowe Chappole		bacic	dofault	
Authentication Modules		news channels parallelChappelsInit		basic	default	
Core 🕨		Dereonal Channels		basic	default	
LDAP 🕨		productName	Cup 1545TM System Bo	hasir	default	
□ Membership 🕨		Comple Changele	Jouri Java IM System Pu	basi	default	
□ Policy Configuration ▶		Search Channels		basic	derault	
🗆 User 🕨		showEvcentions		basic	default	
Mobile Application Configuration		thick popula height		basic	default	
□ Mobile Address Book ▶		thick_popap_neight	300	basic		
□ Mobile Calendar ▶		tnick_popup_wiath	600	Dasio	derauit	
□ Mobile Mail ▶		thin_popup_height	200	basio	c default	
	" □	thin_popup_width	500	basio	c default	
		timeout	240	basio	c default	
Remote Portlets (WSRP)		title	FatWire Spark	🗅 basid	c default	
□ WSRP Consumer ▶		Yahoo Sample Chappels		- hasir	default	
□ WSRP Producers ▶		<u>ranco oumpre orientiero</u>		- Dusit		
SSO Adapter 🕨 💽					Save Reset	
▲ ▲					Internet	
					winternet //	

130

- **d.** Select the container channel (display page) that you created in step 9 on page 128, then do the following:
 - 1) Select the portlets that you want to be displayed on this container channel (display page).
 - **2)** Click **Add** below the list-boxes "Available to End Users on the Content Page" and "Visible on the Portal Desktop."
 - 3) Click Save.

Sun Java System Access Manager - Microsoft Internet Explorer	
<u>Eile E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>H</u> elp	R ^a
🕞 Back 🔹 🕥 👻 😰 🏠 🔎 Search 👷 Favorites 🐇	B S - ≥ S + S
Address Attp://sun09as1.fatwire.com:8080/amconsole/base/AMAdminFram	ne 🔽 🔁 Go Links »
	Search Logout Help
💩 Sun	Welcome
Sun Java ^w System Access Manager	<u>amAdmin</u>
Identity Management Service Configuration	on Current Sessions Federation Management
fatwire 🖡	Chappels
	Name Nam Demete (WODD) Obernel
View: Services	New Portiet Ghannel
	Name Action
Services	No Channels Defined
Add Remove	Channel Management
Namo	Save Reset
Access Manager Configuration	
□ Administration ▶	Ready For Use:
☐ Authentication Configuration ▶	IMChannel
Authentication Modules	JSPNativeContainer
Core 🕨	JSPRenderingContainer
LDAP 🕨	JSPTabContainer
□ Membership ▶	Add v Remove
□ Policy Configuration ▶	Available to End Lisers on the Content Page:
🗖 User 🕨	
Mobile Application Configuration	
□ Mobile Address Book ▶	
□ Mobile Calendar 🕨	
□ Mobile Mail 🕨	Add v Remove
Portal Server Configuration	
🗆 NetMail 🕨	Visible on the Portal Desktop:
🗆 Portal Desktop 🕨	FW_SparkAds FW_SparkDocuments
Remote Portlets (WSRP)	FW_SparkJobs
□ WSRP Consumer ▶	FW_SparkNews
□ WSRP Producers ▶	
SSO Adapter 🕨 💽	-
Error on page.	I Diale Contraction of the second sec
· · •	

e. Click JSPTabContainer.

🚰 Sun Java System Access Manager - Microsoft Internet Explorer 📃 🗆 🗶				
Eile Edit View Favorites Iools Help				
🕞 Back 🔹 🌍 🔹 😰 🏠 🔎 Search 👷 Favorites 🤣 😥 + 🤯 🔯 👻 📜 🔇 🕉				
Address 🕘 http://sun09as1.fatwire.com:8080/amconsole/base/AMAdminFrame 🔽 🄁 Go 🛛 Links 🎽				
		Search Logout Help		
𝔄 Sun		Welcome		
Sun Java [®] System Access Manager		amAdmin		
Identity Management Causies Configurati	Current Consignal Fadaration Managament			
	on Current Sessions Federation Management			
fatwire 🕨 🔺	Portal Desktop - Channels	<u> </u>		
	Container Path: Top			
View: Services	· · · · · · · · · · · · · · · · · · ·			
		Deels Te Deutel Declaters		
Services		Back To Portal Desktop		
Add Remove	Display Profile Top Level: Edit Properties			
Name	Display Prome top Level. Eult Properties			
Access Manager Configuration	Container Channels			
□ Administration ▶	New Delete			
□ Authentication Configuration ▶	Nomo	Action		
Authentication Modules	CollaborationTabPapelContainer	[Edit Properties]		
Core 🕨		[Edit Properties]		
LDAP 🕨		[Edit Properties]		
🗖 Membership 🕨	E EW Spark	[Edit Properties]		
□ Policy Configuration ▶	I ISPNativeContainer	[Edit Properties]		
🗖 User 🕨	□ <u>SOPNativeContainer</u>	[Edit Properties]		
Mobile Application Configuration		[Edit Properties 1		
□ Mobile Address Book 🕨		[Edit Properties]		
□ Mobile Calendar 🕨	□ ISPTableContainer	[Edit Properties]		
□ Mobile Mail 🕨		[Edit Properties 1		
Portal Server Configuration		[Edit Properties 1		
🗖 NetMail 🕨		[Edit Properties]		
🗆 Portal Desktop 🕨		[Edit Properties]		
Remote Portlets (WSRP)		[Edit Properties]		
□ WSRP Consumer ▶		[Edit Properties]		
□ WSRP Producers ▶		[Edit Properties]		
□ SSO Adapter ▶				
		Internet		
12				

- 1) Select the container channel (display page) that you created in step 9 on page 128, then do the following:
- 2) Click Add under both the "Available to End Users on the Content Page" and "Visible on the Portal Desktop" list boxes.
- 3) Click Save.

Sun Java System Access Manager - Microsoft Internet Explorer	
<u>File Edit View Favorites Iools H</u> elp	R.
🕞 Back 🔹 🕥 👻 😰 🎧 🔎 Search ☆ Favorites 🌾	3) 🔗 😓 🛛 • 🗔 🛞 🦓
Address Attp://sun09as1.fatwire.com:8080/amconsole/base/AMAdminFran	e 🔽 🛃 Go Links X
	Search Logout Help
👁 Sun	Welcome
Sun Java" System Access Manager	amAdmin
The share and the second s	
	on Current Sessions Federation Management
fatwire 🕨 🔺	Channels
	New
View: Services	
	Name Action
Services	No Channels Defined
Add Remove	Channel Management
Name	Save Reset
Access Manager Configuration	Darahi Farilari
□ Administration ▶	Ready FOLOSE:
□ Authentication Configuration ▶	FW_SparkAds
Authentication Modules	FW_SparkDocuments
Core 🕨	FW_SparkNews
LDAP 🕨	
🗖 Membership 🕨	Add 🗟 [Remove A]
□ Policy Configuration ▶	Available to End Users on the Content Page:
🗖 User 🕨	
Mobile Application Configuration	
□ Mobile Address Book 🕨	
□ Mobile Calendar 🕨	
□ Mobile Mail 🕨	Add 🛛 Remove 🗛
Portal Server Configuration	
□ NetMail ▶	Visible on the Portal Desktop:
□ Portal Desktop ▷	SamplexS5
Remote Portlets (WSRP)	Notes
□ WSRP Consumer ▶	FW_Spark
□ WSRP Producers ▶	<u> </u>
SSO Adapter 🕨 💌	
A http://sun09as1.fatwire.com:8080/amserver/UI/Logout	- 🖉 Internet

11. Create as many container channels as you need by repeating steps 9 and 10.

Step III. Integrate with LDAP (Optional. Web Installations Only)

If you installed Content Server as a web application and wish to integrate with LDAP, follow instructions in the *Content Server Administrator's Guide*.

Step IV. Install Verity Search Engine (Optional)

- Copy the libFTVeritySearch.so file into the /opt/SUNWappserver/ application/lib directory.
- 2. Follow instructions in "Modifying the Classpath of a Domain," on page 32 with the following change—add the paths below to the section titled "Native Library Path Prefix":

```
<content server installation directory>/VerityK2/<_platform>/
filters
<content server installation directory>/VerityK2/<_platform>/
bin
```

- **3.** Follow instructions in "Modifying the Classpath of a Domain," on page 32 and add Verityse.jar.
- **4.** Restart the affected instance.

Step V. Set Up Content Server for Its Business Purpose (All Installations)

Once you have completed your Content Server installation, you are ready to configure it for business use. For instructions, see the *Content Server Administrator's Guide* and the *Developer's Guide*. The guides explain how to create and enable a content management environment including the data model, content management sites, site users, publishing functions, and client interfaces.

Note

If you plan to create clusters, you can do so first, and then configure the Content Servers for business use.

Appendixes

This section contains the following appendixes:

- Appendix A, "Sample Procedure for Installing JES"
- Appendix B, "Sample Procedure for Uninstalling JES"

Appendix A Sample Procedure for Installing JES

This appendix provides a sample procedure for installing JES for use by Content Server. Use the procedure as a reference and a means of obtaining detailed information about the steps that apply to your own installation procedure.

Installing JES

Note

Procedures for installing JES are environment specific. They depend on licensing terms and the JES version, among other factors. For instructions on installing JES on your environment, consult the JES documentation. Commands for starting and stopping JES components are given in "Starting and Stopping JES Components," on page 20.

- 1. Download the JES packages for Ql05 and uncompress to a directory.
- 2. Ensure that installer has "execute" permissions. If not, run;

```
chmod +x ./installer; chmod +x ./install/utils/
introspectPkgs.sh
```

Note

On Linux, also run: .install/utils/introspectLinuxRPMS.sh

- **3.** Execute the installer:
 - sh ./installer

🔽 1:10.120.16.41 - [default] - F-Secu	re SSH Client				_ 🗆 ×
Eile Edit <u>V</u> iew <u>W</u> indow <u>H</u> elp					
860.88 66	👬 🗵 🖲 🕅	‰ @ \ ?			
Quick Connect 📄 Profiles					
Last login: Mon Sep 12 14 Sun Microsystems Inc. Su # bash bash-3.00# export DISPLAY bash-3.00# cd /u01/Downloa bash-3.00# ls Copyright java_es_05Q1-ga1-solaris- java_es_05Q1-ga1-solaris- java_es_05Q1-ga1-solaris- bash-3.00# jar -xf java_es bash-3.00# jar -xf java_es bash-3.00# cd Solaris_X86, bash-3.00# cd Solaris_X86, bash-3.00# chmod +x ./inst bash-3.00# sh ./installer	34:25 2005 fro mOS 5.10 =10.120.12.30:0 dds/ READ :86-1.zip Sola :86-2.zip :05Q1-ga1-sola :05Q1-ga1-sola :aller	m 10.120.12 Generic Jan .0 ME ris_x86 ris-x86-1.: ris-x86-2.:	2.30 huary 2005 tip tip	5]]	×
Connected to 10.120.16.41	SSH2 - 3des-cbc - hmac	-sha1 - none	80x25	27, 14	H 00:14:41 //.

4. In the "Welcome" screen, click Next.

🔜 Sun Java(tm) Enter	prise System Install Wizard
	Welcome
Java ⁻	Welcome to the Sun Java(TM) Enterprise System; serious software made simple. Before you begin, please refer to the <i>Release Notes</i> and <i>Installation Guide</i> , available at <u>http://docs.sun.com/coll/entsys_05g1</u> . You can install any or all of the Enterprise Network Services provided by the Java Enterprise System.
Sun Java™ Enterprise System	Copyright 2005 Sun Microsystems, Inc. All rights reserved. Use is subject to license terms.
microsylams	Next > Cancel Help

5. In the "Software License Agreement" screen, click Yes, Accept License.

🔜 Sun Java(tm) Enter	rprise System Install Wizard	<u>_ ×</u>
22	Software License Agreement	
	Before you can install this product, you must read and accept the agreement under whic this product is licensed for use.	h
	Sun Microsystems, Inc. ("Sun") SOFTWARE LICENSE AGREEMENT	
Java"	READ THE TERMS OF THIS AGREEMENT ("AGREEMENT") CAREFULLY BEFORE OPENING SOFTWARE MEDIA PACKAGE. BY OPENING SOFTWARE MEDIA PACKAGE, YOU AGREE TO THE TERMS OF THIS AGREEMENT. IF YOU ARE ACCESSING	
Sun Java™ Enterprise System	SOFTWARE ELECTRONICALLY, INDICATE YOUR ACCEPTANCE OF THESE TERMS BY SELECTING THE "ACCEPT" (OR EQUIVALENT) BUTTON AT THE END OF THIS AGREEMENT. IF YOU DO NOT AGREE TO ALL OF THE TERMS, PROMPTLY RETURN THE UNUSED SOFTWARE TO YOUR PLACE OF PURCHASE FOR A REFUND OR, IF SOFTWARE IS ACCESSED ELECTRONICALLY, SELECT THE "DECLINE" (OR EQUIVALENT DUTTON AT THE END OF THIS ACREEMENT IF YOUL UNYE	_
	Have you read, and do you accept, all of the terms of the preceding Software License Agreement? If you Click Decline , the installer will exit without installing any products.	
SUR.		
	Back Yes, Accept License Decline	Help

140

6. In the "Language Support" support screen, click Next.

🔜 Sun Java(tm) Enter	prise System Install Wizard	_ 🗆 🗵
	Language Support	
5	Select the language support you want to install. French Japanese Simplified Chinese German Korean Traditional Chinese	
Java	☐ Spanish English language support is always installed.	
Sun Java™ Enterprise System		
Sun		Help

- 7. In the "Component Selection" screen, select the following:
 - System Portal Server
 - System Application Server Enterprise Edition
 - System Access Manager
 - System Directory Server

Communicatio	Compor n & Collaborat /a(TM) System /a(TM) System /a(TM) System	ient Name ion Services Messaging Server 6 2005Q1 Calendar Server 6 2005Q1 Instant Messaging 7 2005Q1	Status	Details Size 132 MB 38 MB
Communicatio	n & Collaborat va(TM) System va(TM) System va(TM) System	ion Services Messaging Server 6 2005Q1 Calendar Server 6 2005Q1 Instant Messaging 7 2005Q1		132 MB 38 MB
⊂ Sun Jav ⊂ Sun Jav ⊶ ⊂ Sun Jav ⊶ ⊽ Sun Jav	va(TM) System va(TM) System va(TM) System	Messaging Server 6 2005Q1 Calendar Server 6 2005Q1 Instant Messaging 7 2005Q1		132 MB 38 MB
Gan Sun Jav Ger Gan Sun Jav Ger Gan Sun Jav	/a(TM) System /a(TM) System /a(TM) System	Calendar Server 6 2005Q1 Instant Messaging 7 2005Q1		38 MB
 ►	va(TM) System	Instant Messaging 7 2005Q1		
⊶ 🔽 Sun Jav	o/TM) Custors	🖕 🦵 Sun Java(TM) System Instant Messaging 7 2005Q1		
e- ⊑ SunJav	Image: Sun Java(TM) System Portal Server 6 2005Q1			
	Sun Java(TM) System Portal Server Secure Remote Ac			
Sun Java(TM) System Communications Express 6 200			19 MB	
, Sun Jav	/a(TM) System	Directory Preparation Tool	Required	303 KB
Web & Applica	tion Services		Tuquitou	000 MD
o- ⊫ Sun Jav	/a(TM) Svstem	Application Server Enterprise Ed		76 MB
E Sun Jay	(a(TM) System	Web Server 6.1 SP4 2005Q1		60 MR
Sun Jav	(a(TM) System	Message Queue 3 2005Q1 Enter	Doguirod	0.MD
Directory & Ide	ntity Services	nicocago adodo o zocoa i zino	Nequireu	5 WD
o 🗔 Sunda	(a(TM) System	Access Manager & 200501		22 MD
ider	ntity Manageme	ent and Policy Services Core		22 IVID
Acci	ecc Managerie	dministration Console		2 IVID 4 MD
l v ∩or	nmon Domain	Services for Federation Manage		
Acci	ace Mananar 9		Domirod	20 ND
Sun lav	va/TM) Svetam	Directory Server 5 200501	Required	19 MD
Gun Jay	/a(TM) System	Directory Brow Server 5 200501		34 MB
Availability Cor	vicee	Directory i foxy derver d 2003@1		9 MB
	viuco	on Store (HADR)		50 MD
Administrati n	Econicoo			27 MB
Administrative Sun Java(TM) S (J2EE(TM) plat and web service	Sentices System Applica form) 1.4 comp ces. The server	tion Server provides a Java 2 Pla patible platform for developing an provides the infrastructure servic	tform, Enterp d deploying : :es for intera	rise Edition application servic ction between
	 Sun Jav Kacci Sun Jav Sun Jav Acci Sun Jav Sun Jav Sun Jav Sun Jav Sun Java Acci Sun Jav Sun Jav Sun Java 	 Sun Java(TM) System Web & Application Services Sun Java(TM) System Sun Java(TM) System Sun Java(TM) System Sun Java(TM) System Identity Services Identity Manageme Access Manager A Common Domain Access Manager S Sun Java(TM) System Access 	 Sun Java(TM) System Directory Preparation Tool Web & Application Services Sun Java(TM) System Application Server Enterprise Ed Sun Java(TM) System Web Server 6.1 SP4 2005Q1 Sun Java(TM) System Message Queue 3 2005Q1 Ente Directory & Identity Services Sun Java(TM) System Access Manager 6 2005Q1 Identity Management and Policy Services Core Access Manager Administration Console Common Domain Services for Federation Manage Access Manager SDK Sun Java(TM) System Directory Server 5 2005Q1 Sun Java(TM) System Directory Server 5 2005Q1 Sun Java(TM) System Directory Proxy Server 5 2005Q1 	 Sun Java(TM) System Directory Preparation Tool Required Web & Application Services Sun Java(TM) System Application Server Enterprise Ed Sun Java(TM) System Web Server 6.1 SP4 2005Q1 Sun Java(TM) System Message Queue 3 2005Q1 Ente Required Directory & Identity Services Sun Java(TM) System Access Manager 6 2005Q1 Identity Management and Policy Services Core Access Manager Administration Console Common Domain Services for Federation Manage Access Manager SDK Required Sun Java(TM) System Directory Server 5 2005Q1 Sun Java(TM) System Directory Proxy Server 5 2005Q1 Mava(TM) System Directory Proxy Server 5 2005Q1 Sun Java(TM) System Access High Availability Services Sun Java(TM) System Application Server provides a Java 2 Platform, Enterpr(J2EE(TM) platform) 1.4 compatible platform for developing and deploying and web services. The server provides the infrastructure services for intera tighty coupled distributed components, including remote method invocation

- 8. If you plan on using Sun Java Systems Web Server with the load balancing plugin, expand the option Sun Java System Application Server Enterprise and select Loadbalancing Plugin.
- 9. Click Yes on the pop-up dialog box.

🗙 Bundl	ed Products Found	×		
?	Bundled Products Found			
	The installer has detected incompatible versions of components that were installed with the operating system. The installer cannot proceed until the following components are removed. To have the installer remove the components, click Yes. To manually remove them, click No and remove the components by using the prodreg command or the pkgrm command. Sun ONE Application Server Platform Edition Sun ONE Message Queue Platform Edition			
Yes				

10. In the "Shared Component Upgrades" screen, click **Next**.

🔜 Sun Java(tm) Enterp	orise System Install W	izard			
\mathbb{Z}	Shared Component L	lpgrades Required			
	The shared components listed below are currently installed. They will be upgraded for compatibility with the products you chose to install.				
	Component	Package	Installed Version	Required Version	
2	JavaActivationFram	SUNWjaf	8.0.0.0	8.1	
	JavaMail	SUNWjmail	8.1.0.0.0	8.1	
lava ⁻	LDAPCSDK	SUNWIdk	5.11:PATCHES:116	5.12	
,					
Sun Java™ Enterprise System Click Next to upgrade these shared components.					
Sun.					
	& Back Ne:	<t th="" ≫<=""><th></th><th>Cancel</th><th>Help</th></t>		Cancel	Help

🔜 Sun Java(tm) Enter	rprise System Install Wizard			_ 🗆 🗙
2	Installation Directories			
VII re	Enter the name of the target insta	llation directory for each compor	ent product.	
	Directory Server, Server Root:	/var/opt/mps/serverroot	Browse	
Java	Directory Preparation Tool:	/opt/SUNWcomds	Browse	
Sun Java™ Enterprise	Access Manager:	/opt	Browse	
System	Application Server:	/opt/SUNWappserver	Browse	
	Application Server Data and Configuration	/var/opt/SUNWappserver	Browse	
	Portal Server:	/opt	Browse	
Sun.				
	& Back Next >		Cancel	Help

11. In the "Installation Directories" screen, click Next.

Note

While changes can be made to the directory structure, they should not be made unless you are thoroughly familiar with the Sun Java Enterprise Edition. Changes to the default directory structure will result in additional and substantial work. The associated steps are not covered in this guide. **12.** In the "Verify System Requirements" screen, allow the process to run to completion and click **Next**.

🐋 Sun Java(tm) Enterprise System Install Wizard				
	Verify System Requirements			
	Available disk space	ок		
Java ⁻	Installed memory	ок		
	Operating system patches	ок		
	Operating system resources	OK		
Sun Java™ Enterprise System	System Ready for Installation.			
Sun.				
	Rext Seck	Cance	l Help	

13. In the "Configuration Type Panel," click **Next**.

🔜 Sun Java(tm) Enter	prise System Install Wiz	ard	
22	Configuration Type Pa	nel	
	Configure Now	Enables you to configure components as part of installation.	
	○ Configure Later	Installs components, but does not configure the must configure components after completing installation.	m. You
Java Sun Java™			
Enterprise System			
New Sum.			
		>	Cancel Help
- 🔜 Sun Java(tm) Enterprise System Install Wizard _ 🗆 🗙 **Custom Configuration** The following component products cannot be configured during installation. You have to configure them after installation is complete. Sun Java(TM) System Directory Preparation Tool Java Sun Java™ Enterprise System Click Next to configure the other component products. 🗞 Sun Next > Cancel Help
- 14. In the "Custom Configuration" screen, click Next.

15. In the "Common Server Settings" screen, enter an administrator password, retype the password (in the next field) to confirm it, and click Next.

📲 Sun Java(tm) Enterprise System Install Wizard					
	223	Common Server Settings	3		
		The following settings will needed. The values can b	be the default values for all installed c e overridden when you configure the p	omponent products as roducts.	
		Host Name:	realsun03		
K	E	DNS Domain Name:	fatwire.com		
2	Java	Host IP Address:	10.120.16.42		
5	Sun Java™	Administrator User ID:	admin		
6	Enterprise Administrator Password	Administrator Password:	******	At least 8 characters long	
K	System	Retype Password:	****		
2		System User:	root		
		System Group:	root		
The values you enter above w that include these default values		The values you enter abov that include these default	re will appear as default values on the values will be marked with this note: *\$	pages that follow. Fields Shared default value	3
				Cancel	Help

Sun Java(tm) Enter	prise System Install Wizard Application Server: Domain Adminis	stration Server (1 of 1)	
Java⁻ Sun Java™ Enterprise System	Admin User Name: Password(min. 8 characters): Re-enter Password: Admin Port(access the admin tools): JMX Port: HTTP Port:	admin ******* ******* 4849 8686 8080	
Sucception	HTTPS Port: Master Password(min. 8 characters) Re-enter Master Password:	8181	
			Cancel Help

16. In the "Application Server: Domain" screen, click **Next**.

- **17.** Configure the directory server:
 - **a.** In the "Directory Server" Administration" screen, click **Next**.

🔤 Sun Java(tm) Enterprise System Install Wizard				
	Directory Server: Administrati	ion (1 of 5)		
Java Sun Java	Administrator User ID: Administrator Password: Retype Password: Directory Manager DN: Directory Manager Password:	admin ******* the second sec	*Shared default value *Shared default value 	
Enterprise System	Retype Password: Certain Directory Server operat called a Directory Manager. Thi	ions can be performed only by a privilege is user's bind DN is typically cn=Director	ed administrator y Manager.	
			Cancel Help	

b. In the "Directory Server: Settings" screen, confirm that the suffix is correct and click **Next**.

Sun Java(tm) Enterprise System Install Wizard					
	Directory Server: Server	Settings (2 of 5)			
Sun Java™ Enterprise System	Server Identifier: Server Port: Suffix: Administration Domain: System User: System Group: Directory Server will run u	realsun03 389 dc=fatwire,dc=com fatwire.com root root inder the system user and system group.			
		>	Cancel Help		

c. In the "Directory Server: Configuration" screen, click **Next** if the LDAP is local. If the LDAP is remote, fill out the form and click **Next**.

Sun Java(tm) Enterprise System Install Wizard				
	Directory Server: Configuration Directory Server (3 of 5)			
Java" Sun Java™ Enterprise System	This server can store its own configuration data or it can access configuration data from another instance of Directory Server. Store configuration data on this server. Store this server's configuration data in the following instance of Directory Server. Directory Server Host: Directory Server Port: 389 Directory Manager DN: cn=Directory Manager Directory Manager			
North Sun.				
		lelp		

d. In the "Directory Server: Data Storage Location" screen, click **Next** if the LDAP is local. If the LDAP is remote, fill out the form and click **Next**.

🛒 Sun Java(tm) Enter	prise System Install Wizard		
	Directory Server: Data Storage Locat	ion (4 of 5)	
Java [™] Sun Java™ Enterprise System	This server can store its own user data data and group data from another insta	a and group data, or it can access user ance of Directory Server. this server. the following instance of Directory Server. 389 cn=Directory Manager	
Sun et al a construction of the construction o	Suffix:	Cancel	Help

e. In the "Directory Server: Populate Data" screen, click Next.

🔜 Sun Java(tm) Enter	prise System Install Wizard	
22	Directory Server: Populate Data (5 of 5)	
Java ⁻	The new directory server can be populated with data. □ Populate with sample organizational structure ☑ Populate with data ③ Sample data ○ Your data (LDIE File)	
Sun Java™ Enterprise System	File Name: Browse Disable schema checking to accelerate data import. Use only for sample data or known conforming LDIF files.	
Sun.	≪ Back Next »	Cancel Help

- **18.** Configure the access manager:
 - **a.** In the "Administration" screen, enter an LDAP password for the amldapuser. This password must differ from the admin user password (demo 4132 in our examples). Click **Next**.

🔜 Sun Java(tm) Ente	rprise System Install Wizard		
	Access Manager: Adminis	tration (1 of 6)	
	Administrator User ID:	amAdmin	
10 6	Administrator Password:	******	*Shared default value
Ê	Retype Password:	*****	
Java	LDAP User ID:	amldapuser	
Sun lava™	LDAP Password:	*****	
Enterprise	Retype Password:	****	
System	Password Encryption Key:	ca3vPAtHO4e8QophwX02/9b0v9DYecxy	
2			
Na Sun.			
			Cancel Help

b. In the "Access Manager: Web Container" screen, click Next.

Sun Java(tm) Enterprise System Install Wizard				
222	Access Manager: Web Container (2 of 6)			
Java ⁻	Access Manager must run inside a J2EE container. Web Container: O Sun Java System Web Server Sun Java System Application Server			
Sun Java™ Enterprise System				
Sun.				
	≪ Back Next ≫ Cancel	Help		

c. In the "Access Manager: Sun Java System Application Server" screen, click Next.

Sun Java(tm) Enter	rprise System Install Wizard		
	Access Manager: Sun Java System	Application Server (3 of 6)	
Java ⁻	Installation Directory: Access Manager Runtime Instance: Instance Directory: Access Manager Instance Port: Document Root:	/opt/SUNWappserver/appserver server SUNWappserver/domains/domain1 8080 ppserver/domains/domain1/docroot	Browse Browse
Sun Java™ Enterprise System	Administrator Oser ID: Administrator Password: Administrator Port: Secure Server Instance Port: Secure Administration Server Port:	admin ******** 4849	value *Shared default value
Sun.			
			Cancel Help

d. In the "Web Container" screen for running Access Manager Services, keep the displayed values and click **Next**.

🔜 Sun Java(tm) Enter	prise System Install Wizard		
\mathbb{Z}	Access Manager: Web Container fo	r running Access Manager Services(4 o	f 6)
	Host Name:	realsun03.fatwire.com	hostname.domain
10 6	Services Deployment URI:	amserver]
	Common Domain Deployment URI:	amcommon	
Java	Cookie Domain:	.fatwire.com	*Assure it is not a top level domain
Sun Java™ Enterprise	Administration Console:	 Deploy new console Use existing console 	
System	Console Deployment URI:	amconsole]
2	Password Deployment URI:	ampassword]
	Console Host Name:	realsun03.fatwire.com	hostname.domain
Sun.	Console Port:	8080	
	& Back Next >	Can	cel Help

e. In the "Directory Server Information" screen, keep the displayed values and click Next.

🔜 Sun Java(tm) Enter	prise System Install Wizard		
	Access Manager: Directory S	erver Information (5 of 6)	
	Directory Server Host:	realsun03.fatwire.com	
	Directory Server Port:	389	
Sel la	Access Manager Directory Root Suffix:	dc=fatwire,dc=com	
Java ⁻	Directory Manager DN:	cn=Directory Manager	
Sun Java™ Enterprise System	Directory Manager Password:	******	
Sun.			
			Cancel Help

🔜 Sun Java(tm) Enter	prise System Install Wizard		_ 🗆 ×
	Access Manager: Directory Server Inform	ation (6 of 6)	
	Is Directory Server provisioned with user da	ita?	
Ê	Organization Marker Object Class:	sunISManagedOrganization	
Java	Organization Naming Attribute:		
Sun Java™	User Marker Object Class:	inetorgperson	
Enterprise System	User Naming Attribute:	uid	
(
SUN.			
		Cancel	Help

f. In the "Directory Server Information" screen, click Next.

- **19.** Configure the portal server:
 - **a.** In the "Web Container" screen, click **Next**.

🔣 Sun Java(tm) Enter	prise System Install Wizard	
	Portal Server: Web Container	
Java⁻ Sun Java™ Enterprise System	Portal Server must run inside a J2EE web container. Web Container: O Sun Java System Web Server O Sun Java System Application Server O BEA WebLogic Server O IBM WebSphere Application Server Third-party web containers must be installed and running.	
Sun.		
	Back Next Cancel	Help

🔜 Sun Java(tm) Enterprise System Install Wizard			
	Portal Server: Sun Java S	System Application Server	
Sun Java™ Enterprise System	Installation Directory: Domain Name: Server Instance Directory: Server Instance Port: Document Root Directory: Administration Port: Administrator User ID: Administrator Password:	/opt/SUNWappserver/appserver domain1 /var/opt/SUNWappserver/domains/domain1 8080 t/SUNWappserver/domains/domain1/docroot 4849 admin ******** Secure Server Instance Port ✓ Secure Administration Server Port	Browse Browse
• entropythm			Cancel Help

b. In the "Sun Java Application Server" screen, click **Next**.

c. In the "Web Container Deployment" screen, click **Next**.

🔜 Sun Java(tm) Enter	prise System Install Wiza	rd		_ 🗆 🗙
	Portal Server: Web Cont	ainer Deployment		
Java ⁻ Sun Java™ Enterprise	Load Balancer Protocol: Load Balancer Host: Load Balancer Port: Deployment URI:	HTTP O HTTPS realsun03.fatwire.com	hostname.domain le Portal Servers	
System			Cancel	Help

20. In the "Ready to Install" screen, click **Next**.

🔜 Sun Java(tm) Enter	prise System Install Wizard	
22	Ready to Install	
Sun Java™ Enterprise System	Product: Java Enterprise System Location: /var/sadm/prod/entsys Space Required: 181.51 MB 	
		Cancel Help

21. A pop-up message identifies the processes that are now running. Wait for the processes to finish running.

🗙 Shared Components Upgrade/Install	_ 🗆 🗙
Please wait while the installer upgrades and installs shared com	ponents

22. In the "Product Registration" screen, deselect **Open registration window during installation** and click **Install**.



23. In the "Installing ..." screen, wait for the installation to complete.

🔜 Sun Java(tm) Enterp	ise System Install Wizard	_ 🗆 🗙
2	Installing	
Java [™] Sun Java™ Enterprise System	It's a whole new world.	
	Java Enterprise System	
Sun.	0% Sto	p
	Cancel	Help

156

24. In the "Installation Complete" screen, click **Close**.

🔜 Sun Java(tm) Enter	prise System Install Wizard	_ 🗆 🗙
Sun Java(tm) Enter	Installation Complete Click the following buttons to view installation and configuration summaries or the installation log. The installer stores the summary and log files in this location: //ar/sadm/install/logs/ View Summary View Install Your next step is to perform the postinstallation configuration and verification tasks documented in the "Postinstallation" chapter of the Sun Java(TM) Enterprise System Installation Guide at http://docs.sun.com/doc/819-0056 . Automatically display the Sun Java(TM) Enterprise System Installation Guide after the installer closes (requires an internet connection)	Log
Sun.		
	Close	Help

Appendix B Sample Procedure for Uninstalling JES

This appendix provides a sample procedure for uninstalling JES. The procedure is based on scripts provided by Sun Microsystems.

Uninstalling JES

- **1.** Execute the following command:
 - /var/scam/prod/entices/uninstall
- 2. In the "Welcome" screen, click Next.

🔜 Sun Java(tm) Enter	🔜 Sun Java(tm) Enterprise System Uninstall Wizard			
	Welcome			
	This uninstalls components of Sun Java(TM) Enterprise System. Click Next to continue.			
lava	Copyright 2005 Sun Microsystems, Inc. All rights reserved. Use is subject to license terms.			
Sun Java™ Enterprise				
System				
Sun.				
	Next >> Cancel	Help		

- Sun Java(tm) Enterprise System Uninstall Wizard <u>- 🗆 ×</u> Select Components Java Enterprise System components showing a checked box will be uninstalled. Please change selection accordingly. 🔄 Sun Java (TW) System Ponar Server Secure Remote Access 6 2005QT U DYIES ٠ Sun Java(TM) System Communications Express 6 2005Q1 19.12 MB 🖌 Sun Java(TM) System Directory Preparation Tool 303.30 KB Java Web & Application Services 🖕 🖌 Sun Java(TM) System Application Server Enterprise Edition 8.1 2005Q1 23.20 MB Sun Java™ Sun Java(TM) System Web Server 6.1 SP4 2005Q1 60.40 MB Enterprise Sun Java(TM) System Message Queue 3 2005Q1 Enterprise Edition 8.76 MB System Directory & Identity Services ⊶ 🔽 Sun Java(TM) System Access Manager 6 2005Q1 241.51 MB Image: Sun Java(TM) System Directory Server 5 2005Q1 0 bytes Sun Java(TM) System Directory Proxy Server 5 2005Q1 9.37 MB Availability Services High Availability Session Store (HADB) 51.77 MB 🏷 Sun Administrative Services Sun Java(TM) System Administration Server 5 2005Q1 950.80 KB Ŧ Next >> Cancel Help
- 3. In the next screen, select all components. Click Next.

4. In the "Warning" screen (regarding the loss of configuration data), click Continue.



- Sun Java(tm) Enterprise System Uninstall Wizard

 Image: Constant of the system Uninstall Wizard

 Uninstalling...

 Uninstalling...

 Java

 Sun Java

 Interprise System

 Sun Java

 Image: System

 Sun Java

 Image: System

 Image: System

 Image: System

 Sun Java(TM) System Directory Server 5 2005Q1

 Sun Java(TM) System Directory Server 5 2005Q1

 Cancel
- 5. Wait for the uninstallation process to finish running.

6. Click Close.

🔜 Sun Java(tm) Enter	prise System Uninstall Wizard	
Java ⁻	<u>Uninstallation Complete</u>	
Sun Java™ Enterprise System	Software uninstallation has completed successfully. View Summary	View Uninstall Log
		Close Help

161

- 7. Run jesrm.sh (this file can be found on the Sun site; it is not part of the FatWire distribution). Select option 8 from the menu.
- 8. Check that none of the following are running. If they are, stop them:

```
ps -ef |grep "appserver"
ps -ef |grep "webserv"
ps -ef |grep "dps"
ps -ef |grep "imq"
ps -ef |grep "slapd"
ps -ef |grep "admin"
```

9. Remove the following directories:

```
rm -rf /var/sadm/install/logs/Orion*
rm -rf /var/sadm/install/productregistry
rm -rf /var/sadm/install/.lockfile
rm -rf /var/sadm/install/.pkg.lock
rm -rf /var/sadm/install/logs/Administration_Server*
rm -rf /var/sadm/prod/orion
rm -rf /var/sadm/prod/orion
rm -rf /usr/sunone/*
rm -rf /var/opt/SUNW*
rm -rf /etc/opt/SUNW*
rm -rf /opt/SUNWps
rm -rf /opt/SUNWam
rm -rf /opt/SUNWappserver
rm -rf /opt/SUNWappserver
rm -rf /opt/SUNWappserver
```

10. Reboot the server.

Uninstalling JES