## Assignment 15: Implement a Log Cleaner for S3

Objective: Create a Lambda function that automatically deletes logs in a specified S3 bucket that are older than 90 days.

## 1. Create a new Lambda function.

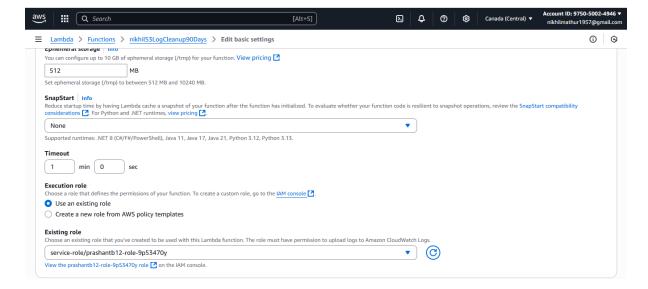
Go to Lambda.

Click Create function.

Function name: nikhilS3LogCleanup90Days

Runtime: Python 3.13

Permissions: Choose Use an existing role (prashantb12-role-9p53470y).



## **Add Python Code**

```
D: > DevOpsAndCloud > HeroViered > ServerlessArchitectureAndCloudAutomation > Assignment-15 > 💠 Assignment15.py > 😚 lambda_handler
      import datetime
      def lambda_handler(event, context):
    BUCKET_NAME = "nikhilmathur-s3"
          # Calculate cutoff date (UTC)
cutoff_date = datetime.datetime.now(datetime.timezone.utc) - datetime.timedelta(days=DAYS_THRESHOLD)
          deleted_files = []
           continuation_token = None
          while True:
              if continuation_token:
                  response = s3.list_objects_v2(Bucket=BUCKET_NAME, ContinuationToken=continuation_token)
                   response = s3.list_objects_v2(Bucket=BUCKET_NAME)
              if "Contents" not in response:
    print(f"No objects found in bucket {BUCKET_NAME}")
                  key = obj["Key"]
last_modified = obj["LastModified"]
                         if last_modified < cutoff_date:</pre>
                              print(f"Deleting {key} (LastModified: {last_modified})")
                              s3.delete_object(Bucket=BUCKET_NAME, Key=key)
                              deleted_files.append(key)
                   if response.get("IsTruncated"):
                         continuation_token = response["NextContinuationToken"]
                        break
              print(f" Deleted {len(deleted_files)} objects from {BUCKET_NAME}")
              return {"deleted_count": len(deleted_files), "deleted_files": deleted_files}
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```

## **Click on test for Output**

