

# Salesforce

## Exam Questions MuleSoft-Integration-Architect-I

Salesforce Certified MuleSoft Integration Architect 1 (SP24) Exam



**NEW QUESTION 1**

An API implementation is being designed that must invoke an Order API which is known to repeatedly experience downtime. For this reason a fallback API is to be called when the Order API is unavailable. What approach to designing invocation of the fallback API provides the best resilience?

- A. Redirect client requests through an HTTP 303 temporary redirect status code to the fallback API whenever the Order API is unavailable
- B. Set an option in the HTTP Requester component that invokes the order API to instead invoke a fallback API whenever an HTTP 4XX or 5XX response status code is received from Order API
- C. Create a separate entry for the order API in API manager and then invoke this API as a fallback API if the primary Order API is unavailable
- D. Search Anypoint Exchange for a suitable existing fallback API and then implement invocations to their fallback API in addition to the Order API

**Answer:** A

**NEW QUESTION 2**

A retail company is implementing a MuleSoft API to get inventory details from two vendors by Invoking each vendor's online applications. Due to network issues, the invocations to the vendor applications are timing out intermittently, but the requests are successful after re-invoking each vendor application. What is the most performant way of implementing the API to invoke each vendor application and to retry invocations that generate timeout errors?

- A. Use a For-Each scope to invoke the two vendor applications in series, one after the other. Place the For-Each scope inside an Until-Successful scope to retry requests that raise timeout errors.
- B. Use a Choice scope to Invoke each vendor application on a separate rout
- C. Place the Choice scope inside an Until-Successful scope to retry requests that raise timeout errors.
- D. Use a Scatter-Gather scope to invoke each vendor application on a separate rout
- E. Use an Until-Successful scope in each route to retry requests that raise timeout errors.
- F. Use a Round-Robin scope to invoke each vendor application on a separate rout
- G. Use a Try-Catch scope in each route to retry requests that raise timeout errors.

**Answer:** C

**NEW QUESTION 3**

An API implementation is being developed to expose data from a production database via HTTP requests. The API implementation executes a database SELECT statement that is dynamically created based upon data received from each incoming HTTP request. The developers are planning to use various types of testing to make sure the Mule application works as expected, can handle specific workloads, and behaves correctly from an API consumer perspective. What type of testing would typically mock the results from each SELECT statement rather than actually execute it in the production database?

- A. Unit testing (white box)
- B. Integration testing
- C. Functional testing (black box)
- D. Performance testing

**Answer:** A

**NEW QUESTION 4**

An API has been updated in Anypoint Exchange by its API producer from version 3.1.1 to 3.2.0 following accepted semantic versioning practices and the changes have been communicated via the API's public portal. The API endpoint does NOT change in the new version. How should the developer of an API client respond to this change?

- A. The update should be identified as a project risk and full regression testing of the functionality that uses this API should be run.
- B. The API producer should be contacted to understand the change to existing functionality.
- C. The API producer should be requested to run the old version in parallel with the new one.
- D. The API client code ONLY needs to be changed if it needs to take advantage of new features.

**Answer:** D

**NEW QUESTION 5**

When designing an upstream API and its implementation, the development team has been advised to not set timeouts when invoking downstream API. Because the downstream API has no SLA that can be relied upon. This is the only downstream API dependency of that upstream API. Assume the downstream API runs uninterrupted without crashing. What is the impact of this advice?

- A. The invocation of the downstream API will run to completion without timing out.
- B. An SLA for the upstream API CANNOT be provided.
- C. A default timeout of 500 ms will automatically be applied by the Mule runtime in which the upstream API implementation executes.
- D. A load-dependent timeout of less than 1000 ms will be applied by the Mule runtime in which the downstream API implementation executes.

**Answer:** B

**NEW QUESTION 6**

An organization has decided on a cloudhub migration strategy that aims to minimize the organizations own IT resources. Currently, the organizational has all of its Mule applications running on its own premises and uses an premises load balancer that exposes all APIs under the base URL <https://api.acme.com> As part of the migration strategy, the organization plans to migrate all of its Mule applications and load balancer to cloudhub What is the most straight-forward and cost effective approach to the Mule applications deployment and load balancing that preserves the public URLs?

- A. Deploy the Mule applications to Cloudhub Update the CNAME record for an api.acme.com in the organizations DNS server pointing to the A record of a cloudhub dedicated load balancer(DLB) Apply mapping rules in the DLB to map URLs to their corresponding Mule applications
- B. For each migrated Mule application, deploy an API proxy Mule application to Cloudhub with all applications under the control of a dedicated load balancer(CLB) Update the CNAME record for api.acme.com in the organization DNS server pointing to the A record of a cloudhub dedicated load balancer(DLB) Apply mapping rules in the DLB to map each API proxy application to its corresponding Mule applications

C. Deploy the Mule applications to CloudhubCreate CNAME record for api.acme.com in the Cloudhub Shared load balancer (SLB) pointing to the A record of the on-premise load balancerApply mapping rules in the SLB to map URLs to their corresponding Mule applications  
D. Deploy the Mule applications to CloudhubUpdate the CNAME record for api.acme.com in the organization DNS server pointing to the A record of the cloudhub shared load balancer(SLB)Apply mapping rules in the SLB to map URLs to their corresponding Mule applications.

**Answer:** A

#### NEW QUESTION 7

A Mule application is synchronizing customer data between two different database systems.  
What is the main benefit of using XA transaction over local transactions to synchronize these two database system?

- A. Reduce latency
- B. Increase throughput
- C. Simplifies communication
- D. Ensure consistency

**Answer:** D

#### NEW QUESTION 8

According to MuleSoft, what is a major distinguishing characteristic of an application network in relation to the integration of systems, data, and devices?

- A. It uses a well-organized monolithic approach with standards
- B. It is built for change and self-service
- C. It leverages well-accepted internet standards like HTTP and JSON
- D. It uses CI/CD automation for real-time project delivery

**Answer:** B

#### NEW QUESTION 9

A high-volume eCommerce retailer receives thousands of orders per hour and requires notification of its order management, warehouse, and billing system for subsequent processing within 15 minutes of order submission through its website.  
Which integration technology, when used for its typical and intended purpose, meets the retailer's requirements for this use case?

- A. Managed File Transfer (MFT)
- B. Publish/Subscriber Messaging Bus (Pub/Sub)
- C. Enterprise Data Warehouse (EDW)
- D. Extract Transform Load (ETL)

**Answer:** B

#### NEW QUESTION 10

What is true about the network connections when a Mule application uses a JMS connector to interact with a JMS provider (message broker)?

- A. To complete sending a JMS message, the JMS connector must establish a network connection with the JMS message recipient
- B. To receive messages into the Mule application, the JMS provider initiates a network connection to the JMS connector and pushes messages along this connection
- C. The JMS connector supports both sending and receiving of JMS messages over the protocol determined by the JMS provider
- D. The AMQP protocol can be used by the JMS connector to portably establish connections to various types of JMS providers

**Answer:** C

#### NEW QUESTION 10

A rate limiting policy has been applied to a soap V1.2 API published in Clondhub. The API implementation catches errors in a global error handler on error propagate in the main flow for HTTP: RETRY\_EXHAUSTED with HTTP status set to 429 and any with the HTTP status set to 500.  
What is the expected H1TP status when the client exceeds the quota of the API calls?

- A. HTTP status 429 as defined in the HTTP:RETRY EXHAUSTED error handler in the API
- B. HTTP status 500 as defined in the ANY error handler in the API since an API:RETRY\_EXHAUSTED will be generated
- C. HTTP status 401 unauthorized for policy violation
- D. HTTP status 400 from the rate-limiting policy violation since the call does not reach the back-end

**Answer:** A

#### NEW QUESTION 11

Which of the below requirements prevent the usage of Anypoint MQ in a company's network? (Choose two answers)

- A. single message payload can be up to 15 MB
- B. payloads must be encrypted
- C. the message broker must be hosted on premises
- D. support for point-to-point messaging
- E. ability for a third party outside the company's network to consume events from the queue

**Answer:** CE

#### NEW QUESTION 16

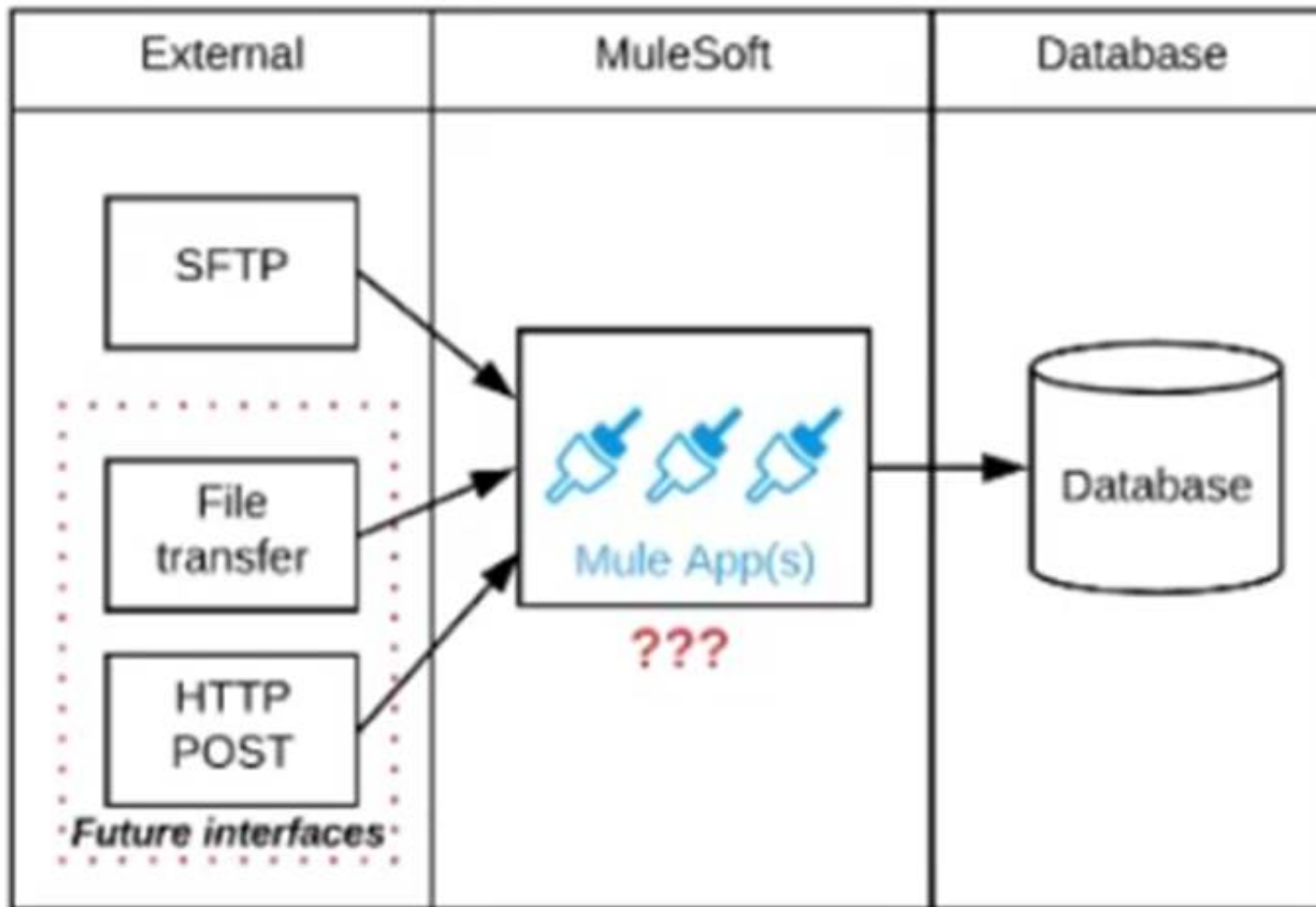
An organization has strict unit test requirement that mandate every mule application must have an MUnit test suit with a test case defined for each flow and a minimum test coverage of 80%.  
 A developer is building Munit test suit for a newly developed mule application that sends API request to an external rest API.  
 What is the effective approach for successfully executing the Munit tests of this new application while still achieving the required test coverage for the Munit tests?

A. Invoke the external endpoint of the rest API from the mule floors  
 B. Mark the rest API invocations in the Munits and then call the mocking service flow that simulates standard responses from the REST API  
 C. Mock the rest API invocation in the Munits and return a mock response for those invocations  
 D. Create a mocking service flow to simulate standard responses from the rest API and then configure the mule flows to call the marking service flow

**Answer: C**

**NEW QUESTION 17**

Refer to the exhibit.



A business process involves the receipt of a file from an external vendor over SFTP. The file needs to be parsed and its content processed, validated, and ultimately persisted to a database. The delivery mechanism is expected to change in the future as more vendors send similar files using other mechanisms such as file transfer or HTTP POST.  
 What is the most effective way to design for these requirements in order to minimize the impact of future change?

- A. Use a MuleSoft Scatter-Gather and a MuleSoft Batch Job to handle the different files coming from different sources  
 B. Create a Process API to receive the file and process it using a MuleSoft Batch Job while delegating the data save process to a System API  
 C. Create an API that receives the file and invokes a Process API with the data contained In the file, then have the Process API process the data using a MuleSoft Batch Job and other System APIs as needed  
 D. Use a composite data source so files can be retrieved from various sources and delivered to a MuleSoft Batch Job for processing

**Answer: C**

**NEW QUESTION 19**

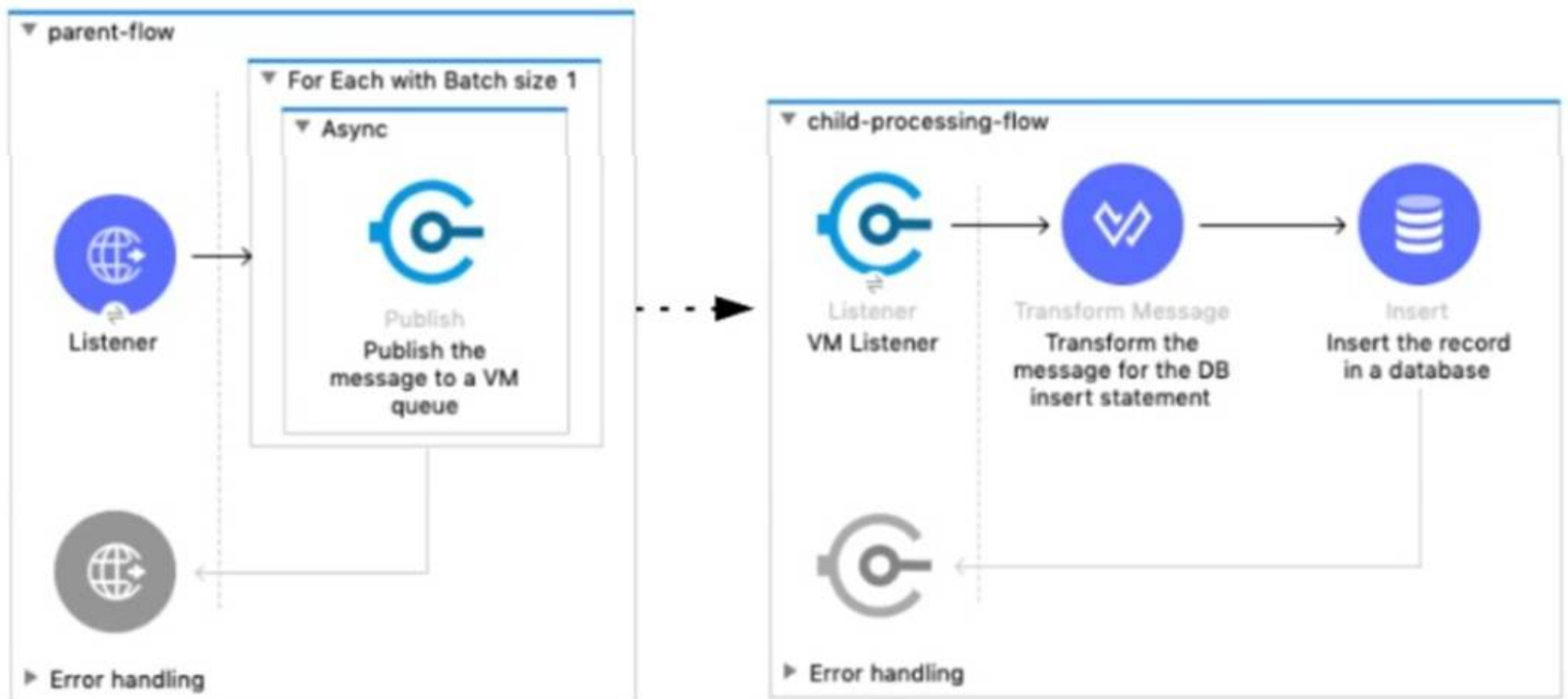
According to MuleSoft's API development best practices, which type of API development approach starts with writing and approving an API contract?

- A. Implement-first  
 B. Catalyst  
 C. Agile  
 D. Design-first

**Answer: D**

**NEW QUESTION 23**

Refer to the exhibit.



A Mule 4 application has a parent flow that breaks up a JSON array payload into 200 separate items, then sends each item one at a time inside an Async scope to a VM queue.

A second flow to process orders has a VM Listener on the same VM queue. The rest of this flow processes each received item by writing the item to a database. This Mule application is deployed to four CloudHub workers with persistent queues enabled.

What message processing guarantees are provided by the VM queue and the CloudHub workers, and how are VM messages routed among the CloudHub workers for each invocation of the parent flow under normal operating conditions where all the CloudHub workers remain online?

- A. EACH item VM message is processed AT MOST ONCE by ONE CloudHub worker, with workers chosen in a deterministic round-robin fashion Each of the four CloudHub workers can be expected to process 1/4 of the Item VM messages (about 50 items)
- B. EACH item VM message is processed AT LEAST ONCE by ONE ARBITRARY CloudHub worker Each of the four CloudHub workers can be expected to process some item VM messages
- C. ALL Item VM messages are processed AT LEAST ONCE by the SAME CloudHub worker where the parent flow was invoked This one CloudHub worker processes ALL 200 item VM messages
- D. ALL item VM messages are processed AT MOST ONCE by ONE ARBITRARY CloudHub worker This one CloudHub worker processes ALL 200 item VM messages

**Answer: B**

#### NEW QUESTION 25

An organization is successfully using API led connectivity, however, as the application network grows, all the manually performed tasks to publish share and discover, register, apply policies to, and deploy an API are becoming repetitive pictures driving the organization to automate this process using efficient CI/CD pipeline. Considering Anypoint platforms capabilities how should the organization approach automating is API lifecycle?

- A. Use runtime manager rest apis for API management and mavenforAPI deployment
- B. Use Maven with a custom configuration required for the API lifecycle
- C. Use Anypoint CLI or Anypoint Platform REST apis with scripting language such as groovy
- D. Use Exchange rest api's for API management and MavenforAPI deployment

**Answer: C**

#### NEW QUESTION 28

As an enterprise architect, what are the two reasons for which you would use a canonical data model in the new integration project using Mulesoft Anypoint platform ( choose two answers )

- A. To have consistent data structure aligned in processes
- B. To isolate areas within a bounded context
- C. To incorporate industry standard data formats
- D. There are multiple canonical definitions of each data type
- E. Because the model isolates the back and systems and support mule applications from change

**Answer: AE**

#### NEW QUESTION 30

A global organization operates datacenters in many countries. There are private network links between these datacenters because all business data (but NOT metadata) must be exchanged over these private network connections.

The organization does not currently use AWS in any way.

The strategic decision has Just been made to rigorously minimize IT operations effort and investment going forward.

What combination of deployment options of the Anypoint Platform control plane and runtime plane(s) best serves this organization at the start of this strategic journey?

- A. MuleSoft-hosted Anypoint Platform control plane CloudHub Shared Worker Cloud in multiple AWS regions
- B. Anypoint Platform - Private Cloud Edition Customer-hosted runtime plane in each datacenter
- C. MuleSoft-hosted Anypoint Platform control plane Customer-hosted runtime plane in multiple AWS regions

D. MuleSoft-hosted Anypoint Platform control plane Customer-hosted runtime plane in each datacenter

**Answer:** D

### NEW QUESTION 33

In a Mule Application, a flow contains two (2) JMS consume operations that are used to connect to a JMS broker and consume messages from two(2) JMS destination. The Mule application then joins the two JMS messages together.

The JMS broker does not implement high availability (HA) and periodically experiences scheduled outages of upto 10 mins for routine maintenance.

What is the most idiomatic (used for its intended purpose) way to build the mule flow so it can best recover from the expected outages?

- A. Configure a reconnection strategy for the JMS connector
- B. Enclose the two(2) JMS operation in an Until Successful scope
- C. Consider a transaction for the JMS connector
- D. Enclose the two(2) JMS operations in a Try scope with an Error Continue error handler

**Answer:** A

### NEW QUESTION 38

In Anypoint Platform, a company wants to configure multiple identity providers (IdPs) for multiple lines of business (LOBs). Multiple business groups, teams, and environments have been defined for these LOBs.

What Anypoint Platform feature can use multiple IdPs across the company??s business groups, teams, and environments?

- A. MuleSoft-hosted (CloudHub) dedicated load balancers
- B. Client (application) management
- C. Virtual private clouds
- D. Permissions

**Answer:** A

### NEW QUESTION 40

An organization is designing a mule application to support an all or nothing transaction between serval database operations and some other connectors so that they all roll back if there is a problem with any of the connectors

Besides the database connector , what other connector can be used in the transaction.

- A. VM
- B. Anypoint MQ
- C. SFTP
- D. ObjectStore

**Answer:** A

### NEW QUESTION 45

Which component of Anypoint platform belongs to the platform control plane?

- A. Runtime Fabric
- B. Runtime Replica
- C. Anypoint Connectors
- D. API Manager

**Answer:** D

### NEW QUESTION 50

A manufacturing company is planning to deploy Mule applications to its own Azure Kubernetes Service infrastructure.

The organization wants to make the Mule applications more available and robust by deploying each Mule application to an isolated Mule runtime in a Docker container while managing all the Mule applications from the MuleSoft-hosted control plane.

What is the most idiomatic (used for its intended purpose) choice of runtime plane to meet these organizational requirements?

- A. Anypoint Platform Private Cloud Edition
- B. Anypoint Runtime Fabric
- C. CloudHub
- D. Anypoint Service Mesh

**Answer:** B

### NEW QUESTION 54

A platform architect includes both an API gateway and a service mesh in the architect of a distributed application for communication management.

Which type of communication management does a service mesh typically perform in this architecture?

- A. Between application services and the firewall
- B. Between the application and external API clients
- C. Between services within the application
- D. Between the application and external API implementations.

**Answer:** C

### NEW QUESTION 55

A leading eCommerce giant will use MuleSoft APIs on Runtime Fabric (RTF) to process customer orders. Some customer-sensitive information, such as credit card information, is required in request payloads or is included in response payloads in some of the APIs. Other API requests and responses are not authorized to access some of this customer-sensitive information but have been implemented to validate and transform based on the structure and format of this customer-sensitive information (such as account IDs, phone numbers, and postal codes).

What approach configures an API gateway to hide sensitive data exchanged between API consumers and API implementations, but can convert tokenized fields back to their original value for other API requests or responses, without having to recode the API implementations?

Later, the project team requires all API specifications to be augmented with an additional non-functional requirement (NFR) to protect the backend services from a high rate of requests, according to defined service-level agreements (SLAs). The NFR's SLAs are based on a new tiered subscription level "Gold", "Silver", or "Platinum" that must be tied to a new parameter that is being added to the Accounts object in their enterprise data model.

Following MuleSoft's recommended best practices, how should the project team now convey the necessary non-functional requirement to stakeholders?

- A. Create and deploy API proxies in API Manager for the NFR, change the baseUrl in each API specification to the corresponding API proxy implementation endpoint, and publish each modified API specification to Exchange
- B. Update each API specification with comments about the NFR's SLAs and publish each modified API specification to Exchange
- C. Update each API specification with a shared RAML fragment required to implement the NFR and publish the RAML fragment and each modified API specification to Exchange
- D. Create a shared RAML fragment required to implement the NFR, list each API implementation endpoint in the RAML fragment, and publish the RAML fragment to Exchange

**Answer: C**

#### NEW QUESTION 57

A Mule application is being designed To receive nightly a CSV file containing millions of records from an external vendor over SFTP, The records from the file need to be validated, transformed. And then written to a database. Records can be inserted into the database in any order.

In this use case, what combination of Mule components provides the most effective and performant way to write these records to the database?

- A. Use a Parallel for Each scope to Insert records one by one into the database
- B. Use a Scatter-Gather to bulk insert records into the database
- C. Use a Batch job scope to bulk insert records into the database.
- D. Use a DataWeave map operation and an Async scope to insert records one by one into the database.

**Answer: C**

#### NEW QUESTION 59

Which type of communication is managed by a service mesh in a microservices architecture?

- A. Communication between microservices runtime administrators
- B. Communication between microservices developers
- C. Communication between microservices
- D. Communication between trading partner services

**Answer: C**

#### NEW QUESTION 61

A DevOps team has adequate observability of individual system behavior and performance, but it struggles to track the entire lifecycle of each request across different microservices.

Which additional observability approach should this team consider adopting?

- A. Analytics
- B. Metrics
- C. Tracing
- D. Data mining

**Answer: C**

#### NEW QUESTION 63

An organization plans to migrate all its Mule applications to Runtime Fabric (RTF). Currently, all Mule applications have been deployed to CloudHub using automated CI/CD scripts.

What steps should be taken to properly migrate the applications from CloudHub to RTF, while keeping the same automated CI/CD deployment strategy?

- A. A runtimefabric dependency should be added as a mule-plugin to the pom.xml file in all the Mule applications.
- B. runtimeFabric command-line parameter should be added to the CI/CD deployment scripts.
- C. A runtimeFabricDeployment profile should be added to Mule configuration properties YAML files in all the Mule applications.CI/CD scripts must be modified to use the new configuration properties.
- D. runtimefabricDeployment profile should be added to the pom.xml file in all the Mule application
- E. CI/CD scripts must be modified to use the new RTF profile.
- F. - The pom.xml and Mule configuration YAML files can remain unchanged in each Mule application.A --runtimeFabric command-line parameter should be added to the CI/CD deployment scripts

**Answer: D**

#### NEW QUESTION 66

A Mule application is synchronizing customer data between two different database systems.

What is the main benefit of using eXtended Architecture (XA) transactions over local transactions to synchronize these two different database systems?

- A. An XA transaction synchronizes the database systems with the least amount of Mule configuration or coding
- B. An XA transaction handles the largest number of requests in the shortest time
- C. An XA transaction automatically rolls back operations against both database systems if any operation fails

D. An XA transaction writes to both database systems as fast as possible

**Answer:** B

#### NEW QUESTION 70

An organization has deployed both Mule and non-Mule API implementations to integrate its customer and order management systems. All the APIs are available to REST clients on the public internet.

The organization wants to monitor these APIs by running health checks: for example, to determine if an API can properly accept and process requests. The organization does not have subscriptions to any external monitoring tools and also does not want to extend its IT footprint.

What Anypoint Platform feature provides the most idiomatic (used for its intended purpose) way to monitor the availability of both the Mule and the non-Mule API implementations?

- A. API Functional Monitoring
- B. Runtime Manager
- C. API Manager
- D. Anypoint Visualizer

**Answer:** D

#### NEW QUESTION 75

An Order microservice and a Fulfillment microservice are being designed to communicate with their clients through message-based integration (and NOT through API invocations).

The Order microservice publishes an Order message (a kind of command message) containing the details of an order to be fulfilled. The intention is that Order messages are only consumed by one Mule application, the Fulfillment microservice.

The Fulfillment microservice consumes Order messages, fulfills the order described therein, and then publishes an OrderFulfilled message (a kind of event message). Each OrderFulfilled message can be consumed by any interested Mule application, and the Order microservice is one such Mule application.

What is the most appropriate choice of message broker(s) and message destination(s) in this scenario?

- A. Order messages are sent to an Anypoint MQ exchange OrderFulfilled messages are sent to an Anypoint MQ queue Both microservices interact with Anypoint MQ as the message broker, which must therefore scale to support the load of both microservices
- B. Order messages are sent to a JMS queue
- C. OrderFulfilled messages are sent to a JMS topic Both microservices interact with the same JMS provider (message broker) instance, which must therefore scale to support the load of both microservices
- D. Order messages are sent directly to the Fulfillment microservice
- E. OrderFulfilled messages are sent directly to the Order microservice The Order microservice interacts with one AMQP-compatible message broker and the Fulfillment microservice interacts with a different AMQP-compatible message broker, so that both message brokers can be chosen and scaled to best support the load of each microservice
- F. Order messages are sent to a JMS queue
- G. OrderFulfilled messages are sent to a JMS topic The Order microservice interacts with one JMS provider (message broker) and the Fulfillment microservice interacts with a different JMS provider, so that both message brokers can be chosen and scaled to best support the load of each microservice

**Answer:** B

#### NEW QUESTION 77

What are two reasons why a typical MuleSoft customer favors a MuleSoft-hosted Anypoint Platform runtime plane over a customer-hosted runtime for its Mule application deployments? (Choose two.)

- A. Reduced application latency
- B. Increased application isolation
- C. Reduced time-to-market for the first application
- D. Increased application throughput
- E. Reduced IT operations effort

**Answer:** CE

#### NEW QUESTION 81

A Mule application is deployed to a cluster of two(2) customer-hosted Mule runtimes. Currently the node name Alice is the primary node and node named Bob is the secondary node. The mule application has a flow that polls a directory on a file system for new files.

The primary node Alice fails for an hour and then restarts.

After the Alice node completely restarts, from what node are the files polled, and what node is now the primary node for the cluster?

- A. Files are polled from Alice node Alice is now the primary node
- B. Files are polled from Bob node Alice is now the primary node
- C. Files are polled from Alice node Bob is now the primary node
- D. Files are polled from Bob node Bob is now the primary node

**Answer:** D

#### NEW QUESTION 83

A manufacturing company plans to deploy Mule applications to its own Azure Kubernetes service infrastructure. The organization wants to make the Mule applications more available and robust by deploying each Mule application to an isolated Mule runtime in a Docker container while managing all the Mule applications from the MuleSoft-hosted control plane. What choice of runtime plane meets these organizational requirements?

- A. CloudHub 2.0
- B. Customer-hosted self-provisioned runtime plane
- C. Anypoint Service Mesh
- D. Anypoint Runtime Fabric

**Answer: D**

#### NEW QUESTION 85

A new Mule application has been deployed through Runtime Manager to CloudHub 1.0 using a CI/CD pipeline with sensitive properties set as cleartext. The Runtime Manager Administrator opened a high priority incident ticket about this violation of their security requirements indicating these sensitive properties values must not be stored or visible in Runtime Manager but should be changeable in Runtime Manager by Administrators with proper permissions. How can the Mule application be deployed while safely hiding the sensitive properties?

- A. Add an ArrayList of all the sensitive properties?? names in the mule-artifact.json file of the application
- B. Add encrypted versions of the sensitive properties as global configuration properties in the Mule application
- C. Add a new wrapper.java.additional.xx parameter for each sensitive property in the wrapper.conf file used by the CI/CD pipeline scripts
- D. Create a variable for each sensitive property and declare them as hidden in the CI/CD pipeline scripts

**Answer: B**

#### NEW QUESTION 87

A system administrator needs to determine when permissions were last changed for an Anypoint Platform user. Which Anypoint Platform component should the administrator use to obtain this information?

- A. Audit Logging
- B. Anypoint Monitoring
- C. Anypoint Studio
- D. Mule Stack Traces

**Answer: A**

#### NEW QUESTION 91

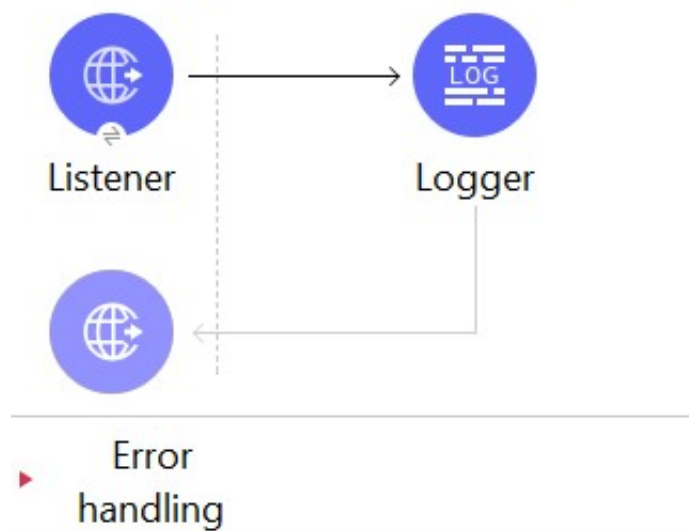
Why would an Enterprise Architect use a single enterprise-wide canonical data model (CDM) when designing an integration solution using Anypoint Platform?

- A. To reduce dependencies when integrating multiple systems that use different data formats
- B. To automate AI-enabled API implementation generation based on normalized backend databases from separate vendors
- C. To leverage a data abstraction layer that shields existing Mule applications from nonbackward compatible changes to the model's data structure
- D. To remove the need to perform data transformation when processing message payloads in Mule applications

**Answer: A**

#### NEW QUESTION 96

Refer to the exhibit.



The HTTP Listener and the Logger are being handled from which thread pools respectively?

- A. CPU\_INTENSIVE and Dedicated Selector pool
- B. UBER and NONBLOCKING
- C. Shared Selector Pool and CPU LITE
- D. BLOCKING\_IO and UBER

**Answer: C**

#### NEW QUESTION 99

An organization is designing an integration solution to replicate financial transaction data from a legacy system into a data warehouse (DWH). The DWH must contain a daily snapshot of financial transactions, to be delivered as a CSV file. Daily transaction volume exceeds tens of millions of records, with significant spikes in volume during popular shopping periods. What is the most appropriate integration style for an integration solution that meets the organization's current requirements?

- A. Event-driven architecture
- B. Microservice architecture
- C. API-led connectivity
- D. Batch-triggered ETL

**Answer: D**

#### NEW QUESTION 101

An organization is creating a Mule application that will be deployed to CloudHub. The Mule application has a property named dbPassword that stores a database user's password.

The organization's security standards indicate that the dbPassword property must be hidden from every Anypoint Platform user after the value is set in the Runtime Manager Properties tab.

What configuration in the Mule application helps hide the dbPassword property value in Runtime Manager?

- A. Use secure::dbPassword as the property placeholder name and store the cleartext (unencrypted) value in a secure properties placeholder file
- B. Use secure::dbPassword as the property placeholder name and store the property encrypted value in a secure properties placeholder file
- C. Add the dbPassword property to the secureProperties section of the pom.xml file
- D. Add the dbPassword property to the secureProperties section of the mule-artifact.json file

**Answer: B**

#### NEW QUESTION 105

An organization is evaluating using the CloudHub shared Load Balancer (SLB) vs creating a CloudHub dedicated load balancer (DLB). They are evaluating how this choice affects the various types of certificates used by CloudHub deployed Mule applications, including MuleSoft-provided, customer-provided, or Mule application-provided certificates. What type of restrictions exist on the types of certificates for the service that can be exposed by the CloudHub Shared Load Balancer (SLB) to external web clients over the public internet?

- A. Underlying Mule applications need to implement own certificates
- B. Only MuleSoft provided certificates can be used for server side certificate
- C. Only self signed certificates can be used
- D. All certificates which can be used in shared load balancer need to get approved by raising support ticket

**Answer: B**

#### NEW QUESTION 106

An application deployed to a runtime fabric environment with two cluster replicas is designed to periodically trigger a flow for processing a high-volume set of records from the source system and synchronize with the SaaS system using the Batch job scope

After processing 1000 records in a periodic synchronization of 1 lakh records, the replicas in which batch job instance was started went down due to unexpected failure in the runtime fabric environment

What is the consequence of losing the replicas that run the Batch job instance?

- A. The remaining 99000 records will be lost and left and processed
- B. The second replicas will take over processing the remaining 99000 records
- C. A new replacement replica will be available and will be process all 1,00,000 records from scratch leading to duplicate record processing
- D. A new placement replica will be available and will take over processing the remaining 99,000 records

**Answer: D**

#### NEW QUESTION 110

Additional nodes are being added to an existing customer-hosted Mule runtime cluster to improve performance. Mule applications deployed to this cluster are invoked by API clients through a load balancer.

What is also required to carry out this change?

- A. A new load balancer must be provisioned to allow traffic to the new nodes in a round-robin fashion
- B. External monitoring tools or log aggregators must be configured to recognize the new nodes
- C. API implementations using an object store must be adjusted to recognize the new nodes and persist to them
- D. New firewall rules must be configured to accommodate communication between API clients and the new nodes

**Answer: B**

#### NEW QUESTION 114

A retailer is designing a data exchange interface to be used by its suppliers. The interface must support secure communication over the public internet. The interface must also work with a wide variety of programming languages and IT systems used by suppliers.

What are suitable interface technologies for this data exchange that are secure, cross-platform, and internet friendly, assuming that Anypoint Connectors exist for these interface technologies?

- A. EDIFACT XML over SFTP JSON/REST over HTTPS
- B. SOAP over HTTPS HOP over TLS gRPC over HTTPS
- C. XML over ActiveMQ XML over SFTP XML/REST over HTTPS
- D. CSV over FTP YAML over TLS JSON over HTTPS

**Answer: C**

#### NEW QUESTION 116

A mule application is required to periodically process large data set from a back-end database to Salesforce CRM using batch job scope configured properly process the higher rate of records.

The application is deployed to two cloudhub workers with no persistence queues enabled. What is the consequence if the worker crashes during records processing?

- A. Remaining records will be processed by a new replacement worker
- B. Remaining records be processed by second worker
- C. Remaining records will be left and processed
- D. All the records will be processed from scratch by the second worker leading to duplicate processing

**Answer: D**

#### NEW QUESTION 120

How should the developer update the logging configuration in order to enable this package specific debugging?

- A. In Anypoint Monitoring, define a logging search query with class property set to org.apache.cxf and level set to DEBUG
- B. In the Mule application's log4j2.xml file, add an AsyncLogger element with name property set to org.apache.cxf and level set to DEBUG, then redeploy the Mule application in the CloudHub production environment
- C. In the Mule application's log4j2.xml file, change the root logger's level property to DEBUG, then redeploy the Mule application to the CloudHub production environment
- D. In Anypoint Runtime Manager, in the Deployed Application Properties tab for the Mule application, add a line item with DEBUG level for package org.apache.cxf and apply the changes

**Answer:** A

#### NEW QUESTION 122

An integration Mute application consumes and processes a list of rows from a CSV file. Each row must be read from the CSV file, validated, and the row data sent to a JMS queue, in the exact order as in the CSV file.

If any processing step for a row falls, then a log entry must be written for that row, but processing of other rows must not be affected.

What combination of Mute components is most idiomatic (used according to their intended purpose) when Implementing the above requirements?

- A. Scatter-Gather component On Error Continue scope
- B. VM connector first Successful scope On Error Propagate scope
- C. For Each scope On Error Continue scope
- D. Async scope On Error Propagate scope

**Answer:** C

#### NEW QUESTION 126

An integration team follows MuleSoft??s recommended approach to full lifecycle API development.

Which activity should this team perform during the API implementation phase?

- A. Validate the API specification
- B. Use the API specification to build the MuleSoft application
- C. Design the API specification
- D. Use the API specification to monitor the MuleSoft application

**Answer:** B

#### NEW QUESTION 131

A large life sciences customer plans to use the Mule Tracing module with the Mapped Diagnostic Context (MDC) logging operations to enrich logging in its Mule application and to improve tracking by providing more context in the Mule application logs. The customer also wants to improve throughput and lower the message processing latency in its Mule application flows.

After installing the Mule Tracing module in the Mule application, how should logging be performed in flows in Mule applications, and what should be changed In the log4j2.xml files?

- A. In the flows, add Mule Tracing module Set logging variable operations before any Core Logger components.In log4j2.xml files, change the appender's pattern layout to use %MDC and then assign the appender to a Logger or Root element.
- B. In the flows, add Mule Tracing module Set logging variable operations before any Core Logger components.In log4j2.xml files, change the appender??s pattern layout to use the %MDC placeholder and then assign the appender to an AsyncLogger element.
- C. In the flows, add Mule Tracing module Set logging variable operations before any Core Logger components.In log4j2.xml files, change the appender??s pattern layout to use %asyncLogger placeholder and then assign the appender to an AsyncLogger element.
- D. In the flows, wrap Logger components in Async scope
- E. In log4j2.xml files, change the appender's pattern layout to use the %asyncLoggerplaceholder and then assign the appender to a Logger or Root element.

**Answer:** A

#### NEW QUESTION 134

An airline is architecting an API connectivity project to integrate its flight data into an online aggregation website. The interface must allow for secure communication high-performance and asynchronous message exchange.

What are suitable interface technologies for this integration assuming that Mulesoft fully supports these technologies and that Anypoint connectors exist for these interfaces?

- A. AsyncAPI over HTTPSAMQP with RabbitMQ JSON/REST over HTTPS
- B. XML over ActiveMQ XML over SFTP XML/REST over HTTPS
- C. CSV over FTP YAM L over TLS JSON over HTTPS
- D. SOAP over HTTPS HOP over TLS gRPC over HTTPS

**Answer:** A

#### NEW QUESTION 138

What requires configuration of both a key store and a trust store for an HTTP Listener?

- A. Support for TLS mutual (two-way) authentication with HTTP clients
- B. Encryption of requests to both subdomains and API resource endpoints fhttps://aDi.customer.com/ and https://customer.com/api)
- C. Encryption of both HTTP request and HTTP response bodies for all HTTP clients
- D. Encryption of both HTTP request header and HTTP request body for all HTTP clients

**Answer:** A

#### NEW QUESTION 141

An organization's IT team must secure all of the internal APIs within an integration solution by using an API proxy to apply required authentication and authorization policies.

Which integration technology, when used for its intended purpose, should the team choose to meet these requirements if all other relevant factors are equal?

- A. API Management (APIM)
- B. Robotic Process Automation (RPA)
- C. Electronic Data Interchange (EDI)
- D. Integration Platform-as-a-service (PaaS)

**Answer:** A

#### NEW QUESTION 145

A company is designing a mule application to consume batch data from a partner's ftps server. The data files have been compressed and then digitally signed using PGP. What inputs are required for the application to securely consume these files?

- A. ATLS context Key Store requiring the private key and certificate for the company PGP public key of partner PGP private key for the company
- B. ATLS context first store containing a public certificate for partner ftps server and the PGP public key of the partner TLS context Key Store containing the FTP credentials
- C. TLS context trust store containing a public certificate for the ftps server The FTP username and password The PGP public key of the partner
- D. The PGP public key of the partner The PGP private key for the company The FTP username and password

**Answer:** D

#### NEW QUESTION 148

An organization is not meeting its growth and innovation objectives because IT cannot deliver projects fast enough to keep up with the pace of change required by the business.

According to MuleSoft's IT delivery and operating model, which step should the organization take to solve this problem?

- A. Modify IT governance and security controls so that line of business developers can have direct access to the organization's systems of record
- B. Switch from a design-first to a code-first approach for IT development
- C. Adopt a new approach that decouples core IT projects from the innovation that happens within each line of business
- D. Hire more IT developers, architects, and project managers to increase IT delivery

**Answer:** C

#### NEW QUESTION 149

A leading bank implementing new mule API.

The purpose of API is to fetch the customer account balances from the backend application and display them on the online banking platform. The online banking platform will send an array of accounts to Mule API get the account balances.

As a part of the processing the Mule API needs to insert the data into the database for auditing purposes and this process should not have any performance related implications on the account balance retrieval flow.

How should this requirement be implemented to achieve better throughput?

- A. Implement the Async scope fetch the data from the backend application and to insert records in the Audit database
- B. Implement a for each scope to fetch the data from the back-end application and to insert records into the Audit database
- C. Implement a try-catch scope to fetch the data from the back-end application and use the Async scope to insert records into the Audit database
- D. Implement parallel for each scope to fetch the data from the backend application and use Async scope to insert the records into the Audit database

**Answer:** C

#### NEW QUESTION 151

An organization is in the process of building automated deployments using a CI/CD process. As a part of automated deployments, it wants to apply policies to API Instances.

What tool can the organization use to promote and deploy API Manager policies?

- A. Anypoint CLI
- B. MUnit Maven plugin
- C. Mule Maven plugin
- D. Runtime Manager agent

**Answer:** A

#### NEW QUESTION 154

An organization's governance process requires project teams to get formal approval from all key stakeholders for all new Integration design specifications. An integration Mule application is being designed that interacts with various backend systems. The Mule application will be created using Anypoint Design Center or Anypoint Studio and will then be deployed to a customer-hosted runtime.

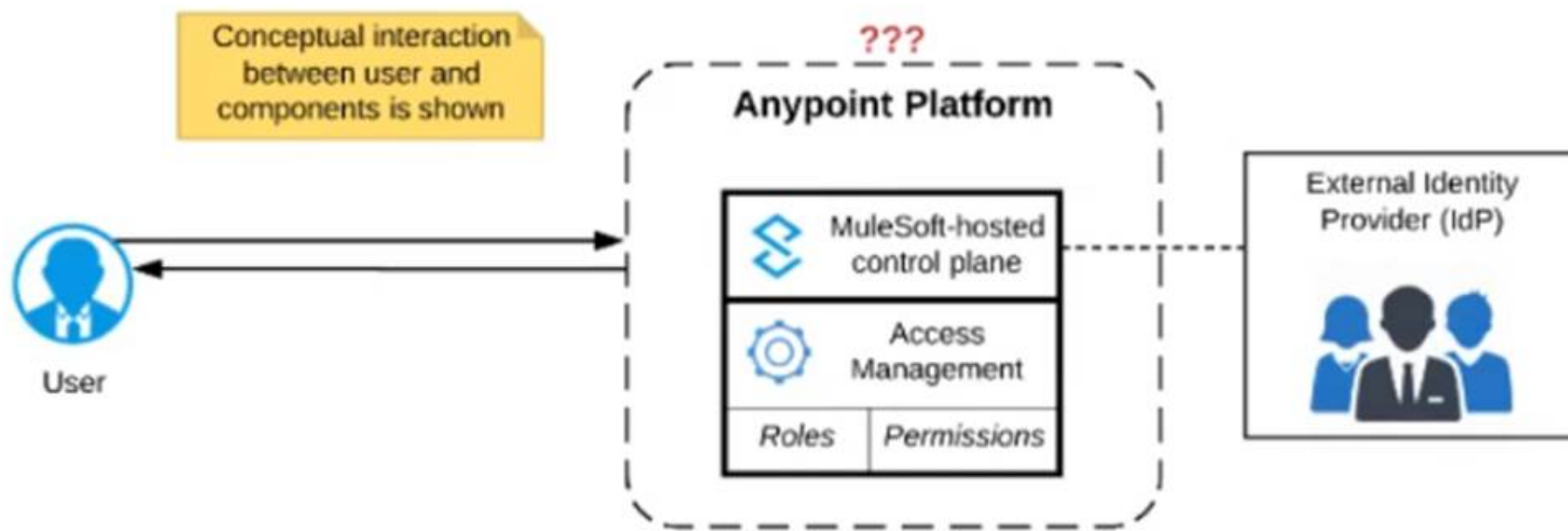
What key elements should be included in the integration design specification when requesting approval for this Mule application?

- A. SLAs and non-functional requirements to access the backend systems
- B. Snapshots of the Mule application's flows, including their error handling
- C. A list of current and future consumers of the Mule application and their contact details
- D. The credentials to access the backend systems and contact details for the administrator of each system

**Answer:** A

#### NEW QUESTION 155

Refer to the exhibit.



Anypoint Platform supports role-based access control (RBAC) to features of the platform. An organization has configured an external Identity Provider for identity management with Anypoint Platform.

What aspects of RBAC must ALWAYS be controlled from the Anypoint Platform control plane and CANNOT be controlled via the external Identity Provider?

- A. Controlling the business group within Anypoint Platform to which the user belongs
- B. Assigning Anypoint Platform permissions to a role
- C. Assigning Anypoint Platform role(s) to a user
- D. Removing a user's access to Anypoint Platform when they no longer work for the organization

**Answer: B**

#### NEW QUESTION 157

A corporation has deployed multiple mule applications implementing various public and private API's to different cloudhub workers. These API's are Critical applications that must be highly available and in line with the reliability SLA as defined by stakeholders.

How can API availability (liveliness or readiness) be monitored so that Ops team receives outage notifications?

- A. Enable monitoring of individual applications from Anypoint monitoring
- B. Configure alerts with failure conditions in runtime manager
- C. Configure alerts failure conditions in API manager
- D. Use any point functional monitoring test API's functional behavior

**Answer: A**

#### NEW QUESTION 160

An Integration Mule application is being designed to synchronize customer data between two systems. One system is an IBM Mainframe and the other system is a Salesforce Marketing Cloud (CRM) instance. Both systems have been deployed in their typical configurations, and are to be invoked using the native protocols provided by Salesforce and IBM.

What interface technologies are the most straightforward and appropriate to use in this Mule application to interact with these systems, assuming that Anypoint Connectors exist that implement these interface technologies?

- A. IBM: DB access CRM: gRPC
- B. IBM: REST CRM: REST
- C. IBM: Active MQ CRM: REST
- D. IBM: CICS CRM: SOAP

**Answer: D**

#### NEW QUESTION 162

A company is implementing a new Mule application that supports a set of critical functions driven by a rest API enabled, claims payment rules engine hosted on oracle ERP. As designed the mule application requires many data transformation operations as it performs its batch processing logic.

The company wants to leverage and reuse as many of its existing java-based capabilities (classes, objects, data model etc.) as possible

What approach should be considered when implementing required data mappings and transformations between Mule application and Oracle ERP in the new Mule application?

- A. Create a new metadata RAML classes in Mule from the appropriate Java objects and then perform transformations via Dataweave
- B. From the mule application, transform via theXSLT model
- C. Transform by calling any suitable Java class from Dataweave
- D. Invoke any of the appropriate Java methods directly, create metadata RAML classes and then perform required transformations via Dataweave

**Answer: C**

#### NEW QUESTION 163

What aspect of logging is only possible for Mule applications deployed to customer-hosted Mule runtimes, but NOT for Mule applications deployed to CloudHub?

- A. To send Mule application log entries to Splunk
- B. To change log4j2 log levels in Anypoint Runtime Manager without having to restart the Mule application
- C. To log certain messages to a custom log category
- D. To directly reference one shared and customized log4j2.xml file from multiple Mule applications

**Answer:** D

#### NEW QUESTION 165

A stock trading company handles millions of trades a day and requires excellent performance and reliability within its stock trading system. The company operates a number of event-driven APIs Implemented as Mule applications that are hosted on various customer-hosted Mule clusters and needs to enable message exchanges between the APIs within their internal network using shared message queues.

What is an effective way to meet the cross-cluster messaging requirements of its event- driven APIs?

- A. Non-transactional JMS operations with a reliability pattern and manual acknowledgements
- B. Persistent VM queues with automatic acknowledgements
- C. JMS transactions with automatic acknowledgements
- D. extended Architecture (XA) transactions and XA connected components with manual acknowledgements

**Answer:** C

#### NEW QUESTION 167

What is a core pillar of the MuleSoft Catalyst delivery approach?

- A. Business outcomes
- B. Technology centralization
- C. Process thinking
- D. Scope reduction

**Answer:** A

#### NEW QUESTION 171

As a part of design , Mule application is required call the Google Maps API to perform a distance computation. The application is deployed to cloudhub. At the minimum what should be configured in the TLS context of the HTTP request configuration to meet these requirements?

- A. The configuration is built-in and nothing extra is required for the TLS context
- B. Request a private key from Google and create a PKCS12 file with it and add it in keyStore as a part of TLS context
- C. Download the Google public certificate from a browser, generate JKS file from it and add it in key store as a part of TLS context
- D. Download the Google public certificate from a browser, generate a JKS file from it and add it in Truststore as part of the TLS context

**Answer:** D

#### NEW QUESTION 174

Mule application A receives a request Anypoint MQ message REQU with a payload containing a variable-length list of request objects. Application A uses the For Each scope to split the list into individual objects and sends each object as a message to an Anypoint MQ queue.

Service S listens on that queue, processes each message independently of all other messages, and sends a response message to a response queue.

Application A listens on that response queue and must in turn create and publish a response Anypoint MQ message RESP with a payload containing the list of responses sent by service S in the same order as the request objects originally sent in REQU.

Assume successful response messages are returned by service S for all request messages.

What is required so that application A can ensure that the length and order of the list of objects in RESP and REQU match, while at the same time maximizing message throughput?

- A. Use a Scatter-Gather within the For Each scope to ensure response message order Configure the Scatter-Gather with a persistent object store
- B. Perform all communication involving service S synchronously from within the For Each scope, so objects in RESP are in the exact same order as request objects in REQU
- C. Use an Async scope within the For Each scope and collect response messages in a second For Each scope in the order In which they arrive, then send RESP using this list of responses
- D. Keep track of the list length and all object indices in REQU, both in the For Each scope and in all communication involving service Use persistent storage when creating RESP

**Answer:** D

#### NEW QUESTION 178

An ABC Farms project team is planning to build a new API that is required to work with data from different domains across the organization.

The organization has a policy that all project teams should leverage existing investments by reusing existing APIs and related resources and documentation that other project teams have already developed and deployed.

To support reuse, where on Anypoint Platform should the project team go to discover and read existing APIs, discover related resources and documentation, and interact with mocked versions of those APIs?

- A. Design Center
- B. API Manager
- C. Runtime Manager
- D. Anypoint Exchange

**Answer:** D

#### NEW QUESTION 179

As a part of project , existing java implementation is being migrated to Mulesoft. Business is very tight on the budget and wish to complete the project in most economical way possible.

Canonical object model using java is already a part of existing implementation. Same object model is required by mule application for a business use case. What is the best way to achieve this?

- A. Make use of Java module

- B. Create similar model for Mule applications
- C. Create a custom application to read Java code and make it available for Mule application
- D. Use Anypoint exchange

**Answer:** A

#### NEW QUESTION 184

Customer has deployed mule applications to different customer hosted mule run times. Mule applications are managed from Anypoint platform. What needs to be configured to monitor these Mule applications from Anypoint monitoring and what sends monitoring data to Anypoint monitoring?

- A. Enable monitoring of individual applications from runtime manager application settings Runtime manager agent sends monitoring data from the mule applications to Anypoint monitoring
- B. Install runtime manager agent on each mule runtime Runtime manager agent since monitoring data from the mule applications to Anypoint monitoring
- C. Anypoint monitoring agent on each mule runtime Anypoint monitoring agent sends monitoring data from the mule applications to Anypoint monitoring
- D. By default, Anypoint monitoring agent will be installed on each Mule run time Anypoint Monitoring agent automatically sends monitoring data from the Mule applications to Anypoint monitoring

**Answer:** A

#### NEW QUESTION 185

As a part of project requirement, client will send a stream of data to mule application. Payload size can vary between 10mb to 5GB. Mule application is required to transform the data and send across multiple sftp servers. Due to the cost cuttings in the organization, mule application can only be allocated one worker with size of 0.2 vCore.

As an integration architect , which streaming strategy you would suggest to handle this scenario?

- A. In-memory non repeatable stream
- B. File based non-repeatable stream
- C. In-memory repeatable stream
- D. File based repeatable storage

**Answer:** D

#### NEW QUESTION 190

A stock broking company makes use of CloudHub VPC to deploy Mule applications. Mule application needs to connect to a database application in the customers on-premises corporate data center and also to a Kafka cluster running in AWS VPC.

How is access enabled for the API to connect to the database application and Kafka cluster securely?

- A. Set up a transit gateway to the customers on-premises corporate datacenter to AWS VPC
- B. Setup AnyPoint VPN to the customer's on-premise corporate data center and VPC peering with AWS VPC
- C. Setup VPC peering with AWS VPC and the customers devices corporate data center
- D. Setup VPC peering with the customers onto my service corporate data center and Anypoint VPN to AWS VPC

**Answer:** B

#### NEW QUESTION 195

When a Mule application using VM queues is deployed to a customer-hosted cluster or multiple CloudHub v1.0 workers/replicas, how are messages consumed across the nodes?

- A. Sequentially, from a dedicated Anypoint MQ queue
- B. Sequentially, only from the primary node
- C. In a non-deterministic way
- D. Round-robin, within an XA transaction

**Answer:** C

#### NEW QUESTION 197

A Mule application is built to support a local transaction for a series of operations on a single database. The Mule application has a Scatter-Gather that participates in the local transaction.

What is the behavior of the Scatter-Gather when running within this local transaction?

- A. Execution of each route within the Scatter-Gather occurs sequentially Any error that occurs inside the Scatter-Gather will result in a rollback of all the database operations
- B. Execution of all routes within the Scatter-Gather occurs in parallel Any error that occurs inside the Scatter-Gather will result in a rollback of all the database operations
- C. Execution of each route within the Scatter-Gather occurs sequentially Any error that occurs inside the Scatter-Gather will NOT result in a rollback of any of the database operations
- D. Execution of each route within the Scatter-Gather occurs in parallel Any error that occurs inside the Scatter-Gather will NOT result in a rollback of any of the database operations

**Answer:** A

#### NEW QUESTION 202

Which key DevOps practice and associated Anypoint Platform component should a MuteSoft integration team adopt to improve delivery quality?

- A. A Continuous design with API Designer
- B. Automated testing with MUnit
- C. Passive monitoring with Anypoint Monitoring

D. Manual testing with Anypoint Studio

**Answer:** B

#### NEW QUESTION 207

An Organization has previously provisioned its own AWS VPC hosting various servers. The organization now needs to use Cloudhub to host a Mule application that will implement a REST API once deployed to Cloudhub, this Mule application must be able to communicate securely with the customer-provisioned AWS VPC resources within the same region, without being interceptable on the public internet.

What Anypoint Platform features should be used to meet these network communication requirements between Cloudhub and the existing customer-provisioned AWS VPC?

- A. Add a Mulesoft hosted Anypoint VPC configured and with VPC Peering to the AWS VPC
- B. Configure an external identity provider (IDP) in Anypoint Platform with certificates from the customer provisioned AWS VPC
- C. Add a default API Whitelisting policy to API Manager to automatically whitelist the customer provisioned AWS VPC IP ranges needed by the Mule application
- D. Use VM queues in the Mule application to allow any non-mule assets within the customer provisioned AWS VPC to subscribe to and receive messages

**Answer:** A

#### NEW QUESTION 209

An organization has just developed a Mule application that implements a REST API. The mule application will be deployed to a cluster of customer hosted Mule runtimes.

What additional infrastructure component must the customer provide in order to distribute inbound API requests across the Mule runtimes of the cluster?

- A. A message broker
- B. An HTTP Load Balancer
- C. A database
- D. An Object Store

**Answer:** B

#### NEW QUESTION 211

An external REST client periodically sends an array of records in a single POST request to a Mule application API endpoint.

The Mule application must validate each record of the request against a JSON schema before sending it to a downstream system in the same order that it was received in the array

Record processing will take place inside a router or scope that calls a child flow. The child flow has its own error handling defined. Any validation or communication failures should not prevent further processing of the remaining records.

To best address these requirements what is the most idiomatic(used for its intended purpose) router or scope to use in the parent flow, and what type of error handler should be used in the child flow?

- A. First Successful router in the parent flow On Error Continue error handler in the child flow
- B. For Each scope in the parent flow On Error Continue error handler in the child flow
- C. Parallel For Each scope in the parent flow On Error Propagate error handler in the child flow
- D. Until Successful router in the parent flow On Error Propagate error handler in the child flow

**Answer:** B

#### NEW QUESTION 215

During a planning session with the executive leadership, the development team director presents plans for a new API to expose the data in the company's order database. An earlier effort to build an API on top of this data failed, so the director is recommending a design-first approach.

Which characteristics of a design-first approach will help make this API successful?

- A. Building MUnit tests so administrators can confirm code coverage percentage during deployment
- B. Publishing the fully implemented API to Exchange so all developers can reuse the API
- C. Adding global policies to the API so all developers automatically secure the implementation before coding anything
- D. Developing a specification so consumers can test before the implementation is built

**Answer:** D

#### NEW QUESTION 218

What API policy would LEAST likely be applied to a Process API?

- A. Custom circuit breaker
- B. Client ID enforcement
- C. Rate limiting
- D. JSON threat protection

**Answer:** D

#### NEW QUESTION 219

A company is modernizing its legal systems to accelerate access to applications and data while supporting the adoption of new technologies. The key to achieving this business goal is unlocking the companies' key systems and data including microservices running under Docker and Kubernetes containers using APIs.

Considering the current aggressive backlog and project delivery requirements the company wants to take a strategic approach in the first phase of its transformation projects by quickly deploying APIs in mule runtime that are able to scale, connect to on-premise systems and migrate as needed.

Which runtime deployment option supports the company's goals?

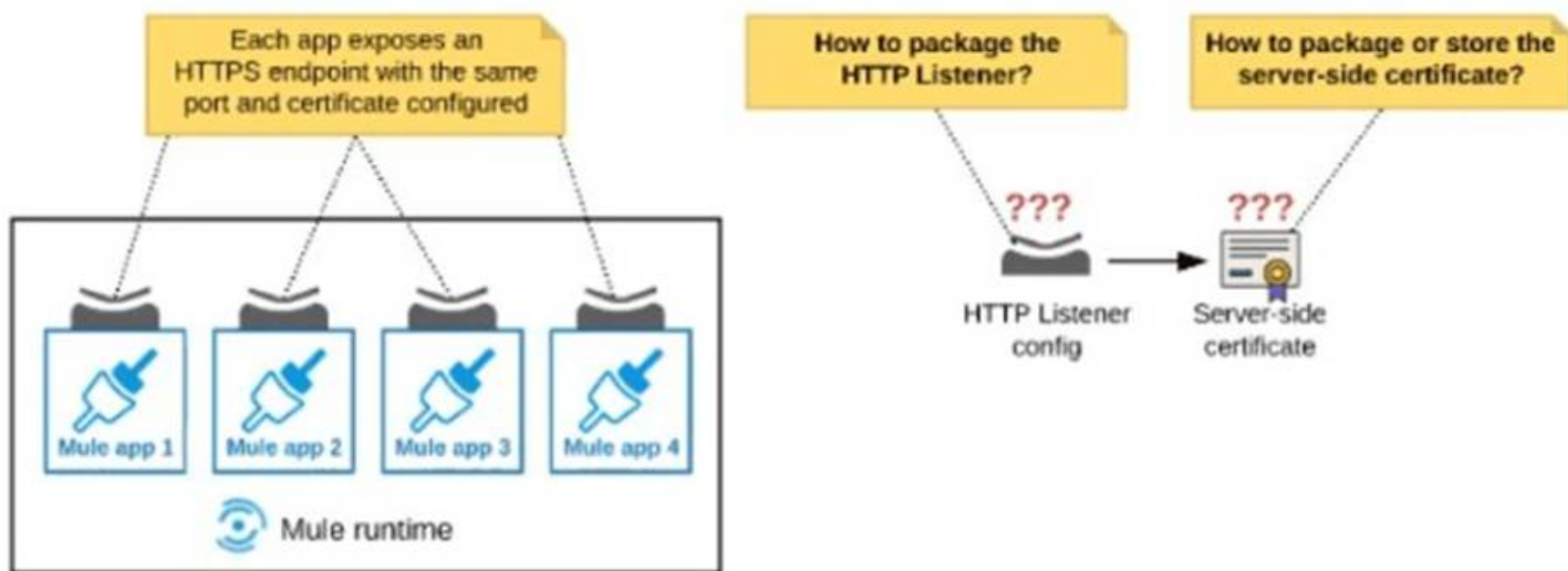
- A. Customer hosted self-provisioned runtimes
- B. Cloudhub runtimes

- C. Runtime fabric on self managed Kubernetes
- D. Runtime fabric on Vmware metal

**Answer: C**

#### NEW QUESTION 220

Refer to the exhibit.



An organization deploys multiple Mule applications to the same customer -hosted Mule runtime. Many of these Mule applications must expose an HTTPS endpoint on the same port using a server-side certificate that rotates often.

What is the most effective way to package the HTTP Listener and package or store the server-side certificate when deploying these Mule applications, so the disruption caused by certificate rotation is minimized?

- A. Package the HTTPS Listener configuration in a Mule DOMAIN project, referencing it from all Mule applications that need to expose an HTTPS endpoint Package the server- side certificate in ALL Mule APPLICATIONS that need to expose an HTTPS endpoint
- B. Package the HTTPS Listener configuration in a Mule DOMAIN project, referencing it from all Mule applications that need to expose an HTTPS endpoint
- C. Store the server-side certificate in a shared filesystem location in the Mule runtime's classpath, OUTSIDE the Mule DOMAIN or any Mule APPLICATION
- D. Package an HTTPS Listener configuration In all Mule APPLICATIONS that need to expose an HTTPS endpoint Package the server-side certificate in a NEW Mule DOMAIN project
- E. Package the HTTPS Listener configuration in a Mule DOMAIN project, referencing It from all Mule applications that need to expose an HTTPS endpoint
- F. Package the server- side certificate in the SAME Mule DOMAIN project Go to Set

**Answer: B**

#### NEW QUESTION 225

How does timeout attribute help inform design decisions while using JMS connector listening for incoming messages in an extended architecture (XA) transaction?

- A. After the timeout is exceeded, stale JMS consumer threads are destroyed and new threads are created
- B. The timeout specifies the time allowed to pass between receiving JMS messages on the same JMS connection and then after the timeout new JMS connection is established
- C. The time allowed to pass between committing the transaction and the completion of the mule flow and then after the timeout flow processing triggers an error
- D. The timeout defines the time that is allowed to pass without the transaction ending explicitly and after the timeout expires, the transaction rolls back

**Answer: D**

#### NEW QUESTION 228

According to the National Institute of Standards and Technology (NIST), which cloud computing deployment model describes a composition of two or more distinct clouds that support data and application portability?

- A. Private cloud
- B. Hybrid cloud
- C. Public cloud
- D. Community cloud

**Answer: B**

#### NEW QUESTION 231

What is a recommended practice when designing an integration Mule 4 application that reads a large XML payload as a stream?

- A. The payload should be dealt with as a repeatable XML stream, which must only be traversed (iterated-over) once and CANNOT be accessed randomly from DataWeave expressions and scripts
- B. The payload should be dealt with as an XML stream, without converting it to a single Java object (POJO)
- C. The payload size should NOT exceed the maximum available heap memory of the Mule runtime on which the Mule application executes
- D. The payload must be cached using a Cache scope If it is to be sent to multiple backend systems

**Answer: C**

#### NEW QUESTION 232

A company is using Mulesoft to develop API's and deploy them to Cloudfoundry and on premises targets. Recently it has decided to enable Runtime Fabric deployment option as well and infrastructure is set up for this option. What can be used to deploy Runtime Fabric?

- A. AnypointCLI
- B. Anypoint platform REST API's
- C. Directly uploading a jar file from the Runtime manager
- D. Mule maven plug-in

**Answer: A**

#### NEW QUESTION 234

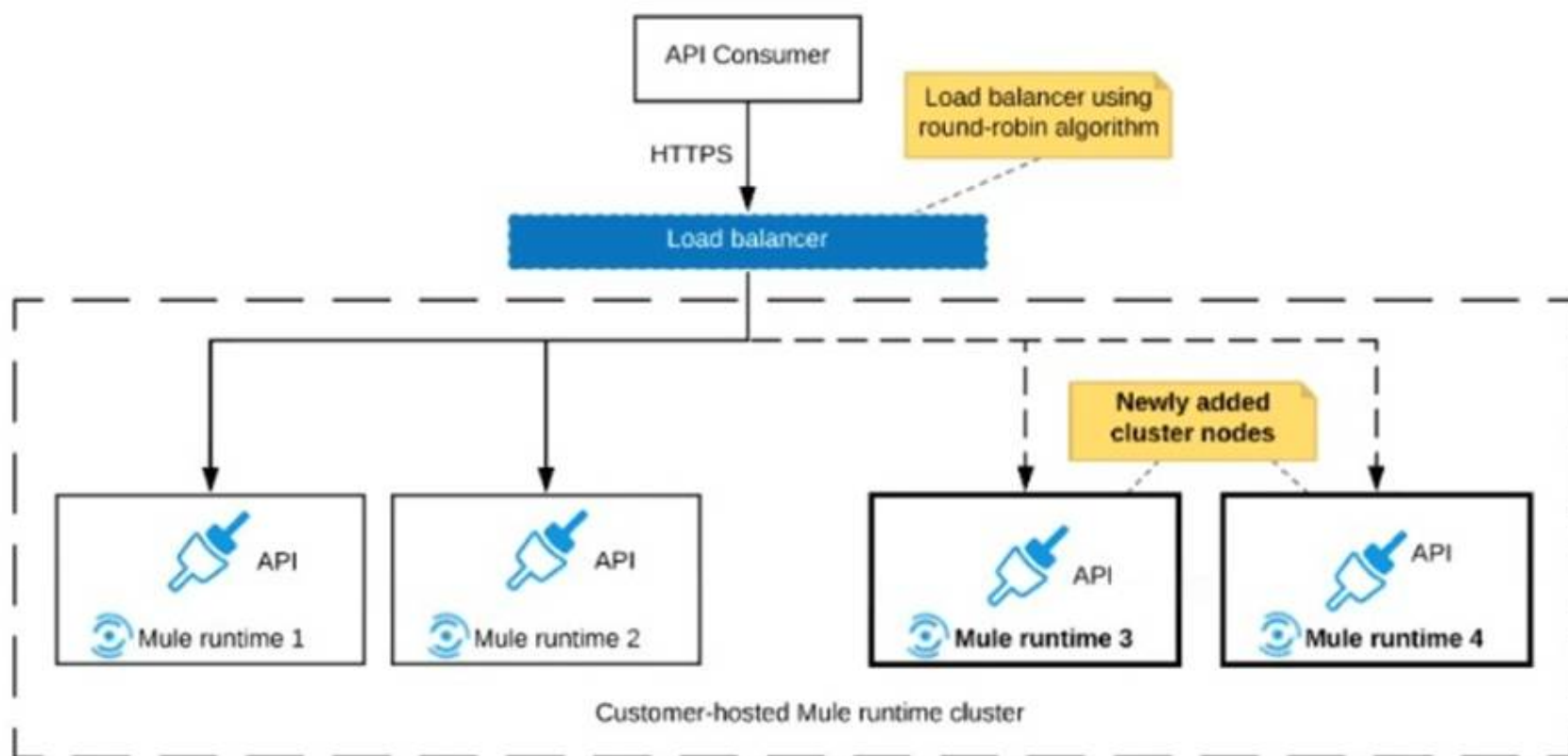
An API has been unit tested and is ready for integration testing. The API is governed by a Client ID Enforcement policy in all environments. What must the testing team do before they can start integration testing the API in the Staging environment?

- A. They must access the API portal and create an API notebook using the Client ID and Client Secret supplied by the API portal in the Staging environment
- B. They must request access to the API instance in the Staging environment and obtain a Client ID and Client Secret to be used for testing the API
- C. They must be assigned as an API version owner of the API in the Staging environment
- D. They must request access to the Staging environment and obtain the Client ID and Client Secret for that environment to be used for testing the API

**Answer: B**

#### NEW QUESTION 235

Refer to the exhibit.



An organization uses a 2-node Mule runtime cluster to host one stateless API implementation. The API is accessed over HTTPS through a load balancer that uses round-robin for load distribution.

Two additional nodes have been added to the cluster and the load balancer has been configured to recognize the new nodes with no other change to the load balancer.

What average performance change is guaranteed to happen, assuming all cluster nodes are fully operational?

- A. 50% reduction in the response time of the API
- B. 100% increase in the throughput of the API
- C. 50% reduction in the JVM heap memory consumed by each node
- D. 50% reduction in the number of requests being received by each node

**Answer: D**

#### NEW QUESTION 236

In one of the critical payment related mule application, transaction is being used. As an enhancement to implementation, scatter gather route is introduced which is also the part of transaction group. Scatter gather route has 4 routes.

What will be the behavior of the Mule application in case of error occurs in 4th route of the scatter-gather router and transaction needs to be rolled back?

- A. Only errored route will be rolled back
- B. All routes will be rolled back
- C. Scatter Gather router cannot be part of transaction

**Answer: B**

#### NEW QUESTION 241

The AnyAirline organization's passenger reservations center is designing an integration solution that combines invocations of three different System APIs (bookFlight, bookHotel, and bookCar) in a business transaction. Each System API makes calls to a single database.

The entire business transaction must be rolled back when at least one of the APIs fails. What is the most idiomatic (used for its intended purpose) way to integrate these APIs in

near real-time that provides the best balance of consistency, performance, and reliability?

- A. Implement eXtended Architecture (XA) transactions between the API implementations Coordinate between the API implementations using a Saga patternImplement caching in each API implementation to improve performance
- B. Implement local transactions within each API implementationConfigure each API implementation to also participate in the same eXtended Architecture (XA) transactionImplement caching in each API implementation to improve performance
- C. Implement local transactions in each API implementation Coordinate between the API implementations using a Saga patternApply various compensating actions depending on where a failure occurs
- D. Implement an eXtended Architecture (XA) transaction manager in a Mule application using a Saga patternConnect each API implementation with the Mule application using XA transactionsApply various compensating actions depending on where a failure occurs

**Answer: C**

#### NEW QUESTION 246

An automation engineer needs to write scripts to automate the steps of the API lifecycle, including steps to create, publish, deploy and manage APIs and their implementations in Anypoint Platform.

What Anypoint Platform feature can be used to automate the execution of all these actions in scripts in the easiest way without needing to directly invoke the Anypoint Platform REST APIs?

- A. Automated Policies in API Manager
- B. Runtime Manager agent
- C. The Mule Maven Plugin
- D. Anypoint CLI

**Answer: D**

#### NEW QUESTION 248

An integration Mule application is being designed to process orders by submitting them to a backend system for offline processing. Each order will be received by the Mule application through an HTTPS POST and must be acknowledged immediately. Once acknowledged, the order will be submitted to a backend system.

Orders that cannot be successfully

submitted due to rejections from the backend system will need to be processed manually (outside the backend system).

The Mule application will be deployed to a customer-hosted runtime and is able to use an existing ActiveMQ broker if needed.

The backend system has a track record of unreliability both due to minor network connectivity issues and longer outages.

What idiomatic (used for their intended purposes) combination of Mule application components and ActiveMQ queues are required to ensure automatic submission of orders to the backend system, while minimizing manual order processing?

- A. An On Error scope Non-persistent VM ActiveMQ Dead Letter Queue for manual processing
- B. An On Error scope MuleSoft Object Store ActiveMQ Dead Letter Queue for manual processing
- C. Until Successful component MuleSoft Object Store ActiveMQ is NOT needed or used
- D. Until Successful component ActiveMQ long retry Queue ActiveMQ Dead Letter Queue for manual processing

**Answer: D**

#### NEW QUESTION 251

An organization is evaluating using the CloudHub shared Load Balancer (SLB) vs creating a CloudHub dedicated load balancer (DLB). They are evaluating how this choice affects the various types of certificates used by CloudHub deployed Mule applications, including MuleSoft-provided, customer-provided, or Mule application-provided certificates.

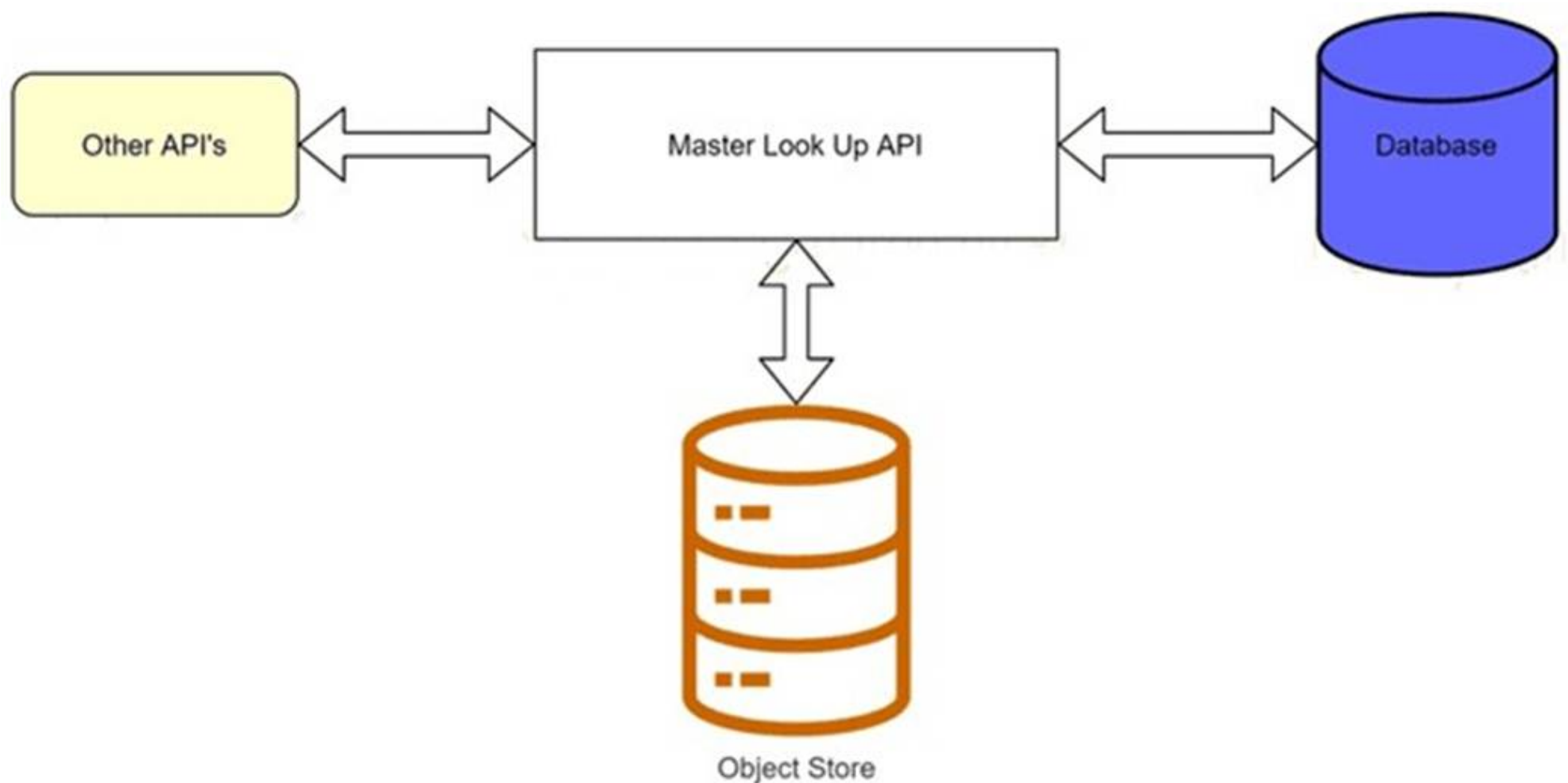
What type of restrictions exist on the types of certificates that can be exposed by the CloudHub Shared Load Balancer (SLB) to external web clients over the public internet?

- A. Only MuleSoft-provided certificates are exposed.
- B. Only customer-provided wildcard certificates are exposed.
- C. Only customer-provided self-signed certificates are exposed.
- D. Only underlying Mule application certificates are exposed (pass-through)

**Answer: A**

#### NEW QUESTION 256

A banking company is developing a new set of APIs for its online business. One of the critical API's is a master lookup API which is a system API. This master lookup API uses persistent object store. This API will be used by all other APIs to provide master lookup data.



Master lookup API is deployed on two cloudhub workers of 0.1 vCore each because there is a lot of master data to be cached. Master lookup data is stored as a key value pair. The cache gets refreshed if they key is not found in the cache.

Doing performance testing it was observed that the Master lookup API has a higher response time due to database queries execution to fetch the master lookup data.

Due to this performance issue, go-live of the online business is on hold which could cause potential financial loss to Bank.

As an integration architect, which of the below option you would suggest to resolve performance issue?

- A. Implement HTTP caching policy for all GET endpoints for the master lookup API and implement locking to synchronize access to object store
- B. Upgrade vCore size from 0.1 vCore to 0,2 vCore
- C. Implement HTTP caching policy for all GET endpoints for master lookup API
- D. Add an additional Cloudhub worker to provide additional capacity

**Answer: A**

#### NEW QUESTION 258

A developer is examining the responses from a RESTful web service that is compliant with the Hypertext Transfer Protocol (HTTP/1.1) as defined by the Internet Engineering Task Force (IETF).

In this HTTP/1.1-compliant web service, which class of HTTP response status codes should be specified to indicate when client requests are successfully received, understood, and accepted by the web service?

- A. 3xx
- B. 2xx
- C. 4xx
- D. 5xx

**Answer: B**

#### NEW QUESTION 261

According to MuleSoft, what Action should an IT organization take regarding its technology assets in order to close the IT delivery.

- A. Make assets easily discoverable via a central repository
- B. Focus project delivery efforts on custom assets that meet the specific requirements of each individual line of business
- C. Create weekly meetings that all members of IT attend to present justification and request approval to use existing assets
- D. Hire additional staff to meet the demand for asset creation required for approved projects and timelines

**Answer: A**

#### NEW QUESTION 264

Refer to the exhibit.

```
traits:
  error-responses: traits/error-responses.raml
  jwt-required:
    headers:
      x-jwt:
        type: string
        description: JWT token string
```

What is the type data format shown in the exhibit?

- A. JSON
- B. XML
- C. YAML
- D. CSV

**Answer: C**

#### NEW QUESTION 265

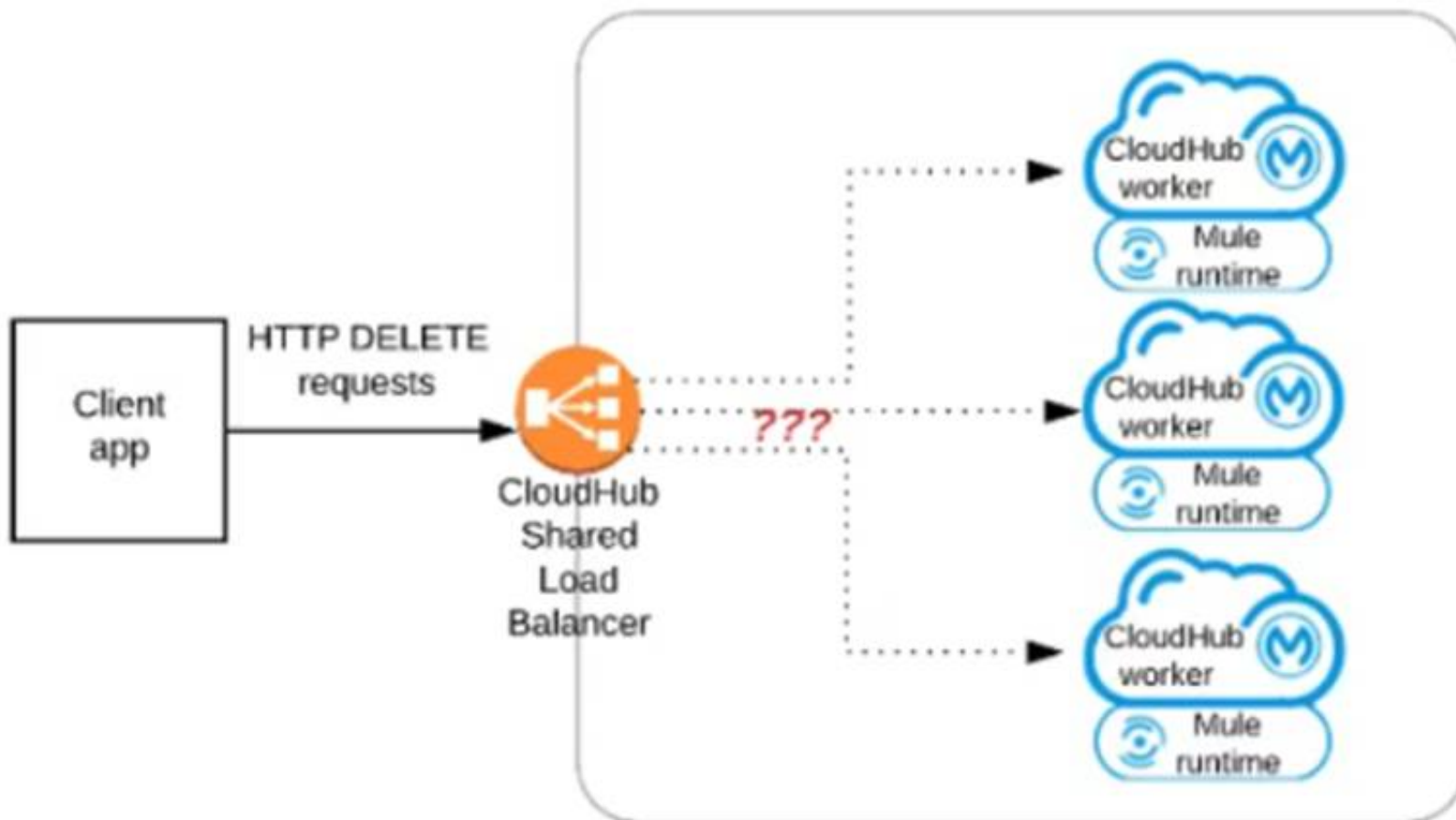
A key CI/CD capability of any enterprise solution is a testing framework to write and run repeatable tests.  
 Which component of Anypoint Platform provides the test automation capabilities for customers to use in their pipelines?

- A. Anypoint CLI
- B. Mule Maven Plugin
- C. Exchange Mocking Service
- D. MUnit

**Answer: D**

#### NEW QUESTION 270

Refer to the exhibit.



A Mule application has an HTTP Listener that accepts HTTP DELETE requests. This Mule application is deployed to three CloudHub workers under the control of the CloudHub Shared Load Balancer.

A web client makes a sequence of requests to the Mule application's public URL.

How is this sequence of web client requests distributed among the HTTP Listeners running in the three CloudHub workers?

- A. Each request is routed to the PRIMARY CloudHub worker in the PRIMARY Availability Zone (AZ)
- B. Each request is routed to ONE ARBITRARY CloudHub worker in the PRIMARY Availability Zone (AZ)
- C. Each request is routed to ONE ARBITRARY CloudHub worker out of ALL three CloudHub workers
- D. Each request is routed (scattered) to ALL three CloudHub workers at the same time

**Answer:** C

**NEW QUESTION 271**

What metrics about API invocations are available for visualization in custom charts using Anypoint Analytics?

- A. Request size, request HTTP verbs, response time
- B. Request size, number of requests, JDBC Select operation result set size
- C. Request size, number of requests, response size, response time
- D. Request size, number of requests, JDBC Select operation response time

**Answer:** C

**NEW QUESTION 275**

An organization is building a test suite for their applications using m-unit. The integration architect has recommended using test recorder in studio to record the processing flows and then configure unit tests based on the capture events

What are the two considerations that must be kept in mind while using test recorder (Choose two answers)

- A. Tests for flows cannot be created with Mule errors raised inside the flow or already existing in the incoming event
- B. Recorder supports smoking a message before or inside a ForEach processor
- C. The recorder support loops where the structure of the data been tested changes inside the iteration
- D. A recorded flow execution ends successfully but the result does not reach its destination because the application is killed
- E. Mocking values resulting from parallel processes are possible and will not affect the execution of the processes that follow in the test

**Answer:** AD

**NEW QUESTION 277**

A MuleSoft developer must implement an API as a Mule application, run the application locally, and execute unit tests against the Running application. Which Anypoint Platform component can the developer use to full all of these requirements?

- A. API Manager
- B. API Designer
- C. Anypoint CLI
- D. Anypoint Studio

**Answer:** D

**NEW QUESTION 280**

An organization is designing Mule application which connects to a legacy backend. It has been reported that backend services are not highly available and experience downtime quite often. As an integration architect which of the below approach you would propose to achieve high reliability goals?

- A. Alerts can be configured in Mule runtime so that backend team can be communicated when services are down
- B. Until Successful scope can be implemented while calling backend API's
- C. On Error Continue scope to be used to call in case of error again
- D. Create a batch job with all requests being sent to backend using that job as per the availability of backend API's

**Answer:** B

**NEW QUESTION 283**

Anypoint Exchange is required to maintain the source code of some of the assets committed to it, such as Connectors, Templates, and API specifications. What is the best way to use an organization's source-code management (SCM) system in this context?

- A. Organizations should continue to use an SCM system of their choice, in addition to keeping source code for these asset types in Anypoint Exchange, thereby enabling parallel development, branching, and merging
- B. Organizations need to use Anypoint Exchange as the main SCM system to centralize versioning and avoid code duplication
- C. Organizations can continue to use an SCM system of their choice for branching and merging, as long as they follow the branching and merging strategy enforced by Anypoint Exchange
- D. Organizations need to point Anypoint Exchange to their SCM system so Anypoint Exchange can pull source code when requested by developers and provide it to Anypoint Studio

**Answer:** B

**NEW QUESTION 284**

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