Module 5



Basic Deployment

At the end of this module you will be able to:

- Describe the Web server capabilities of WebLogic Server
- ✓ Use static and dynamic deployment
- ✓ Work with the built-in WebLogic Server servlets
- ✓ Define and work with enterprise applications

Road Map



- **1. Web Servers**
 - Web Servers Defined
 - HTTP
 - Static and Dynamic Content
- 2. Web Applications
- 3. EJB Applications
- 4. Enterprise Applications
- 5. Deployment

The Role of Web Servers



- Web servers are responsible for handling HTTP requests from clients.
- Web servers typically return:
 - Static content (HTML pages, graphics, ...)
 - Dynamic content (Servlet, JSPs, CGIs, ...)







- Multipurpose Internet Mail Extensions (MIME) is a protocol for identifying and encoding binary data.
- All HTTP response data is encoded with a MIME content type.
- Browsers interpret HTTP response data differently depending upon the MIME type of the data:
 - HTML pages are parsed and displayed.
 - PDF documents can be sent to Adobe Acrobat.
 - Application code can be directly executed.

HTTP Status Codes



► HTTP status codes:

- Indicate to the client whether or not the request was successful
- Provide the client a reason for a failed request
- Are used by clients to provide alternate behavior

Indicating success:

The default status code is 200, which indicates success.

Reason for failure:

A status code of 404 tells the client the requested resource was not found.

Providing alternate behavior:

If a browser receives a 401 status code, the browser can prompt the user for an ID and password to login. WLS 10 is a full-featured Web server.





Static content documents are predefined on the server and do not change.

- WebLogic Server can be used to serve static content such as:
 - HTML documents
 - Images
 - PDF documents
- WebLogic Server can serve static documents:
 - Over standard HTTP
 - Through SSL using HTTPS





- Dynamic content documents may change based on the client's request.
- ► HTML documents can be created by using:
 - Servlets
 - JSPs
 - Common Gateway Interface (CGI) programs



In this section we discussed:

- ✓ The role of Web servers
- ✓ HTTP requests, responses, MIME types, status codes
- Serving static HTML, images and files
- Serving JSP and servlet requests



Road Map



1. Web Servers

2. Web Applications

- Web Applications
- Directory Structure and Deployment Descriptors
- Using the Console to Deploy Web Applications
- Monitoring Web Applications
- 3. EJB Applications
- 4. Enterprise Applications
- 5. Deployment



- A Web application is a group of server-side resources that create an interactive online application.
- Server-side resources include:
 - Servlets (small server-side applications)
 - JavaServer Pages (dynamic content)
 - Static documents (HTML, images)
 - Server-side classes
 - Client-side applets and beans

Packaging Web Applications

Before deploying an application package and registering it with a WLS server, follow these steps to package a Web App:

- 1. Arrange resources in a prescribed directory structure.
- 2. Develop web.xml Deployment Descriptor (or copy as required).
- 3. Develop weblogic.xml Deployment Descriptor (WLS-Specific).
- 4. Archive Web App into .war file using jar.
- 5. Deploy Web App onto WLS.
- 6. Configure Web App with WLS Administration Console.

Web Application Structure

The structure of Web applications is defined by the Servlet specification.

- ► A Web application can be either:
 - An archived file (.war file)
 - An expanded directory structure



Configuring Web Applications



- Web applications are configured through *deployment descriptors* web.xml and weblogic.xml which:
 - Define run-time environment
 - Map URLs to servlets and JSPs
 - Define application defaults such as welcome and error pages
 - Specify J2EE security constraints
 - Define work managers for applications
 - Set the context-root for the application

以上内容仅为本文档的试下载部分,为可阅读页数的一半内容。如 要下载或阅读全文,请访问: <u>https://d.book118.com/90812714202</u> 5006074