



Sun Java™ Web Infrastructure Suite

EZOffering Deployment Guide

2005Q4

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Introduction

This chapter describes the Sun Java™ Web Infrastructure Suite (Java WIS) and the EZOffering for Java WIS. This chapter is organized in the following sections:

- “The Sun Java Web Infrastructure Suite” on page 11
- “The EZOffering for Java WIS” on page 12
- “EZOffering #0: Fastplay Enterprise Web Services” on page 15
- “EZOffering #1: Origin and Content Server” on page 17
- “EZOffering #2: Server-side Java Applications” on page 17
- “EZOffering #3: Web Proxy Services” on page 18
- “EZOffering #4: Secure Web Infrastructure” on page 20

The Sun Java Web Infrastructure Suite

Java WIS is comprised of web and identity infrastructure components from Sun Java Enterprise System. The Java WIS core components are:

- Sun Java Application Server 8.1, Standard Edition (Application Server)
- Sun Java Directory Server 5.2 P4 Enterprise Edition (Directory Server)
- Sun Java System Access Manager 7.0 (Access Manager)
- Sun Java System Web Server 6.1 SP5 (Web Server)
- Sun Java System Web Proxy Server 4.0 (Web Proxy Server)

Using Java WIS components, you can build an infrastructure for web services, web applications, and server-side Java applications. Depending on your requirements, you can build anything from a basic infrastructure for HTML and CGI content to a secure, access-controlled infrastructure for server-side Java applications.

Java WIS provides an affordable, quick-start approach to Web services, and it provides the simplicity, ease-of-use, and out-of-the-box integration of a fully featured platform. The Java WIS components can be deployed in a number of architectures that help organizations reduce the cost of providing web applications and web services, improve web security, and strengthen their online relationships with their customers.

The EZOffering for Java WIS

The EZOffering for Java WIS is a fast, reliable, and consistent way for you to deploy Java WIS. The EZOffering includes five pre-architected offerings. To use the EZOffering, you select one of the offerings, and EZOffering performs the entire deployment, even when the deployment is distributed across several computers.

Each EZOffering is based on a different architecture, and each offering showcases a different aspect of the Java WIS. The five offerings are summarized in [Table 1-1](#).

Table 1-1 Java WIS EZOfferings

Offering	Benefits	Includes Sample Application?
Fastplay Enterprise Web Services	Primarily for evaluating Java WIS; this offering deploys the core components and a sample enterprise web service application, including user accounts, and showcases the key features of the suite. This is a one-computer deployment.	Yes

Table 1-1 Java WIS EZOfferings (*Continued*)

Offering	Benefits	Includes Sample Application?
Web Server System and Content Server	<p>Provides an infrastructure for reliable HTTP services. This offering uses Web Server as the content server. Web Server can be configured to support:</p> <ul style="list-style-type: none"> • Static HTML content • CGI • Java applications (Java Servlets and JavaServer™ Pages (JSP™ Pages). The WebDAV and Search features are also enabled. <p>This offering can be deployed on one or more computers.</p>	No. You provide and deploy content.
Sun Java System Application Server	<p>Provides a Java 2 Platform, Enterprise Edition (J2EE™) 1.4 platform infrastructure for web content. This offering uses Application Server as the content server. Application Server supports:</p> <ul style="list-style-type: none"> • Static HTML content • CGI • Java applications (Java Servlets and JSP Pages) • Server-side Java applications <p>This offering can be deployed on one or more computers.</p>	No. You provide and deploy content.
Web Proxy Services	<p>Provides a secure infrastructure for web content, using proxy services to secure the content server. This offering can use either Web Server, Application Server, or an existing web service as the content server. The type of content supported depends on the content server.</p> <p>If you deploy the proxy service using an existing web service as the content server, you need only one computer. If you deploy a content server as part of this offering, you need two computers, one for the content server and one for the proxy server.</p>	No. You provide and deploy content.

Table 1-1 Java WIS EZOfferings (*Continued*)

Offering	Benefits	Includes Sample Application?
Secure Web Infrastructure	<p>Provides a secure infrastructure for web content, using proxy services to secure the content server and access management services to control access to web content. This offering uses Application Server as the content server. Application Server supports:</p> <ul style="list-style-type: none"> • Static HTML content • CGI • Java applications (Java Servlets and JSP Pages). The WebDAV and Search features are also enabled. • Server-side Java applications <p>This offering uses Web Proxy Server as the proxy server. This offering also uses Access Manager and Directory Server for access management.</p> <p>This offering must be deployed on at least two computers, one for the web container, Access Manager, and Directory Server, and the second for the proxy service.</p>	No. You provide and deploy content.

The EZOffering provides the following two modes for installing and deploying the offerings:

- the Fastplay deployment mode
- the Advanced deployment mode

These deployment modes are described in the following sections.

The Fastplay Deployment Mode

The Fastplay deployment mode is intended for your evaluation of Java WIS. The Fastplay deployment mode deploys Java WIS core components and a sample application with the minimum of user interaction. Immediately after the Fastplay deployment is complete, you can log in to the sample application and evaluate Java WIS features, including access control. The main characteristics of the Fastplay deployment mode are the following:

- the Fastplay offering is a single computer deployment
- the Fastplay offering can only be deployed on X64/X86 architectures (the Fastplay option is not available on SPARC hardware)
- the Fastplay offering can only be deployed on computers with attached screen and keyboard (the Fastplay option cannot be deployed on remote computers)
- the Fastplay offering provides only one deployment architecture (described in [“EZOffering #0: Fastplay Enterprise Web Services” on page 15](#))

The Advanced Deployment Mode

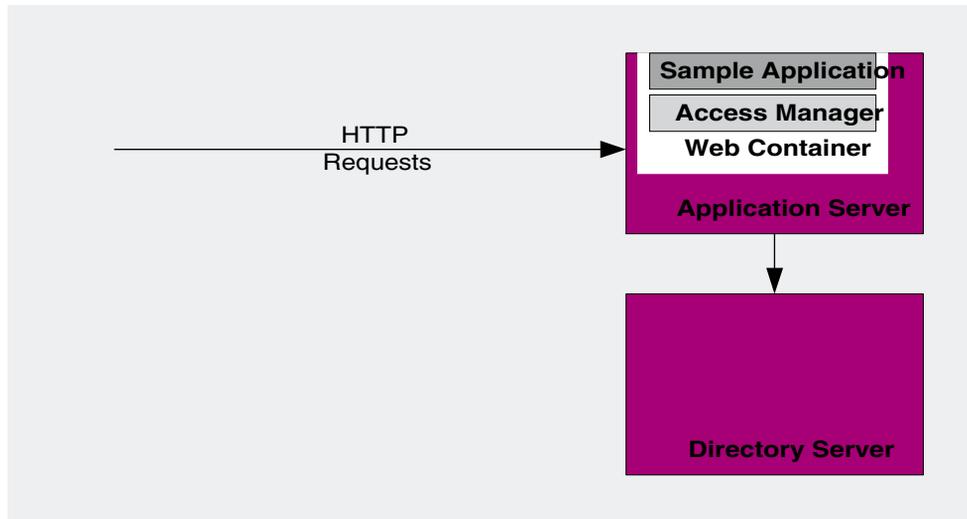
The Advanced deployment mode is more flexible than the Fastplay deployment mode. The Advanced deployment mode is for system administrators who want to deploy a production web infrastructure and then deploy their own content to that infrastructure. The main characteristics of the Advanced mode are:

- the Advanced offerings can be deployed on one or more computers
- the Advanced offerings can be deployed on both X64/X86 and SPARC architectures
- the Advanced offerings can be deployed on computers with attached screen and keyboard and on remote computers
- the Advanced offerings are more flexible in their network settings than the Fastplay offering
- the Advanced offerings include a variety of deployment architectures (described in [“EZOffering #1: Origin and Content Server” on page 17](#), [“EZOffering #2: Server-side Java Applications” on page 17](#), [“EZOffering #3: Web Proxy Services” on page 18](#), and [“EZOffering #4: Secure Web Infrastructure” on page 20](#))

The EZOffering deployment architectures are described in the following sections.

EZOffering #0: Fastplay Enterprise Web Services

The Fastplay offering deploys the architecture illustrated in [Figure 1-1](#). The Fastplay offering can only be deployed on a single computer.

Figure 1-1 EZOffering #0 Fastplay Architecture

The Fastplay deployment includes Application Server, Access Manager, Directory Server, and a sample enterprise web application. The sample application is a business portal for an imaginary company named Adventure Sports Café. [Figure 1-1](#) shows the sample application running in Application Server's web container. The sample application is an HTTP-only application, but Application Server is J2EE 1.4 platform compatible, and this set of components is capable of delivering web services and server-side Java applications.

As soon as you complete the Fastplay deployment, you can log in to the sample application and see how the components interoperate to provide reliable HTTP services and secured access to the sample application.

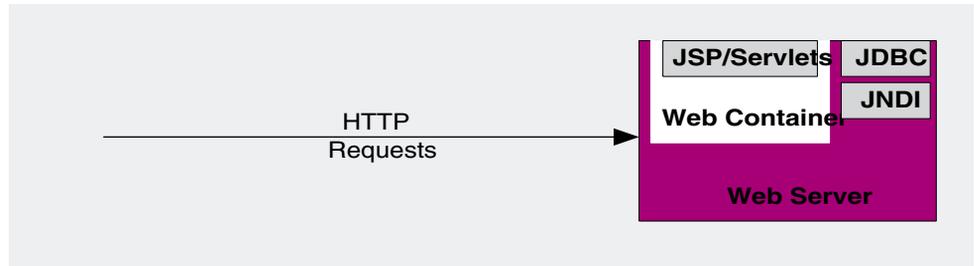
When you log in to the sample application, Access Manager prompts you for a user name and password. When you supply a user name and password, Access Manager uses Directory Server's repository of identity profiles and access privileges to validate your login request.

You can log in to the Access Manager console to add new users and modify the privileges of existing users. You can also log in to the Application Server Administration Console to see the deployed instances of Access Manager and the sample application.

EZOffering #1: Origin and Content Server

The Origin and Content Server offering uses Web Server as the content server, and it provides basic infrastructure for reliable HTTP services. The architecture is illustrated in [Figure 1-2](#).

Figure 1-2 EZOffering #1 Origin and Content Server Architecture



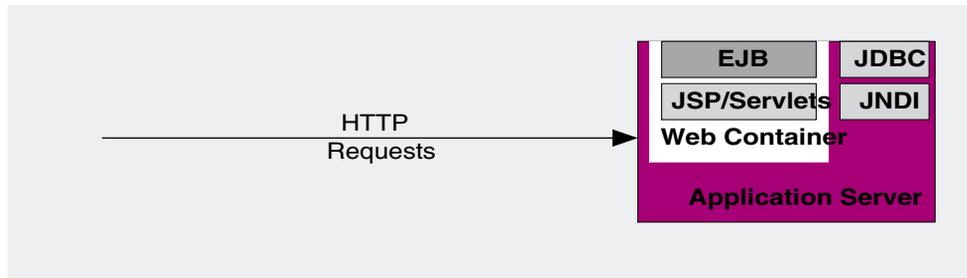
This architecture uses Web Server to deliver content that you supply. As part of the EZOffering deployment process, you can configure Web Server for the following types of content:

- **Basic Configuration** for static HTML content.
- **Extended Configuration** for static HTML content and CGI content. The WebDAV (Web-based Distributed Authoring and Learning) feature is also configured.
- **Advanced Configuration** for static HTML content, CGI and Java applications (Java Servlets and JSP Pages). The WebDAV and Search features are also configured.

The minimum number of computers required for this offering is one. You can scale this offering by deploying the offering on additional computers, with each computer running one instance of Web Server.

EZOffering #2: Server-side Java Applications

The Server-side Java Applications offering uses Application Server as the content server, and it provides a high-performance, J2EE 1.4 platform compatible infrastructure for web content and server-side Java applications. The architecture is illustrated in [Figure 1-3](#).

Figure 1-3 EZOffering #2 Server-side Java Applications Architecture

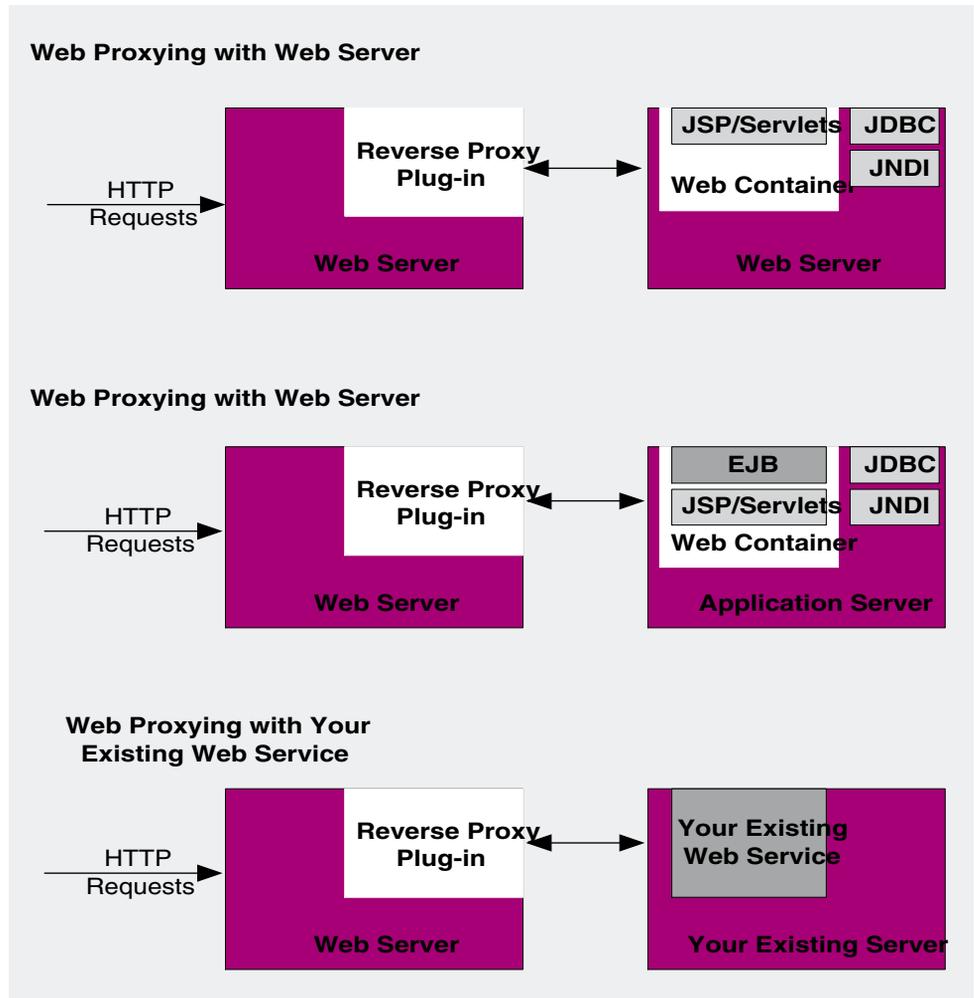
This architecture uses Application Server to deliver content that you supply. Application Server supports, among others, the following types of content:

- Static HTML content.
- CGI content. The WebDAV (Web-based Distributed Authoring and Learning) feature is also configured.
- Java Servlets and JSP pages.
- Enterprise JavaBeans™ (EJB™ component architecture).

The minimum number of computers required for this offering is one. You can scale this offering by deploying the offering on additional computers, with each computer running one instance of Application Server.

EZOffering #3: Web Proxy Services

The Web Proxy Services offering combines a content server and a secure proxy server to create a secure infrastructure for web content. The architecture for this offering has three related variations, which are illustrated in [Figure 1-4](#). When you deploy the Web Proxy Services offering, you select one of these variations.

Figure 1-4 EZOffering #3 Web Proxy Services Architecture

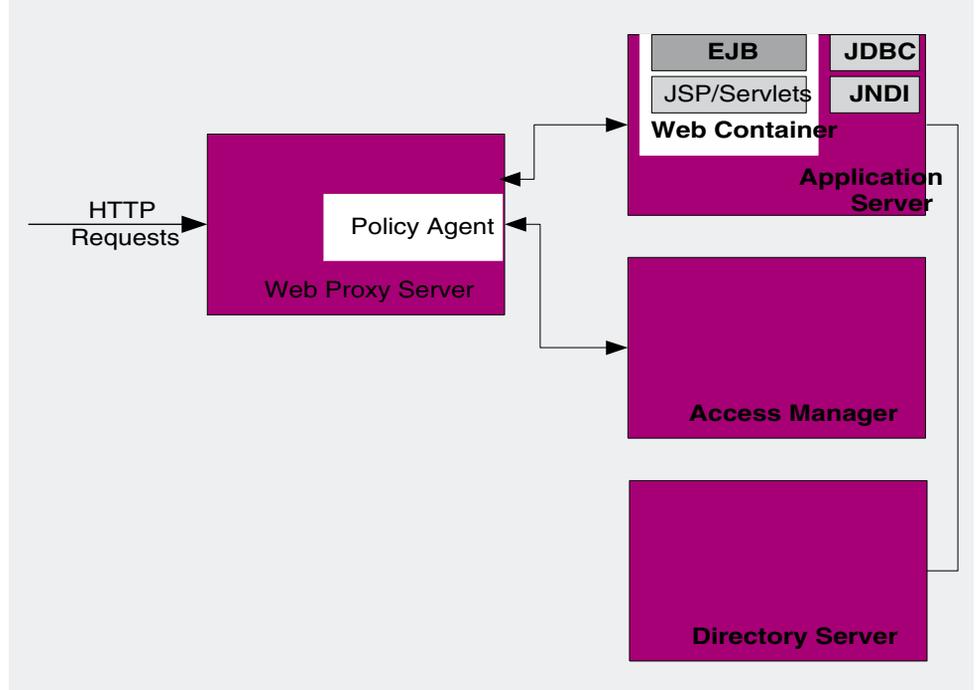
The architecture uses Web Server's Reverse Proxy Plug-in to provide a layer of indirection between the user and the web content server. Users submit their HTTP requests to the Reverse Proxy Plug-in, which is running on one computer; the Reverse Proxy Plug-in redirects the request to the actual application, which is running on another computer. The actual application remains invisible to the user. As illustrated in [Figure 1-4](#), EZOffering can deploy three variations of this architecture:

- **Web Proxying with Web Server.** EZOffering deploys Web Server configured with the reverse proxy plug-in on one computer and another instance of Web Server configured as the content server on a second computer. You use two computers for this variation.
- **Web Proxying with Application Server.** EZOffering deploys Web Server configured with the reverse proxy plug-in on one computer and an instance of Application Server as the content server on a second computer. You use two computers for this variation.
- **Web Proxying with your existing web service.** EZOffering deploys Web Server configured with the reverse proxy plug-in on one computer. When you deploy, you specify an existing web service or web application that is already running on a second computer as your content server, and EZOffering configures the reverse proxy plug-in to proxy for your existing web service or web application. You deploy the EZOffering on one computer, in conjunction with an existing web service or web application that is already running on a second computer.

Depending on the variation you select, this architecture uses Application Server, Web Server, or your existing server product to deliver content that you supply. Choose the variation that supports the type of content you want to serve.

EZOffering #4: Secure Web Infrastructure

The Secure Web Infrastructure Offering combines a content server with a web proxy server and access management to create a highly secure infrastructure for web content. The architecture for this offering is illustrated in [Figure 1-5](#).

Figure 1-5 EZOffering #4 Secure Web Infrastructure Architecture

The architecture combines the following components and features:

- **Application Server** provides a reliable HTTP delivery service, supporting a wide range of content types.
- **Web Proxy Server** provides a proxy service that protects your web services and applications from direct exposure to users.
- **Access Manager** controls access to the web-based applications deployed on Application Server.
- **Directory Server** provides a central repository for storing, managing, and protecting identity profiles and access privileges, as well as information about applications and network resources.

The minimum number of computers required for this offering is two; one for Web Proxy Server, and the second for all other components. For better performance, you can deploy Directory Server separately on a third computer.

The Fastplay Offering

This chapter describes the Fastplay offering, which deploys the core components of Java WIS on one computer for you to evaluate the suite. This chapter contains the following sections:

- [“Deploying the Fastplay Offering” on page 23](#)
- [“Evaluating the Fastplay Offering” on page 27](#)

You can deploy the Fastplay offering with a few clicks. The Fastplay deployment is only available for x64 and x84 architectures, and only on computers with attached monitor and a keyboard.

If you want to perform the evaluation on SPARC hardware, use the advanced installation mode and choose offering #0. For more information, see [“The Advanced Offerings” on page 35](#).

Deploying the Fastplay Offering

To deploy the Fastplay offering, you perform the following procedures:

1. **Installing the Fastplay offering.** This procedure installs the Solaris™ 10 Operating System (OS) and all the Java WIS component packages.

CAUTION The EZOffering installation procedure installs the Solaris 10 OS on your selected disk, and all information on the disk (your current OS and your data) will be lost.

2. **Deploying the Fastplay offering.** This procedure configures and then starts the Java WIS components used in the offering.

EZOffering guides you through the installation and deployment procedures, which are described in the following sections.

► **To Install the Fastplay Offering**

CAUTION The EZOffering installation procedure installs the Solaris 10 OS on the disk you select; all information on the disk (your current OS and your data) will be lost.

1. Insert the EZOffering DVD into the computer on which you want to deploy the Fastplay offering.

The DVD contains a Solaris 10 OS installation program.

2. The installation program opens a menu that allows you to choose a deployment mode. This menu contains the following options:

```
EZO WIS (S10U1+JES4) -> FASTPLAY
```

```
EZO WIS (S10U1+JES4) -> ADVANCED screen/keyboard/mouse
```

```
EZO WIS (S10U1+JES4) -> ADVANCED remote console (ttya)
```

```
EZO WIS (S10U1+JES4) -> ADVANCED remote console (ttyb)
```

3. Choose Fastplay.

The installation program attempts to detect any network settings you may have (by using network information obtained from a DHCP server). If the installation program detects any network settings, it configures the computer with the detected domain name.

NOTE

If the installation program is unable to detect any network settings, it configures the computer in standalone mode on your behalf, with the following settings:

- Hostname: **fastplay**
 - Domain name: **ezo.com**
 - Root Password: **welcome**
-

4. The installation program opens another menu, which allows you to choose the installation mode. Press 2 to choose the default installation mode (Custom Jumpstart (default)), or wait for the 30 second timeout.

5. The installation program tests the video hardware and displays a proposed windowing system configuration. Press Enter to accept the recommended configuration (or wait for the 30 second timeout).
6. The installation program reminds you that it will erase all information on the disk and prompts you to confirm that you willing to erase the disk. Enter Y to start the extraction process.

NOTE If the computer has more than one disk, the installation program prompts you to choose the disk on which the Java WIS Fastplay option is installed.

The installation program extracts the DVD data to the disk.

TIP Depending upon your DVD reader's speed, the extraction process may take some time (around 30 minutes). Please be patient.

7. When the installation program completes the extraction process, the DVD is ejected. Depending upon the hardware you are using, the installation program might prompt you to press Return. Remember that the root password of the system is `welcome`.
8. The computer reboots. Wait for the reboot to complete.
9. When the computer reboots it launches Java Desktop System and opens the Java Desktop System Welcome screen. You are automatically logged in as `root`.
10. The EZOffering Fastplay Deployment wizard opens. The Fastplay Deployment wizard guides you through the deployment phase.

➤ **To Deploy the Fastplay Offering:**

1. When the installation procedures is complete the Solaris 10 OS login page is displayed. Log in using the following user account:
 - User: **root**
 - Password: **welcome**
2. The deployment wizard opens the EZOffering Java Web Infrastructure Suite Welcome page. Click Next.
3. The deployment wizard displays the computer's hostname (configured by Fastplay installation process). Click Confirm.

4. The deployment wizard opens the licensing agreement. Read the licensing agreement. Enter Yes to accept the licensing agreement.
5. The deployment wizard opens the EZOffering Welcome screen. Click Next.
6. The deployment wizard opens the Licensing Agreement page. Click Next to accept the licensing agreement.
7. The deployment wizard prompts you for the Java WIS administration password. This password is the administration password for all the components in the offering you are deploying. The password must be more than 8 characters long. Enter the password and click Next.

CAUTION Record your password. You will need the password to log into your deployed components.

8. The deployment wizard opens the Ready To Deploy page. Click Next to begin the deployment.

The deployment wizard displays a monitoring GUI that allows you to track the progress of the deployment.

TIP Some of the deployment steps might take some time (10 - 30 minutes); please be patient.

9. When the deployment wizard completes the deployment process, it highlights the Next button. When the Next button is highlighted, click Next.
10. The deployment wizard opens the Finish page. Click Finish to terminate the wizard.

EZOffering opens a web browser window that displays the welcome page for the Fastplay offering.

You can continue with the evaluation procedures.

Evaluating the Fastplay Offering

This section describes a number of procedures you can follow to evaluate Java WIS features. When you follow these procedures you experience the Java WIS EZOffering deployment from several points of view: as an end user, as a system administrator who manages user accounts, and as a senior system administrator who manages the Java WIS infrastructure.

Experiencing the Java WIS Infrastructure as an End User

The procedures in this section demonstrate how Access Manager, a component of Java WIS, secures access to the sample application by requiring a user name and password to access the sample portal application.

The procedures in this section also demonstrate how Java WIS infrastructure can provide custom content for different users.

► To Log in into the Adventure Sports Cafe Application

In this procedure, you log in to the sample application twice, using two different user names. The user accounts were created by the Fastplay deployment. You see the interoperation between the content server and Access Manager. You also see that the portal content is customized for each user.

1. The URL for the EZ offering #0 Fastplay Welcome page is the following:

`http://<machine name>/ezo/welcome.html`

If the Welcome page is not already open in your web browser, open it now.

2. In the Welcome page, click Access the Adventure Sports Cafe.

The Adventure Sports Cafe home page opens.

3. Using the fields in the upper right corner of the page, log into the Adventure Sports Cafe. Type the following values:

User Name: **mary**

Password: **ascsample**

Click Log In. The Home tab displays content that is available to all users.

4. Explore the content on the Home tab; click any links that interest you.

5. Click the MyPortal tab.

This tab displays content that is customized for the user. Notice that Mary Manager's Project List has three items: Public Outreach, Australia Expansion, and New Customer Tours.

6. Click Logout.

7. Log into the Adventure Sports Cafe a second time. Type the following values:

username: **chris**

password: **ascsample**

Click Log In.

8. Click the MyPortal tab.

Notice that Chris Content-Editor's Project List has only two items: Public Outreach and New Customer Tours. This demonstrates the Java WIS infrastructure's ability to customize content for individual users.

9. Click Logout.

► To Observe Single Sign-on (SSO)

1. The URL for the EZ offering #0 Welcome page is the following:

`http://<machine name>/ezo/welcome.html`

If the Welcome page is not already open in your web browser, open it now.

2. In the Welcome page, click Access the Adventure Sports Cafe.

The Adventure Sports Cafe home page opens.

3. Using the fields in the upper right corner of the page, log into the Adventure Sports Cafe. Type the following values:

User Name: **mary**

Password: **ascsample**

Click Log In. Do not log out.

4. In a new web browser window, open the Welcome page.

5. In the Welcome page, click Manage Your Access Manager.

The Access Manager user maintenance page for Mary Manager is displayed. Mary maintains her basic user data on this page. Mary can even change her own password on this page.

Notice that you were not prompted to log in to Access Manager. The Fastplay deployment is configured for single sign-on between the Adventure Sports Cafe and Access Manager. When you logged in to Adventure Sports Cafe as Mary Manager, information about your session was stored in a web browser cookie. When you clicked Manage Your Access Manager, the information in the cookie authenticated you to Access Manager (which is just another web application).

6. You can use the View menu to display additional information about Mary.
7. In the Access Manager window, click Logout.
8. In the Adventure Sports Cafe window, click Logout.

Experiencing Java WIS as a System Administrator

The procedures in this section demonstrate how a system administrator uses Access Manager to manage user accounts and control access to the content delivered by the Java WIS infrastructure.

► To Create a New User

This procedure describes how a system administrator creates a new user account.

Before beginning this procedure, verify the proxy settings on your web browser. The setting for the local domain should be “no proxy.”

You should also use your web browser’s settings to delete all cookies.

1. The URL for the EZ offering #0 Fastplay Welcome page is the following:

`http://<machine name>/ezo/welcome.html`

If the Welcome page is not already open in your web browser, open it now.

2. In the Welcome page, click Manage Your Access Manager.

The Access Manager log in page is displayed.

3. Log in as the Access Manager administrator. Type the following values:
username: **amadmin**
password: the Java ES password you supplied during the deployment phase
Click Log In. Access Manager displays a page that lists the currently defined organizations. In the left pane, notice that the View menu is set to Organizations.
4. In the left pane, below the View menu, locate the list of organizations. Click adventuresportscafe.com.
The page is refreshed. Notice that the left pane's heading now indicates that the page is displaying information for adventuresportscafe.com.
5. In the View menu, select Users.
The page is refreshed; it displays a list of the users already defined for adventuresportscafe.com.
6. Click the New button.
The page is refreshed; the right pane displays fields for defining a new user.
7. In the right pane, locate the list of Available Services.
These Access Manager services control access to the Adventure Sports Cafe portal. These services were configured during the Fastplay deployment process.
8. Select all three services by checking the corresponding boxes.
Click Next. The page is refreshed; the right pane displays Required User Attribute fields for defining a new user.
9. Type in values for the user you want to create.
Click the Finish button.
10. In the upper right hand corner, click Save.
11. Click Logout.

➤ **To Verify the New User.**

1. The URL for the EZ offering #0 Fastplay Welcome page is the following:
`http://<machine name>/ezo/welcome.html`
If the Welcome page is not already open in your web browser, open it now.

2. In the Welcome page, click Access the Adventure Sports Cafe.
The Adventure Sports Cafe home page opens.
3. Using the fields in the upper right corner of the page, log into the Adventure Sports Cafe. Type the following values:
User Name: *<your_new_username>*
Password: *<your_new_password>*
Click Log In. The Home tab displays content that is available to all users. This confirms that you successfully created the new user.
4. Click Log Out.

► **To Deactivate and Reactivate a User Account**

This procedure demonstrates some of the Access Manager features for authenticating and authorizing web service users.

1. The URL for the EZ offering #0 Fastplay Welcome page is the following:
`http://<machine name>/ezo/welcome.html`
If the Welcome page is not already open in your web browser, open it now.
2. In the Welcome page, click Manage Your Access Manager.
The Access Manager log in page is displayed.
3. Log in as the Access Manager administrator. Type the following values:
username: **amadmin**
password: the Java ES password you supplied during the deployment phase
Click Log In. Access Manager displays a page that lists the currently defined organizations. In the left pane, notice that the View menu is set to Organizations.
4. In the left pane, below the View menu, locate the list of organizations. Click adventuresportscafe.com.
The page is refreshed. Notice that the left pane's heading now indicates that the page is displaying information for adventuresportscafe.com.
5. In the View menu, select Users.
The page is refreshed; it displays a list of the users defined for adventuresportscafe.com.

6. Locate the user you created in the preceding procedure. Click the arrow (>) that follows the user's name. The page is refreshed and the user information is displayed in the right pane.
7. In the right pane, locate the User Status menu; open the menu and choose Inactive.
8. In the upper right corner, click Save.
9. Click Logout.
10. The URL for the EZ offering #0 Fastplay Welcome page is the following:
`http://<machine name>/ezo/welcome.html`
If the Welcome page is not already open in your web browser, open it now.
11. In the Welcome page, click Access the Adventure Sports Cafe.
The Adventure Sports Cafe home page opens.
12. Using the fields in the upper right corner of the page, log in to the Adventure Sports Cafe. Type the following values:
User Name: <your_new_username>
Password: <your_new_password>
Click Log In.
13. Your log in attempt is rejected and you are re-directed to the Access Manager page with the following message:
The user is not active
14. To reactivate your user, repeat [Step 1-Step 9](#), and change the user status from Inactive to Active.
15. Click Log out.

For more information on Access Manager see *Sun Java System Access Manager 7 2005Q4 Administration Guide* (<http://docs.sun.com/app/docs/doc/819-2554>), and other documents in the Sun Java System Access Manager 7 2005Q4 documentation collection (<http://docs.sun.com/app/docs/coll/1292.1>).

Experiencing Java WIS as an Application Administrator

► To Log in to the Application Server

This procedure demonstrates logging in to the Application Server Administration Console and using the console to manage your deployed web applications.

1. The URL for the EZ offering #0 Fastplay Welcome page is the following:

```
http://<machine name>/ezo/welcome.html
```

If the Welcome page is not already open in your web browser, open it now.

2. In the Welcome page, click Manage Your Application Server.

Accept the certificate given (notice that you are opening an HTTPS connection). The Application Server log in page is displayed.

3. Log in as the Application Server administrator. Type the following values:

username: **admin**

password: the Java ES password you supplied during the deployment phase

Click Log In. The Application Server Administration Console main page is displayed.

4. In the left pane, locate the node for Applications. Click the arrow (>) to the left of the Applications node.

The node expands and displays a list of application types.

5. In the left pane, click Web Applications.

The right pane displays a table of Deployed Web Applications. These applications are the web applications deployed on the Application Server instance.

- Notice that Access Manager is represented by the amcommon, amconsole, ampassword, and amserver applications.
 - Notice that the Adventure Sports Cafe sample application is represented by the portal and portletsamples applications.
 - Notice the controls for administrative tasks such as starting and stopping the server and viewing server log files.
6. To view detailed information about an application, locate the Application Names column and click the application's name.

7. In the left pane, click Stand-alone Instances.

The right pane displays a list of Application Server instances installed on the computer. You should see only one instance, named server.

8. Locate the Name column and click server.

The right pane displays detailed information about the server instance. Notice that the General tab is selected.

9. Click the Applications tab.

The right pane displays a list of applications deployed to the server instance.

10. Click the General tab.

Notice the controls for administrative tasks such as starting and stopping the server and viewing server log files.

11. When you have finished exploring the Application Server Admin Console, click Logout.

For more information on the Application Server Admin Console see *Sun Java System Application Server Enterprise Edition 8.1 2005Q2 Administration Guide* (<http://docs.sun.com/app/docs/doc/819-2554>), and other documents in the Sun Java System Application Server Enterprise Edition 8.1 2005Q2 documentation collection (<http://docs.sun.com/app/docs/coll/1310.1>).

The Advanced Offerings

This chapter describes how to use EZOffering to deploy the Advanced offerings. This chapter contains the following sections:

- [“Gathering the Required Information” on page 35](#)
- [“Deploying an EZOffering in Advanced Mode” on page 36](#)
- [“Using the Deployed Offering” on page 40](#)

Gathering the Required Information

Before you begin your Java EIS EZOffering Advanced deployment, ensure you have the correct number of computers for the offering you have chosen to deploy. [Table 3-1](#) lists the number of computers needed for each Advanced offering.

Table 3-1 Computers required for Advanced offerings

Offering	Number of computers <min> - <max>
#0 Fast Play Enterprise Sample Portal	1
#1 Origin/Content Servers	1 - n
#2 Server-side Java Applications	1 - n
#3 Web Proxy Services with Web Server	2
#3 Web Proxy Services with Application Server	2
#3 Web Proxy Services with existing server	1
#4 Secure web Infrastructure	2 - 3

To successfully deploy an Advanced offering, you must collect the information to be supplied during the deployment process. You need the following information:

- The hostname, domain name, and IP address of each computer that you are using in the deployment.
- An administration password that is used for all the deployed components. Your password must have a minimum of 8 characters.
- If you are deploying the offering on a remote computer, you need the DISPLAY environment variable setting of the computer you are working at.

After you gather this information you are ready to install and deploy your Advanced offering.

Deploying an EZOffering in Advanced Mode

To deploy an Advanced offering, you perform the following procedures:

1. **Installing the Advanced offering.** This procedure installs the Solaris™ 10 Operating System (OS) and the Java WIS component packages.

CAUTION The installation procedure installs the Solaris 10 OS on your selected disk, and all information on the disk (your current OS and your data) will be lost.

NOTE If the offering you chose is to be distributed among multiple computers, you must repeat the installation procedure on every computer you are using in the deployment.

2. **Deploying the Advanced offering.** This procedure configures and starts the Java WIS components used in the offering.

EZOffering guides you through the installation and deployment procedures, which are described in the following sections.

➤ **To Install an EZOffering in Advanced Mode**

1. Insert the EZOffering DVD into the computer on which you are deploying the offering.

The DVD contains a Solaris 10 OS installation program.

2. The installation program opens a menu that allows you to choose a deployment mode. This menu contains the following options:

```
EZO WIS (S10U1+JES4) -> FASTPLAY
```

```
EZO WIS (S10U1+JES4) -> ADVANCED screen/keyboard/mouse
```

```
EZO WIS (S10U1+JES4) -> ADVANCED remote console (ttya)
```

```
EZO WIS (S10U1+JES4) -> ADVANCED remote console (ttyb)
```

Choose the Advanced option that describes the computer on which you are installing Java WIS. For example, if you are installing on a computer with monitor and keyboard attached, choose `ADVANCED Screen/Keyboard/Mouse`. If you are installing on a remote, networked computer with a console already configured, choose either `ADVANCED Remote Console (ttya)` or `ADVANCED Remote Console (ttyb)`.

3. The installation program opens another menu, which allows you to choose the installation mode. Press 2 to choose the default installation mode (Custom Jumpstart (default)), or wait for the 30 second timeout.
4. The installation program prompts you for the following information:
 - o Language
 - o Network settings (hostname, domain name, IP address)
 - o Root password
 - o Date and region

Type the information you gathered earlier.

NOTE

EZOffering detects and displays any information that it retrieves from your network (from DHCP). You decide whether to use the information detected by EZOffering or to specify your own network settings.

5. The installation program displays a licensing agreement. Read the licensing agreement. Type Yes to accept the agreement.
6. The installation program reminds you that it will erase all information on the disk and prompts you to confirm that you willing to erase the disk. Type Y to erase the disk and begin the extraction process.

NOTE If the computer has more than one disk, the installation program prompts you to choose the disk on which your Java WIS EZOffering is installed.

The installation program extracts the DVD data to the disk.

TIP Depending upon your DVD reader's speed, the extraction process may take some time (around 30 minutes). Please be patient.

7. When the installation program completes the extraction process, the DVD is ejected. The computer is automatically rebooted. Remove the DVD from the DVD reader and wait for the computer to reboot

CAUTION If you choose a disk that is not the primary boot disk, you must update your system's BIOS before you reboot.

8. Repeat [Step 1](#) through [Step 7](#) on every computer used in the deployment.

➤ **To Deploy an EZOffering in Advanced Mode:**

After you complete the installation procedure on every computer used in the deployment, you can deploy the Java WIS components.

The Java WIS EZOffering Advanced deployment mode provides a command line script that deploys your offering. You run this script on only one of the computers in the deployment topology. This computer controls the entire deployment process. This computer is referred to as the orchestration node. Choose your orchestration node before you begin the deployment procedure.

The procedure for running the deployment script varies, depending on whether you run the script on an orchestration node that has a monitor and keyboard attached, or whether you run the script from a remote computer.

If you are running the deployment script from a remote computer, begin the deployment procedure at [Step 1](#). If you are running the deployment script on an orchestration node with attached keyboard and monitor, begin the deployment procedure at [Step 5](#).

1. Remote log in to your orchestration node.

```
$ rlogin -l root <orchestration node hostname>
password: <provide password>
```

2. On the local computer you are working from, run the following command to disable access control for Xserver display.

```
$ xhost +
```

This makes it possible for you to view the GUI for the deployment script that you run on the orchestration node.

3. On your local computer, retrieve the DISPLAY environment variable setting

```
$ echo $DISPLAY
```

4. On the remote orchestration node, set the DISPLAY environment variable to that of your local desktop.

```
# export DISPLAY=<local desktop hostname>:0.0
```

5. On the orchestration node, launch the EZOffering deployment script for Java WIS. This is an interactive script that guides you through the deployment process.

```
# /opt/SUNWezo/depoy/WIS/wis-deploy.pl
```

6. Follow the interactive instructions provided by the script. Choose the offering you wish to deploy. Type the following information:

- o host information
- o administration password

Once you enter all the information, the script automatically starts the deployment.

7. The deployment process opens the graphical Monitoring Tool on your desktop. The Monitoring Tool provides a visual display showing the progress of the deployment.

TIP

Some of the deployment steps may take some time (10 to 30 minutes), depending upon the specification of the computer. Please be patient.

8. The EZOffering deployment process also validates that the deployed components are up and running. When all the icons go green, the deployment has successfully finished.

You are now ready to use the deployed offering.

Using the Deployed Offering

► To Review the Deployed Components

After you complete the Advanced deployment procedure, you can view the EZOffering Welcome page and review the administrative interfaces for your deployed components.

1. The URL for the EZ offering Welcome page is the following:

`http:<fully qualified hostname>:<port>/ezo/welcome.html`

If the Welcome page is not already open in your web browser, open it now.

2. The EZOffering welcome page provides links to the administrative interfaces for the Java WIS components you deployed. To log in to a components, click the appropriate link and log in with the administrator user names. The default administrator names are as follows:

- for Application Server, user name: `admin`
- for Web Server, user name: `admin`
- for Web Server as a proxy, user name: `admin`
- for Access Manager, user name: `amadmin`

The password for all of these administrator accounts is the password you supplied during the deployment process.

3. The Welcome page also provides some interesting links to documentation, communities and tools.

► To Deploy Web Content

To make use of your Java WIS infrastructure you need to deploy some content. The procedure depends on the content server you selected. For more information see the following documentation:

- For information on Application Server see *Sun Java System Application Server Enterprise Edition 8.1 2005Q2 Administration Guide* (<http://docs.sun.com/app/docs/doc/819-2554>), and other documents in the Sun Java System Application Server Enterprise Edition 8.1 2005Q2 documentation collection (<http://docs.sun.com/app/docs/coll/1310.1>).
- For information on Web Server see *Sun Java System Web Server 6.1 SP4 Administrator's Guide* (<http://docs.sun.com/app/docs/doc/819-0130>) and other documents in the Sun Java System Web Server 6.1 2005Q4 SP5 documentation collection (<http://docs.sun.com/app/docs/coll/1308.1>).
- For information on Web Proxy Server see *Sun Java System Web Proxy Server 4.0.1 2005Q4 Administration Guide* (<http://docs.sun.com/app/docs/doc/819-3650>), and other documents in the Sun Java System Web Proxy Server 4.0.1 2005Q4 documentation collection (<http://docs.sun.com/app/docs/coll/1311.1>).
- For more information on Access Manager see *Sun Java System Access Manager 7 2005Q4 Administration Guide* (<http://docs.sun.com/app/docs/doc/819-2554>), and other documents in the Sun Java System Access Manager 7 2005Q4 documentation collection (<http://docs.sun.com/app/docs/coll/1292.1>).

