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Midterm Studying

• From the Introduction to Synthesis 9:

o What is a "Frame of Reference" with respect to the organization of Synthesis 9?

A "Frame of Reference" is a general concept to pay close attention to during the design process. They are factors to base design choice around along each step of the process, and the 9 frames outlined in Synthesis 9 work together to make a setting functional, beautiful, usable, and practical. The frames of reference aren't something to be tied down by, but rather a guide to get one started or even re-center focus throughout design.

o What does Kleinsasser mean by a "Design Principle"?

Design principles are somewhat of a subcategory of each frame of reference. With each frame of reference comes a set of design principles that break down their frames and serve as more specific indicators for focus. For example, the frame of reference "responding to context" is accompanied by the design principle of "responding to sunlight," since this is one of the ways one can respond to context. Design principles can be seen as a tentative checklist, or a point of checking your work with certain properties that add to a building's life.

o From Paul Goldberger's "Meaning, Culture, and Symbol" be prepared to talk about the idea of an **ethical architecture**.

Goldberger's "Meaning, Culture, and Symbol" brings forth the idea of building for a greater purpose. He claims that building's primary function should be to provide space for people and activities, and that it is not purely aesthetic like other forms of art. The idea of "ethical architecture" stems from creating spaces for people and for the future, and he says that great spaces are a necessity rather than a luxury.

• From the Frame of Reference "Responding to Context:"

o Be ready to list and discuss 5 principles (your choice)

1) Respond to sunlight, let it in, dramatize it, use it, control it

- The designer should have a keen eye for the sunlight around the structure, how the light appears during different parts of the day, and how to use natural light to enhance their design whether by embracing it or minimizing it.

2) Respond to topography and vegetation

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Salesforce Certified MuleSoft Platform Architect Sample Questions (Q44-

Q49):

NEW QUESTION # 44

The implementation of a Process API must change.

What is a valid approach that minimizes the impact of this change on API clients?

- A. Update the RAML definition of the current Process API and notify API client developers by sending them links to the updated RAML definition
- B. Postpone changes until API consumers acknowledge they are ready to migrate to a new Process API or API version
- C. Implement the Process API changes in a new API implementation, and have the old API implementation return an HTTP status code 301 - Moved Permanently to inform API clients they should be calling the new API implementation
- D. Implement required changes to the Process API implementation so that whenever possible, the Process API's RAML definition remains unchanged

Answer: D

Explanation:

Correct Answer: Implement required changes to the Process API implementation so that, whenever possible, the Process API's RAML definition remains unchanged.

Key requirement in the question is:

>> Approach that minimizes the impact of this change on API clients

Based on above:

>> Updating the RAML definition would possibly impact the API clients if the changes require anything mandatory from client side. So, one should try to avoid doing that until really necessary.

>> Implementing the changes as a completely different API and then redirecting the clients with 3xx status code is really upsetting design and heavily impacts the API clients.

>> Organisations and IT cannot simply postpone the changes required until all API consumers acknowledge they are ready to migrate to a new Process API or API version. This is unrealistic and not possible.

The best way to handle the changes always is to implement required changes to the API implementations so that, whenever possible, the API's RAML definition remains unchanged.

NEW QUESTION # 45

Which out-of-the-box key performance indicator measures the success of a typical Center for Enablement and is immediately available in responses from Anypoint Platform APIs?

- A. Per published API, the number of consumers that requested access to the API and have been approved in the Production environment
- B. Per business group, the ratio of the number of production API implementations deployed using a CI/CD pipeline to the number of production API implementations deployed manually
- C. Per deployed API implementation, the amount of bandwidth consumed each day
- D. Per published API, the number of developers that downloaded a version of the API specification

Answer: A

Explanation:

Center for Enablement (C4E) KPIs:

A Center for Enablement (C4E) in MuleSoft focuses on enabling self-service and reuse by providing APIs that can be consumed across the organization. A key metric of success is how many consumers are utilizing the published APIs.

The number of consumers who have requested and received access to an API indicates the level of adoption and reuse, which aligns with the goals of a C4E.

Evaluating the Options:

Option A: This metric could indicate deployment automation, but it is not a direct measure of C4E's success in enabling API reuse and consumption.

Option B: Bandwidth usage per API implementation provides insight into API traffic but does not measure C4E enablement or consumer engagement.

Option C: The number of developers downloading an API specification can be an indicator of interest but does not confirm actual usage or enablement.

Option D (Correct Answer): The number of consumers who have requested and received access to an API in production is a key metric indicating API adoption and reuse, which aligns with C4E's goals.

Conclusion:

Option D is the correct answer as it provides a direct measure of consumer engagement and adoption, indicating the success of the C4E in promoting API usage across the organization.

Refer to MuleSoft's documentation on C4E KPIs and API usage metrics for additional insights.

NEW QUESTION # 46

A Mule application implements an API. The Mule application has an HTTP Listener whose connector configuration sets the HTTPS protocol and hard-codes the port value. The Mule application is deployed to an Anypoint VPC and uses the CloudHub 1.0 Shared Load Balancer (SLB) for all incoming traffic.

Which port number must be assigned to the HTTP Listener's connector configuration so that the Mule application properly receives HTTPS API invocations routed through the SLB?

- A. 0
- **B. 1**
- C. 2
- D. 3

Answer: B

Explanation:

When using CloudHub 1.0's Shared Load Balancer (SLB) for a Mule application configured with HTTPS in an Anypoint VPC, specific ports must be configured for the application to correctly route incoming traffic:

Port Requirement for SLB:

The CloudHub Shared Load Balancer for HTTPS traffic requires that applications listen on port 8092 for secure (HTTPS) communication. This port is reserved specifically for SSL traffic when using SLB with Anypoint VPCs.

Why Option B is Correct:

Setting the HTTP Listener's connector configuration to 8092 aligns with CloudHub requirements for HTTPS via the Shared Load Balancer.

of Incorrect Options:

Option A (8082) is used for non-HTTPS (HTTP) traffic.

Option C (80) and Option D (443) are standard web ports but are not applicable within CloudHub SLB's internal configuration for VPC routing.

Reference

For more information on the Shared Load Balancer port configurations, refer to MuleSoft's documentation on CloudHub and VPC load balancer requirements.

NEW QUESTION # 47

Mule applications that implement a number of REST APIs are deployed to their own subnet that is inaccessible from outside the organization.

External business-partners need to access these APIs, which are only allowed to be invoked from a separate subnet dedicated to partners - called Partner-subnet. This subnet is accessible from the public internet, which allows these external partners to reach it.

Anypoint Platform and Mule runtimes are already deployed in Partner-subnet. These Mule runtimes can already access the APIs.

What is the most resource-efficient solution to comply with these requirements, while having the least impact on other applications that are currently using the APIs?

- A. Duplicate the APIs as Mule applications, then deploy them to the Mule runtimes
- B. Add an additional endpoint to each API for partner-enablement consumption
- **C. Implement (or generate) an API proxy Mule application for each of the APIs, then deploy the API proxies to the Mule runtimes**
- D. Redeploy the API implementations to the same servers running the Mule runtimes

Answer: C

NEW QUESTION # 48

An application updates an inventory running only one process at any given time to keep the inventory consistent. This process takes 200 milliseconds (.2 seconds) to execute; therefore, the scalability threshold of the application is five requests per second.

What is the impact on the application if horizontal scaling is applied, thereby increasing the number of Mule workers?

- A. The total process execution time is now 100 milliseconds (.1 seconds)
- **B. The application scalability threshold is five requests per second regardless of the horizontal scaling**
- C. Horizontal scaling cannot be applied to an already-running application
- D. The application scalability threshold is now 10 requests per second

Answer: B

Explanation:

Given that the application is designed to handle only one process at a time to maintain data consistency, here's why horizontal scaling won't increase the processing limit:

Single-Process Constraint:

The application limits to processing one transaction at a time due to its design for consistency, meaning horizontal scaling (adding more workers) does not increase processing speed beyond this limit.

Execution Time:

Since each request takes 200 ms, five requests per second is the maximum processing threshold. Increasing the number of workers does not bypass this single-process limitation.

of Correct Answer (A):

The scalability remains at five requests per second, as this constraint is intrinsic to the application's design.

of Incorrect Options:

Option B suggests a change in execution time, which horizontal scaling does not affect.

Option C assumes doubling the throughput, which isn't possible due to the single-threaded nature of the application.

Option D suggests horizontal scaling cannot apply, which is incorrect; however, scaling does not increase throughput in this context.

Reference

For more on understanding scaling and concurrency in Mule applications, see MuleSoft's documentation on application performance and scaling limitations.

NEW QUESTION # 49

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