

1Z0-574^{Q&As}

Oracle IT Architecture Release 3 Essentials

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QUESTION 1

A customer with an existing WebCenter portal wants to expand his client device list to include a variety of mobile devices beyond basic browser support. What Oracle products are available to enable this expansion?

- A. OWC, OHS, ADF Mobile, and Java ME
- B. OWCA, ADF Mobile, OPSS, and Java ME
- C. OWC, OHS, and ADF Mobile
- D. OWCIC, ADF Mobile, and Java ME

Correct Answer: A

Explanation:

Oracle HTTP Server (OHS) - provides a HTTP listener for Oracle WebLogic Server and the framework for hosting static content, dynamic content, and applications over the Web.

Java Platform, Micro Edition (Java ME)(not C):meets the needs of developers creating applications for the consumer and embedded markets. No other technology provides such robust applications across so many types of size-constrained wireless and wireline devices, from mobile phones and PDAs to set-top boxes and vehicle telematics.c

References:

QUESTION 2

Service composition is the creating of a new SOA Service by aggregating existing SOA Services. Which statements are correct concerning the use of service composition within the Service-Oriented Integration architecture?

- A. The SOI architecture is a layered architecture; therefore service composition is not allowed.
- B. Service composition is allowed, even encouraged, by the SOI architecture.
- C. Service composition within the SOI architecture is allowed only when the aggregation is over SOA Services from lower layers in the architecture.
- D. Service composition should be avoided because service aggregation is provided by the Mediation Layer.
- E. Service composition is allowed, but is discouraged because service composition leads to complex dependencies.

Correct Answer: C

Explanation: Service composition is the ability to leverage lower-level services to create a higher-level service When doing composition, the developer should respect the layering of the architecture. Thus, a Business Service could leverage existing Connectivity Services or Data Services and a Data Service could leverage existing Connectivity Services. But, a Data Service should not call a Business Service and a Connectivity Service should not call a Data

Service or a Business Service

References:

QUESTION 3

The WebShipAnywhere company currently has a manual Order-to-Ship process. The company is implementing Service-Oriented Integration architecture and, as part of that initiative, they are automating the Order-to-Ship process.

Whenever an order ships, the Warehouse Management System (WMS) is manually updated to reflect that the order has been shipped. If the Inventory for any product that was part of the order drops below a threshold value, the WMS alerts the user via a pop-up screen indicating that the product inventory is low. When this happens, the user logs in to the Purchasing System (PS) and enters the need to order more of the product. Both the WMS and PS are thick-client, two-tier applications that use an Oracle database. As part of automating the Order-to-Ship process, the company would like to remove this manual step.

What integration pattern(s) should be used to automate this manual step?

- A. The WMS should be modified to create a "low-inventory" event and publish the event to a topic queue following the publish-and-subscribe pattern. An event handler registered for the "low-inventory" event then receives the event and updates the PS.
- B. The polling integration pattern should be used to detect that the inventory for a product is low in the WMS. If a product inventory is low, the polling component uses a reliable-one-way message to call an SOA Service that updates the PS.
- C. It is not possible to integrate thick-client, two-tier applications (such as WMS and PS) by using a SOI architecture. Only applications with service interfaces can be included in an SOI architecture
- D. The polling integration pattern should be used to detect that the inventory for a product is low in the WMS. If a product inventory is low, a "low-inventory" event should be created and published to a topic queue following the publish-and-subscribe pattern. An event handler registered for the "low inventory" event then receives the event and updates the PS.
- E. Because both the WMS and the PS use Oracle database, the WMS should be modified to use a trigger to update the PS database whenever a low inventory is detected.

Correct Answer: B

Explanation:

Polling, using a reliable-one-way message, and using a SOA Service is a good solution.

References:

QUESTION 4

Which of the following are the key drivers for Grid computing?

- A. Improved server utilization - Grid computing allows companies to lower costs through the efficient use of resources.
- B. Better agility and flexibility - Businesses experience constant change and the underlying IT Infrastructure should be agile enough to support that kind of change.

C. OpEx model - Enterprises require pay-as-you-go services to reduce the dependency on capital expenditure and take advantage of the benefits of operational expenditure.

D. Lower Initial cost-There is a need to reduce the Initial investment at the cost of an increased operational cost.

Correct Answer: ABD

Explanation: Using a grid computing architecture, organizations can quickly and easily create a large-scale computing infrastructure from inexpensive, off-the-shelf components (D). Other benefits of grid computing include

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Quick response to volatile business needs (B)

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Real-time responsiveness to dynamic workloads

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Predictable IT service levels

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Reduced costs as a result of improved efficiency and smarter capacity planning (A) Note: One way to think about grid computing is as the virtualization and pooling of IT resources-- compute power, storage, network capacity, and so on--into a single set of shared services that can be provisioned or distributed, and then redistributed as needed. As workloads fluctuate during the course of a month, week, or even through a single day, the grid computing infrastructure analyzes the demand for resources in real time and adjusts the supply accordingly.

Grid computing operates on three basic technology principles: Standardize hardware and software components to reduce incompatibility and simplify configuration and deployment; virtualize IT resources by pooling hardware and software into shared resources; and automate systems management, including resource provisioning and monitoring.

Grid computing operates on these technology principles:

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Standardization.

*

Virtualization.

*

Automation.

References:

QUESTION 5

Which of the following is not a part of the Oracle Reference Architecture Monitoring and Management framework?

A. Integration

B. Services

C. Management

D. User Interaction

E. Monitoring

Correct Answer: B

Explanation:

To define a framework that meets both the management and monitoring requirements and the architecture principles, one might consider the framework to be comprised of four major parts (User Interaction, Management, Monitoring, and Integration) that complement other ORA components (ORA Engineering, ORA Security). The framework utilizes a management repository for storage of all current and historical data and metadata.

References:

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