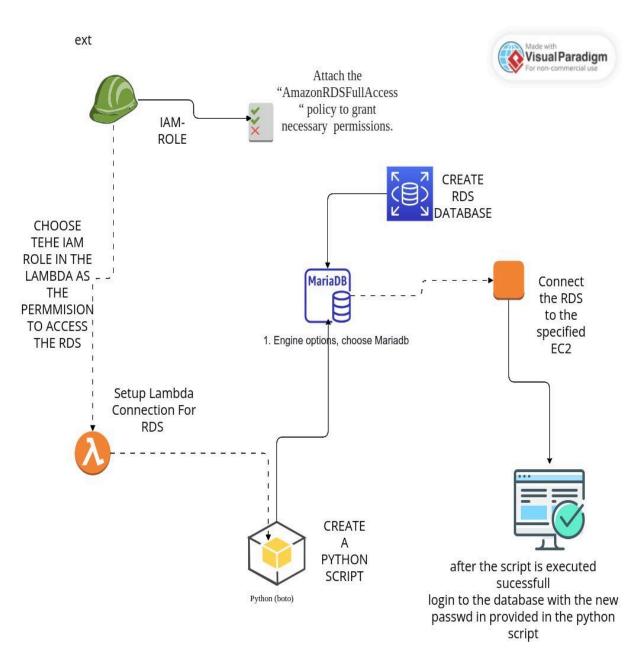
# Using a Lambda function to change an Amazon RDS passwd

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#### 1] CREATE IAM ROLE

Create an IAM role Attach the "AmazonRDSFullAccess" policy to grant necessary permissions.

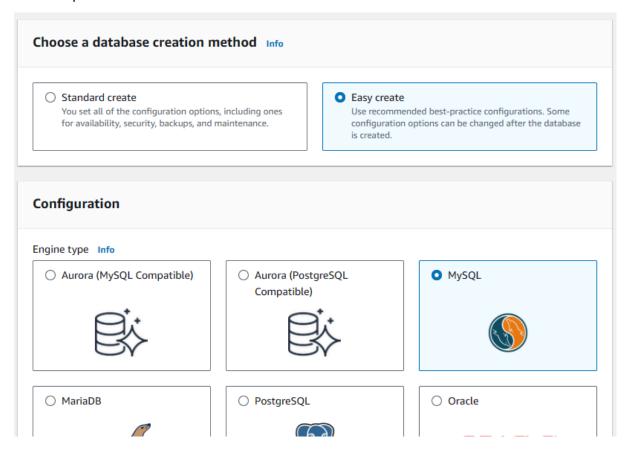
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# 2]CREATE RDS DATABASE

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#### To create a database instance

1. Open the Amazon RDS console and choose Create database.



- Leave the Standard create option selected, then in Engine options, choose Mariadb
- 3. In Templates, choose Free tier.
- 4. In Settings, for DB instance identifier, enter "your identifier name".
- 5. Set your username and password by doing the following:

Minimum constraints: At	least 8 printable ASCII characters. Can't contain any of the following symbols: / ' " @
Confirm master passv	vord Info
****	
Set up EC2 co	nnection - optional
	connection to an EC2 instance after creating the database. Go to the database list page or the database details s, and then choose <b>Set up to EC2 connection</b> .
View default	settings for Easy create
	following configurations to their default values, some of which can be changed later. If you want to change any o
these settings now, u	
You are responsib	ele for ensuring that you have all of the necessary rights for any third-party products or services
o roa are responsib	AWS services.
that you use with	

- In Credentials settings, leave Master username set to admin.
- For Master password, enter and confirm a password to access your database.
- 6. Connect the RDS to the specified EC2
- 7. Leave all the remaining default options selected and choose Create

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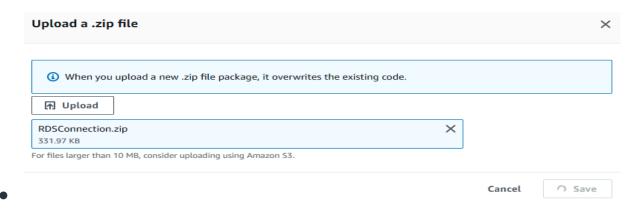
### **Setup Lambda Connection For RDS**

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Create the function

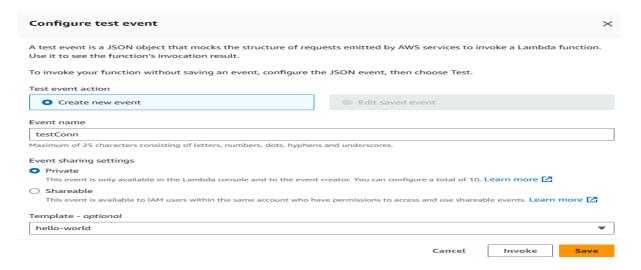
1] On this page select the execution environment as **Python** 

- Install botos3 and required package for the code to accessing DB.
- Make it as a zip file and upload the zip to the lambda function

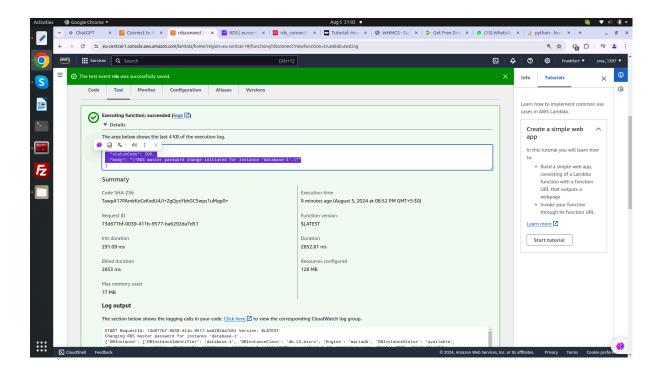


- Test The Function For Access
- Click on Test from code editor of lambda function. It will open event creation page.

Give any name to the event and leave everything as default and proceed.



Once the event is created click on Test.



## Python script

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# import boto3 import json

def change\_rds\_password(db\_instance\_identifier, new\_password):
 # Create an RDS client using the IAM role credentials
 rds\_client = boto3.client('rds')

#### try:

# Modify the RDS instance to update the master user password response = rds\_client.modify\_db\_instance(

DBInstanceIdentifier=db\_instance\_identifier,

MasterUserPassword=new\_password,

ApplyImmediately=True # Apply the changes immediately

```
)
     print(f"Changing RDS master password for instance
'{db instance identifier}'...")
    print(response)
    return {
       'statusCode': 200.
       'body': json.dumps(f"RDS master password change initiated for
instance '{db instance identifier}'.")
    }
  except Exception as e:
    print(f"Error changing RDS master password: {e}")
    return {
       'statusCode': 500,
       'body': json.dumps(f"Error changing RDS master password:
{str(e)}")
    }
def lambda handler(event, context):
  # Define your RDS instance details
  db instance identifier = 'database-1'
  new password = 'admin1234'
  return change_rds_password(db_instance_identifier, new_password)
if __name__ == "__main__":
  # For local testing, call the lambda_handler function with dummy
event and context
  lambda handler({}, {})
```