



# MCIA-LEVEL-1-MAINTENANCE<sup>Q&As</sup>

MuleSoft Certified Integration Architect - Level 1 MAINTENANCE

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**QUESTION 1**

How are the API implementation , API client, and API consumer combined to invoke and process an API ?

- A. The API consumer creates an API implementation , which receives API invocations from an API such that they are processed for an API client
- B. The API consumer creates an API client which sends API invocations to an API such that they are processed by an API implementation
- C. An API client creates an API consumer, which receives API invocation from an API such that they are processed for an API implementation
- D. The API client creates an API consumer which sends API invocations to an API such that they are processed by API implementation

Correct Answer: C

The API consumer creates an API client which sends API invocations to an API such that they are processed by an API implementation This is based on below definitions API client ?An application component ?that accesses a service ?by invoking an API of that service - by definition of the term API over HTTP API consumer ?A business role, which is often assigned to an individual ?that develops API clients, i.e., performs the activities necessary for enabling an API client to invoke APIs API implementation ?An application component ?that implements the functionality

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**QUESTION 2**

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

Correct Answer: CD

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**QUESTION 3**

A company is designing an integration Mule application to process orders by submitting them to a back-end system for offline processing. Each order will be received by the Mule application through an HTTP5 POST and must be acknowledged immediately.

Once acknowledged the order will be submitted to a back-end system. Orders that cannot be successfully submitted due to the rejections from the back-end system will need to be processed manually (outside the banking system).

The mule application will be deployed to a customer hosted runtime and will be able to use an existing ActiveMQ broker if needed. The ActiveMQ broker is located inside the organization\\'s firewall. The back-end system has a track record of



unreliability due to both minor network connectivity issues and longer outages.

Which combination of Mule application components and ActiveMQ queues are required to ensure automatic submission of orders to the back-end system while supporting but minimizing manual order processing?

- A. One or more On Error scopes to assist calling the back-end system An Untill successful scope containing VM components for long retries A persistent dead-letter VM queue configure in Cloud hub
- B. An Until Successful scope to call the back-end system One or more ActiveMQ long-retry queues One or more ActiveMQ dead-letter queues for manual processing
- C. One or more on-Error scopes to assist calling the back-end system one or more ActiveMQ long-retry queues A persistent dead-letter Object store configuration in the CloudHub object store service
- D. A batch job scope to call the back in system An Untill successful scope containing Object Store components for long retries. A dead-letter object store configured in the Mule application

Correct Answer: B

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#### QUESTION 4

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

Correct Answer: D

Reference: <https://docs.mulesoft.com/visualizer/>

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#### QUESTION 5

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

Correct Answer: A

Reference: <https://docs.mulesoft.com/mule-runtime/4.4/transaction-management>

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### QUESTION 6

Which Mulesoft feature helps users to delegate their access without sharing sensitive credentials or giving full control of accounts to 3rd parties?

A. Secure Scheme

B. client id enforcement policy

C. Connected apps

D. Certificates

Correct Answer: C

Connected Apps The Connected Apps feature provides a framework that enables an external application to integrate with Anypoint Platform using APIs through OAuth 2.0 and OpenID Connect. Connected apps help users delegate their access without sharing sensitive credentials or giving full control of their accounts to third parties. Actions taken by connected apps are audited, and users can also revoke access at any time. Note that some products do not currently include client IDs in this release of the Connected Apps feature. The Connected Apps feature enables you to use secure authentication protocols and control an app's access to user data. Additionally, end users can authorize the app to access their Anypoint Platform data.

Mule Ref Doc : <https://docs.mulesoft.com/access-management/connected-apps-overview>

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### QUESTION 7

A rate limiting policy has been applied to a soap V1.2 API published in Cloudfoundry. 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 HTTP 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

Correct Answer: A

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### QUESTION 8

An insurance company is implementing a MuleSoft API to get inventory details from the two vendors. Due to network issues, the invocations to vendor applications are getting timed-out intermittently. But the transactions are successful upon reprocessing

What is the most performant way of implementing this requirement?

- A. Implement a scatter-gather scope to invoke the two vendor applications on two different route Use the Until-Successful scope to implement the retry mechanism for timeout errors on each route
- B. Implement a Choice scope to invoke the two vendor applications on two different route Use the try-catch scope to implement the retry mechanism for timeout errors on each route
- C. Implement a For-Each scope to invoke the two vendor applications Use until successful scope to implement the retry mechanism for the timeout errors
- D. Implement Round-Robin scope to invoke the two vendor applications on two different routes Use the Try-Catch scope to implement retry mechanism for timeout errors on each route

Correct Answer: A

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### QUESTION 9

An organization is designing a mule application to support an all or nothing transaction between several 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

Correct Answer: A

Correct answer is VM VM support Transactional Type. When an exception occur, The transaction rolls back to its original state for reprocessing. This feature is not supported by other connectors. Here is additional information about Transaction management:



	Shared Load Balancer	Dedicated Load Balancer
VPC	Shared VPC (Mulesoft)	VPC (Customer)
Default Load Balancer	Cloudhub provides Deault Shared Load Balancer available in All Environment	Need to Purchase
Organization Use	Multiple Oragnization	Specific to Organization
Certificate	Mulesoft Certificate	Organization Certificate
TLS Support	Yes	Yes
URL Mapping	Fixed URL Mapping	Customer URL Mapping
Timeout	30 Sec Session Timeout	Custom Timeout
Ports	Public Port {80 : 8081, 443 : 8082}	Private Port {80 : 8091, 443 : 8092}
Fashion	Round Robin	Round Robin
Supports HTTPS Protocol	Yes	Yes
Worker Assignment	No	Yes
IP Blacklisting/ Whitelisting	No	Yes
	<a href="https://docs.mulesoft.com/runtime-manager/lb-whitelists">https://docs.mulesoft.com/runtime-manager/lb-whitelists</a>	
Configure Custom Domain	No	Yes
Custom Certificate	No	Yes
Rate Limit	Lower Rate Limit and applied According to Region	Higher Rate Limit Threshold
VPC	Anypoint VPC optional	Can't Use DLB without Anypoint VPC

QUESTION 10

A project team uses RAML specifications to document API functional requirements and deliver API definitions. As per the current legal requirement, all designed API definitions to be augmented with an additional non-functional requirement to protect the services from a high rate of requests according to define service level agreements.





Assuming that the project is following Mulesoft API governance and policies, how should the project team convey the necessary non-functional requirement to stakeholders?

- A. Create proxies in API manager for the non functional requirement and publish to exchange
- B. Add all non functional requirements as comments to RAML specification and publish to exchange
- C. Create various SLA's in API manager for the non functional requirement and publish to exchange
- D. Update API definitions with the fragment for the appropriate policy and publish to exchange

Correct Answer: D

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### QUESTION 11

As a part of business requirement , old CRM system needs to be integrated using Mule application. CRM system is capable of exchanging data only via SOAP/HTTP protocol. As an integration architect who follows API led approach , what is the the below step you will perform so that you can share document with CRM team?

- A. Create RAML specification using Design Center
- B. Create SOAP API specification using Design Center
- C. Create WSDL specification using text editor
- D. Create WSDL specification using Design Center

Correct Answer: C

Explanation: Correct answer is Create WSDL specification using text editor SOAP services are specified using WSDL. A client program connecting to a web service can read the WSDL to determine what functions are available on the server. We can not create WSDL specification in Design Center. We need to use external text editor to create WSDL.

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### QUESTION 12

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

Correct Answer: AD

**QUESTION 13**

A Mule application uses APIkit for SOAP to implement a SOAP web service. The Mule application has been deployed to a CloudHub worker in a testing environment.

The integration testing team wants to use a SOAP client to perform Integration testing. To carry out the integration tests, the integration team must obtain the interface definition for the SOAP web service.

What is the most idiomatic (used for its intended purpose) way for the integration testing team to obtain the interface definition for the deployed SOAP web service in order to perform integration testing with the SOAP client?

- A. Retrieve the OpenAPI Specification file(s) from API Manager
- B. Retrieve the WSDL file(s) from the deployed Mule application
- C. Retrieve the RAML file(s) from the deployed Mule application
- D. Retrieve the XML file(s) from Runtime Manager

Correct Answer: D

Reference: <https://docs.spring.io/spring-framework/docs/4.2.x/spring-framework-reference/html/integration-testing.html>

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**QUESTION 14**

What Mule application can have API policies applied by Anypoint Platform to the endpoint exposed by that Mule application?

- A. A Mule application that accepts requests over HTTP/1x
- B. A Mule application that accepts JSON requests over TCP but is NOT required to provide a response.
- C. A Mule application that accepts JSON requests over WebSocket
- D. A Mule application that accepts gRPC requests over HTTP/2

Correct Answer: A

\*

HTTP/1.1 keeps all requests and responses in plain text format.

\*

HTTP/2 uses the binary framing layer to encapsulate all messages in binary format, while still maintaining HTTP semantics, such as verbs, methods, and headers. It came into use in 2015, and offers several methods to decrease latency, especially when dealing with mobile platforms and server-intensive graphics and videos

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Currently, Mule application can have API policies only for Mule application that accepts requests over HTTP/1x





### QUESTION 15

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 scope that participates in the local transaction.

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

- A. Execution of all routes within Scatter-Gather occurs in parallel Any error that occurs inside Scatter-Gather will result in a roll back of all the database operations
- B. Execution of all routes within Scatter-Gather occurs sequentially Any error that occurs inside Scatter-Gather will be handled by error handler and will not result in roll back
- C. Execution of all routes within Scatter-Gather occurs sequentially Any error that occurs inside Scatter-Gather will result in a roll back of all the database operations
- D. Execution of all routes within Scatter-Gather occurs in parallel Any error that occurs inside Scatter-Gather will be handled by error handler and will not result in roll back

Correct Answer: A

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