C2160-667^{Q&As}

Architectural Design of SOA Solutions

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QUESTION 1

An organization is adding composite services to the environment. The services are running across different environments and operating systems. When considering secure access, what is one of the additional challenges that must be considered?

A. The requirement to use identity provisioning across the service request

B. The requirement to use the same authorization privileges throughout the service request

C. The requirement to use the same identity throughout the service request

D. The requirement to use the same credentials throughout the service request

Correct Answer: C

QUESTION 2

A municipal utility company, with a well-managed IT environment, created a Customer Query Service as a general purpose customer lookup service to provide one or more customer records associated with a variety of search criteria. The service is now used by both the call center and self-service Web application supporting power outage management. In the past, each application used different technologies to retrieve the information.

Which additional management is required when introducing this service?

A. State management

B. End-to-end user response time monitoring

C. Monitoring of the operations performance

D. Network management

E. Transaction monitoring

Correct Answer: C

QUESTION 3

An SOA project consists of services deployed in a heterogeneous distributed environment that includes an Enterprise Service Bus (ESB). When adding a requirement for routing management, how should it be implemented?

A. As additional mediation capabilities within the existing ESB

B. As additional management capabilities within the existing ESB

C. As specific mediation functions implemented as separate proxies

D. As a specific management function implemented in a federated ESB

Correct Answer: A

QUESTION 4

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 5

A new business process is being written that will call a number of new or existing Web services. As part of the SOA quality management process, which activity is the most appropriate?

A. Test and validate that the Web services meet the Service Level Agreements (SLAs).

B. Monitor and manage the service implementation platform.

C. Monitor and manage the service availability.

D. Provide an automated test platform for functional and regression testing.

Correct Answer: D

QUESTION 6

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 7

A customer wants to build an executive dashboard using information stored in a CICS application with data in legacy files, as well as customer profiles from a third party service. The IT department wants to build a data warehouse, but

management is concerned about the expense and duration of this approach.

Which is a viable, service-enabled alternative?

A. Recommend the construction of a federated data solution to provide a single view of data in the various customer systems providing on demand data cleansing and aggregate into a portal dashboard.

B. Re-face the CICS screens and scrape off the needed data, then aggregate into the required dashboard.

C. Specify the dashboard and required information services, and then develop transformation components for the required information.

D. Specify the executive view of the dashboard, elaborate the data model required to support the dashboard, specify the source-target mappings, and populate the data model.

Correct Answer: C

QUESTION 8

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 9

Two existing applications share common data with each having their own database. Since the data is replicated between the two of them every night, it leads to problems during the day when either application works with potentially outdated

data. The customer is considering SOA as a solution.

Which SOA approach can most effectively solve this problem?

A. Design a service interface on top of both applications allowing exchange of the shared data in real time.

B. Create an information integration layer exposed as services, then re-factor both applications to use those services.

C. Consolidate both databases into one and establish proper locking algorithms to ensure data integrity.

D. Design a new service that encapsulates the shared data between the two applications.

Correct Answer: B

QUESTION 10

A company wishes to create a service from a legacy application that uses a simple but proprietary data format over a TCP/IP connection. What is an advantage of creating an adapter or wrapper to enable this application as a service?

A. The legacy application will be made more highly available through the use of an adapter.

B. The use of standards in the adapter will enable the legacy application to be used within a business process more easily.

C. A wrapper will automatically generate valid XML datatypes to interoperate with all of the datatypes used by the legacy application.

D. A wrapper can be added to the legacy application to control the Quality of Service (QoS).

Correct Answer: B

QUESTION 11

A retail company is faced with the challenge of quickly introducing new products involving components from multiple lines-of-business. How can adopting SOA help this company meet this challenge?

A. By introducing an Enterprise Service Bus (ESB) to support services created from existing legacy application functions

B. By optimizing interactions with business partners using Web services

C. By monitoring retail sales activities and providing company executives with a dashboard for up- to-date KPIs

D. By identifying services in each Line of Business (LOB) that would support new product development and marketing business processes

Correct Answer: D

QUESTION 12

A team is evaluating the maturity of a customer\\'s solution architecture relative to the IBM SOA Foundation. It is discovered that the customer has invested heavily in an internally-developed Enterprise Service Bus (ESB) and that their ESB has

functionality expected to be found in other SOA Foundation services, especially Process Services, Business Services, and Information Services.

Which recommendation should be made?

A. Continue development of the ESB because the architecture is generally compliant with the SOA Foundation.

B. Stop development of the ESB because the architecture violates the principle of loose coupling among services.

C. Continue using the ESB but begin a transition to a vendor-supported, standards-compliant ESB.

D. Modify development priorities to shift Process Services functionality to other parts of the Solution Architecture.

Correct Answer: C

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