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Exam Name:Architectural Design of SOA Solutions

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QUESTION 1

A music production company wants to develop a new way of creating and producing music. Their intent is to make it possible for musicians and technicians to collaborate remotely on new compositions. They want to explore an SOA approach.

Where should the SOA Designer begin?

- A. Analyze the production company's legacy systems to identify candidate services and then propose additional services to facilitate collaboration.
- B. Identify best of breed file sharing, workflow, and collaboration tools that are Web services ready, and propose a portal with user-profile customization.
- C. Convene a workshop with all the stakeholders to clarify their goals and objectives, then develop use cases and business process models to achieve them.
- D. Because intellectual property ownership is a critical issue in this business, examine available digital rights management systems to see if they will work in an SOA.

Correct Answer: C

QUESTION 2

A government agency has decided to use code generation to generate the portions of the services, Enterprise Service Bus (ESB), and consumer code that is consistent for each service. Which statement is true about this decision?

- A. Code generation allows automatic enforcement of governance policy.
- B. Code generation enforces IT and business alignment.
- C. Code generation is middleware version sensitive.
- D. Code generation provides a consistent data model.

Correct Answer: A

QUESTION 3

What is the next step while architecting an SOA solution after documenting the business processes?

- A. Determine the operations required to realize each process.
- B. Select a business steward for each process and instruct the steward to identify re-usable services.
- C. Identify the services needed to realize each business process and group them into logical components.
- D. Identify core and non-core business components.

Correct Answer: C

QUESTION 4

A financial services company manages retirement accounts for its corporate clients. The company has developed Web services for account and portfolio management and has deployed an Enterprise Service Bus (ESB) to mediate access to the services from various internal applications. Recently, the company has been getting pressure from some of its clients to expose its account and portfolio Web services externally so that clients can consume and integrate these services within their own internal Web applications. The company wants to ensure that access to the services by its clients is secure and controlled so that accounts are not compromised and also wants to minimize impact to its current IT infrastructure. The company consults an SOA Designer for guidance on the solution design. Which approach should the SOA Designer suggest to handle this requirement?

- A. Allow clients access to the services via a portal that exposes only those services applicable to each client.
- B. Create a business process to route client requests to the appropriate services based on business rules.
- C. Allow service access to clients via an exposed ESB gateway that restricts access to authorized requestors only.
- D. Update the existing mediation logic in the ESB to handle the security requirements and allow external applications to access the services.

Correct Answer: C

QUESTION 5

In an environment with a federated Enterprise Service Bus (ESB) made up of a WebSphere DataPower Appliance and a WebSphere ESB, a new legal requirement is passed that requires logging of all messages that arrive from a particular set of external partners.

How should this new compliance requirement be satisfied?

- A. Logging of the messages should be added to the compliance manager and enforced with the management product.
- B. Management proxy should be inserted for each of the services that are called by the external partners.
- C. Logging should be added to the WebSphere DataPower Appliance.
- D. Logging should be added to the WebSphere ESB.

Correct Answer: C

QUESTION 6

If an organization follows the ITIL best practices when considering a change to an existing service, where should they find the existing consumers of the service and the instances in use?

- A. In the operations run book
- B. In the operational architecture document
- C. In the configuration management database

D. In the Service Registry

Correct Answer: C

QUESTION 7

A manufacturing company has completed an SOA proof of concept using ten services to integrate several existing internal applications. The solution includes failover for the various services. During a power outage, three of the five application servers were non-operational.

While the system never totally failed, IT operations notified the business analyst of the failure and recovery. In looking at the performance measurement metric trends during the outage, the business analyst noticed that one of the ten services was negatively impacted and could have violated potential Service Level Agreements (SLAs).

How should the SOA Designer address this architectural issue(s) during assessment and analysis for the final production system?

- A. Recommend a monitoring solution to identify the architectural cause of the service failure caused by the outage.
- B. Ensure sufficient capacity exists in the new system for failover to meet SLAs.
- C. Recommend continuous monitoring of SLAs and balance failover across all services.
- D. Adopt an SLA threshold for early identification of potential SLA violations and alert on those thresholds.

Correct Answer: C

QUESTION 8

A large corporation would like to utilize an SOA reference architecture for its various solutions. The need is for a flexible layered SOA model that can be used in a variety of application-related situations. The SOA Architect is assigned to find

such a model. The Architect decides that the SOA Solution Stack fits the need and explains the selection to the Chief Architect.

Which statement supports the selection of the SOA Solution Stack?

- A. It is a well-known industry standard.
- B. It allows different solution scenarios to drive the realization of particular layers.
- C. It provides an implementation that allows a large solution to be adapted easily.
- D. It provides business specific architectural building blocks that support a variety of outcomes.

Correct Answer: B

QUESTION 9

A mortgage loan provider currently has legacy applications utilized by a network of branches and franchised agents. They want to expand by adding a new channel to allow independent mortgage brokers to submit mortgage loan applications.

They realize they must provide a differentiating offering to the independent mortgage brokers to attract participants and grow the new channel.

How can SOA benefit their requirement?

A. By building an SOA with a secure connectivity layer, they could quickly enable the mortgage broker channel to use their applications without any changes to the legacy system.

B. They could reduce the cost to develop new applications needed for each independent broker by reusing services as integration code that is written for each broker's system to expedite development.

C. By service enabling the legacy applications and offering a Web-based portal for independent brokers, they can minimize the impact to existing channels, minimize changes to existing code, and quickly create an offering for the new channel.

D. By implementing security and governance as part of an SOA deployment, they can control access to the current system to determine which brokers are using the system and personalize their marketing to the high usage brokers.

Correct Answer: C

QUESTION 10

An online bookseller wants to extend its reach by providing a Web service for pricing used books. The current internal Web application is hosted on a mainframe. The new service must provide the same capabilities and qualities of service to

external users.

What are the appropriate design patterns to use?

A. Zoned Enterprise Service Bus (ESB) and As-is Host Application

B. Zoned ESB and Exposed Application

C. Self-Service and Exposed ESB Gateway

D. Self-Service and As-is Host Application

Correct Answer: C

QUESTION 11

A government department has been directed to make sure that its agencies can share data so they can handle crises effectively. Laboring under a prior directive to migrate to SOA, the Chief Architect is looking for the best way to incorporate

this latest directive.

What should the SOA Designer recommend?

A. The various agency databases should be federated and information services implemented. The data transformation capabilities are included in data federation.

B. New data replication processes should be introduced so that information within agency databases can be shared whenever needed. Data transformation should be incorporated within the replication processes where there is a mismatch.

C. Enterprise Service Bus (ESB) message transformations should be used to transform exchanged data based on agency standard data models. Existing messages should be converted into XML so that SOA appliances can use XSLT to convert the messages at high speed.

D. Business experts and IT data modelers should develop an enterprise level standard data model. Each agency can then define how its data can be converted into the standard. Once done, Extract/Transform/ Load ETL tooling can be used for large scale cleansing of the existing databases and transforming it into the new standard.

Correct Answer: A

QUESTION 12

A bank has decided to rewrite their payment system from CICS/VSAM to SOA/J2EE/DB2 to easily adapt to a rapidly changing market, improve reporting capability and comply with a corporate edict to migrate off CICS/ VSAM. The payment process is large and complex and includes three major sub-processes (Validation, Sanctions, and Disbursement) as well as additional supporting processes (e.g. Advising, Printing, and Reporting.) The Solution Architect has determined the entire project will take more than two years. The customer requires initial results within six months.

What is the first step in the roadmap that should be suggested to the client?

A. Model major sub-processes, wrap existing CICS/VSAM for use by these processes and deploy the resulting solution.

B. Model supporting processes and associated relational data model, then deploy the resulting solution.

C. Model major sub-processes and associated relational data model, migrate selected CICS/VSAM to the new model and deploy the resulting solution.

D. Model supporting processes, wrap existing CICS/VSAM and deploy the resulting solution.

Correct Answer: B

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