Smart Client, Data Store, Application and Enterprise Server Based Architecture

Lesson 10
Enterprise Server

Enterprise Data Source

- A back-end server associated with an enterprise server

- Data synchronizer enabling transfer of enterprise data at the back-end server to the destined device

- The server incorporating the required functions at various levels

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Integration with Backend Data sources

- A simple process, using open database connectivity (ODBC) or Java database connectivity (JDBC) drivers for direct database access

- May be a complex process, Integration to interface with more complicated systems, such as enterprise resource planning

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Enterprise Server

- A server that connects to enterprise centralized data server in an enterprise

- The centralized server holds most of the information about the enterprise

- Responds to the requests that are only from authenticated and authorised clients

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Sun Java System Web Server 6

- For large business applications
- Compatible with a number of operating systems
- Access manager provides a secure access to Web-based resources
- Include email service, security, file system, and session management

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Application services of Sun Web Server 6

- Session management entails starting a session, carrying out transactions during the session, and closing the session

- Runtime environment means a platform for running CGIs, Java Servlets, Perl or PHP

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Sun Java System Web Server 6

- Allows deployment of Cold Fusion

- Servlets

- JSPs (Java server pages)

- ASPs (active server pages)

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PHP

- A language for processing the text and preparing it in hypertext format and enables dynamic web pages

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Cold Fusion software

- To create pages by joining different entities, elements, and databases before a web server sends the response to the client

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Servlets

- Java classes at server side for processing the web page

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JSP

- A web page which connects to the databases and deploys codes, JavaScript codes, and Java components and directives and generates the response in HTML for the requesting clients

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ASP

- A web page which connects to the databases and deploys the JavaScript and Visual Basic scripts, codes, and directives and generates the response in HTML for the requesting clients

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Content Engine at Server

- A software layer (in- between software component)

- Publishes the Web application response

- The content engine, in other words, is a program, which uses the content sources at a server and drives them to the destination

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Content Engine Driver

- Sending, publishing, or generating response in a Web application so that the client gets the required contents at the destination

- The engine has three components—search engine, content management engine, and HTTP engine.

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Sun Java System Web Server 6 content engine

- A software layer (in between software component)

- For publishing the Web application response

- Uses the content sources at a server and drives them to the destination

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Sun Java System Web Server 6 content engine

- Driving means sending, publishing, or generating response in a web application so that the client gets the required contents at the destination

- The engine three components— search engine, content management engine, and HTTP engine

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Sun Java System Web Server 6 content management

- Maintains integrity of the client contents with the server. For example, a client has submitted a user ID, a password, and other client information to the server to enable it to get response contents. Integrity means the client information is used for client-specific application only.

Summary

- Sun Web Server 6

- Deployment of CGI (common gateway interface) scripts

- Content management

- IBM Web Sphere MQe for writing applications for messaging and queuing for mobile devices

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Summary

- Oracle Application server (AS) enables Web-based transactions with the databases

End of Lesson 10
Enterprise Server