

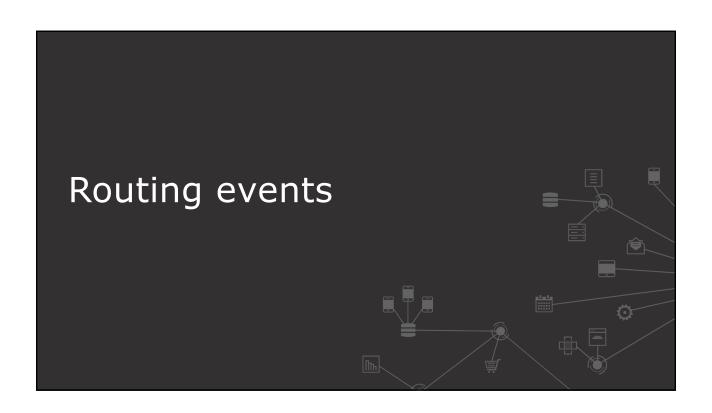
At the end of this module, you should be able to

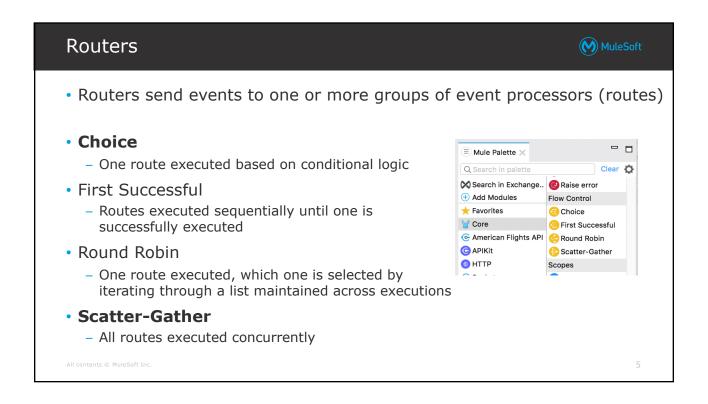


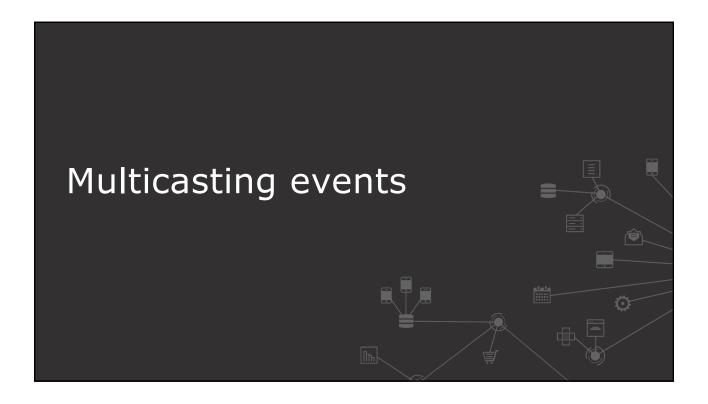
- Multicast events
- Route events based on conditions
- Validate events

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The Scatter-Gather router



- Scatter-Gather sends the event to each route concurrently and returns a collection of all results
- · Collection is an object of objects
 - Each object contains attributes and payload from each Mule event returned from a flow

```
"0": {
  "exceptionPayload": null,
  "inboundAttachmentNames": [],
  "outboundPropertyNames": [],
  "inboundPropertyNames": [],
  "attributes": {},
  "outboundAttachmentNames": [],
  "payload": [
  {
        "airline": "Delta",
        "fightCode": "A1B2C3",
        "fromAirportCode": "MUA",
        "toAirportCode": "SFO",
        "departureDate": "2015/03/20",
        "emptySeats": "40",
        "price": "400.0",
        "price": "400.0",
        "planeType": "Boing 737"
      }
    ],
"1": {
        "exceptionPayload": null,
        "inboundAttachmentNames": [],
        "outboundPropertyNames": [],
        "attributes": {},
        "outboundAttachmentNames": [],
        "attributes": {},
        "outboundAttachmentNames": [],
        "payload": "A Payload"
}
```

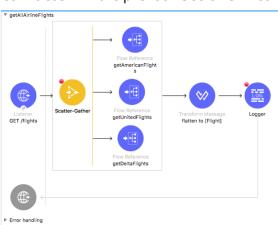
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Walkthrough 9-1: Multicast an event

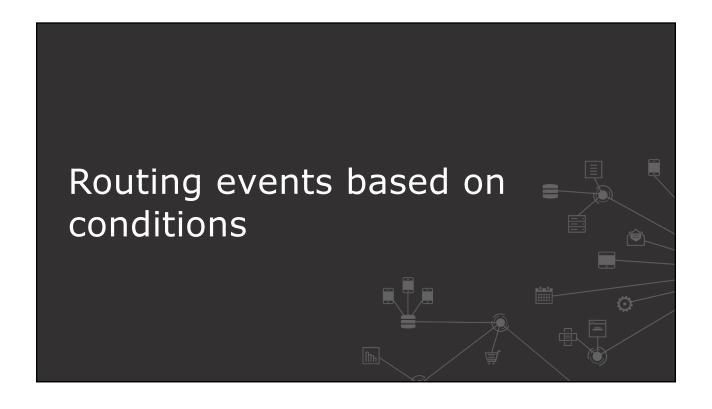


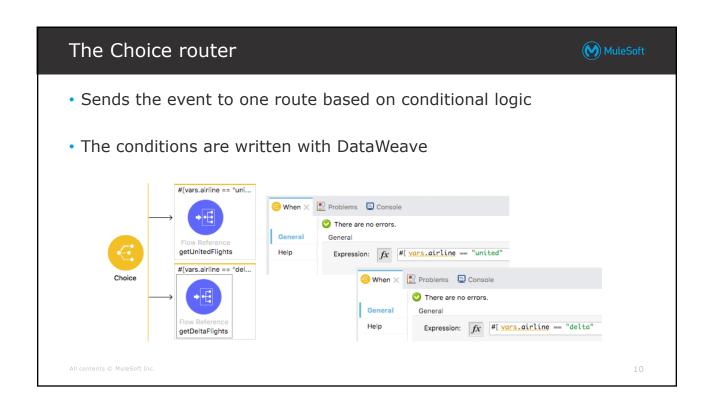
- Use a Scatter-Gather router to concurrently call all three flight services
- Use DataWeave to flatten multiple collections into one collection



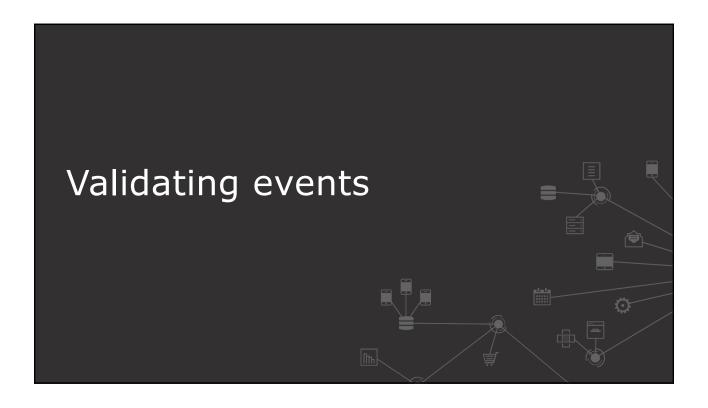
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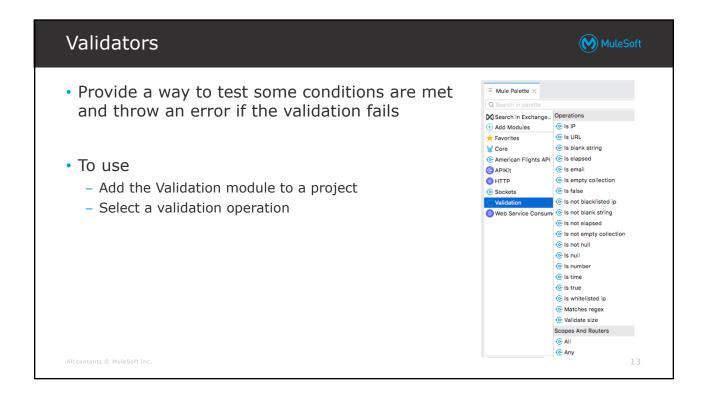
8

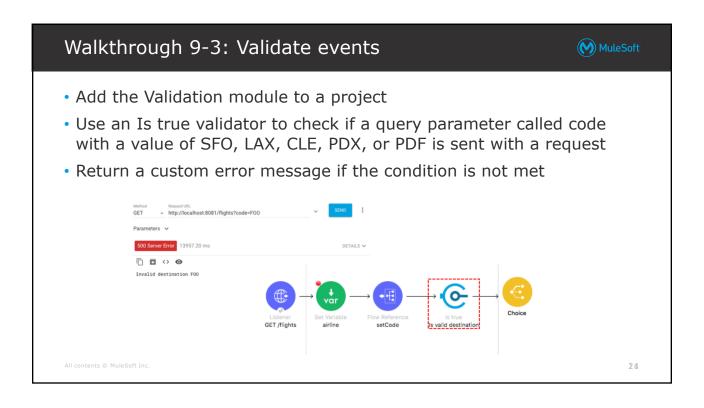




Walkthrough 9-2: Route events based on conditions Use a Choice router Use DataWeave expressions to set the router paths Route all flight requests through the router









Summary



- Use different routers and validators to control event flow
- Use the Choice router to send an event to one route based on conditional logic
- Use the Scatter-Gather router to send an event concurrently to multiple routes
 - A collection of all results is returned
 - Use DataWeave to flatten the collection
- Use the Validation module to specify whether an event can proceed in a flow

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