

MCD-LEVEL1^{Q&As}

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QUESTION 1

How would you debug Mule applications?

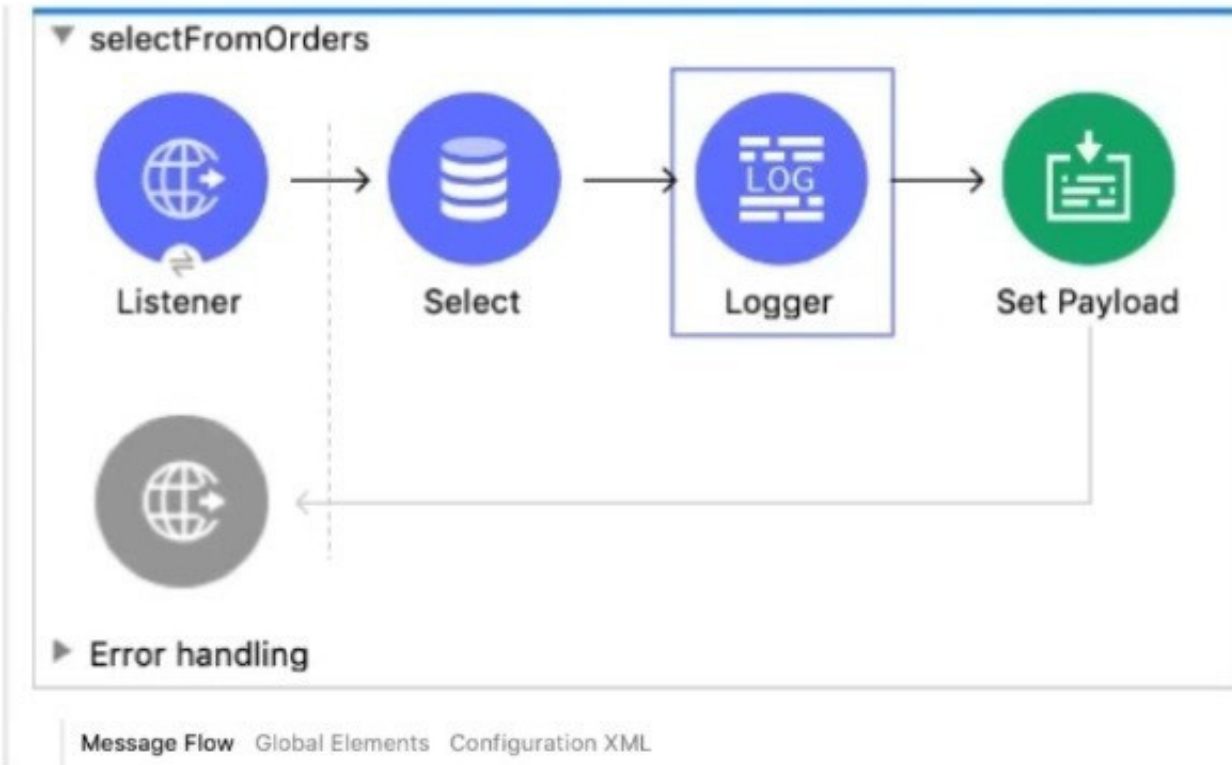
- A. By Deploying apps on production
- B. Checking RAML specifications
- C. Using debugger component
- D. Use third party debugger application

Correct Answer: C

Debugger can be used to debug applications to see event data move from one flow to other

QUESTION 2

Refer to the exhibit.



Logger x Problems Console

General

Metadata

Notes

Help

There are no errors.

Display Name:

Generic

Message:

Level:

Category:

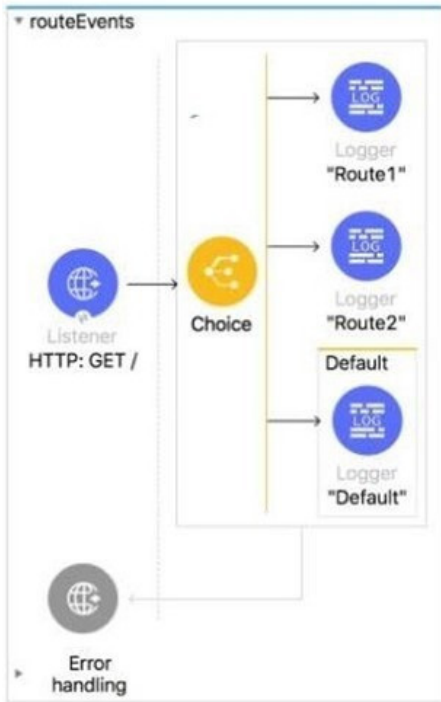
The Database Select operation returns five rows from a database. What is logged by the Logger component?

- A. "Array"
- B. "Object"
- C. "LinkedHashMap"
- D. "CaseInsensitiveHashMap"

Correct Answer: C

QUESTION 3

Refer to the exhibits.



```
<flow name="routeEvents" >
  <http:listener doc:name="HTTP: GET /" config-ref="HTTP_Listener_config"
    path="/" />
  <choice doc:name="Choice" >
    <when expression="true" >
      <logger level="INFO" doc:name="'Route1'" message="Route1"/>
    </when>
    <when expression="true" >
      <logger level="INFO" doc:name="'Route2'" message="Route2"/>
    </when>
    <otherwise >
      <logger level="INFO" doc:name="'Default'" message="Default"/>
    </otherwise>
  </choice>
</flow>
```

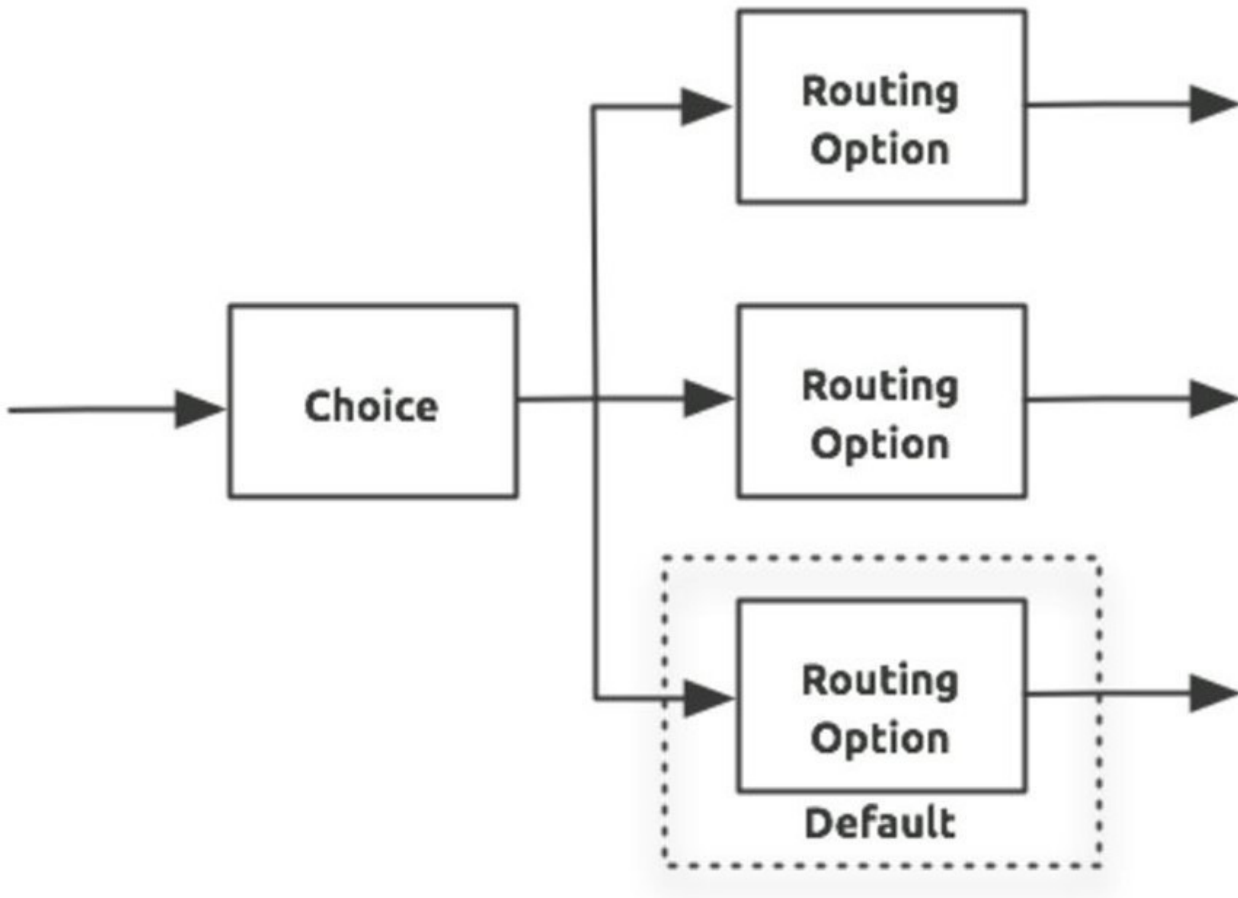
All three of the conditions for the Choice router are true. What messages are written in the application log?

- A. Route1
- B. Route2
- C. Route1,Route2
- D. Route1,Route2,Default

Correct Answer: A

Only one of the routes in the Choice router executes, meaning that the first expression that evaluates to true triggers that route1 execution and the others are not checked. If none of the expressions are true, then the default route executes. Hence only Route1 will be executed as it is the first expression. hence output of logger is Route1. MuleSoft Doc Ref : <https://docs.mulesoft.com/mule-runtime/4.3/choice-router-concept> The Choice router dynamically routes messages through a flow according to a set of DataWeave expressions that evaluate message content. Each expression is associated with a different routing option. The effect is to add conditional processing to a flow, similar to an if/then/else code block in most programming languages.

Only one of the routes in the Choice router executes, meaning that the first expression that evaluates to true triggers that route's execution and the others are not checked. If none of the expressions are true, then the default route executes.



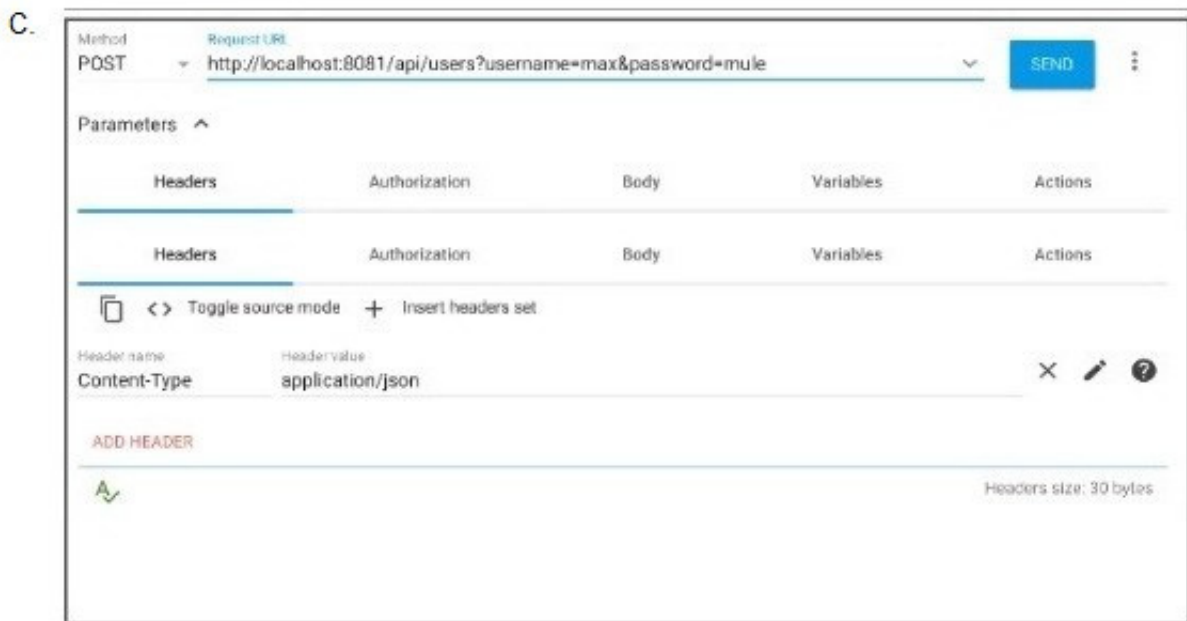
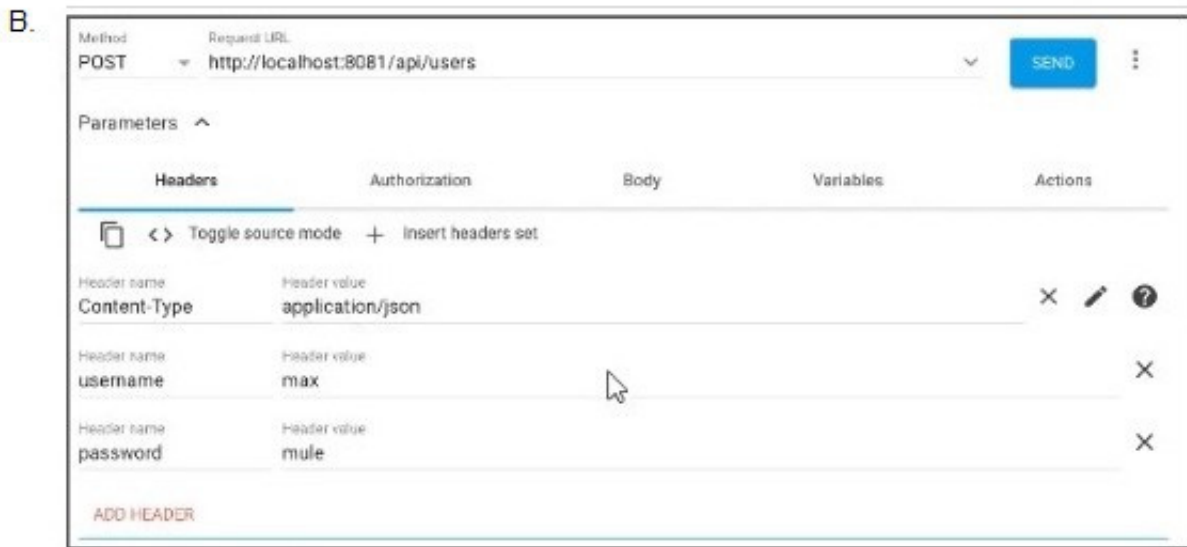
QUESTION 4

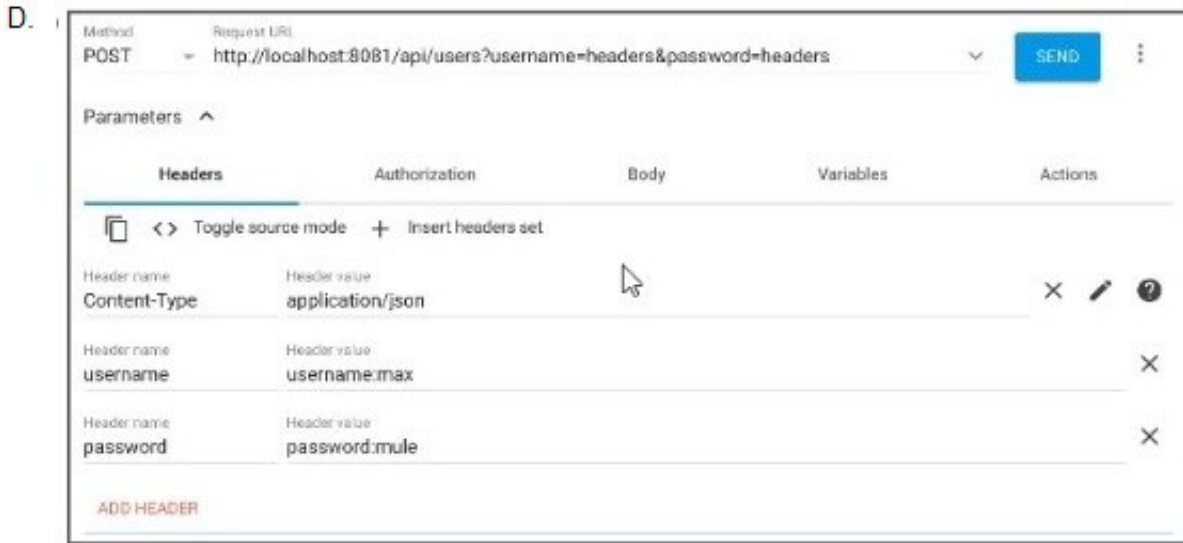
Refer to the exhibit.

```
##RAML 1.0
title: ACME Insurance API

/users:
  post:
    headers:
      username: string
      password: string
    body:
      application/json:
```

What is the correct way to create a user?





A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: B

QUESTION 5

A company has an API to manage departments, with each department identified by a unique deptId. The API was built with RAML according to MuleSoft best practices. What is valid RAML to specify a method to update the details for a specific department?

- A.
 /departments:
 /deptId:
 patch:
- B.
 /departments:
 patch:
 /deptId:
- C.
 /departments:
 patch:
 queryParameters:
 deptId:
- D.
 /departments:
 /{deptId}:
 patch:

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: D

URI parameter is basically used to identify a specific resource or resources

*

Here we want to update details about specific department, so question is asking 'How to use URI parameter' in RAML

*

Correct answer is

```
/departments:
```

```
  /{deptId}:
```

```
    patch:
```

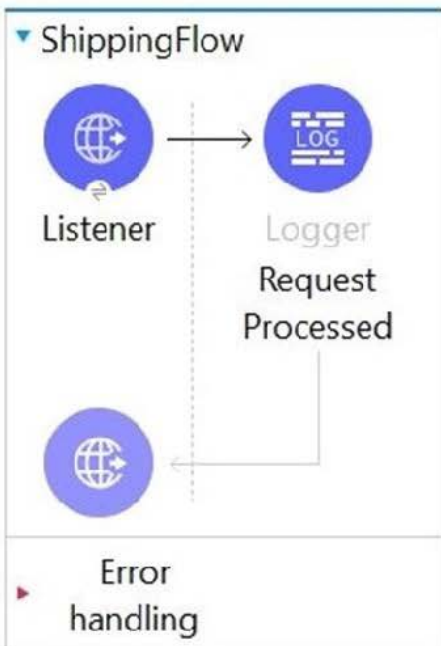
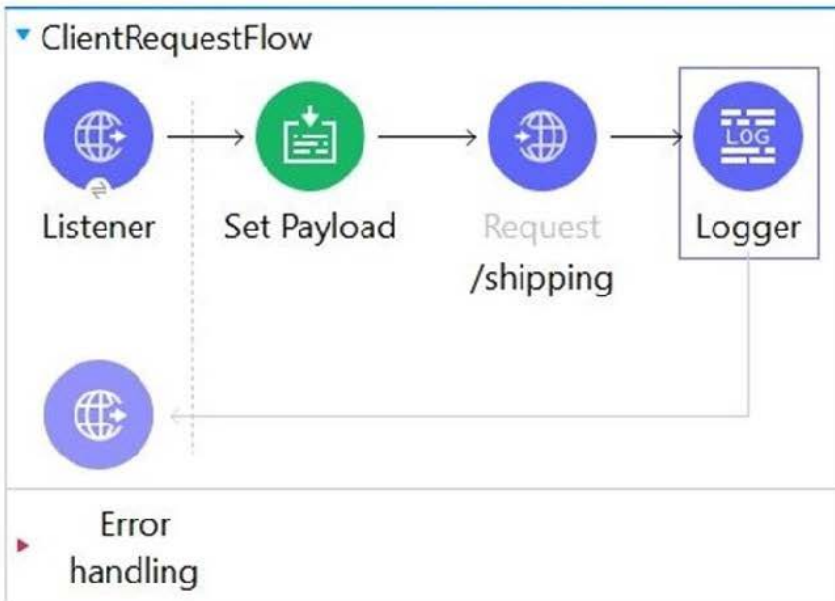
Reference: <https://docs.mulesoft.com/design-center/design-common-problems-raml-10>

QUESTION 6

Refer to the exhibits. Client sends the request to ClientRequestFlow which calls ShippingFlow using HTTP Request activity.

During E2E testing it is found that that HTTP:METHOD_NOT_ALLOWED error is thrown whenever client sends request to this flow.

What attribute you would change in ClientRequestFlow to make this implementation work successfully?



```

<http:listener-config name="HTTP_Listener_config" doc:name="HTTP Listener config" doc:id="a146bd76-e3c2-4db0-95bf-c124e3ddd4d3" >
  <http:listener-connection host="0.0.0.0" port="8081" />
</http:listener-config>
<http:request-config name="HTTP_Request_configuration" doc:name="HTTP Request configuration" doc:id="953ca3a1-728e-4469-88ba-3a80e0d40a19" >
  <http:request-connection host="localhost" port="8081" />
</http:request-config>
<flow name="ClientRequestFlow" doc:id="2fde32c2-877b-4f70-b039-b6f111b3fb0f" >
  <http:listener doc:name="Client HTTP Listener" doc:id="8d3a6e62-4b26-4ec9-9f03-aa0e1d254633" config-ref="HTTP_Listener_config" path="/api/ship"/>
  <set-payload value="#{ product:'Chair', address:'Mumbai'}" doc:name="Set Payload" doc:id="03b6de3a-0a4b-4fdb-b770-f533f3ce63a0" />
  <http:request method="PUT" doc:name="/shipping" doc:id="3a6171a9-2a76-4588-bcdc-4a31ba4881b2" config-ref="HTTP_Request_configuration" path="/shipping"/>
  <logger level="INFO" doc:name="Logger" doc:id="64da1a92-a2c2-45aa-adac-c8bb17eae93b" />
</flow>
<flow name="ShippingFlow" doc:id="904402e3-c1d3-49f0-a7ef-00aa0c4c4936" >
  <http:listener doc:name="Listener" doc:id="485a1626-11b1-41f2-828d-c4d3bcd64b5" config-ref="HTTP_Listener_config" path="/shipping" allowedMethods="POST"/>
  <logger level="INFO" doc:name="Request Processed" doc:id="b7acd0c2-1621-4853-a4be-558b96412650" message="Request Processed"/>
</flow>
    
```

```

*****
Message           : HTTP PUT on resource 'http://localhost:8081/shipping' failed: method not allowed (405).
Element           : ClientRequestFlow/processors/1 @ mule_app:flow1.xml:68 (/shipping)
Element DSL       : <http:request method="PUT" doc:name="/shipping" doc:id="3a6171a9-2a76-4588-bcdc-4a31ba4881b2" config-
ref="HTTP_Request_configuration" path="/shipping"></http:request>
Error type        : HTTP:METHOD_NOT_ALLOWED
FlowStack         : at ClientRequestFlow(ClientRequestFlow/processors/1 @ mule_app:flow1.xml:68 (/shipping))

(set debug level logging or '-Dmule.verbose.exceptions=true' for everything)
*****
    
```

- A. Change the method attribute value to "*"\\\'
- B. Change the path attribute value to "/api/ship"
- C. Change the allowed method attributes value to "POST"
- D. Change the protocol attribute value to "HTTPS"

Correct Answer: C

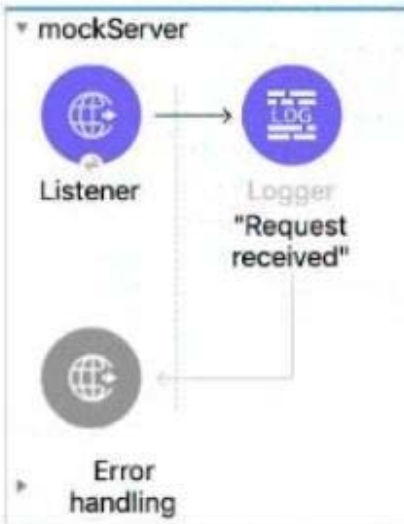
Correct answer is Change the method attributes value to "POST".

It can be fixed in either of the two ways as below.

- 1) Changing method attribute to POST in ClientRequestFlow
 - 2) Setting allowedMethods as PUT in ShippingFlow (but doesn't fit as question mentions about changing ClientRequestFlow)
-

QUESTION 7

Refer to the exhibits. The webClient flow sends requests to the mockServer flow's HTTP Listener.



```

<http:request-config name="HTTP_Request_configuration" doc:name="HTTP Request configuration" basePath="/api/partners" >
  <http:request-connection host="localhost" port="8081" />
</http:request-config>
<flow name="webClient" >
  <scheduler doc:name="Scheduler" >
    <scheduling-strategy >
      <fixed-frequency frequency="10" timeUnit="SECONDS"/>
    </scheduling-strategy>
  </scheduler>
  <set-payload value="#[output application/json --- {oid: 123, qty: 5, description: 'Jet Skies'}]" />
  <http:request doc:name="/fastShipping" config-ref="HTTP_Request_configuration" path="fastShipping" method="PUT"/>
  <logger level="INFO" doc:name="Logger" message="#[payload]" />
</flow>

<http:listener-config name="HTTP_Listener_config" doc:name="HTTP Listener config" basePath="api/partners" >
  <http:listener-connection host="0.0.0.0" port="8081" />
</http:listener-config>
<flow name="mockServer" >
  <http:listener doc:name="Listener" config-ref="HTTP_Listener_config" path="/fastShipping" allowedMethods="POST"/>
  <logger level="INFO" doc:name="Request received" message="#['Request received']" />
</flow>
  
```

```

.....
Message      : HTTP PUT on resource 'http://localhost:8081/api/partners/fastShipping' failed: method not allowed (405).
Element      : webClient/processors/1 @ order-shipping:orderShipping.xml:18 (/fastShipping)
Element DSL  : <http:request doc:name="/fastShipping" config-ref="HTTP_Request_configuration" path="fastShipping" method="PUT"></http:request>
Error type   : HTTP:METHOD_NOT_ALLOWED
FlowStack    : at webClient(webClient/processors/1 @ order-shipping:orderShipping.xml:18 (/fastShipping))

(set debug level logging or '-Dmule.verbose.exceptions=true' for everything)
.....
  
```

An HTTP:METHOD_NOT_ALLOWED error is thrown each time the webClient flow executes.

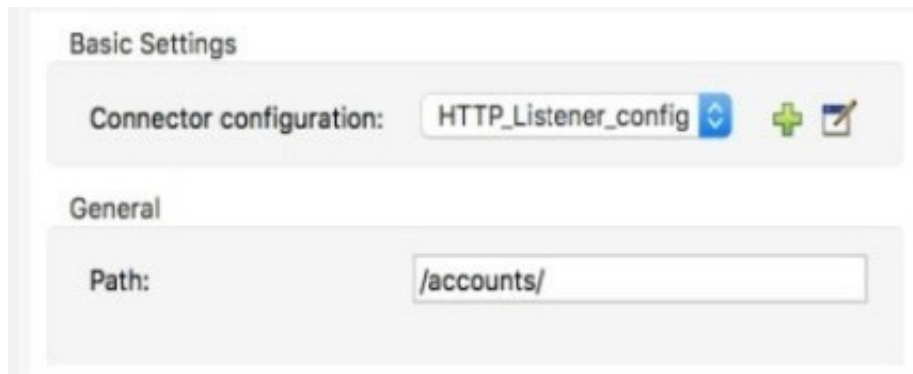
What attribute value must be changed in the webClient flow's HTTP Request operation to prevent this error from being thrown?

- A. Change the protocol attribute's value to "HTTPS"
- B. Change the method attribute's value to "*"
- C. Change the path attribute's value to "/api/partners/fastShipping"
- D. Change the method attribute's value to "POST"

Correct Answer: D

QUESTION 8

Refer to the exhibit.



What is the correct syntax to add a customer ID as a URI parameter in an HTTP Listener's path attribute?

- A. (customerID)
- B. {customerID}
- C. #[customerID]
- D. \${ customerID}

Correct Answer: B

QUESTION 9

What is the correct syntax for a Logger component to output a message with the contents of a JSON Object payload?

- A. The payload is: \$(payload)
- B. #["The payload is: " ++ payload]

C. The payload is: #[payload]

D. #["The payload is: " + payload]

Correct Answer: B

Option 3 is the only correct answer as it concatenates payload with String.

Below option wont work.

#["The payload is " ++ payload]

Concatenation function expects both arguments to be string. As the question says payload is json object , this will throw error while running it. You can try this in Anypoint Studio and you will get the same result which I mentioned.

hence correct answer is

The payload is: #[payload]

QUESTION 10

Why would a Mule application use the `#{http.port}` property placeholder for its HTTP Listener port when it is deployed to CloudHub?

- A. Allows CloudHub to automatically change the HTTP port to allow external clients to connect to the HTTP Listener
- B. Allows CloudHub to automatically register the application with API Manager
- C. Allows MuleSoft Support to troubleshoot the application by connecting directly to the HTTP Listener
- D. Allows clients to VPN directly to the application at the Mule application's configured HTTP port

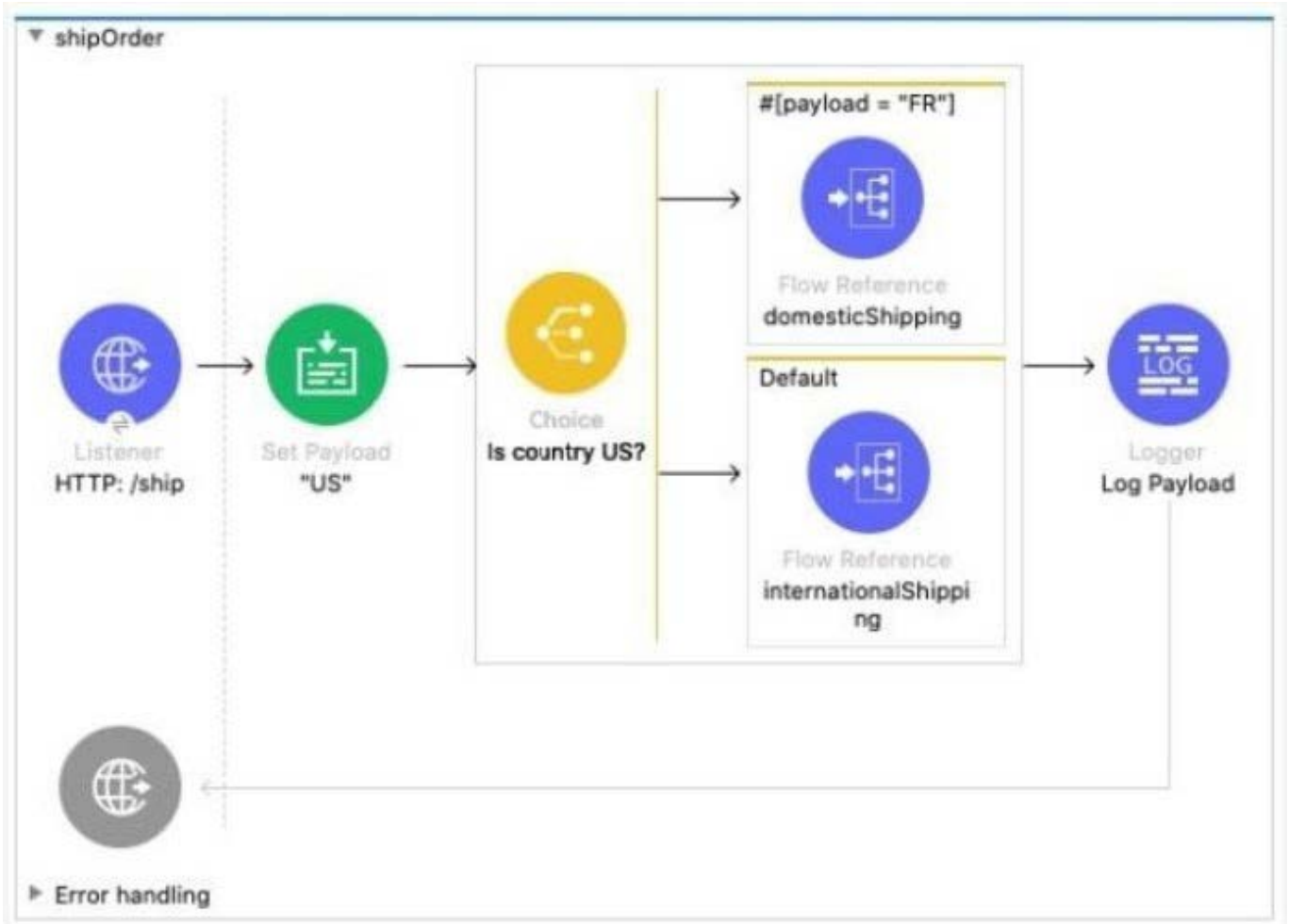
Correct Answer: A

This helps CloudHub to dynamically allocate a port at deployment time.

MuleSoft Doc Ref : <https://docs.mulesoft.com/mule-runtime/4.3/deploy-to-cloudhub#prerequisites> Reference:
<https://docs.mulesoft.com/runtime-manager/developing-applications-for-cloudhub>

QUESTION 11

Refer to the exhibits.



In the Choice router, the When expression for the domesticShipping route is set to "#[payload = \\FR\\]". What is logged after the Choice router completes?

- A. A string with value "FR"
- B. A DataWeave syntax error
- C. The result of the internationalShipping flow
- D. The result of the domesticShipping flow

Correct Answer: B

QUESTION 12

Which of the below functionality is provided by zip operator in DataWeave?

- A. Merges elements of two lists (arrays) into a single list
- B. Used for sending attachments
- C. Minimize the size of long text using encoding.
- D. All of the above

Correct Answer: A

Correct answer is Merges elements of two lists (arrays) into a single list MuleSoft Doc Reference :
<https://docs.mulesoft.com/mule-runtime/4.3/dw-core-functions-zip>

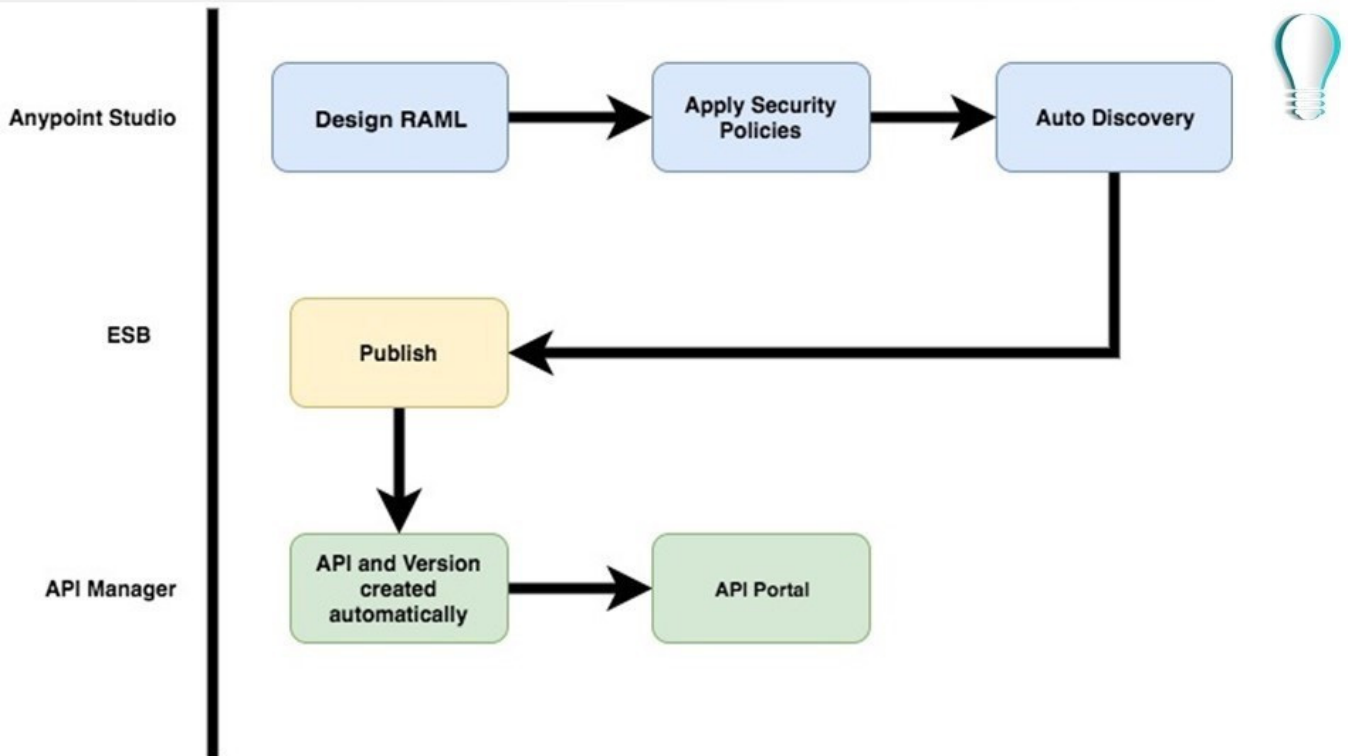
QUESTION 13

An API has been created in Design Center. What is the next step to make the API discoverable?

- A. Publish the API to Anypoint Exchange
- B. Publish the API from inside flow designer
- C. Deploy the API to a Maven repository
- D. Enable autodiscovery in API Manager

Correct Answer: A

Correct answer is Publish the API to Anypoint Exchange Anypoint Exchange makes this possible by making it discoverable in below ways 1) In private exchange for internal developers 2) In a public portal for external developers/clients Here is diagram created by me to help you understand sequence:



QUESTION 14

A Database On Table Row listener retrieves data from a CUSTOMER table that contains a primary key userjd column and an increasing kxjin_date_time column. Neither column allows duplicate values.

How should the listener be configured so it retrieves each row at most one time?

- A. Set the watermark column to the bgin_date_time column
- B. Set the target value to the last retrieved login_date_time value
- C. Set the target value to the last retrieved user_jd value
- D. Set the watermark column to the user_Id column

Correct Answer: A

1. Watermark allows the poll scope to poll for new resources instead of getting the same resource over and over again.

2. The database table must be ordered so that the "watermark functionality" can move effectively in the ordered list. Watermark stores the current/last picked up "record id."

3. If the Mule application is shut down, it will store the last picked up "record id" in the Java Object Store and the data will continue to exist in the file. This watermark functionality is valuable and enables developers to have increased

transparency.

4.

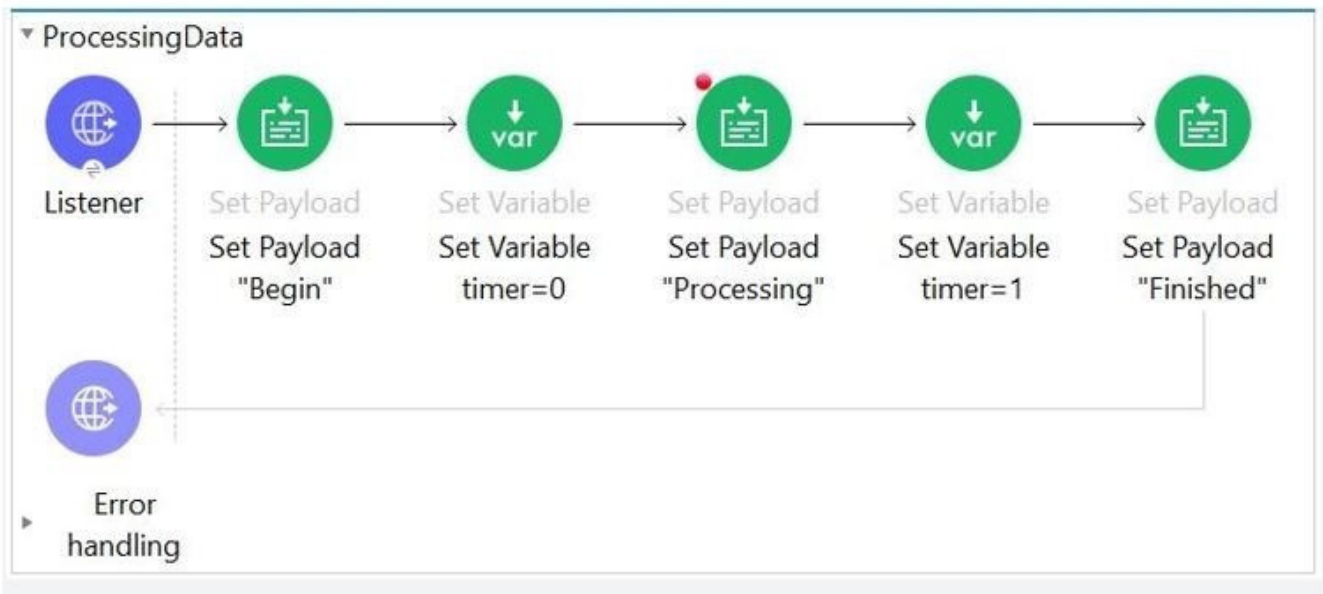
Developers do not need to create code to handle caching; it is all configurable!

5.

There are two columns and both are unique but user_id can't guaranty sequence whereas date_time will always be in increasing order and table content can easily be ordered on the basis of last processed date_time. So correct answer is: Set the watermark column to the date_time column

QUESTION 15

Refer to the exhibits.



The Mule Application is being debugged in Anypoint Studio and stops at breakpoint. What is the value of payload displayed in debugger at this breakpoint?

- A. Processing
- B. Begin
- C. Finished

Correct Answer: B

breakpoint shows us payload at the beginning of the component work: that is *before* it sets the payload (checked it in Studio).

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