**RDS logs to S3 :**

**1 .** Create lambda function with below script :

import boto3

import os

def lambda\_handler(event, context):

# Initialize AWS clients

rds\_client = boto3.client('rds')

s3\_client = boto3.client('s3')

# Specify the RDS instance identifier you want to process

specific\_instance\_name = 'client-database-1' **# specify rds instance**

# Define the list of log file patterns you want to search for

log\_file\_patterns = [ **# specify logs pattern**

'slowquery/mysql-slowquery.log.2024-01-07.23',

'general/mysql-general.log',

'error/mysql-error-running.log',

'log/system\_health\_0\_133488550040790000.xel',

'log/ERROR'

]

# Get logs for the specific RDS instance based on each pattern

for pattern in log\_file\_patterns:

# Get logs for the RDS instance based on each pattern

logs\_response = rds\_client.describe\_db\_log\_files(

DBInstanceIdentifier=specific\_instance\_name,

FilenameContains=pattern

)

for log\_file in logs\_response['DescribeDBLogFiles']:

log\_file\_name = log\_file['LogFileName']

# Download log file

log\_data = rds\_client.download\_db\_log\_file\_portion(

DBInstanceIdentifier=specific\_instance\_name,

LogFileName=log\_file\_name

)

# Upload log file to S3

s3\_client.put\_object(

Body=log\_data['LogFileData'],

Bucket='rdslogsz', **# specify s3 bucket**

Key=f'{specific\_instance\_name}/{log\_file\_name}'

)

**2. Attach below policy to lambda :**

1 . [AmazonRDSFullAccess](https://us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/policies/details/arn%3Aaws%3Aiam%3A%3Aaws%3Apolicy%2FAmazonRDSFullAccess)

2. [AmazonS3FullAccess](https://us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/policies/details/arn%3Aaws%3Aiam%3A%3Aaws%3Apolicy%2FAmazonS3FullAccess)

3. [AWSLambdaBasicExecutionRole](https://us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/policies/details/arn%3Aaws%3Aiam%3A%3Aaws%3Apolicy%2Fservice-role%2FAWSLambdaBasicExecutionRole)

**3. Add Trigger to lambda .**

**4 . TEST.**

**NOTE : Replace** specific\_instance\_name = 'client-database-1' **to** rds\_instances = rds\_client.describe\_db\_instances() for all the rds logs transfer .