C2160-667 Q&As

Architectural Design of SOA Solutions

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QUESTION 1

The SOA reference architecture identifies core services including Interaction, Process, Information, Partner, Access, and Infrastructure. What is one valid reason for excluding one or more of these services in an SOA?

A. The application is predominantly middleware in nature, eliminating the need for presentation services.

B. The consumer and the provider belong to different companies.

C. The business sponsor has set budget constraints on solution architecture and the architectural components to be included have to be prioritized.

D. The customer\\'s internal politics make the specification too difficult.

Correct Answer: A

QUESTION 2

An organization is releasing functionality updates to portlets and new services on a daily cycle. However, code deployment is taking three days. This delay is leading to reliability and availability issues with the production environment. Apart from exploring the possibility of introducing a less aggressive release cycle, how can these issues be addressed?

A. Suggest a plan to move to automated deployment to reduce deployment time.

B. Introduce governance to define and enforce development standards and Software Configuration Management (SCM) processes.

C. Examine the infrastructure and application architecture and then conduct a code review to determine the source of the delayed deployments.

D. Introduce governance focusing on enablement of development standards and policy enforcement procedures.

Correct Answer: A

QUESTION 3

A retail bank built an SOA for their customer service portal. Their layered architecture contains services at all levels.

The system is not providing the performance required.

What should the SOA Designer examine first to identify the cause?

A. Review network capacity since large numbers of small messages can introduce a high overhead ratio, limiting the data transmitted per message.

B. Review the service governance processes making sure they are identifying duplication and ensuring service level requirements are being managed.

C. Review database accesses since large numbers of service requests can result in contention for database connections, race conditions or unintentional locking.

D. Review the granularity of the service operations to determine whether there are too many technical services relative to the number of business services.

Correct Answer: D

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 company has started an ambitious SOA project as part of an enterprise modernization initiative. The SOA Designer has determined that their mainframe-based portfolio is a tightly coupled set of applications owned by different IT

organizations. In addition, the SOA executive sponsor is concerned that their mainframe portfolio and skill base will make the transition to SOA difficult.

What should the SOA Designer do?

A. Deploy an Enterprise Service Bus (ESB) as a means for decoupling the applications and isolating organizational issues.

B. Develop a detailed education roadmap for the application owners, developers and operations staff to ensure success.

C. Suggest a pilot project to re-engineer one of the mainframe applications to use J2EE and SOAP on Unix to help develop SOA skills.

D. Propose a Service Integration Maturity Model (SIMM) assessment to identify any potential organizational issues or skill mismatches in the project staff.

Correct Answer: D

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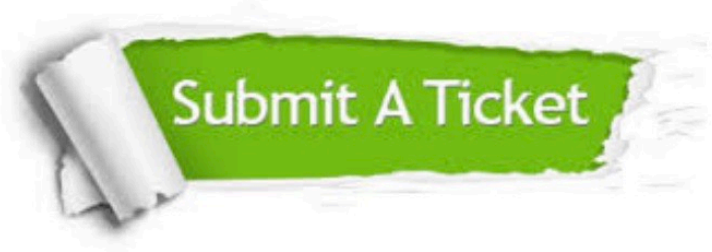

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