



LAB- TESTING

In this lab you will

- a) Understand how to use various filters
- b) write munit test cases to test these flows containing filters

Step 1 - Payload Type Filter

- 1) Open payloadtypefilterdemo.xml and observe the flow
- 2) After Http endpoint, drag a payload type filter and configure it such that it will let the message pass only if its payload is an instance of "org.mule.transport.NullPayload"
- 3) Write a Munit test suite with 2 test cases to test 2 scenarios
 - a) without payload
 - b) with payload "test"

Step 2 - Expression Type Filter

- 1) Open xpathexpressionfilter.xml and observe that it expects xml payload. Observe that expression component is configured using following expression
:xpath:/shiporder/shipto/name
- 2) Drag Expression filter after http component and configure it such that it will let the message to pass through only if shi to city is hyderabad
- 3) Write a MUNIT test case to test it



Step 3 - Message Filter

- 1) Open messagefilterexceptiondemo.xml and observe that code.
- 2) If the payload type is not of type java.lang.String , we want a filter to throw an exception.

Drag Message filter after Http component.

Double Click it and configure a nested filter of type "expression filter " as shown below :

Expression

The Expression Filter evaluates a range of expressions.

General

Generic

Expression:

☐ Null Returns True

Select the check box Throw on unaccepted so that it will throw an exception if nested filter throws exception as shown below :

Generic

On Unaccepted:

☒ Throw On Unaccepted

Nested Filter

Nested Filter:



Run the flow and make a request to `http://localhost:8081/mpf?stock=mule` .

You should get the output.

Give a request to `http://localhost:8081/mpf` with out query parameter stock.

You should observe a message which says message is reject by filter.

Observe the exception stack trace on console.

Now Open xml view of the file and observe that we configured `<set-payload>` component with name "sp" as global element.

Now configure Message filter such that this global element will be called when the nested filter rejects the message.

Deploy the application and give a request to `://localhost:8081/mpf` with out query parameter stock . You should observe the content of set payload transformer.

Can you configure the message filter such that another flow will be invoked in case the nested filter rejects the message.