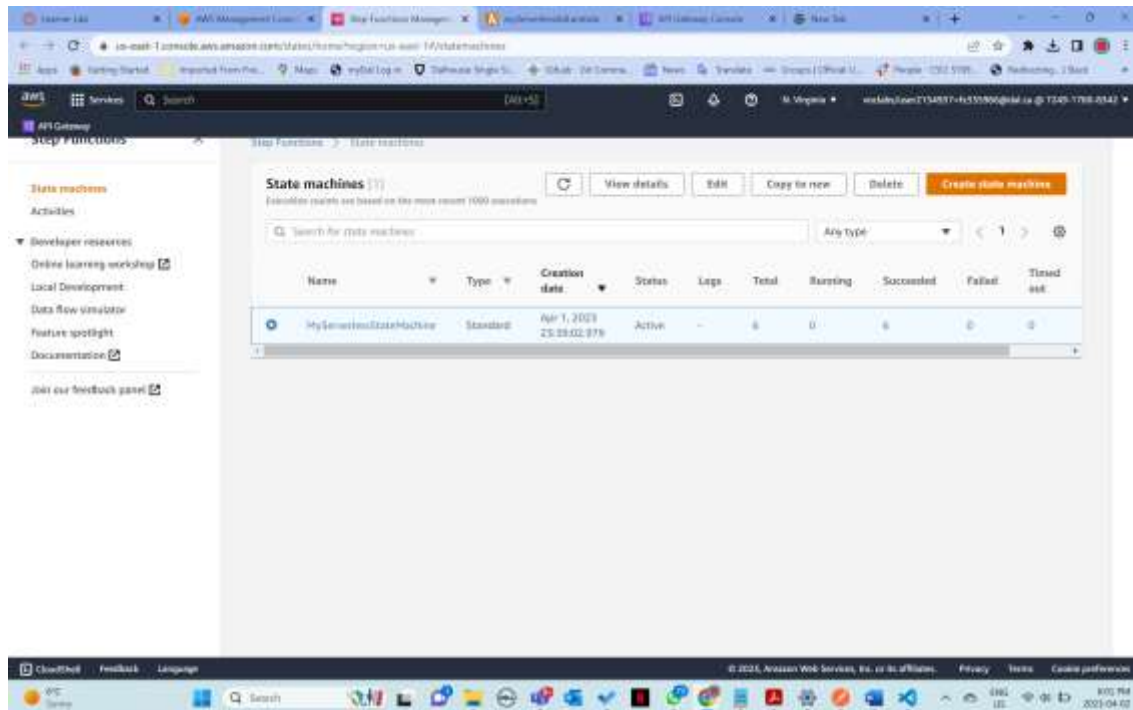


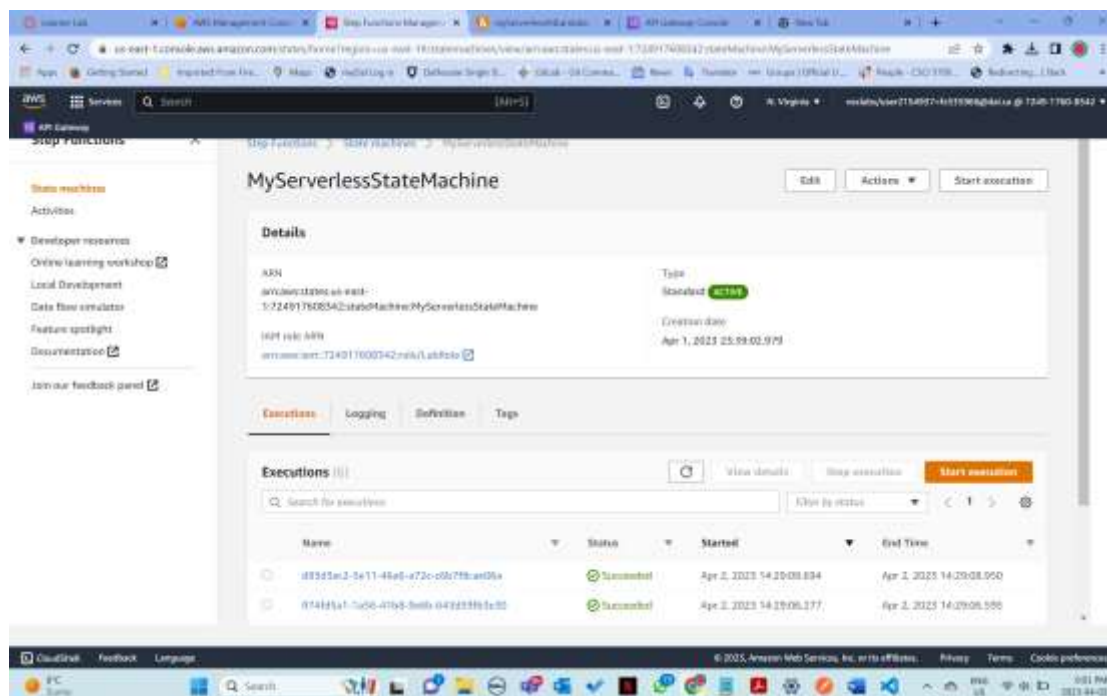
ASSIGNMENT – 4

SERVERLESS



This screenshot shows the AWS Step Functions console. The left sidebar contains navigation links for 'State machines', 'Activities', and 'Developer resources'. The main panel displays a table of state machines. A single state machine, 'MyServerlessStateMachine', is listed with a status of 'Active'.

Name	Type	Creation date	Status	Logs	Total	Running	Succeeded	Failed	Timed out
MyServerlessStateMachine	Standard	Apr 1, 2023 25:59:02.979	Active	-	0	0	0	0	0



This screenshot shows the details of a specific state machine execution in the AWS Step Functions console. The top section displays the state machine name 'MyServerlessStateMachine' and its details, including the ARN and creation date. Below this, the 'Executions' tab is selected, showing a table of execution instances. Two executions are listed, both with a status of 'Succeeded'.

Name	Status	Started	End Time
i8355e2-5e11-48e0-e72c-c027f8a0054	Succeeded	Apr 2, 2023 14:20:08.894	Apr 2, 2023 14:20:08.950
074845a1-7a50-40b5-b0b5-049239b5e30	Succeeded	Apr 2, 2023 14:20:08.377	Apr 2, 2023 14:20:08.558

us-east-1.console.aws.amazon.com/states/home?region=us-east-1#/stateMachines/stateMachine:arn:aws:states:us-east-1:724917608342:stateMachine:MyServerlessStateMachine

API Gateway

State machines

Activities

Developer resources

- Online learning workshop
- Local Development
- Data flow simulator
- Feature spotlight
- Documentation

Join our feedback panel

arn:aws:states:us-east-1:724917608342:stateMachine:MyServerlessStateMachine

Standard **ACTIVE**

Creation date

Apr 1, 2023 23:39:02.979

IAM role ARN

arn:aws:iam::724917608342:role/LabRole

Executions

Logging

Definition

Tags

Executions (6)

Search for executions

Filter by status

Start execution

Name	Status	Started	End Time
891d3e2-5e11-46a6-a72c-c8b7fcae06a	Succeeded	Apr 2, 2023 14:20:08.694	Apr 2, 2023 14:20:08.990
874fd5d1-1a56-41b8-9e6b-643d59fb3a30	Succeeded	Apr 2, 2023 14:20:06.277	Apr 2, 2023 14:20:06.595
c2283de7-0102-42b4-8b1e-48bd45cb1c90	Succeeded	Apr 2, 2023 14:29:05.946	Apr 2, 2023 14:29:04.206
2a795c5e-627a-4b47-87ba-d7f9176053d0	Succeeded	Apr 2, 2023 14:10:36.718	Apr 2, 2023 14:10:36.896
748054ad-3epp-4a15-9ab6-bc1ffc411d16	Succeeded	Apr 2, 2023 14:10:54.423	Apr 2, 2023 14:10:54.713
c8332a2b-49d3-41b1-a411-b768a21ec406	Succeeded	Apr 2, 2023 14:10:32.098	Apr 2, 2023 14:10:32.420

CloudShell Feedback Language

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Search

6:02 PM 2023-04-02

us-east-1.console.aws.amazon.com/states/home?region=us-east-1#/stateMachines/stateMachine:arn:aws:states:us-east-1:724917608342:stateMachine:MyServerlessStateMachine

API Gateway

State machines

Activities

Developer resources

- Online learning workshop
- Local Development
- Data flow simulator
- Feature spotlight
- Documentation

Join our feedback panel

Executions

Logging

Definition

Tags

Definition

Export graph

Layout

```
graph TD
    Start((Start)) --> Choose((Choose))
    Choose --> SQS_SendMessage((SQS SendMessage))
    Choose --> SQS_SendMessage_1((SQS SendMessage (1)))
    Choose --> SQS_SendMessage_2((SQS SendMessage (2)))
    SQS_SendMessage --> End((End))
    SQS_SendMessage_1 --> End
    SQS_SendMessage_2 --> End
```

```
1 {
2   "comment": "A hello world example demonstrating various state types
3   of the Amazon States Language",
4   "startAt": "Hello",
5   "states": {
6     "Hello": {
7       "type": "Choice",
8       "choices": {
9         "Variable": {
10          "variable": "A.type",
11          "stringValue": "Comment",
12          "next": "SQS SendMessage"
13        },
14        "String": {
15          "variable": "B.type",
16          "stringValue": "String",
17          "next": "SQS SendMessage (1)"
18        },
19        "Integer": {
20          "variable": "C.type",
21          "stringValue": "Integer",
22          "next": "SQS SendMessage (2)"
23        }
24      }
25    }
26  }
```

CloudShell Feedback Language

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Search

6:02 PM 2023-04-02

The screenshot shows the AWS Step Functions console. The left sidebar contains navigation links: State machines, Activities, Developer resources, Online learning workshop, Local Development, Data flow simulator, Feature spotlight, Documentation, and Join our feedback panel. The main area is titled 'Definition' and shows the JSON definition for a state machine named 'MyServerlessStateMachine'. The definition includes a 'Variables' section with 'R_Type', 'StringOutput', and 'Task'. The 'States' section defines a 'Task' state that sends an SQS message to a queue named 'MyQueue' and then branches into three parallel 'SQS SendMessage' tasks (1, 2, and 3) before reaching the 'End' state.

```

{
  "Variables": [
    "R_Type",
    "StringOutput",
    "Task"
  ],
  "States": {
    "Task": {
      "Type": "Task",
      "Resource": "arn:aws:states:::sqs:sendMessage",
      "Parameters": {
        "MessageBody": "R_Type",
        "QueueUrl": "https://sqs.us-east-1.amazonaws.com/724917606342/myqueue"
      },
      "End": true
    },
    "SQS SendMessage (1)": {
      "Type": "Task",
      "Resource": "arn:aws:states:::sqs:sendMessage",
      "Parameters": {
        "MessageBody": "R_Type",
        "QueueUrl": "https://sqs.us-east-1.amazonaws.com/724917606342/pull-queue"
      }
    },
    "SQS SendMessage (2)": {
      "Type": "Task",
      "Resource": "arn:aws:states:::sqs:sendMessage",
      "Parameters": {
        "MessageBody": "R_Type",
        "QueueUrl": "https://sqs.us-east-1.amazonaws.com/724917606342/pull-queue"
      }
    },
    "SQS SendMessage (3)": {
      "Type": "Task",
      "Resource": "arn:aws:states:::sqs:sendMessage",
      "Parameters": {
        "MessageBody": "R_Type",
        "QueueUrl": "https://sqs.us-east-1.amazonaws.com/724917606342/pull-queue"
      }
    }
  },
  "End": true
}

```

The right side of the console shows a visual representation of the state machine graph, starting with a 'Start' node, followed by a 'Task' node, which then branches into three parallel 'SQS SendMessage' tasks, all of which converge at an 'End' node.



The screenshot shows a web browser with a REST client interface. The URL bar displays `https://test3bqts.execute-api-us-east-1.amazonaws.com/default/serverless_script`. The POST request body is a JSON object with the following fields:

```

{
  "accessToken": "arn:aws:iam:us-east-1:724917088242:stsassrole:MyServerlessStateachine",
  "accessToken": "arn:aws:iam:us-east-1:724917088242:stsassrole:MyServerlessStateachine",
  "accessToken": "arn:aws:iam:us-east-1:724917088242:stsassrole:MyServerlessStateachine",
  "apiURL": "https://edgms01p.execute-api-us-east-1.amazonaws.com/stage1",
  "serverId": "000099602",
  "email": "falasmet@yahoo.com"
}

```

The response status is 200 OK. The response body is a JSON object with the following fields:

```

{
  "grade": "B",
  "feedback": "CORRECT TEST passed",
  "passed": true
}

```

The response also includes several test results: SUBSCRIBE_TEST passed, PUBLISH_TEST passed, CORDBACK_TEST passed, SUBCKCK_TEST passed, and PUBLISH_TEST passed.