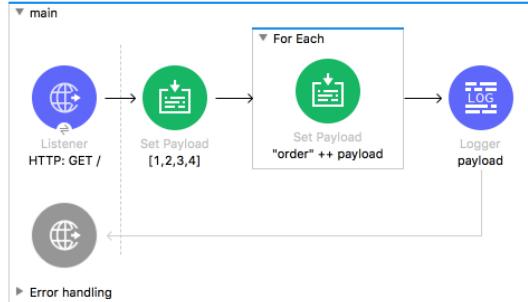


MCD - Level 1 (Mule 4)

Time Remaining: 09:32

- 60 Refer to the exhibits. What payload is logged at the end of the main flow?
of

60.



```
<flow name="main" >
    <http:listener doc:name="HTTP: GET /" config-ref="HTTP_Listener_config" path="/" />
    <set-payload value="#[[1,2,3,4]]" doc:name="Set Payload" />
    <foreach doc:name="For Each" >
        <set-payload value="#["order" ++ payload]" doc:name="Set Payload" />
    </foreach>
    <logger level="INFO" doc:name="payload" message="#[payload]" />
</flow>
```

- A. order4
B. [order1, order2, order3, order4]
C. [1,2,3,4]
D. order1order2order3order4

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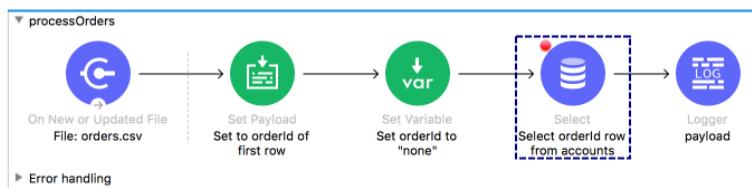
MCD - Level 1 (Mule 4)

Time Remaining: 10:29

- 59 Refer to the exhibits. The orders.csv file is read, then processed to look up the orders in a database. The Mule application is debugged in Anypoint Studio and stops at the breakpoint.

60. What is the payload shown in the debugger at this breakpoint?

orders.csv
orderId,account
100, partnerA
101, acme.com
102, mybank.com
103, onlineSales



- A. 100
B. The database response
C. "none"
D. The entire CSV file

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MCD - Level 1 (Mule 4)

Time Remaining: 11:19

- 58 Refer to the exhibit. The API needs to be updated using the company-wide standard for the Plan data type. The Object of data type has already been published in Anypoint Exchange with the global reference
60. ACME/DataTypes/PlanDataType.raml.

What is a valid RAML specification that reuses the Plan data type?

```
#%RAML 1.0
title: ACME Telecom API
version: 1.0

/plans:
  get:
    responses:
      200:
        body:
          application/json:
            example: [
              [
                {
                  "plan_type": "Super Saver 500",
                  "plan_details": "all-inclusive",
                  "monthly_discount": 0.10
                },
                {
                  "plan_type": "Business Plus 1000",
                  "plan_details": "business package",
                  "monthly_discount": 0.20
                }
              ]
            ]
```

Refer to the exhibit. The API needs to be updated using the company-wide standard for the Plan data type. The Object data type has already been published in Anypoint Exchange with the global reference
ACME/DataTypes/PlanDataType.raml.

What is a valid RAML specification that reuses the Plan data type?

- A.

```
#%RAML 1.0
title: ACME Telecom API
version: 1.0

dataTypes:
  Plan: !reference ACME/DataTypes/PlanDataType.raml

/plans:
  get:
    responses:
      200:
        body:
          application/json:
            type: Plan[]
            example: !reference ACME/Examples/PlanExamples.raml
```
- B.

```
#%RAML 1.0
title: ACME Telecom API
version: 1.0

types:
  Plan: !include ACME/DataTypes/PlanDataType.raml

/plans:
  get:
    responses:
      200:
        body:
          application/json:
            type: Plan[]
            example: !include ACME/Examples/PlanExamples.raml
```
- C.

```
#%RAML 1.0
title: ACME Telecom API
version: 1.0

types:
  Plan: !reference ACME/DataTypes/PlanDataType.raml

/plans:
  get:
    responses:
      200:
        body:
          application/json:
            type: Plan[]
            example: !reference ACME/Examples/PlanExamples.raml
```
- D.

```
#%RAML 1.0
title: ACME Telecom API
version: 1.0

dataTypes:
```

```
Plan: !include ACME/DataTypes/PlanDataType.raml
/plans:
  get:
    responses:
      200:
        body:
          application/json:
            type: Plan[]
            example: !include ACME/Examples/PlanExamples.raml
```

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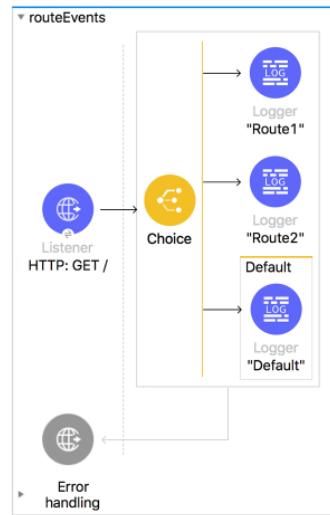
MCD - Level 1 (Mule 4)

Time Remaining: 15:25

- 56 Refer to the exhibits. All three of the conditions for the Choice router are true. What log messages are written?

of

60.



```
<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>
```

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

 Mark this item for later review.[Back](#) [Next >](#) [Review All](#) [Submit Exam](#)

MCD - Level 1 (Mule 4)

Time Remaining: 16:42

55 of 60. What valid RAML retrieves details on a specific order by its orderId as a URI parameter?

A. /orders:
 get:
 /orderId:

B. /orders:
 get:
 /{orderId}:

C. /orders:
 /{orderId}:
 get:

D. /orders:
 /orderId:
 get:

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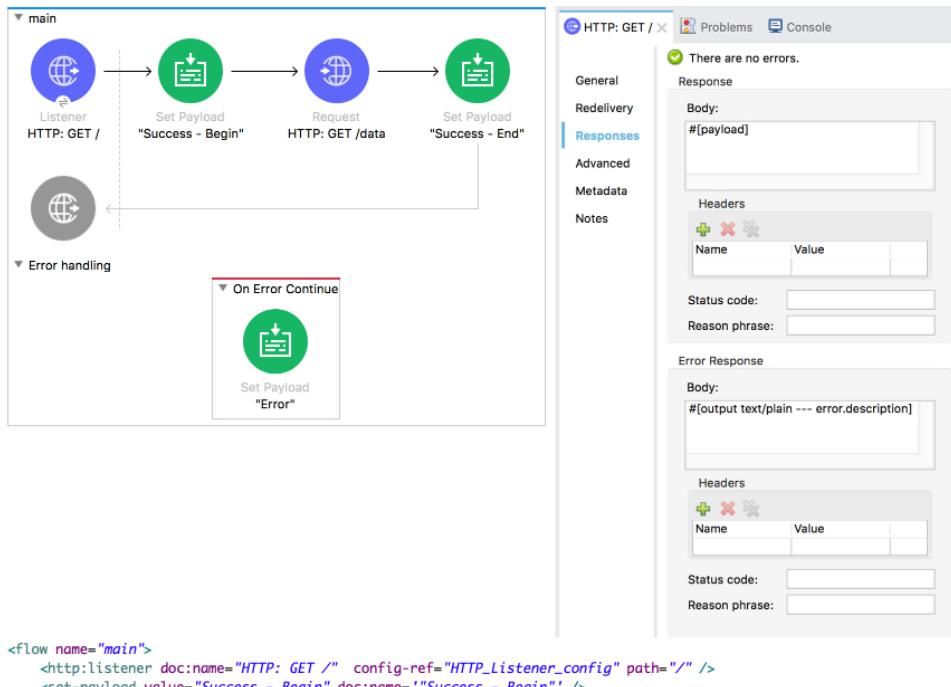
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MCD - Level 1 (Mule 4)

Time Remaining: 17:10

- 54 Refer to the exhibits. A web client submits a request to the HTTP Listener and the HTTP Request throws an error.
of
60. What payload and status code are returned to the web client?



```
<flow name="main">
    <http:listener doc:name="HTTP: GET /" config-ref="HTTP_Listener_config" path="/" />
    <set-payload value="Success - Begin" doc:name="Success - Begin" />
    <http:request method="GET" doc:name="HTTP: GET /data" url="http://mu.learn.mulesoft.com/data"/>
    <set-payload value="Success - End mainFlow" doc:name="Success - End" />
    <error-handler>
        <on-error-continue enableNotifications="true" logException="true" doc:name="On Error Continue">
            <set-payload value="Error" doc:name="Error" />
        </on-error-continue>
    </error-handler>
</flow>
```

Refer to the exhibits. A web client submits a request to the HTTP Listener and the HTTP Request throws an error.

What payload and status code are returned to the web client?

- A. Response body: "Success - Begin"
Default response status code: 200
- B. Error response body: error.description
Default error response status code: 500
- C. Response body: "Error"
Default response status code: 200
- D. Response body: "Success - End"
Default response status code: 200

Mark this item for later review.

MCD - Level 1 (Mule 4)

Time Remaining: 18:37

- 53 Refer to the exhibits. The two Mule configuration files belong to the same Mule project. Each HTTP Listener is configured of with the same host string and the port number, path, and operation values are shown in the display names.

60.

What is the minimum number of global elements that must be defined to support all these HTTP Listeners?



- A. 1
B. 2
C. 3
D. 4

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MCD - Level 1 (Mule 4)

Time Remaining: 22:35

51 Refer to the exhibit. How many private flows does APIkit generate from the RAML specification?

of
60. `%%RAML 1.0`
`title: ACME Airlines`
`version: 1.0`

```
/flights:  
  get:  
    responses:  
      200:  
      404:  
  
  /airline:  
    get:  
      queryParameters:  
        code: string  
      responses:  
        200:  
        404:  
  
  /accounts:  
    get:  
      responses:  
        200:  
        404:  
    post:  
      responses:  
        201:
```

- A. 1
B. 2
C. 3
D. 4

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MCD - Level 1 (Mule 4)

Time Remaining: 24:35

51 Refer to the exhibit. How many private flows does APIkit generate from the RAML specification?

of
60. `#%RAML 1.0
 title: ACME Airlines
 version: 1.0`

```
/flights:  
  get:  
    responses:  
      200:  
      404:  
  
  /airline:  
    get:  
      queryParameters:  
        code: string  
      responses:  
        200:  
        404:  
  
  /accounts:  
    get:  
      responses:  
        200:  
        404:  
    post:  
      responses:  
        201:
```

A. 1

B. 2

C. 3

D. 4

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MCD - Level 1 (Mule 4)

Time Remaining: 29:51

48 of 60. An SLA based policy has been enabled in API Manager. What is the next step to configure the API proxy to enforce the new SLA policy?

- A. Restart the API proxy to clear the API policy cache
- B. Add required headers to the RAML specification and redeploy the new API proxy
- C. Add new property placeholders and redeploy the API proxy
- D. Add new environment variables and restart the API proxy

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MCD - Level 1 (Mule 4)

Time Remaining: 30:47

- 47 Refer to the exhibit. What DataWeave expression transforms the input to the output?

of

60.

The screenshot shows the MuleSoft Anypoint Studio interface. On the left, there is an XML editor titled "order.xml" containing the following XML code:

```
<?xml version="1.0" encoding="UTF-8"?>
<order>
    <item orderId="592">
        <shipping>international</shipping>
        <item>T-shirt Navy</item>
        <size>L</size>
        <quantity>1</quantity>
        <price>20</price>
    </item>
    <item orderId="972">
        <shipping>domestic</shipping>
        <item>Cargo Shorts</item>
        <size>XL</size>
        <quantity>2</quantity>
        <price>30</price>
    </item>
</order>
```

On the right, there is a "Output Payload" panel showing the resulting JSON output:

```
[{"index": 0, "orderId": "592", "itemName": "T-shirt Navy", "lineItemPrice": 20}, {"index": 1, "orderId": "972", "itemName": "Cargo Shorts", "lineItemPrice": 60}]
```

Below the XML editor, there is a "Context payload" button. Below the output panel, there is a yellow box containing four DataWeave options labeled A, B, C, and D.

A. payload.order.*item map ((value,index) -> {
 index: index,
 orderId: value.@orderId,
 itemName: value.item,
 lineItemPrice: (value.price as Number) * (value.quantity as Number)
})

B. payload.order.*item map ((value,index) -> {
 index: index,
 orderId: value.@orderId,
 itemName: value.item,
 lineItemPrice: (value.price as :number) * (value.quantity as :number)
})

C. payload.order.*item map ((value,index) -> {
 index: index,
 orderId: value.orderId,
 itemName: value.item,
 lineItemPrice: (value.price as :number) * (value.quantity as :number)
})

D. payload.order.*item map((value,index) -> {
 index: index,
 orderId: value.orderId,
 itemName: value.item,
 lineItemPrice: (value.price as Number) * (value.quantity as Number)
})

Mark this item for later review.



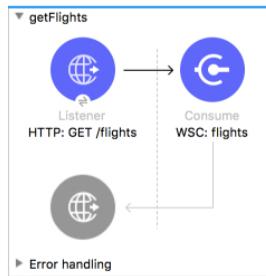
MCD - Level 1 (Mule 4)

Time Remaining: 32:42

- 46 Refer to the exhibits. A web client submits a request to <http://localhost:8081/flights?destination=SFO> and the Web Service Consumer throws a WSC:BAD_REQUEST error.

60.

What is the next step to fix this error?



```
*****
Message           : Cannot build default body request for operation [findFlight], the operation requires input
parameters.
Error type        : WSC:BAD_REQUEST
Element           : 10.02.06-soaperrorFlow/processors/0 @ 10.02.06-soaperror:10.02.06-soaperror.xml:21 (Consume)
Element XML       : <wsc:consume doc:name="Consume" doc:id="49a84a74-2848-4a65-b93f-dcbf59fd4412" config-
ref="Web_Service_Consumer_Config" operation="findFlight"></wsc:consume>
```

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

- A. Set a SOAP payload before the Consume operation that contains the destination query parameter
B. Set a header in the Consume operation equal to the destination query parameter
C. Set a JSON payload before the Consume operation that contains the destination query parameter
D. Set a property in the Consume operation equal to the destination query parameter

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MCD - Level 1 (Mule 4)

Time Remaining: 36:47

44 of 60. What is the correct syntax to define and call a function in DataWeave?

A. %function addKV(object: Object, key: String, value: Any) =
 object ++ { (key):value }

 addKV ({hello: "world"}, "hola","mundo")

B. fun addKV(object: Object, key: String, value: Any) =
 object ++ { (key):value }

 addKV ({hello: "world"}, "hola","mundo")

C. fun addKV(object: Object, key: String, value: Any) =
 object ++ { (key):value }

 { hello: "world" } addKV ("hola","mundo")

D. %function addKV(object: Object, key: String, value: Any) =
 object ++ { (key):value }

 { hello: "world" } addKV ("hola","mundo")

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MCD - Level 1 (Mule 4)

Time Remaining: 40:58

43 of 60. What path setting is required for an HTTP Listener endpoint to route all requests to an APIkit router?

- A. /{}
- B. /{*}
- C. /*
- D. /

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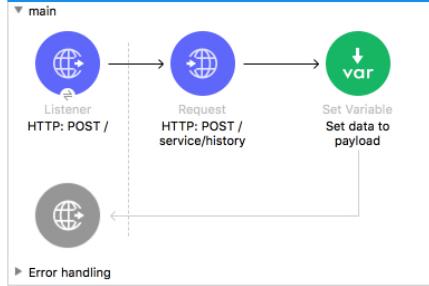
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MCD - Level 1 (Mule 4)

Time Remaining: 41:33

- 42 Refer to the exhibit. What can be added to the flow to persist data across different flow executions?
of
60.



- A. Properties of the Mule runtime app object
- B. Properties of the Mule runtime flow object
- C. Key/value pairs in the ObjectStore
- D. Session variables

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MCD - Level 1 (Mule 4)

Time Remaining: 42:53

41 of 60. Refer to the exhibit. What data is expected by the POST /accounts endpoint?

```
#%RAML 1.0
title: Accounts API
version: 1.0

/accounts:
  get:
    description: Get all accounts
    responses:
      200:
        body:
          application/json:
            example:
              id: "48292"
              name: Geordi La Forge
              address: 1 Forge Way, Midgard, CA 95928
              customer_since: "2014-01-04"
              balance: 4829.29

  post:
    description: Create an account
    body:
      application/json:
        example:
          name: Geordi La Forge
          address: 1 Forge Way, Midgard, CA 95928
          customer_since: "2014-01-04"
          balance: 4829.29
          bank_agent_id: "48-SJT-282924-KL"
```

Refer to the exhibit. What data is expected by the POST /accounts endpoint?

- A. `<item>`
 `<id>48292</id>`
 `<name>Geordi La Forge</name>`
 `<address>1 Forge Way, Midgard, CA 95928</address>`
 `<customer_since>2014-01-04</customer_since>`
 `<balance>4829.29</balance>`
`</item>`
- B. `{`
 `"id": "48292",`
 `"name": "Geordi La Forge",`
 `"address": "1 Forge Way, Midgard, CA 95928",`
 `"customer_since": "2014-01-04",`
 `"balance": 4829.29`
`}`
- C. `<item>`
 `<name>Geordi La Forge</name>`
 `<address>1 Forge Way, Midgard, CA 95928</address>`
 `<customer_since>2014-01-04</customer_since>`
 `<balance>4829.29</balance>`
 `<bank_agent_id>48-SJT-282924-KL</bank_agent_id>`
`</item>`
- D. `{`
 `"name": "Geordi La Forge",`
 `"address": "1 Forge Way, Midgard, CA 95928",`
 `"customer_since": "2014-01-04",`
 `"balance": 4829.29`
 `"bank_agent_id": "48-SJT-282924-KL"`
`}`

 Mark this item for later review.



MCD - Level 1 (Mule 4)

Time Remaining: 44:20

40 of 60. A Mule application contains a global error handler configured to catch any errors.

Where must the global error handler be specified so that the global error handler catches all errors from flows without their own error handlers?

- A. A configuration properties file
- B. A global element
- C. The pom.xml file
- D. Nowhere, the global error handler is automatically used

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MCD - Level 1 (Mule 4)

Time Remaining: 45:11

- 39 of 60.** A Mule project contains a MySQL Database dependency. The project is exported from Anypoint Studio so it can be deployed to CloudHub.

What export options create the smallest deployable archive that will successfully deploy to CloudHub?

- A. Attach project sources
 Include project modules and dependencies
- B. Attach project sources
 Include project modules and dependencies
- C. Attach project sources
 Include project modules and dependencies
- D. Attach project sources
 Include project modules and dependencies

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MCD - Level 1 (Mule 4)

Time Remaining: 46:44

- 38 of 60.** To avoid hard-coding values, a flow uses some property placeholders and the corresponding values are stored in a configuration file.

Where does the configuration file's location need to be specified in the Mule application?

- A. A flow attribute
- B. A global element
- C. The pom.xml file
- D. The mule-artifact.json file

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MCD - Level 1 (Mule 4)

Time Remaining: 47:31

37 of 60. An API specification is designed using RAML. What is the next step to create a REST Connector from this API specification?

- A. Download the API specification and build the interface using APIkit
- B. Publish the API specification to Anypoint Exchange
- C. Implement the API specification using flow designer in Design Center
- D. Add the specification to a Mule project's src/main/resources/api folder

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MCD - Level 1 (Mule 4)

Time Remaining: 48:22

- 36 Refer to the exhibits. What is valid text to set the user field in the Database connector configuration to the username of value specified in the config.yaml file?
60.

General Advanced Transactions

Required Libraries

MySQL JDBC Driver (mysql:mysql-connector-java:8.0.11)

Connection

Host: mudb.learn.mulesoft.com
Port: 3306
User:
Password: Show password
Database: database

config.yaml

```
db:  
  host: "mudb.learn.mulesoft.com"  
  username: "mule"  
  password: "mule"
```

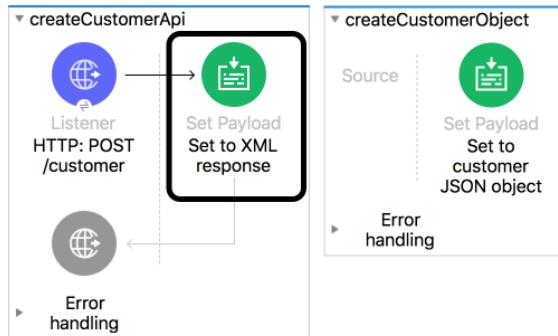
- A. #[db:username]
B. #[db.username]
C. \${db:username}
D. \${db.username}

Mark this item for later review.

MCD - Level 1 (Mule 4)

Time Remaining: 49:27

- 35 Refer to the exhibit. What is the correct DataWeave expression for the Set Payload transformer to call the createCustomerObject flow with values for the first and last names of a new customer?
60.



- A. createCustomerObject({ first: "Alice", last: "Green" })
B. lookup(createCustomerObject, "Alice", "Green"))
C. lookup("createCustomerObject" , { first: "Alice", last: "Green" })
D. createCustomerObject("Alice", "Green")

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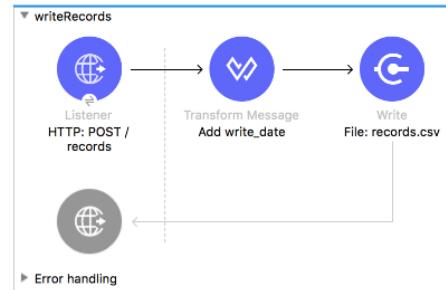
MCD - Level 1 (Mule 4)

Time Remaining: 53:07

- 33 Refer to the exhibits. What is written to the records.csv file when the flow executes?
of

60. Payload

```
{  
    "transaction_id": "SS-4848-44KK-4SYQ",  
    "account_id": "KA-382-SKD44",  
    "name": "Max Mule",  
    "position": "sell"  
}
```



```
<flow name="writeRecords" >  
    <http:listener doc:name="HTTP: POST /records" config-ref="HTTP_Listener_config"  
        path="/records" allowedMethods="POST"/>  
    <ee:transform doc:name="Add write_date">  
        <ee:message>  
            <ee:set-payload ><![CDATA[%dw 2.0  
output application/json  
---  
payload ++ {"write_date": now()}]>  
        </ee:set-payload>  
    </ee:transform>  
    <file:write doc:name="File: records.csv" path="file-store/records.csv">  
        <file:content ><![CDATA[#{payload}]]></file:content>  
    </file:write>  
</flow>
```

- A. Nothing
B. An error message
C. The payload converted to CSV
D. The JSON payload

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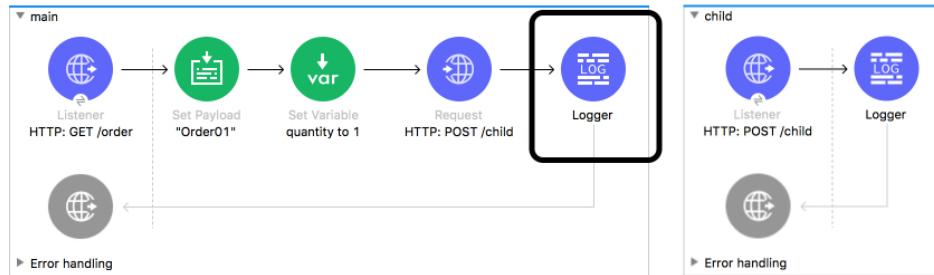
MCD - Level 1 (Mule 4)

Time Remaining: 54:00

- 32** Refer to the exhibits. The main flow contains an HTTP Request in the middle of the flow. The HTTP Listeners and HTTP Request use default configurations.

60.

What values are accessible to the Logger at the end of the main flow after a web client submits a request to <http://localhost:8081/order?color=red>?



```

<http:request method="POST" doc:name="HTTP: POST /child" url="http://localhost:8081/child"></http:request>
<logger level="INFO" doc:name="Logger" />
</flow>

<flow name="child" >
    <http:listener doc:name="HTTP: POST /child" config-ref="HTTP_Listener_config" path="/child"/>

```

- A. payload
- B. payload
quantity var
- C. payload
color query param
- D. payload
quantity var
color query param

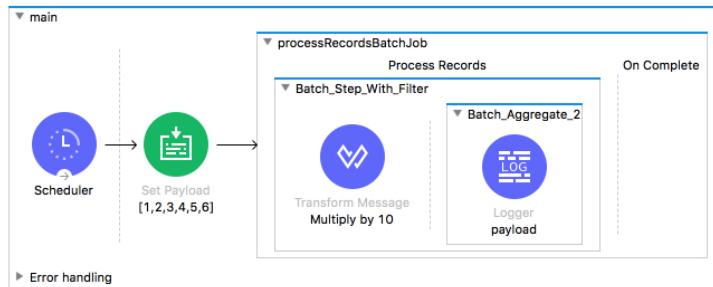
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MCD - Level 1 (Mule 4)

Time Remaining: 55:28

- 31 Refer to the exhibits. The Batch Job processes, filters, and aggregates records. What is the expected output from the of Logger component?
 60.



```
<flow name="main" >
    <scheduler doc:name="Scheduler" > <scheduling-strategy >
        <fixed-frequency frequency="10000"/> </scheduling-strategy> </scheduler>
        <set-payload value="#{[[1,2,3,4,5,6]]}" doc:name="[[1,2,3,4,5,6]]" />
        <batch:job jobName="processRecordsBatchJob" >
            <batch:process-records >
                <batch:step name="Batch_Step_With_Filter" acceptExpression="#{(payload mod 2) == 0}">
                    <ee:transform doc:name="Multiply by 10"><ee:message >
                        <ee:set-payload ><!CDATA[

```

Refer to the exhibits. The Batch Job processes, filters, and aggregates records. What is the expected output from the Logger component?

- A. [20, 40]
[60]
- B. [10, 20, 30, 40, 50, 60]
- C. [10, 20]
[30, 40]
[50, 60]
- D. [20, 40, 60]

 Mark this item for later review.



MCD - Level 1 (Mule 4)

Time Remaining: 56:41

- 30 Refer to the exhibit. What DataWeave expression transforms the input to the output?

of

60.

The screenshot shows a DataWeave transformation. The input JSON is:

```
[{"orderID": 592, "shipping": "international", "item": "T-shirt Navy", "size": "L", "quantity": 1, "price": 20}, {"orderID": 972, "shipping": "domestic", "item": "Cargo Shorts", "size": "XL", "quantity": 2, "price": 30}]
```

The output XML is:

```
<?xml version='1.0' encoding='UTF-8'?>
<order>
  <item>
    <itemName>T-shirt Navy</itemName>
    <total>20</total>
  </item>
  <item>
    <itemName>Cargo Shorts</itemName>
    <total>60</total>
  </item>
</order>
```

A. payload map ((value, index) ->
order: {
 item: {
 itemName: value.item,
 total: value.price * value.quantity
 }
}
)

B. order:
{(
 payload map ((value,index) ->
 item: {
 itemName: value.item,
 total: value.price * value.quantity
 }
)
)}

C. order:
payload map ((value,index) ->
item: {
 itemName: value.item,
 total: value.price * value.quantity
})

D. {{(
 payload map ((value, index) ->
 order: {
 item: {
 itemName: value.item,
 total: value.price * value.quantity
 }
 }
)
)}}

Mark this item for later review.

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MCD - Level 1 (Mule 4)

Time Remaining: 58:30

29 of 60. According to MuleSoft, what is the first step to create a Modern API?

- A. Performance tune and optimize the backend systems and network
- B. Create a prototype of the API implementation
- C. Create an API specification and get feedback from stakeholders
- D. Gather a list of requirements to secure the API

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MCD - Level 1 (Mule 4)

Time Remaining: 1:00:36

- 27 of 60.** An On Table Row Database listener retrieves data from a table that contains record_id, an increasing numerical column.

How should the listener be configured so it retrieves new rows at most one time?

- A. Set the target to the record_id column
- B. Set the watermark column to the record_id column
- C. Set the target to store the last retrieved record_id value
- D. Set the ObjectStore to store the last retrieved record_id value

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MCD - Level 1 (Mule 4)

Time Remaining: 1:01:19

- 26 of 60.** 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}

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MCD - Level 1 (Mule 4)

Time Remaining: 1:02:27

- 25** A RAML specification is defined to manage customers with a unique identifier for each customer record. What URI does
of MuleSoft recommend to uniquely access the customer identified with the unique ID 1234?

- 60.
- A. /customers/custid=1234
 - B. /customers/1234
 - C. /customers?custid=true&custid=1234
 - D. /customers?operation=get&custid=1234

Mark this item for later review.

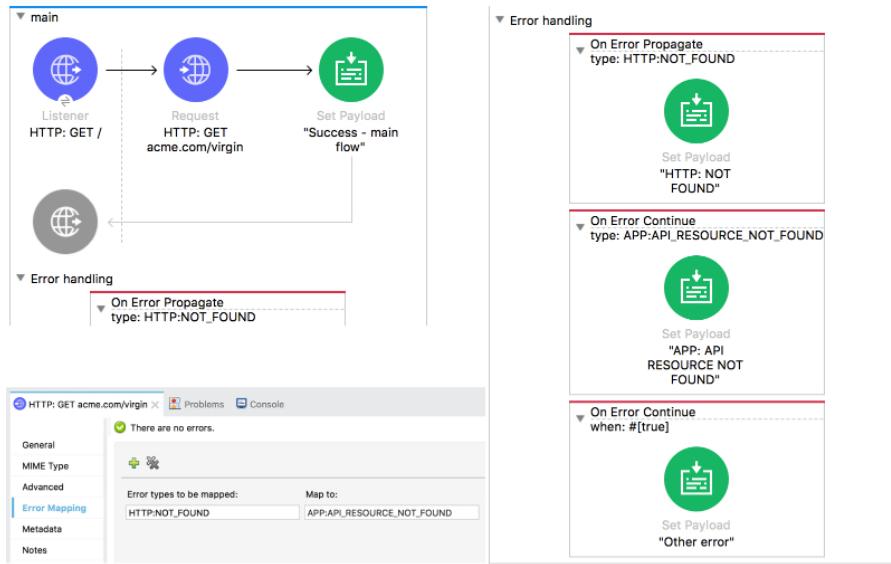
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MCD - Level 1 (Mule 4)

Time Remaining: 1:03:59

- 24 Refer to the exhibits. The main flow is configured with three error handlers. A web client submits a request to the HTTP Listener and the HTTP Request throws an HTTP:NOT_FOUND error.
60. What response message is returned?"



```
<http:listener-config name="HTTP_Listener_config" doc:name="HTTP Listener config">
    <http:listener-connection host="0.0.0.0" port="8081" />
</http:listener-config>

<flow name="main">
    <http:listener doc:name="HTTP: GET /" config-ref="HTTP_Listener_config" path="/" />
    <http:request method="GET" doc:name="HTTP: GET acme.com/virgin" url="http://acme.com/virgin" />
        <error-mapping sourceType="HTTP:NOT_FOUND" targetType="APP:API_RESOURCE_NOT_FOUND" />
    </http:request>
```

Refer to the exhibits. The main flow is configured with three error handlers. A web client submits a request to the HTTP Listener and the HTTP Request throws an HTTP:NOT_FOUND error.

What response message is returned?

- A. Other error
- B. APP: API RESOURCE NOT FOUND
- C. HTTP: NOT FOUND
- D. Success - main flow

Mark this item for later review.

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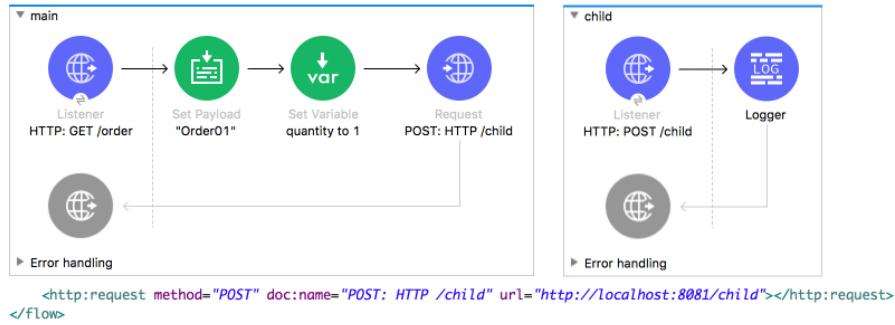
MCD - Level 1 (Mule 4)

Time Remaining: 1:06:52

23 Refer to the exhibits. The main flow contains an HTTP Request. The HTTP Listeners and HTTP Request use default configurations.

60.

What values are accessible in the child flow after a web client submits a request to <http://localhost:8081/order?color=red>?



- A. payload
- B. payload
quantity var
- C. payload
color query param
- D. payload
quantity var
color query param

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MCD - Level 1 (Mule 4)

Time Remaining: 1:08:39

- 22 of 60.** A web client submits a request to <http://localhost:8081?firstName=john>. What is the correct DataWeave expression to access the firstName parameter?

- A. #[message.queryParams.firstName]
- B. #[attributes.'http.query.params'.firstName]
- C. #[attributes.queryParams.firstName]
- D. #[message.inboundProperties.'http.query.params'.firstName]

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MCD - Level 1 (Mule 4)

Time Remaining: 1:09:28

- 21 of 60** An API implementation has been deployed to CloudHub and now needs to be governed. IT will not allocate additional vCores for a new Mule application to act as an API proxy.

What is the next step to preserve the current vCore usage, but still allow the Mule application to be managed by API Manager?

- A. Register the same API implementation in Runtime Manager to connect to API Manager
- B. Modify the API implementation to use auto-discovery to register with API Manager
- C. Upload the Mule application's JAR file to the API instance in API Manager
- D. Deploy the same API implementation behind a VPC and configure the VPC to connect to API Manager

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MCD - Level 1 (Mule 4)

Time Remaining: 1:12:54

- 20 Refer to the exhibit. What is the correct way to create a user?
of
60. #**%RAML 1.0**
title: ACME Insurance API

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

A.

Method: POST Request URL: http://localhost:8081/api/users?username=max&password=mule SEND

Parameters ^

Headers	Authorization	Body	Variables	Actions
Content-Type: application/json				X ⚡ ?

Header name: Content-Type Header value: application/json ADD HEADER Headers size: 30 bytes

B.

Method: POST Request URL: http://localhost:8081/api/users/max/mule SEND

Parameters ^

Headers	Authorization	Body	Variables	Actions
Content-Type: application/json				X ⚡ ?

Header name: Content-Type Header value: application/json ADD HEADER Headers size: 30 bytes

C.

Method: POST Request URL: http://localhost:8081/api/users SEND

Parameters ^

Headers	Authorization	Body	Variables	Actions
Content-Type: application/json				X ⚡ ?

Header name: Content-Type Header value: application/json
Header name: username Header value: max
Header name: password Header value: mule ADD HEADER

D.

Method: POST Request URL: http://localhost:8081/api/users?username=headers&password=headers SEND

Parameters ^

Headers	Authorization	Body	Variables	Actions
Content-Type: application/json				X ⚡ ?

Header name: Content-Type Header value: application/json
Header name: username Header value: username:max
Header name: password Header value: password:mule ADD HEADER

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MCD - Level 1 (Mule 4)

Time Remaining: 1:14:42

- 19 Refer to the exhibit. The error occurs when a project is run in Anypoint Studio. The project, which has a dependency that is not in the MuleSoft Maven repository, was created and successfully run on a different computer.

60. What is the next step to fix the error to get the project to run successfully?

```
[WARNING] The POM for com.mulesoft.training:mock-servers:jar:1.1.2 is missing, no dependency information available
[INFO] -----
[INFO] BUILD FAILURE
[INFO] -----
[INFO] Total time: 0.253 s
[INFO] Finished at: 2018-06-14T10:52:39-07:00
[INFO] Final Memory: 190M/867M
[INFO] -----
[ERROR] Failed to execute goal on project app-server: Could not resolve dependencies for project com.mycompany:app-server:mule-application:1.0.0-SNAPSHOT: Failure to find com.mulesoft.training:mock-servers:jar:1.1.2 in https://repository.mulesoft.org/nexus-ee/content/repositories/releases-ee/ was cached in the local repository, resolution will not be reattempted until the update interval of MuleRepository has elapsed or updates are forced -> [Help 1]
```

- A. Add the dependency to the MULE_HOME/bin folder
- B. Deploy the dependency to MuleSoft's Maven repository
- C. Install the dependency to the computer's local Maven repository
- D. Edit the dependency in the Mule project's pom.xml file

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MCD - Level 1 (Mule 4)

Time Remaining: 1:17:16

- 18** An app team is developing a mobile banking app. It took them two months to create their own APIs to access transaction information from a central database. The app team later found out that another team had already built an API that
60. accesses the transaction information they need.

According to MuleSoft, what organization structure could have saved the app team two months of development time?

- A. MuleSoft Support Center
- B. Central API Review Board
- C. Center for Enablement
- D. Center of Excellence

Mark this item for later review.

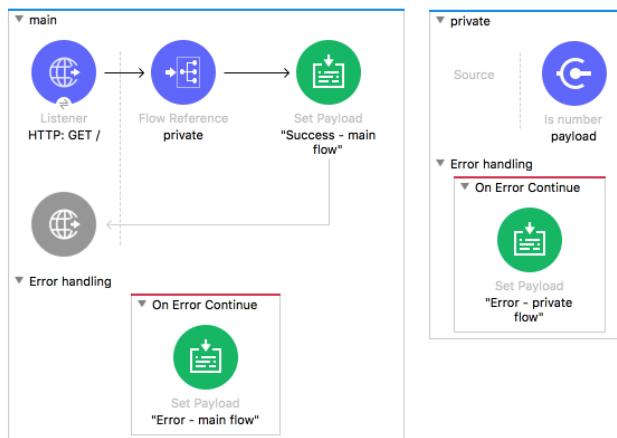
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MCD - Level 1 (Mule 4)

Time Remaining: 1:18:49

- 17 Refer to the exhibits. The Validation component in the private flow throws an error.
of
60. What response message is returned to a client request to the main flow's HTTP Listener?



```
<flow name="main" >
  <http:listener doc:name="HTTP: GET /" config-ref="HTTP_Listener_config" path="/" />
  <flow-ref doc:name="private" name="private"/>
  <set-payload value="Success - main flow" doc:name="Success - main flow" />
  <error-handler>
    <on-error-continue enableNotifications="true" logException="true" doc:name="On Error Continue">
      <set-payload value="Error - main flow" doc:name="Error - main flow" />
    </on-error-continue>
  </error-handler>
</flow>

<flow name="private" >
  <validation:is-number numberType="INTEGER" doc:name="payload" value="#{payload}" message="Validation Error" />
  <error-handler>
    <on-error-continue enableNotifications="true" logException="true" doc:name="On Error Continue">
      <set-payload value="Error - private flow" doc:name="Error - private flow" />
    </on-error-continue>
  </error-handler>
</flow>
```

Refer to the exhibits. The Validation component in the private flow throws an error.

What response message is returned to a client request to the main flow's HTTP Listener?

- A. Error - main flow
- B. Success - main flow
- C. Error - private flow
- D. Validation Error

Mark this item for later review.

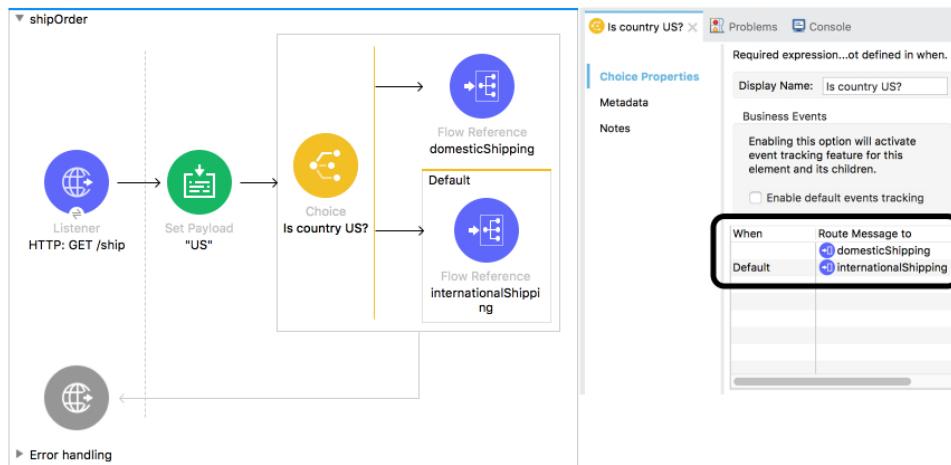
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MCD - Level 1 (Mule 4)

Time Remaining: 1:22:32

- 16 Refer to the exhibits. What is a valid expression for the Choice router's When expression to route events to the domesticShipping flow?
60.



- A. #[payload = 'US']
B. #[payload == 'US']
C. #[if(payload = 'US')]
D. #[if(payload == 'US')]

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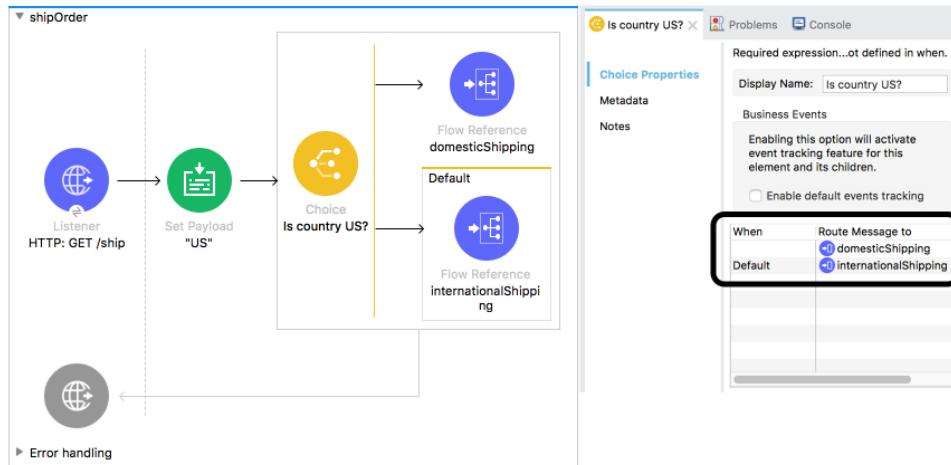


MCD - Level 1 (Mule 4)

Time Remaining: 1:24:05

- 16 Refer to the exhibits. What is a valid expression for the Choice router's When expression to route events to the domesticShipping flow?

60.



- A. #[payload = 'US']
B. #[payload == 'US']
C. #[if(payload == 'US')]
D. #[if(payload == 'US')]

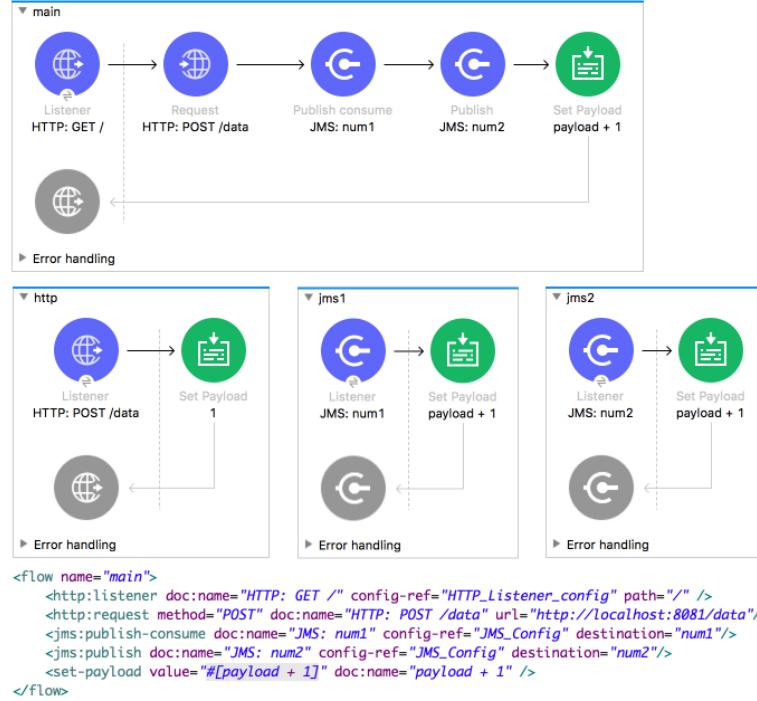
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MCD - Level 1 (Mule 4)

Time Remaining: 1:25:01

- 15** Refer to the exhibits. What payload is returned from a request to <http://localhost:8081/>?
- of
60.



Refer to the exhibits. What payload is returned from a request to <http://localhost:8081/>?

- A. 1
 B. 2
 C. 3
 D. 4

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MCD - Level 1 (Mule 4)

Time Remaining: 1:27:48

14 of 60. A Mule flow has three Set Variable transformers. What global data structure can be used to access the variables?

- A. Mule event attributes
- B. Mule application properties
- C. Mule event
- D. Mule event message

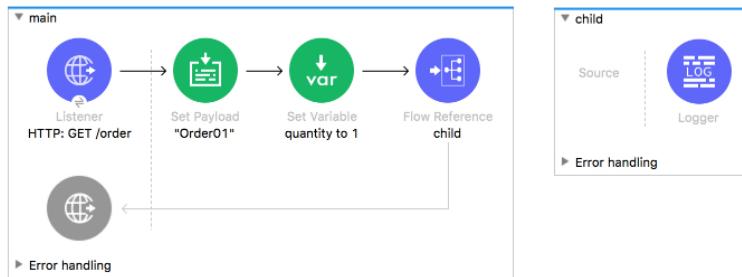
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MCD - Level 1 (Mule 4)

Time Remaining: 1:32:45

- 12 Refer to the exhibit. The main flow contains a Flow Reference for the child flow.
of
60. What values are accessible in the child flow after a web client submits a request to <http://localhost:8081/order?color=red>?



- A. payload
- B. payload
quantity var
- C. payload
color query param
- D. payload
quantity var
color query param

Mark this item for later review.

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MCD - Level 1 (Mule 4)

Time Remaining: 1:37:14

11 of 60 Why would a Mule application use the \${http.port} property placeholder for its HTTP Listener port when it is deployed to CloudHub?

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

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MCD - Level 1 (Mule 4)

Time Remaining: 1:40:38

10 of 60. By default, what happens to a file after it is read using an FTP connector Read operation?

- A. The file is renamed in the same folder
- B. The file is moved to a different folder
- C. The file stays in the same folder unchanged
- D. The file is deleted from the folder

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MCD - Level 1 (Mule 4)

Time Remaining: 1:43:38

9 An HTTP Request operation sends an HTTP request with a non-empty JSON object payload to an external HTTP endpoint.

of The response from the external HTTP endpoint returns an XML body. The result is stored in a target named theResult.

60.

What is the payload at the event processor after the HTTP Request?

- A. The XML response body
- B. null
- C. A non-empty Java object
- D. The original JSON request body

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MCD - Level 1 (Mule 4)

Time Remaining: 1:46:31

8 of 60. What payload is returned by a Database SELECT operation that does not match any rows in the database?

- A. Exception
- B. Empty Array
- C. false
- D. null

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MCD - Level 1 (Mule 4)

Time Remaining: 1:47:30

- 7 of 60** A flow needs to combine and return data from two different data sources. It contains a Database SELECT operation followed by an HTTP Request operation.

What is the method to capture both payloads so the payload from the second request does not overwrite that from the first?

- A. Put the Database SELECT operation inside a Message Enricher scope
- B. Put the Database SELECT operation inside a Cache scope
- C. Save the payload from the Database SELECT operation to a variable
- D. Nothing, previous payloads are combined into the next payload

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MCD - Level 1 (Mule 4)

Time Remaining: 1:49:10

- 6 of 60 Refer to the exhibits. A web client submits a request to <http://localhost:8081/flights>. What is the result at the end of the flow?

[Message Flow](#) [Global Elements](#) [Configuration XML](#)

Set to XML X Problems Console

General There are no errors.

Metadata

Notes

Display Name: Set to XML

Settings

Value:

```
<ns2:listAllFlightsResponse xmlns:ns2="http://soap.training.mulesoft.com/">
<return>
<airlineName>Delta</airlineName>
<code>A1B2C3</code>
<departureDate>2015/03/20</departureDate>
</return>
</ns2:listAllFlightsResponse>
```

MIME Type Settings

Encoding:

MIME Type:

```
<flow name="getFlights" >
  <http:listener doc:name="HTTP: GET /flights" config-ref="HTTP_Listener_config" path="/flights"/>
  <set-payload value='<ns2:listAllFlightsResponse xmlns:ns2="http://soap.training.mulesoft.com/">
    &lt;return&gt;
      &lt;airlineName&gt;Delta&/airlineName&gt;
      &lt;code&gt;A1B2C3&/code&gt;
      &lt;departureDate&gt;2015/03/20&/departureDate&gt;
    &lt;/return&gt;
  </ns2:listAllFlightsResponse>' doc:name="Set to XML" />
  <ee:transform doc:name="typeOf(payload)" doc:id="43898508-15e2-4cb7-8d0b-bd9c2929209e" >
    <ee:message><ee:set-payload ><![CDATA[%dw 2.0
      output application/json
      ---
      typeOf(payload)]]></ee:set-payload>
    </ee:message>
  </ee:transform>
</flow>
```

Refer to the exhibits. A web client submits a request to <http://localhost:8081/flights>. What is the result at the end of the flow?

- A. "XML"
- B. "Object"
- C. "Java"
- D. "String"

 Mark this item for later review.

MCD - Level 1 (Mule 4)

Time Remaining: 1:51:29

- 5 of 60 Refer to the exhibit. What is the output payload in the On Complete phase?

- A. The records processed by the last batch step: [StepTwo1, StepTwo2, StepTwo3]

- B. The original payload: [1,2,3]

- C. The records processed by all batch steps: [StepTwoStepOne1, StepTwoStepOne2, StepTwoStepOne3]

- D. Summary statistics with NO record data

Mark this item for later review.

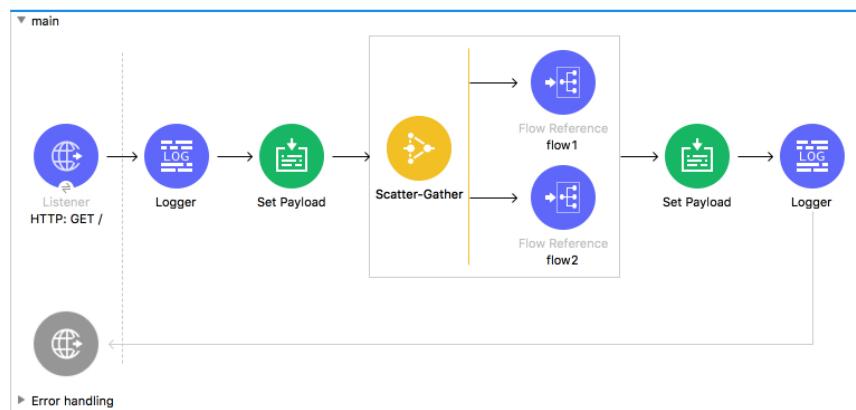
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MCD - Level 1 (Mule 4)

Time Remaining: 1:54:30

- 4 of 60 Refer to the exhibit. In the execution of the Scatter-Gather, the flow1 route completes after 10 seconds and the flow2 route completes after 20 seconds.

How many seconds does it take for the Scatter-Gather to complete?



- A. 0
- B. 10
- C. 20
- D. 30

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**MCD - Level 1 (Mule 4)**

Time Remaining: 1:55:30

3 of 60 Refer to the exhibit. What is the correct syntax to add an employee ID as a URI parameter in an HTTP Listener path?

Basic Settings

Connector configuration: **HTTP_Listener_config**

General

Path: **/accounts/**

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

Mark this item for later review.

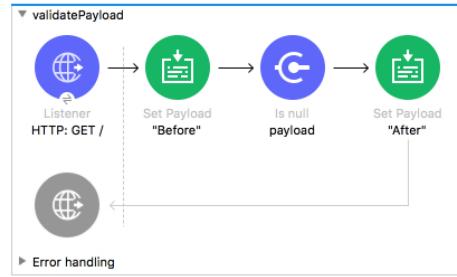
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MCD - Level 1 (Mule 4)

Time Remaining: 1:57:04

- 2 of 60 Refer to the exhibits. What is the response to a web client request to <http://localhost:8081>?



```
<flow name="validatePayload">
    <http:listener doc:name="HTTP: GET /" config-ref="HTTP_Listener_config" path="/" />
    <set-payload value="Before" doc:name="Before" />
    <validation:is-null doc:name="payload" value="#{payload}" message="Validation Error"/>
    <set-payload value="After" doc:name="After" />
</flow>
```

- A. After
B. null
C. Validation Error
D. Before

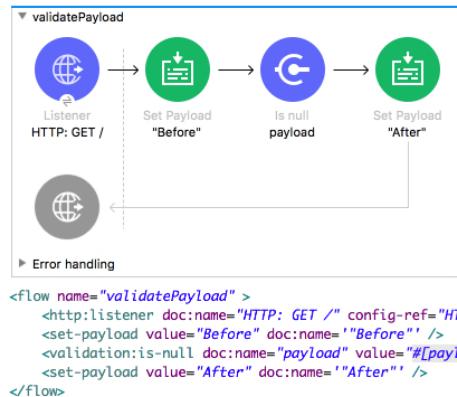
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MCD - Level 1 (Mule 4)

Time Remaining: 1:57:04

- 2 of 60 Refer to the exhibits. What is the response to a web client request to <http://localhost:8081>?



- A. After
B. null
C. Validation Error
D. Before

Mark this item for later review.

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MCD - Level 1 (Mule 4)

Time Remaining: 1:59:25

1 of 60. What is the output type of the DataWeave map operator?A. ObjectB. ArrayC. MapD. String Mark this item for later review.[Next >](#)[Review All](#)[Submit Exam](#)

Support for online and on-site testing will be closed from 12:00 AM to 11:59 PM MST, Dec. 25 for the U.S. holiday.
Support for online and on-site testing will be closed from 12:00 AM to 11:59 PM MST, Jan. 1 for the U.S. holiday.

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Important note: If you have taken an "Online Proctored" exam prior to March 14, 2015, you will need to "uninstall" your Sentinel product and install the new version after this date. This needs to be done only once.

If you're taking an online proctored exam, you'll need to complete the following **at least 24 hours before** your scheduled exam:

- Review the [Instructions and requirements for online proctored exams](#).
- Download and install the secured testing software, Sentinel.
- Set up your biometrics.
- If you don't have an approved webcam for the MCD - Integration Professional exam, [you can purchase one from Kryterion](#) (*this transaction must be completed separately from exam registration*).
- Note: you may be able to use any webcam (*including the integrated one in your laptop*), for some of your exams. Please make sure to [review the exam requirements](#).

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Before you can launch your exam, you must complete the following steps:

Step 1

If you have not installed the latest Sentinel or you are unsure, click the button below and run the installation program.

[Install Sentinel](#)

Step 2

After installing Sentinel, you'll need to setup your Biometrics before you can launch your online proctored exam.

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Exam	Date Scheduled	Date Registered	Launch	Details
MCD - Level 1 (Mule 4)		19 December 2018	Launch	Cancel Registration

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Exam	Date Scheduled	Date Registered	Date Launched	
<i>None found.</i>				

Completed Exams

Exam	Date Launched	Date Completed	Result	
<i>None found.</i>				

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Anypoint Platform Development: Fundamentals (Mule 4) Self-Assessment Quiz

Score: N/A
Time spent: 0s

New attempt has been created.

X

Take this multiple-choice quiz to assess your mastery of core concepts taught in the *Anypoint Platform Development: Fundamentals (Mule 4)* or the self-study *MuleSoft.U Development Fundamentals (Mule 4)* course and to help you prepare for the *MuleSoft Certified Developer - Level 1 (Mule 4)* certification exam.

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Overview



Module 3: Designing APIs

Quiz

Nice work! You got 100% correct. Please review your answers.

1.

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

- Deploy the API to a Maven repository
- Enable autodiscovery in API Manager
- Publish the API from inside flow designer
- Publish the API to Anypoint Exchange

Correct!

2.

Refer to the exhibit. What is the correct URL to submit a GET request to /patients?

```
1  #%RAML 1.0
2  title: ACME Medical API
3  baseUri: http://dev.acme.com/api
4
5  /patients:
```

```
6   |     get:  
7   |       queryParameters:  
8   |         year:  
9   |           type: integer  
10  |             example: 2017|
```

- http://dev.acme.com/patients?year=2016
- http://dev.acme.com/api/patients
- http://dev.acme.com/patients
- http://dev.acme.com/api/patients?year=2016

Correct!

3.

A RAML example fragment named BankAccounts.raml is placed in the examples folder in an API specification project.

What is the correct syntax to reference the fragment?

- examples: !include BankAccountsExample.raml
- examples: #import BankAccountsExample.raml
- examples: !include examples/BankAccountsExample.raml
- examples: #import examples/BankAccountsExample.raml

Correct!

4.

Refer to the exhibit. There is an error in the flight_id resource's GET method. What needs to be done to fix the problem?

```
1. #%RAML 1.0  
2. version: v1  
3. title: American Flights API  
4.  
5. /flights:  
6.   get:  
7.  
8.     /{flight_id}:  
9.  
10.  get:
```

- Remove blank line on row 9
- Enclose flight_id in parentheses () instead of curly braces {}
- Indent the get method under the {flight_id} resource
- Outdent the {flight_id} resource
- Remove the curly braces {} around flight_id

Correct!

5.

Refer to the exhibit. This RAML specification includes an XML example that matches the Records data type defined in another RAML file named recordsDataType.raml.

Using the Records type, how can this XML example be represented in RAML?

```
#%RAML 1.0  
title: Records API  
  
/records:  
|   note:
```

```

get:
  responses:
    200:
      body:
        application/xml:
          example: |
            <music>
              <collection>Deep Collection</collection>
              <artists>
                <artist1>Deep Purple</artist1>
                <artist2>Rainbow</artist2>
              </artists>
            </music>

```

Answers

A.

```

#%RAML 1.0
title: Records API

types:
  Records: !include recordsDataType.raml

/records:
  get:
    responses:
      200:
        body:
          application/xml:
            type: Records
            example:
              music:
                collection: "Deep Collection "
                artists:
                  - artist1: "Deep Purple"
                  - artist2: "Rainbow"

```

B.

```

#%RAML 1.0
title: Records API

types:
  Records: !include recordsDataType.raml

/records:
  get:
    responses:
      200:
        body:
          application/xml:
            type: Records
            example:
              music:
                collection: "Deep Collection "
                artists:
                  "Deep Purple"
                  "Rainbow"

```

C.

```

#%RAML 1.0
title: Records API

types:
  Records: !include recordsDataType.raml

/records:
  get:
    responses:
      200:
        body:
          application/xml:
            type: Records
            example:
              music:
                collection: "Deep Collection "
                artists: "Deep Purple", "Rainbow"

```

D.

```

#%RAML 1.0
title: Records API
+types+

```

```
types:  
  Records: !include recordsDataType.raml  
  
/records:  
  get:  
    responses:  
      200:  
        body:  
          application/xml:  
            type: Records  
            example:  
              music:  
                collection: "Deep Collection "  
                artists:  
                  artist1: "Deep Purple"  
                  artist2: "Rainbow"
```

- A
- B
- C
- D

Correct!

Nice work! You got 100% correct. Please scroll up to review your answers.

[Next: Module 4](#)

Response submitted! 

< Back to My Learning

Confirmed

Anypoint Platform Development: Fundamentals (Mule 4) Self-Assessment Quiz

Score: N/A
Time spent: 0s

New attempt has been created.

X

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Overview



Module 2: Introducing Anypoint Platform

Quiz

You got 4 / 5. Please review your answers.

[Close.](#)

1.

What is the main purpose of flow designer in Design Center?

- To design API RAML files in a graphical way
- To design and develop fully functional Mule applications in a hosted development environment
- To define API lifecycle management in a graphical way
- To design and mock Mule application templates that must be implemented using Anypoint Studio

Sorry, that's incorrect.

2.

Where does a deployed flow designer application run in Anypoint Platform?

- Exchange
- CloudHub worker
- API Manager

Design Center

Correct!

3.

What MuleSoft product enables publishing, sharing, and searching of APIs?

- API Designer
- Runtime Manager
- Anypoint Exchange
- API Notebook

Correct!

4.

What asset can NOT be created using Design Center?

- API Specifications
- Mule Applications
- API Fragments
- API Portals

Correct!

5.

A web client submits a GET request to a Mule application to the endpoint /customers?id=48493.

Where is the id stored in the Mule event by the HTTP Listener?

- Inbound Properties
- Variables
- Attributes
- Payload

Correct!

You got 4 / 5. Please scroll up to review your answers. [Close.](#)

[Next: Module 3](#)

Response submitted! 

< Back to My Learning

Confirmed

Anypoint Platform Development: Fundamentals (Mule 4) Self-Assessment Quiz

Score: N/A
Time spent: 0s

New attempt has been created.

X

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Overview



Module 1: Introducing Application Networks and API-Led Connectivity

Quiz

Not bad. You got 3 / 6. Please review your answers.

1.

What MuleSoft API-led connectivity layer is intended to expose part of a backend database without business logic?

- Experience
- Data
- System
- Process
- Security

Correct!

2.

What statement is part of MuleSoft's description of an application network?

- Creates reusable APIs and assets designed to be consumed by other business units
- Creates and manages high availability and fault tolerant services and infrastructure
- Leverages Central IT to deliver complete point-to-point solutions with master data

management

Creates and manages a collection of JMS messaging services and infrastructure

Correct!

3.

According to MuleSoft, what is the Center for Enablement's role in the new IT operating model?

- Creates and manages discoverable assets to be consumed by line of business developers
- Centrally manages partners and consultants to implement line of business projects
- Implements line of business projects to enforce common security requirements
- Produces and manages API policies for line of business deployments

Sorry, that's incorrect.

4.

What is a core characteristic of the Modern API?

- API is designed first using an API specification for rapid feedback
- API is rapidly prototyped following AGILE methodology
- API follows the RESTful architecture
- API has a mechanism to accept feedback and suggestions for improvement

Sorry, that's incorrect.

5.

Refer to the exhibit. The API specification supports searching for articles on the searchworld.org site.

What is the correct URL and method to retrieve articles about "einstein" in XML format?

ENDPOINT:

<https://www.searchworld.org/s/api.php>

QUERY PARAMETERS:

action - Action type - required
options: compare,delete,save,search
query - Search string - required
profile - Search profile to use
options: strict,normal,classic
format - The format of the output
options: xml,xmlfm,json,jsonfm
namespace - Namespaces to search
options: 1,2,3,4

HEADERS:

AUTH - Authentication token - required

Answers

A.

Method Request URL
GET <https://www.searchworld.org/s/api.php?action=search&query=einstein&format=xml> SEND

Parameters ^

Headers	Authorization	Variables	Actions

□ <> Toggle source mode + Insert headers set

Header name
AUTH

Header value
SK33DKD83829283JS

B.

Method GET Request URL https://www.searchworld.org/s/api/php?query=einstein&format=xml SEND

Parameters ^

Headers	Authorization	Variables	Actions
<input type="button" value="Toggle source mode"/> <input type="button" value="Insert headers set"/>			

Header name AUTH Header value SK33DKD83829283JS

C.

Method GET Request URL https://www.searchworld.org/s/api/php?action=search&query=einstein&format=xml SEND

Parameters ^

Headers	Authorization	Variables	Actions
<input type="button" value="Toggle source mode"/> <input type="button" value="Insert headers set"/>			

Header name Header value

D.

Method POST Request URL https://www.searchworld.org/s/api/php?action=search&query=einstein&format=xml SEND

Parameters ^

Headers	Authorization	Body	Variables	Actions
<input type="button" value="Toggle source mode"/> <input type="button" value="Insert headers set"/>				

Header name AUTH Header value SK33DKD83829283JS

- A
- B
- C
- D

Correct!

6.

What HTTP method in a RESTful web service is typically used to completely replace an existing resource?

- PATCH
- PUT
- POST
- GET

Sorry, that's incorrect.

Not bad. You got 3 / 6. Please scroll up to review your answers.

[Next: Module 2](#)

