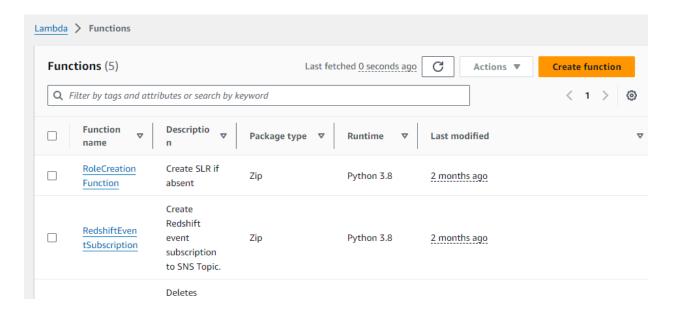
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#### **EXPERIMENT NO.11**

**Aim:** To understand AWS Lambda, its workflow, various functions and create your first Lambda functions using Python / Java / Nodejs.

### **Steps to create Lambda function in AWS:**

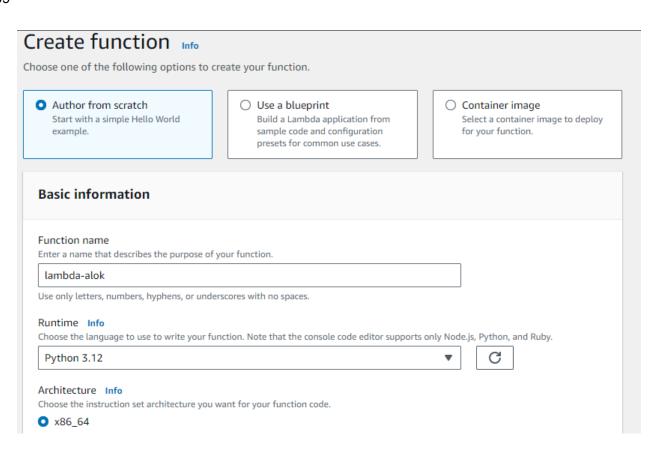
Open up the Lambda Console and click on the Create button.
 Be mindful of where you create your functions since Lambda is region-dependent.



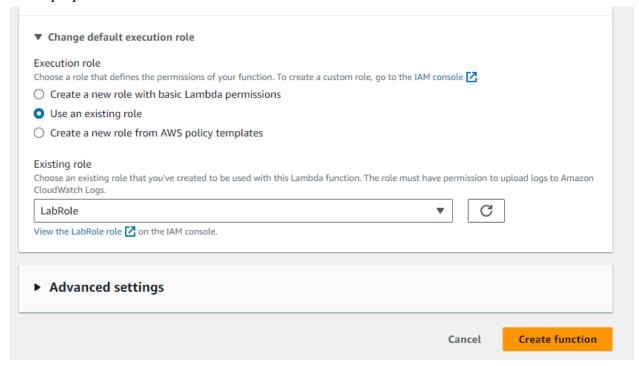
2. You can either create a function from scratch or select a blueprint, which is a pre-defined template by AWS that includes configuration settings for common use cases. Next, choose a runtime environment for your function; the dropdown will display all supported options, with Python, Node.js, .NET, and Java being the most popular. Finally, if you don't have an existing role, opt to create a new role with basic Lambda permissions.

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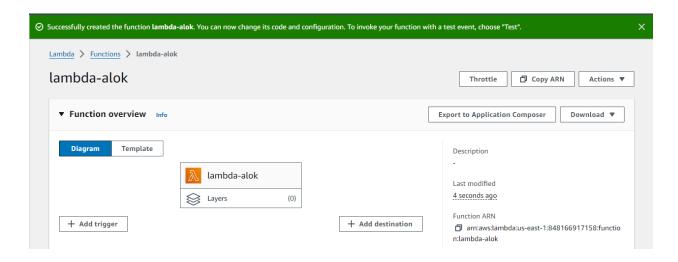


# Select proper Execution role



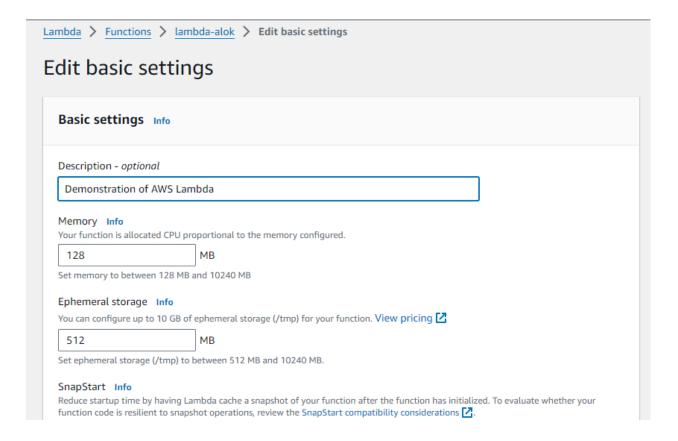
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# Successfully created Lambda function

3. To view or change the basic settings, go to the 'Configuration' tab and click 'Edit' under 'General settings.' (THIS STEP IS OPTIONAL)



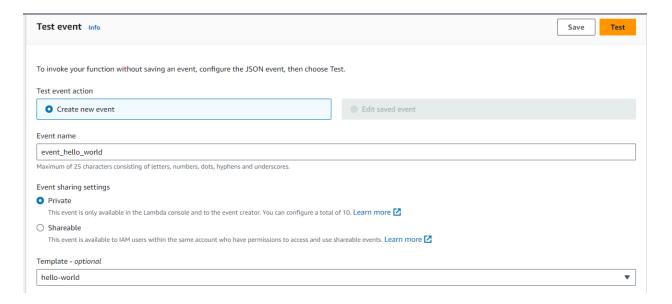
Name: Alok Yadav Div: D15C Roll

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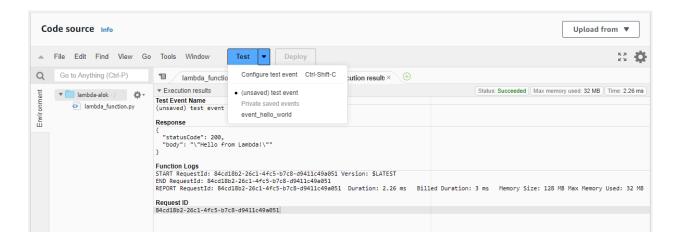
### Added description.

4. Go to the 'Test' tab and click 'Create a new event.' Give the event a name, set 'Event Sharing' to private, and choose the 'hello-world' template.

We can create a new event to test and validate your Lambda function. By setting Event Sharing to private, we ensure its security, and selecting the "hello-world" template offers a straightforward framework for testing with minimal input complexity.



5. In the Code section, select the event you created from the dropdown menu under 'Test,' then click 'Test.' You should see the output below."



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Got above output from Lambda function

6. You can modify your Lambda function code. I've updated it to display the current Date and Time of AWS Server. After making your changes, save them using Control + S and then click on Deploy.

Function to get current Date and Time of Server:

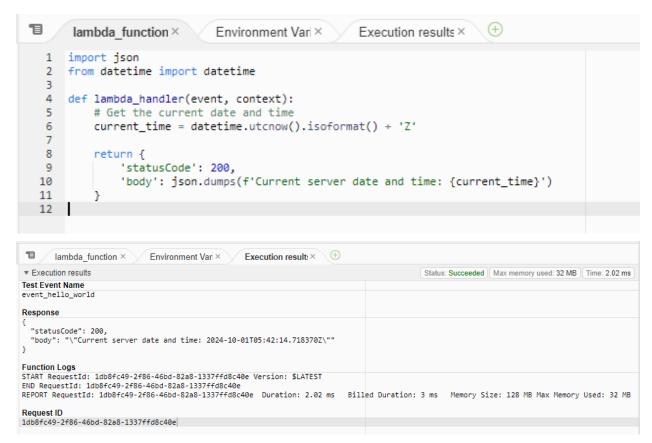
```
import json
from datetime import datetime

def lambda_handler(event, context):
    # Get the current date and time
    current_time = datetime.utcnow().isoformat() + 'Z'

return {
    'statusCode': 200,
    'body': json.dumps(f'Current server date and time: {current_time}')
}
```

Note: After making change in lambda function, ensure you deploy it before running test

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After changing the lambda function, we are getting Date and Time from the Server.

#### **Conclusion:**

In conclusion, I conducted an experiment using the **Hello World** template and achieved the expected results. Initially, I encountered issues with my custom Lambda function, which was designed to retrieve the server's date and time, due to it not being deployed. After deploying the function, it executed correctly and returned the desired output. This experience underscored the critical importance of deploying changes to ensure they are properly reflected and take effect in production.