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1. Consider an application for which security roles are being defined using the J2EE Authorization model as implemented by WebSphere. The application has a servlet, which should be made available only to WebSphere authenticated users. What are some of the steps necessary to provide this security? Assume the Application and Web Deployment Descriptor editors in WebSphere Studio Application Developer are being used.

- A. Make the servlet use an EJB which is protected by the appropriate security role.
- B. Define an appropriate security role in the web deployment descriptor.
- C. Add the security role to the servlet definition in the web deployment descriptor.
- D. Add the servlet as a web resource on a virtual host within WebSphere.
- E. Define method level permissions in the web deployment descriptor.

Answer: BC

2. The IBMCampusOnline.com enterprise application is used by students accessing it over the internet and by employees accessing it from the intranet. The business process steps are mapped to stateless session bean methods. The session beans MUST have a remote interface when they:

- A. are accessed from different JVMs
- B. are accessed by servlets
- C. are accessed by non-Java clients
- D. become part of the session bean pool

Answer: AC

3. While developing an EJB for an EJB 2.0 compliant server, a developer runs into a problem. Whenever the method `ejbContext.getUserTransaction()` is called, an `IllegalStateException` is thrown. Which of the following are possible causes for this behavior?

- A. The bean is an entity bean.
- B. The bean is a session bean.
- C. A transaction has not been started.
- D. Container-managed transaction demarcation is being used.

Answer: AD

4. Which of the following tasks MUST be completed before a JSP custom tag implementation class can be used in a JSP?

- A. The definition of the tag must be added to the tag library descriptor.
- B. The tag library URI must be specified in a `taglib` directive.
- C. Custom tags must be enabled in the web deployment descriptor.
- D. The mapping for the custom tag must be defined in the web deployment descriptor.
- E. The `taglib` module must be placed in the web application's `lib` directory.

Answer: AB

5. The following code fragment shows the creation of a session object within a `Servlet` (`request` is an object of type `HttpServletRequest`, `flag` is a boolean value):

```
HttpSession session = request.getSession(flag);
```

Which of the following statements are TRUE after this line of code has been executed?

- A. If `flag` is true, `session` always contains a reference to a new `HttpSession` object.
- B. If `flag` is true and no `HttpSession` object currently exists for this client, `session` contains a reference to a new `HttpSession` object.
- C. If `flag` is false and no `HttpSession` object currently exists for this client, `session` is null.
- D. If `flag` is false and no `HttpSession` object currently exists for this client, an exception is thrown.
- E. If `flag` is false, a new `HttpSession` object cannot be created because the session manager's maximum limits have been reached.

Answer: BC

6. A developer is writing a session bean which makes use of several entity beans to perform a task. The session bean must record the invocation of the task using a `LogEntry` entity bean. The log entry must be made regardless of the success of the task. What supports BEST this behavior?

- A. Provide two distinct operations on the session bean that would be invoked in sequence by the client code; one for creating the `LogEntry` and one for performing the task.
- B. Use 'RequiresNew' transaction attribute on the `LogEntry` bean to ensure that the creation of the `LogEntry` occurs on a separate transaction.
- C. Use 'Mandatory' transaction attribute on the `LogEntry` bean to ensure that the creation of the `LogEntry` occurs on a separate transaction.
- D. Have the task session bean invoke a `createLogEntry()` method on another session bean to ensure that the `LogEntry` is created outside

the task transaction.

Answer: B

7. A developer discovers that an exception being thrown from a business method on an entity bean does not cause the transaction to rollback; a rollback was expected. What would correct this problem?

- A. Ensure that the business method throws an instance of `javax.transaction.TransactionRolledbackException`.
- B. Ensure that the business method marks the current transaction for rollback by calling the `setRollbackOnly()` method on the `EJBContext`.
- C. Call `rollback()` on the current `UserTransaction` object.
- D. Call `rollback()` on the `EJBContext`.
- E. call `setRollbackOnly()` on the `UserTransaction` object.

Answer: B

8. A developer is designing an enterprise application in which a user will submit a form containing information about customer registration. This information needs to be stored in `CUSTOMER` and `ADDRESS` tables. All the EJBs will be deployed in the same server, different from the one for the Web application. What is the BEST way to improve the application's performance with the following components?

RegistrationServlet : Servlet

RegisterProcessor : session EJB

CustomerEJB : CMP Entity

EJB for CUSTOMER table AddressEJB : CMP Entity EJB for ADDRESS table

- A. RegistrationServlet invokes the remote view of the CustomerEJB and AddressEJB.
- B. RegistrationServlet invokes the local view of the CustomerEJB and AddressEJB.
- C. RegistrationServlet invokes the remote view of the RegisterProcessor and RegisterProcessor then invokes the remote view of the CustomerEJB and AddressEJB.
- D. RegistrationServlet invokes the remote view of the RegisterProcessor and RegisterProcessor then invokes the local view of the CustomerEJB and AddressEJB.

Answer: D

9. Refer to the exhibit to answer the question. The servlet filter, `IntegerFilter`, is used to retrieve a parameter from the HTTP request, convert it to an `Integer` object and store this object in the `HttpServletRequest` object for later use within a servlet. During stress testing the filter is found to mix up numbers obtained from different simultaneous requests. Which of the following is the BEST way to fix the problem?

- A. Make `theInteger` a local variable of the `doFilter` method.
- B. Synchronize the `doFilter` method of the filter class.
- C. Add `SingleThreadModel` to the implements clause of the class definition.
- D. Place the call to `setAttribute` in a synchronized block.

Answer: A

10. An `IBMCampusOnline.com` enterprise application retrieves and stores information about students and courses. Student and course entities are modeled as CMP entity beans. Students can see their courses and the tutor can see which students have enrolled in a course. To design the appropriate container-managed relationship:

- A. the CMP beans have to provide a local interface
- B. the CMP beans are to be declared in the same package
- C. the beans have to expose remote interfaces for servlet access
- D. foreign keys must exist on the appropriate database tables

Answer: AD

11. A developer of a self-service payroll application needs to connect to the payroll database. The name of the database is different in each of the development, staging and production environments. If the developer has to make the code portable across each of the environments, what is the BEST way to implement this?

- A. Create a property file for each of the environments and define a property called `"payroll_db"` which maps to the physical database. For each of the environments, publish the environment specific property file. In the application code use this property to connect to the database.
- B. Declare a resource reference called `"payroll_db"` in the deployment descriptor. While deploying the application in WebSphere, bind the resource to a JDBC Connection factory in the target environment. In the application code use the resource reference to retrieve a connection from the factory.
- C. Define a Web Application context parameter called `"payroll_db"`. While deploying the application in WebSphere, initialize this property with the name of the physical database in the target environment. In the application code use the Servlet API to lookup the value of the database and connect to it.
- D. Define an environment variable for the database name. Make the code choose a database name based on the environment variable.

Answer: B

12. A developer is writing a task() method, in a session bean, which makes use of several entity beans to perform a task. The session bean must record the invocation of the task using a LogEntry entity bean. The log entry must NOT be made if the task fails. Assume that the LogEntry bean is configured with 'Supports'. In order to GUARANTEE this behavior, the task() method of the session bean should be configured as:

- A. bean-managed transaction and explicitly begin an UserTransaction before creating the LogEntry instance and performing the task logic. Finally, have the task() method commit or rollback the transaction based on the success/failure of the task.
- B. 'Supports'. Within the task() method, create the LogEntry instance and perform the task logic. Finally, have the task method() call sessionContext.setRollBackOnly() if the task logic fails.
- C. 'RequiresNew'. Within the method, create the LogEntry instance and perform the task logic. Finally, have the task() method call sessionContext.setRollBackOnly() if the task fails.
- D. 'Mandatory'. Within the method, create the LogEntry instance and perform the task logic. Finally, have the task() method call sessionContext.setRollBackOnly() if the task fails.

Answer: AC

13. While testing the create method of a CMP entity bean using the Universal Test Client of IBM WebSphere Studio Application Developer, an exception is thrown. Which of the following are LEAST likely causes of this exception?

- A. The 'databaseName' attribute of the Data source in the Server Configuration is wrong.
- B. The 'JNDI Name' attribute of the Data source in the Server Configuration is wrong.
- C. The ejbCreate method does NOT have the code for setting the CMP fields.
- D. The ejbCreate method does NOT have the code for INSERT SQL statement.
- E. The ejbPostCreate method has NO code.

Answer: DE

14. Part of the "page template", to be returned to the browser as a result of executing a JSP, is HTML which is updated daily, e.g., a "Press Releases" section. This is BEST done using which of the following tags?

- A. <%@ forward file="/pages/press_releases.html" %>
- B. <%@ include file="/pages/press_releases.html" %>
- C. <jsp:include page="/pages/press_releases.html" />
- D. <jsp:forward page="/pages/press_releases.html" />

Answer: C

15. Which of the following happen when an enterprise application is published to server test environments in WebSphere Studio Application Developer, V5 ?

- A. The application projects are built.
- B. The application projects are rebuilt.
- C. The server configuration is copied to the server location.
- D. An enterprise application (EAR file) is exported to the local file system.

Answer: C

16. Customer and Address are BMP entity beans. The ejbCreate method for Customer is passed values for the properties of the Customer's address and it is necessary to ensure that an Address Entity is created as part of the same transaction that creates the Customer. Assuming the Address requires a reference to the Customer and there are no foreign key constraints enforced by the database, the BEST way to create the Address is to:

- A. Insert the Address data into the address table in the ejbCreate method of Customer.
- B. Insert the Address data into the address table in the ejbPostCreate method of Customer.
- C. Invoke the create() method of AddressHome from the ejbCreate method of Customer.
- D. Invoke the create() method of AddressHome from the ejbPostCreate method of Customer.

Answer: D

17. A production web application contains many servlets, each representing one operation, which a user can perform in the application. The developer responsible for the application finds that it is hard to maintain and provides few opportunities for reuse of classes. Which of the following would be the BEST way to address these shortcomings?

- A. Replace the many servlets with a single servlet and use objects implementing the Command design pattern to manage request processing.
- B. Relocate the business logic to reside in the servlet classes, to reduce the number of classes in the application.
- C. Add a single servlet to receive requests from the user and then use a rules-based mechanism for deciding which of the many servlets to forward the request to.
- D. Move the controller logic from the servlets to the JSPs, to reduce the number of addressable resources in the application.

Answer: A

18. Which of the following statements are TRUE with regard to setting the "Access Intent" attribute to "wsOptimisticRead" on methods of

an entity EJB?

- A. The `ejbStore` method ALWAYS gets called whenever any EJB method is called.
- B. The `ejbLoad` method gets called once in a transaction whenever the EJB methods are called.
- C. The `ejbStore` method does NOT get called whenever the EJB method is called.
- D. The `ejbStore` method gets called whenever the `ejbActivate` method is called.

Answer: BC

19. In order to access the `com.ibm.sample.EmployeeServlet` servlet, any of the following URLs can be used:

`http://www.sample.ibm.com/Emp/EmpSearch`

`http://employees.ibm.com/Emp/EmpSearch`

`http://employees.ibm.com/Emp/servlet/com.ibm.sample.EmployeeServlet`

Which statements must be TRUE based on this information?

- A. The "File serving enabled" attribute is set in the deployment descriptor of the web module.
- B. The web application context root is `/Emp`.
- C. The `servlet` path is `/Emp/EmpSearch`.
- D. The "Serve Servlets by classname" attribute is set in the WebSphere extension section of the web module deployment descriptor.
- E. The Virtual Host configuration contains an alias that maps to "employees.ibm.com".

Answer: BDE

20. While testing a message-driven bean, the following exception is thrown: `MQJMS2005:failed to create MQQueueManager for 'localhost:WAS_localhost_server1'` What is the BEST explanation for this?

- A. `ejb-jar.xml` file is not valid.
- B. The Queue resource was not started.
- C. The `MessageListener` interface is not implemented.
- D. The message is not sent to `MQQueueManager`.
- E. While parsing the message of `MQQueueManager`, the exception is thrown.

Answer: B

21. A developer must install an Enterprise Application in IBM WebSphere Application Server V5. What tools can be used to perform this task?

- A. `XMLConfig` command line utility.
- B. Web based administrative console (WebConsole).
- C. `SEAppInstall` command line utility.
- D. "wscc" command line utility.
- E. "wsadmin" command line utility.

Answer: BE

22. Given that the following JSP page directive has been defined in the JSP page, which implicit objects are available for use in JSP scriptlets and expressions?

```
(%@ page isThreadSafe="true" isErrorPage="true" errorPage="error.html" %)
```

- A. `request`
- B. `error`
- C. `page`
- D. `in`
- E. `out`

Answer: ACE

23. A Developer creates a new message-driven bean (MDB). What piece of configuration information MUST be provided to the deployer of the bean?

- A. The JNDI name of the destination.
- B. The name of the queue the bean listens to.
- C. The name of the listener port used by the MDB.
- D. The JNDI name of the connection factory used with the queue.

Answer: C

24. A servlet has saved an instance of a `com.ibm.ShoppingCart` bean to the session object. The shopping cart information has to be displayed using a JSP page. Which JSP tags would allow for accessing the bean from the JSP page?

- A. `<jsp:useBean id="cart" class="com.ibm.ShoppingCart" />`
- B. `<jsp:useBean id="cart" scope="session" class="com.ibm.ShoppingCart" />`
- C. `<jsp:useBean id="cart" scope="session" type="com.ibm.ShoppingCart" />`
- D. `<jsp:useBean id="cart" scope="request" type="com.ibm.ShoppingCart" />`

Answer: BC

25. While designing EJBs with WebSphere Studio V5 a developer decides that EJB inheritance would speed up the development of the enterprise beans. When subclassing the enterprise bean class which of the following rules MUST be obeyed?

- A. Define the inheritance according to EJB 2.0 specification
- B. Beans have to be defined in the same EJB module
- C. Use EJB inheritance only with CMP entity beans
- D. Subclassed beans share the parents primary key class

Answer: BD

26. In an enterprise application deployed in WebSphere Application Server, V5.0, if a Web module (WAR file) should access an EJB module, what is the BEST way for that Web module to reference the EJB interfaces and client stubs?

- A. Package the EJB interfaces and client stubs into a separate EJB Client JAR file and specify this JAR file in the MANIFEST Class-path of the Web module.
- B. Specify the EJB JAR file in the MANIFEST Class-path of the Web module.
- C. Package the EJB interfaces and client stubs into the Web module.
- D. Package the EJB and Web modules into an EAR file and specify EJB jar in the Class-path property of the EAR deployment descriptor.
- E. None of the above, as the classes in the EJB module are automatically made available to the Web module.

Answer: E

27. A servlet, which extends HttpServlet, needs to read various initialization parameters relating to a database, such as the database name, user ID and password. The servlet contains the following code to read the database.dbname parameter:

```
String dbname = getInitParameter("database.dbname");
```

Where MUST the value of this parameter be entered?

- A. In a file called database.properties, located in the WEB-INF directory within the web module.
- B. In a file called database.dbname.properties, located in the WEB-INF directory within the web module.
- C. In the web deployment descriptor for the web module, in an init-param element within the servlet element.
- D. In the web deployment descriptor for the web module, in an env-entry element.

Answer: C

28. Examination of the logs of a production web application have revealed that some servlets, which form part of an internal testing framework, are being invoked by external users, even though the test servlets are not mapped to URLs in the web.xml file. Which of the following would be the BEST way to fix this problem?

- A. Uncheck the "Serve servlets by classname" checkbox in the Extensions page of the Web Deployment Descriptor editor.
- B. Check the "Only serve mapped servlets" checkbox in the Servlets page of the Web Deployment Descriptor editor.
- C. Add mappings for the test servlets to the web.xml file.
- D. Remove the classnames for the test servlets from the MANIFEST.MF file for the web application.

Answer: A

29. Refer to the exhibit to answer the question. A JSP, productlist.jsp, contains a link for each available product which sends information about the product to AddItemToBasketServlet as parameters of the HTTP POST request. During testing, the developer finds that the application behaves correctly, adding an item to the basket and returning the client to the product list to select more items. After deployment to the production environment, however, users find that the system fails to correctly record items when "shopping for several items at the same time". Which of the following is the BEST way to fix this problem?

- A. Synchronize the addItem method of the Basket class.
- B. Enable persistent sessions in the server configuration.
- C. Use URL rewriting for storage of the session ID.
- D. Synchronize the doPost method of AddItemToBasketServlet.

Answer: A

30. Which of the following resources/tools are provided by WebSphere Studio Application Developer, V5 to test and deploy enterprise applications in WebSphere Application Server, V5?

- A. Server Projects
- B. Local Server
- C. Server and Server Configurations
- D. WebConsole

Answer: AC

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