**Lab Steps**

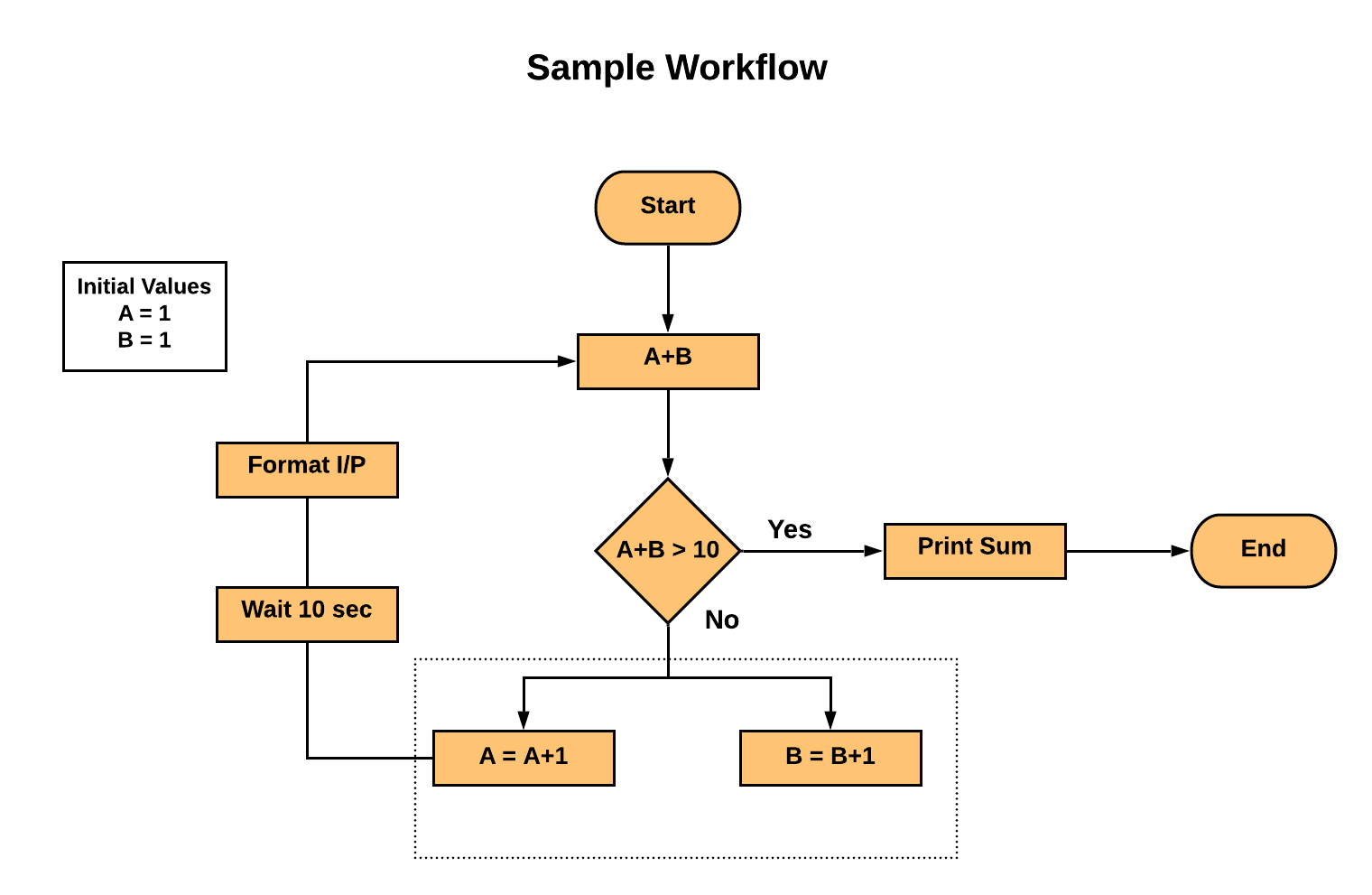
Task 1: Sign in to AWS Management Console

1. Click on the **** button, and you will get redirected to AWS Console in a new browser tab.
2. On the AWS sign-in page,

* Leave the Account ID as default. Never edit/remove the 12 digit Account ID present in the AWS Console. otherwise, you cannot proceed with the lab.
* Now copy your **User Name** and **Password** in the Lab Console to the **IAM Username and Password** in AWS Console and click on the **Sign in** button

     3. Once Signed In to the AWS Management Console, Make the default AWS Region as **US East (N. Virginia) us-east-1.**

Workflow Explanation



1. The workflow takes 2 numbers, A and B as inputs and sum it.
2. If the sum is greater than 10. If yes, then we will print the Sum and end the workflow.
3. If the sum is not greater than 10, then we will increment each number with 1 and wait for 10 seconds.
4. Then we will sum the numbers again and compare the sum.of the numbers.
5. The process repeats all over till the sum is greater than 10.
6. Here we are using States like Task state, Choice State, Parallel State, Wait State, End State.

Task 2: Creating Lambda Functions

1. We will be creating 5 simple lambda functions for this lab.
2. Navigate to the   menu at the top, then click on **Lambda** under the **Compute** section.
3. Save the code by clicking on the  for every lambda function.
4. Save the lambda function ARN’s in a Notepad in your local machine for later use.
5. Refresh the page, if you are not able to see the lambda functions.

![Graphical user interface, application

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAAAAAAAD/4RCyRXhpZgAATU0AKgAAAAgAAodpAAQAAAABAAAIMuocAAcAAAgMAAAAJgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFkAMAAgAAABQAABCAkAQAAgAAABQAABCUkpEAAgAAAAMwMAAAkpIAAgAAAAMwMAAA6hwABwAACAwAAAh0AAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**Lambda function 1: Adding 2 numbers**

* Click on 
* Select **Author from Scratch**
* Function Name : Enter ***adding\_A\_and\_B***
* Runtime : Select **Python 3.8**
* Click on **Change default execution role** and Choose**Use an existing Role**and select**L*ambdarole.***This role will be created for you already.
* Leave other options as default.
* Click on 
* Copy the below code and save the code by clicking on the 

|  |
| --- |
| from \_\_future\_\_ import print\_function  import json  print("Loading Function...")  def lambda\_handler(event, context):  value1 = int(event['A'])  value2 = int(event['B'])  sum\_value = value1 + value2  returnvalue = {"A" : value1, "B" : value2, "sumAB" : sum\_value}  return(returnvalue) |

**Lambda function 2: Incrementing A**

* Click on 
* Select **Author from Scratch**
* Function Name : Enter ***Increment\_A***
* Runtime : Select **Python 3.8**
* Under **Change default execution role**
* Choose **Use an existing Role**and select *l****ambda\_role*** which was created earlier.
* Leave other options as default.
* Click on 
* Copy the below code and save the code by clicking on the 

|  |
| --- |
| from \_\_future\_\_ import print\_function  import json  print("Loading Function...")  def lambda\_handler(event, context):  A = event['A']  A = A + 1  returnvalue = {"A": A}  return(returnvalue) |

**Lambda function 3: Incrementing B**

* Click on  .
* Select **Author from Scratch**
* Function Name : Enter ***Increment\_B***
* Runtime : Select **Python 3.8**
* Under **Change default execution role**
* Choose **Use an existing Role**and select *l****ambda\_role*** which was created earlier.
* Leave other options as default.
* Click on 
* Copy the below code and save the code by clicking on the 

|  |
| --- |
| from \_\_future\_\_ import print\_function  import json  print("Loading Function...")  def lambda\_handler(event, context):  B = event['B']  B = B + 1  returnvalue = {"B": B}  return(returnvalue) |

**Lambda function 4: Printing the sum**

* Click on  .
* Select **Author from Scratch**
* Function Name : Enter ***print\_sum***
* Runtime : Select **Python 3.8**
* Under **Change default execution role**
* Choose **Use an existing Role**and select ***lambda\_role***which was created earlier.
* Leave other options as default.
* Click on 
* Copy the below code and save the code by clicking on the 

|  |
| --- |
| from \_\_future\_\_ import print\_function  import json  print("Loading Function...")  def lambda\_handler(event, context):  print("sum of A and B is {}".format(event['sumAB']))  return(event) |

**Lambda function 5: Formatting the inputs**

* Click on 
* Select **Author from Scratch**
* Function Name : Enter ***format\_inputs***
* Runtime : Select **Python 3.8**
* Under **Change default execution role**
* Choose **Use an existing Role**and select *lambda\_role* which was created earlier.
* Leave other options as default.
* Click on 
* Copy the below code and save the code by clicking on the 

|  |
| --- |
| from \_\_future\_\_ import print\_function  import json  print("Loading Function...")  def lambda\_handler(event, context):  returnvalue = {"A":event[0]['A'], "B":event[1]['B']}  return(returnvalue) |

1. We have created all the 5 required lambda functions.
2. Make sure you have the right ARN’s of the lambda functions.

Task 3: Create a State Machine in Step Function

1. Navigate to the    menu at the top, then click on  **Step Functions** in the **Application Integration** section.
2. Click on the  button (three parallel lines) in the top left corner and select 
3. Click on 
4. Choose authoring method : select **Write your workflow in code**
5. Type : Select **Standard**
6. Definition : Replace the existing state machine json code with the below one.

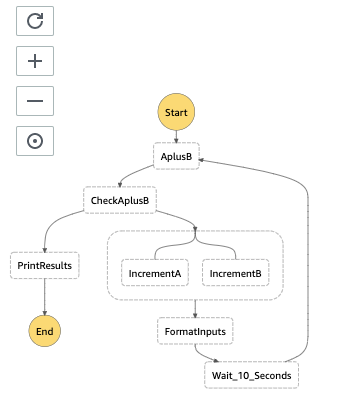
|  |
| --- |
| {  "Comment": "An example of the Amazon States Language using different states",  "StartAt": "AplusB",  "States": {  "AplusB": {  "Type": "Task",  "Resource": "arn:aws:lambda:us-east-1:757712384777:function:adding\_A\_and\_B",  "Next": "CheckAplusB"  },  "CheckAplusB": {  "Type": "Choice",  "Choices": [  {  "Variable": "$.sumAB",  "NumericGreaterThanEquals": 10,  "Next": "PrintResults"  },  {  "Variable": "$.sumAB",  "NumericLessThan": 10,  "Next": "IncrementAB"  }  ]  },  "PrintResults": {  "Type": "Task",  "Resource": "arn:aws:lambda:us-east-1:757712384777:function:print\_sum",  "End": true  },  "IncrementAB": {  "Type": "Parallel",  "Next": "FormatInputs",  "Branches": [  {  "StartAt": "IncrementA",  "States": {  "IncrementA": {  "Type": "Task",  "Resource": "arn:aws:lambda:us-east-1:757712384777:function:Increment\_A",  "End": true  }  }  },  {  "StartAt": "IncrementB",  "States": {  "IncrementB": {  "Type": "Task",  "Resource": "arn:aws:lambda:us-east-1:757712384777:function:Increment\_B",  "End": true  }  }  }  ]  },  "FormatInputs": {  "Type": "Task",  "Resource": "arn:aws:lambda:us-east-1:757712384777:function:format\_inputs",  "Next": "Wait\_10\_Seconds"  },  "Wait\_10\_Seconds": {  "Type": "Wait",  "Seconds": 10,  "Next": "AplusB"  }  }  } |

1. Now replace the entire value of **Resource** key with the **lambda ARN’s** that you have copied and placed in the text edit.

**Note:** Make sure you enter the correct lambda ARN of each Task.



1. Now on the right side the flow diagram will be as follows :

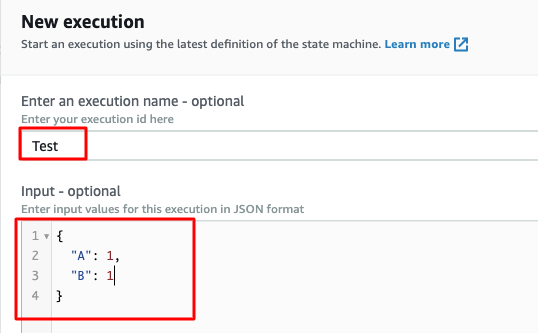


**Note : If this image is not displayed, please click the  refresh button, to reload the diagram.**

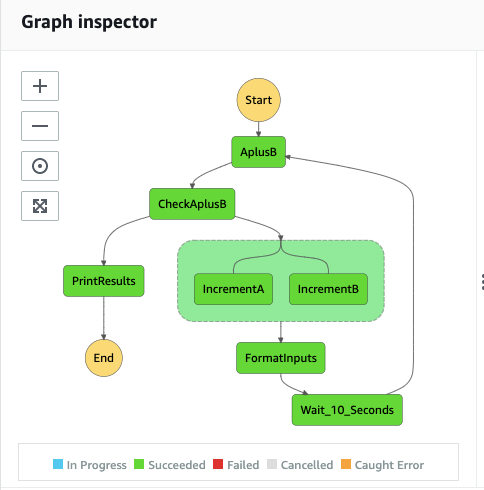
1. Now click on the 
2. Specify details:
   * Name : Enter ***FirstStateMachine***
   * Permissions :
     + Execution role : Select 
     + Existing roles : Select **whizrole**
   * Leave everything as default.
3. Click on the 

Task 4: Test the Step function

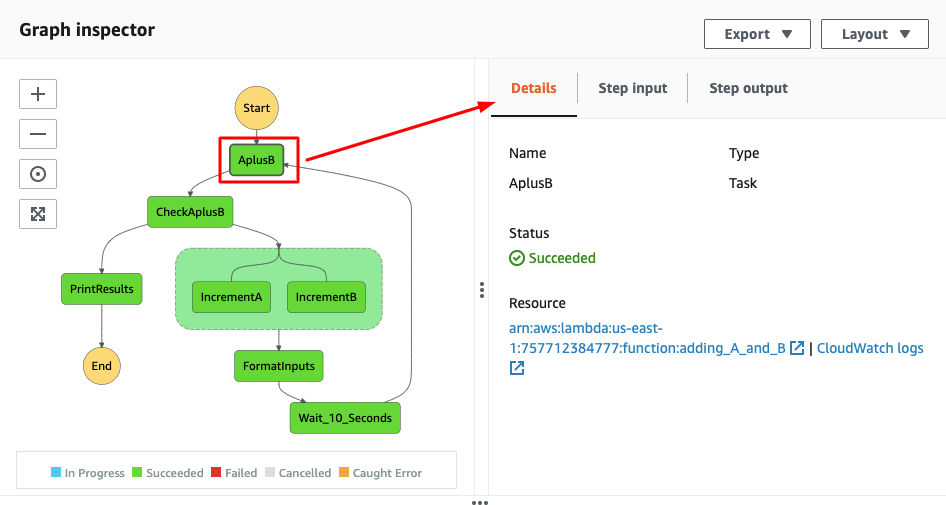
1. Click on the 
2. New execution :
   * Enter an execution name : Enter ***Test***
   * In the Input : We have to give inputs for A and B.
     + Enter A and B as 1 in the inputs as shown below.



1. Click on the  .
2. In the Graph inspector diagram, the colour of invokeLambda will become green (success) as shown in the image below.



1. Click on each task to know more about them. You will be able to see the more details in the right side column.

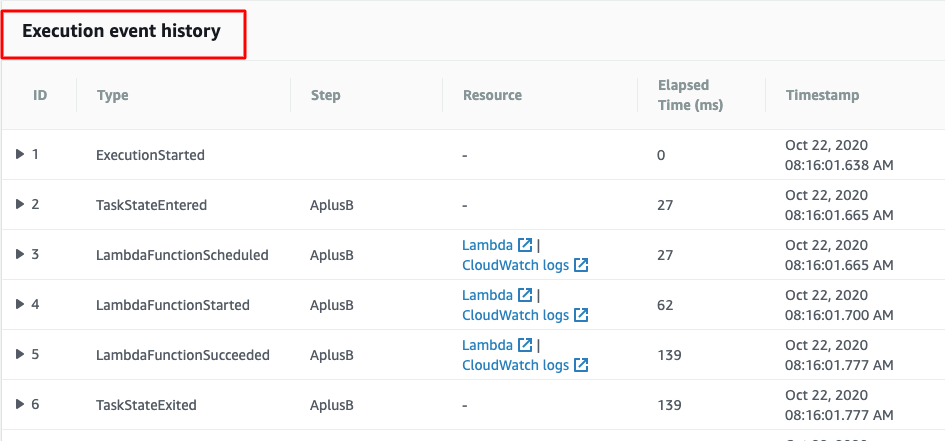


1. Now click on the **step output** tab in the right side and you will see the output from our lambda function.

Graphical user interface, text, application

Description automatically generated

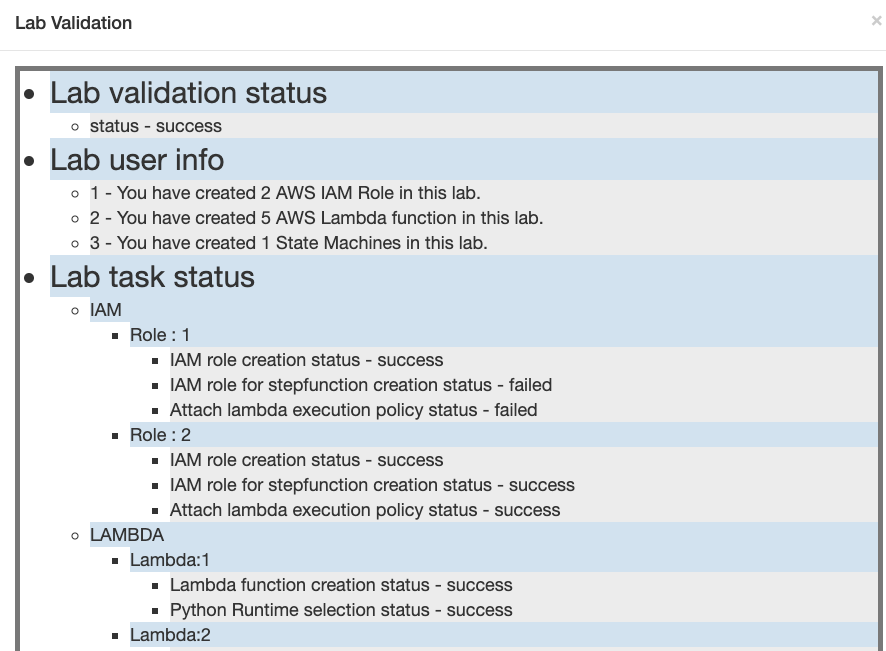
1. Live execution of the workflow can be monitored below in the **Execution event history**.



Task 5: Validation Test

1. Once the lab steps are completed, please click on the A picture containing text

   Description automatically generated button on the left side panel.
2. This will validate the resources in the AWS account and shows you whether you have completed this lab successfully or not.
3. Sample output :



**Completion and Conclusion**

1. You have successfully created 5 Lambda functions.
2. You have successfully created a state machine in step function.
3. You have successfully used different States in the workflow like Task, Choice, Parallel, Wait, End states.
4. You have successfully tested the step function.

**End Lab**