**How to encrypt the Database variables in AWS Lambda Function using customer KMS key**

1. **To create AWS KMS key**

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1. **To create policy for KMS Decrypt Write operation with specific KMS ARN**

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1. **To attach KMS policy to Lambda basic execution role**

//By default, lambda basic execution role has permission to create log group and log streams in CloudWatch

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1. **To make ensure this role has attached to Lambda Function**

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1. **To create an environment variable for Database**

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Enable Encryption in transit

Select – Use a customer master key – choose – your KMS key

Then choose – Encrypt button – to encrypt the variable

After encryption – save the environment variables

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1. **To execute the below code**

<https://github.com/kohlidevops/aws-devops/blob/main/lambda-environmentvariable-python>

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//Once code has been placed don’t forget to deploy the code

1. **Test the code with sample event**

//If you select “shareable” then you can share this event to other IAM users (who have permission to access this lambda)

Just Save and Test this event

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You can see the encrypted & decrypted value for DB\_PASSWORD

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