Use case

IAM Policy Audit Tool

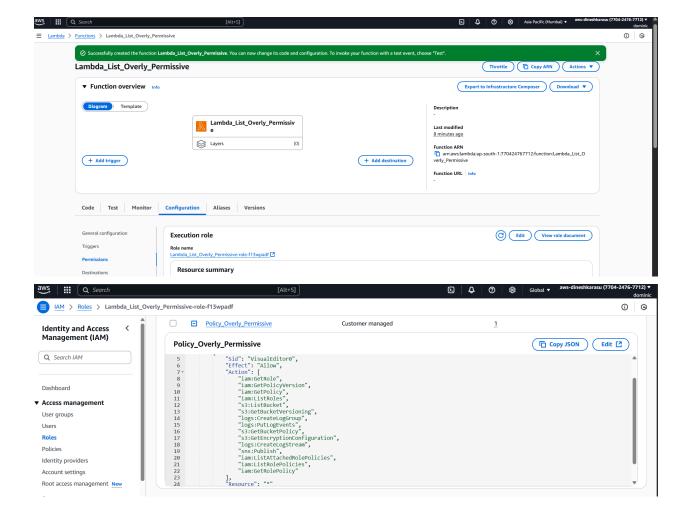
Use case Description

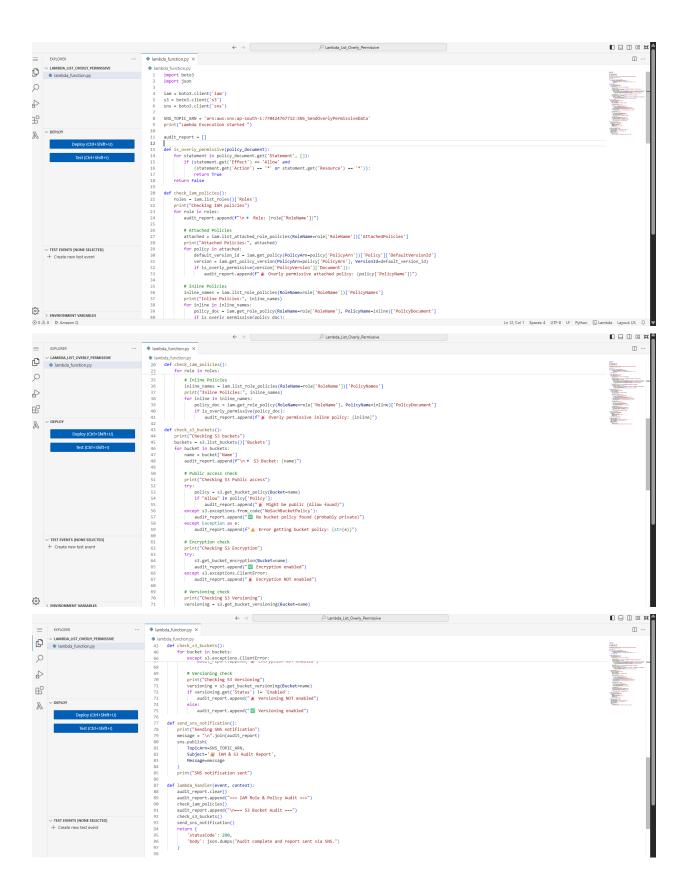
List IAM roles/policies and detect overly permissive ones(e.g., Action: *)

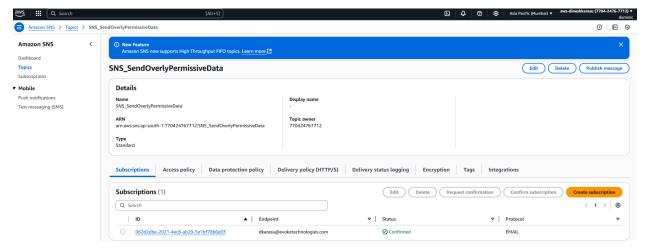
Check for public access, encryption, versioning.

Approach:

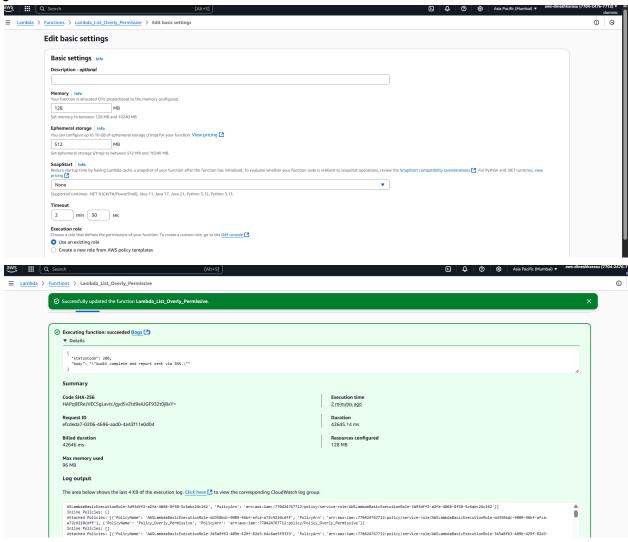
- 1. Create a Lambda Function
- 2. Set IAM permissions to the Lambda to access Overly permissive resources
- 3. Create an SNS Topic and subscribe email to get the output over email
- 4. Write python code in Lambda and Integrate SNS Notification
- 5. Test the functionality







Increase the execution time for Lambda as this process takes more time and by default Lambda gets created with 3 execution time of seconds





AWS Notifications < no-reply@sns.amazonaws.com >

To: ODinesh Karasu

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- === IAM Role & Policy Audit ===
- Role: Amazon_EventBridge_Invoke_Lambda_577396163
- Role: Amazon_EventBridge_Invoke_Lambda_8437325
- Role: Amazon_EventBridge_Invoke_Sns_820818589
- Role: AWSCodePipelineServiceRole-ap-south-1-CICD_Deploy_Lambda
- Role: AWSCodePipelineServiceRole-ap-south-1-PythonApp-CI-CD
- Overly permissive attached policy: AWSCodePipeline_FullAccess
- Role: AWSServiceRoleForAutoScaling
- Overly permissive attached policy: AutoScalingServiceRolePolicy
- Role: AWSServiceRoleForRDS
- Overly permissive attached policy: AmazonRDSServiceRolePolicy
- Role: AWSServiceRoleForSupport
- Role: AWSServiceRoleForTrustedAdvisor

- · Role: S3-Full-Access
- ▲ Overly permissive attached policy: S3-Full-Access
- Role: Send_HealthCheckDetails_to_SQS-role-s86f0jhe
- · Role: Send_Message_To_SQS-role-ecgji0oj
- Role: TriggerLimitExceededSNS-role-ujt432bs
- Overly permissive attached policy: AdministratorAccess
- === S3 Bucket Audit ===
- S3 Bucket: cf-templates-1njo811r3cjr-ap-south-1
- No bucket policy found (probably private)
- Encryption enabled
- Versioning NOT enabled
- S3 Bucket: codepipeline-ap-south-1-87272186fa9a-4a78-b3ac-3657aed161dd
- Encryption enabled
- Versioning NOT enabled
- S3 Bucket: s3-bkt-img-rekognition
- No bucket policy found (probably private)
- Encryption enabled
- Versioning NOT enabled
- S3 Bucket: s3-my-codepipeline-bucket
 No bucket policy found (probably private)
- Encryption enabled
- Versioning NOT enabled