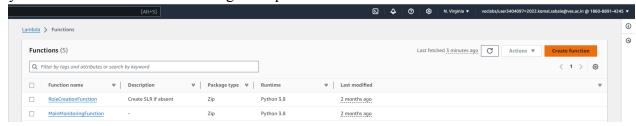
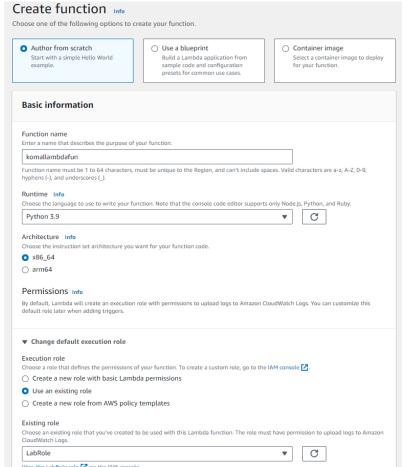
## **Experiment 11**

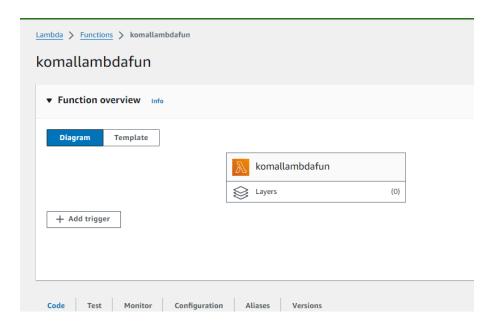
## Steps to create an AWS Lambda function

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

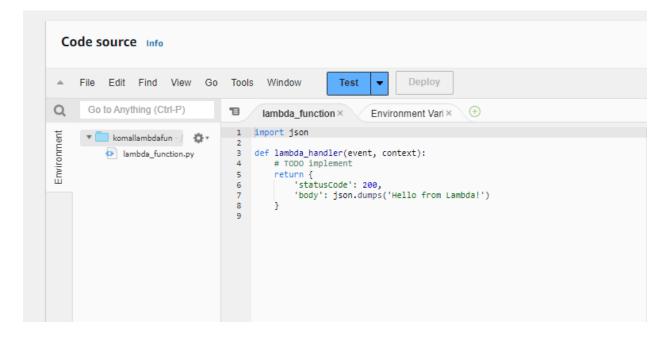


2. Choose to create a function from scratch or use a blueprint, i.e templates defined by AWS for you with all configuration presets required for the most common use cases.





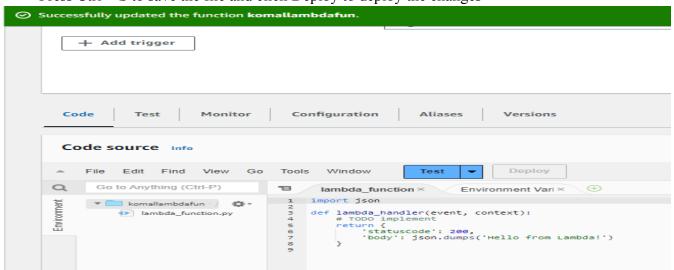
3. This process will take a while to finish and after that, you'll get a message that your function was successfully created.



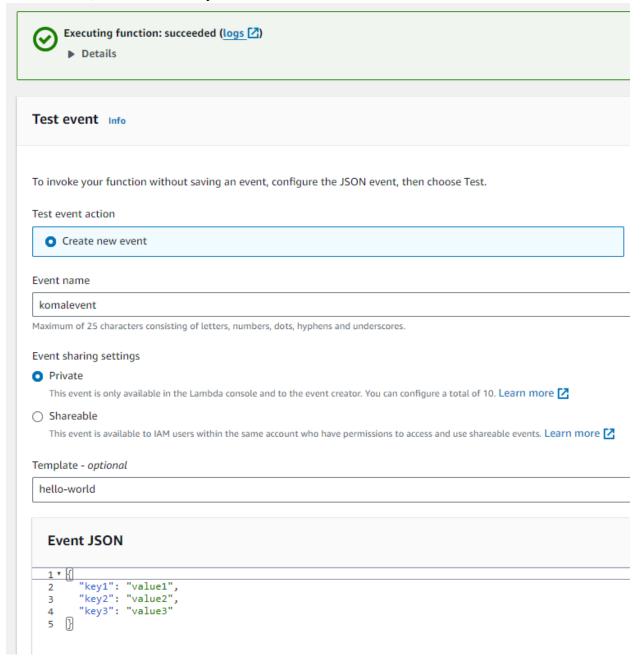
4. To change the configuration, open up the Configuration tab and under General Configuration, choose Edit.

| dit basic settings   |  |
|--|--|
| Basic settings Info  |  |
| Description - optional   |  |
|  |  |
| Memory Info Your function is allocated CPU pro   | oportional to the memory configured.   |
| 128  | МВ   |
| Set memory to between 128 MB a   | and 10240 MB   |
| Ephemeral storage Info<br>You can configure up to 10 GB of   | ephemeral storage (/tmp) for your function. View pricing 🔀   |
| 512  | МВ   |
| SnapStart Info   |  |
|  | mbda cache a snapshot of your function after the function has initialized. To evaluate whether your not operations, review the SnapStart compatibility considerations [2].                 |
|  |  |
| function code is resilient to snapsi<br>None   | not operations, review the SnapStart compatibility considerations 2.   |
| function code is resilient to snapsl None Supported runtimes: Java 11, Java  | not operations, review the SnapStart compatibility considerations 2.   |
| function code is resilient to snapsl None Supported runtimes: Java 11, Java  | not operations, review the SnapStart compatibility considerations 2.   |
| Function code is resilient to snapsi  None  Supported runtimes: Java 11, Java  Timeout  min 3  Execution role  Choose a role that defines the per  | not operations, review the SnapStart compatibility considerations 2.  17, Java 21.   |
| None Supported runtimes: Java 11, Java Timeout  min 3  Execution role Choose a role that defines the per Use an existing role  | not operations, review the SnapStart compatibility considerations 2.  17, Java 21.  Sec  missions of your function. To create a custom role, go to the IAM console 2.                      |
| None Supported runtimes: Java 11, Java Timeout  min 3  Execution role Choose a role that defines the per Use an existing role Create a new role from AN  | not operations, review the SnapStart compatibility considerations 2.  17, Java 21.  Sec  missions of your function. To create a custom role, go to the IAM console 2.                      |
| None Supported runtimes: Java 11, Java Timeout  min 3  Execution role Choose a role that defines the per Use an existing role Create a new role from AV Existing role  | not operations, review the SnapStart compatibility considerations 2.  17, Java 21.  Sec  missions of your function. To create a custom role, go to the IAM console 2.                      |
| None Supported runtimes: Java 11, Java 71 Timeout  min 3  Execution role Choose a role that defines the per Use an existing role Create a new role from Al  Existing role Choose an existing role that you'v | not operations, review the SnapStart compatibility considerations 2.  17, Java 21.  sec  missions of your function. To create a custom role, go to the IAM console 2.  WS policy templates |

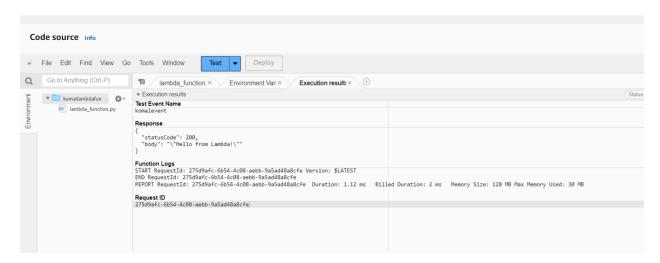
5. You can make changes to your function inside the code editor. You can also upload a zip file of your function or upload one from an S3 bucket if needed. Press Ctrl + S to save the file and click Deploy to deploy the changes



6. Click on Test and you can change the configuration, like so. If you do not have anything in the request body, it is important to specify two curly braces as valid JSON, so make sure they are there



7. Now click on Test and you should be able to see the results.



## Conclusion:

AWS Lambda automatically manages the compute resources, executes your code in response to specific events such as API calls, file uploads, or database updates, and scales based on the demand. The workflow of AWS Lambda involves defining a function with specific logic, configuring triggers that will invoke the function, and setting permissions to control access. Lambda supports multiple programming languages, including Python, Java, and Node.js, enabling developers to choose the best fit for their applications. Creating your first Lambda function is straightforward: you write the code, define triggers, and deploy, allowing you to quickly build and run applications without the overhead of managing infrastructure. This simplicity and flexibility make AWS Lambda an excellent tool for building modern, event-driven applications.