Use case

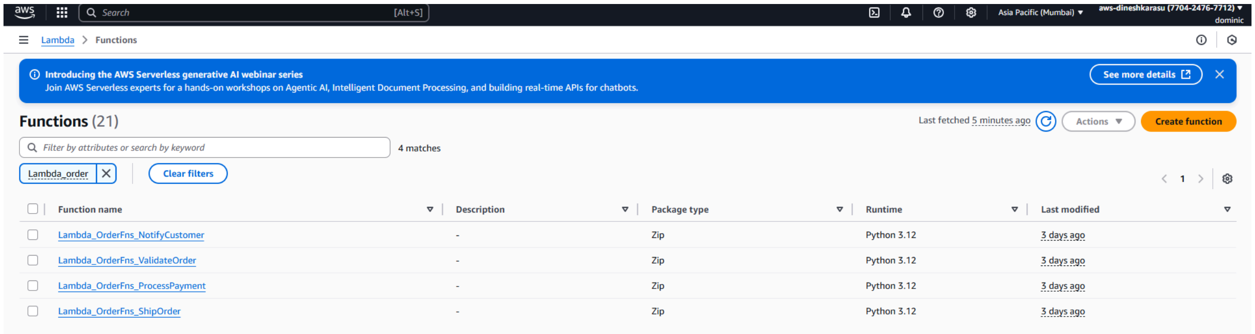
Build a Step Function for Order Workflow

Use case Description

Schedule Lambda every evening and stop running Ec2 instances to reduce billing

In this use case, we create a step function state machine to understand how the workflow actually runs

1. For order workflow, let’s say there are four stages Validate order, Process Payment, Ship order, Notify customer
2. Each stage has its own functionality (lambda code)
3. So to orchestrate these steps, we use step functions



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Functions (21)

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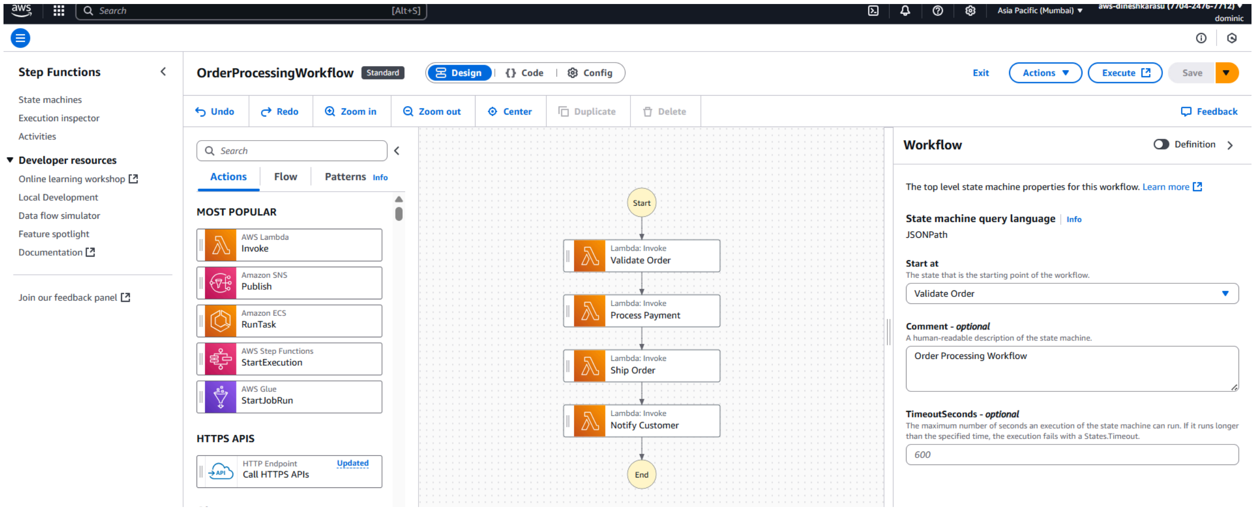
Lambda_order

Function name	Description	Package type	Runtime	Last modified
Lambda_OrderFns_NotifyCustomer	-	Zip	Python 3.12	3 days ago
Lambda_OrderFns_ValidateOrder	-	Zip	Python 3.12	3 days ago
Lambda_OrderFns_ProcessPayment	-	Zip	Python 3.12	3 days ago
Lambda_OrderFns_ShipOrder	-	Zip	Python 3.12	3 days ago



OrderProcessingWorkflow

Workflow

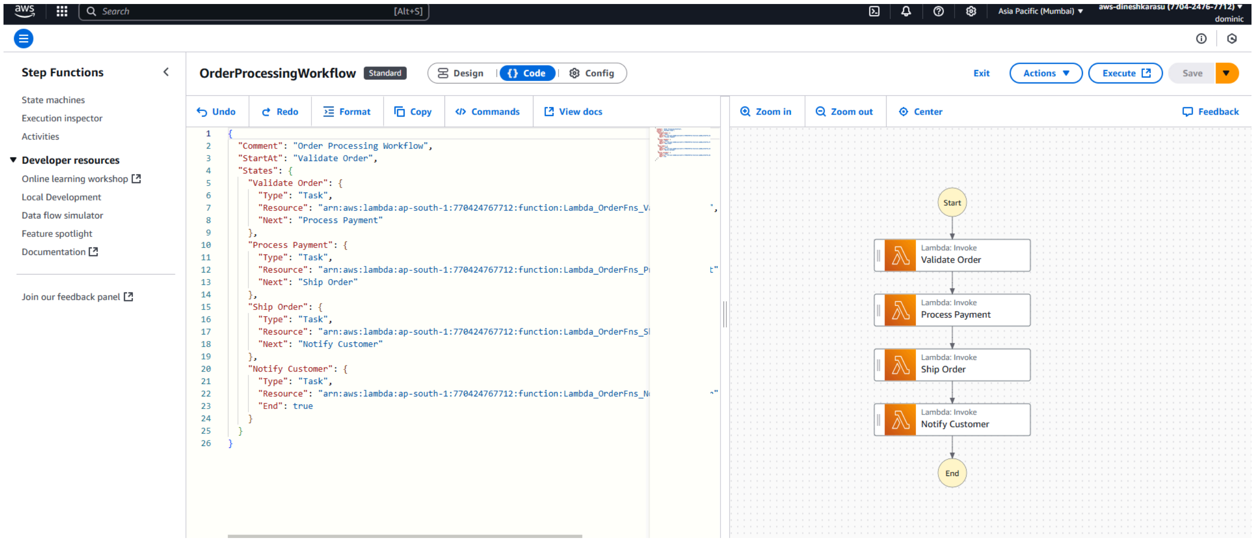
The top level state machine properties for this workflow. Learn more

State machine query language | Info
JSONPath

Start at
The state that is the starting point of the workflow.
Validate Order

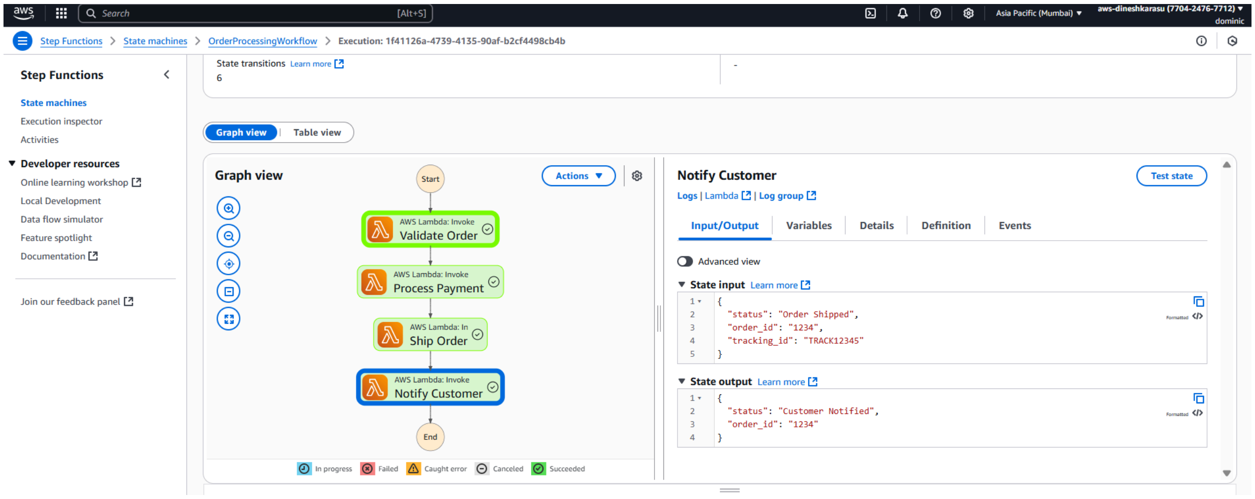
Comment - *optional*
A human-readable description of the state machine.
Order Processing Workflow

TimeoutSeconds - *optional*
The maximum number of seconds an execution of the state machine can run. If it runs longer than the specified time, the execution fails with a States.Timeout.
600



OrderProcessingWorkflow Standard

```
{
  "Comment": "Order Processing Workflow",
  "StartAt": "Validate Order",
  "States": {
    "Validate Order": {
      "Type": "Task",
      "Resource": "arn:aws:lambda:ap-south-1:770424767712:function:Lambda_OrderFns_Va          ',
      "Next": "Process Payment"
    },
    "Process Payment": {
      "Type": "Task",
      "Resource": "arn:aws:lambda:ap-south-1:770424767712:function:Lambda_OrderFns_Pr          t"
      "Next": "Ship Order"
    },
    "Ship Order": {
      "Type": "Task",
      "Resource": "arn:aws:lambda:ap-south-1:770424767712:function:Lambda_OrderFns_Sh
      "Next": "Notify Customer"
    },
    "Notify Customer": {
      "Type": "Task",
      "Resource": "arn:aws:lambda:ap-south-1:770424767712:function:Lambda_OrderFns_No          ~"
      "End": true
    }
  }
}
```



Execution: 1f41126a-4739-4135-90af-b2cf4498cb4b

State transitions Learn more
6

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Notify Customer

▼ State input

```
{
  "status": "Order Shipped",
  "order_id": "1234",
  "tracking_id": "TRACK12345"
}
```

▼ State output

```
{
  "status": "Customer Notified",
  "order_id": "1234"
}
```