

# AWS CloudTrail

# Agenda

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- ▶ What is Cloud Trail ?
- ▶ Benefits
- ▶ How it Works ?
- ▶ Integration with Lambda and CloudWatch
- ▶ Demo & Lab

# What is CloudTrail?

- ▶ AWS CloudTrail is a service that enables governance, compliance, operational auditing, and risk auditing of your AWS account.
- ▶ With CloudTrail, you can log, continuously monitor, and retain account activity related to actions across your AWS infrastructure.
- ▶ CloudTrail provides event history of your AWS account activity, including actions taken through the AWS Management Console, AWS SDKs, command line tools, and other AWS services.
- ▶ Event history simplifies security analysis, resource change tracking, and troubleshooting.

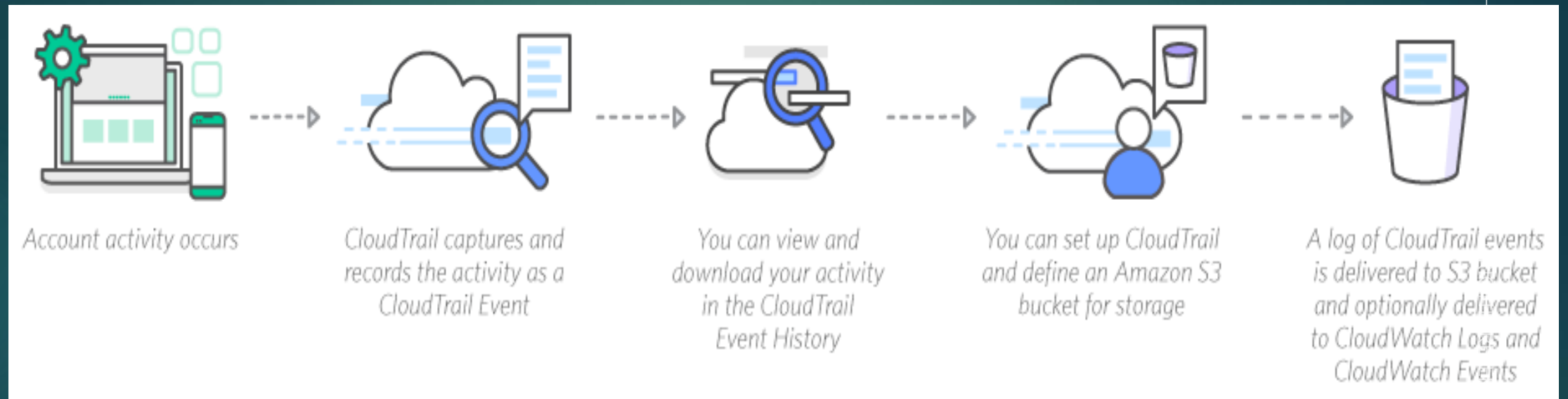
# Benefits

- ▶ Simplified Compliance
- ▶ Visibility into User and Resource Activity
- ▶ Security Analysis
- ▶ Security Automation

# How It Works

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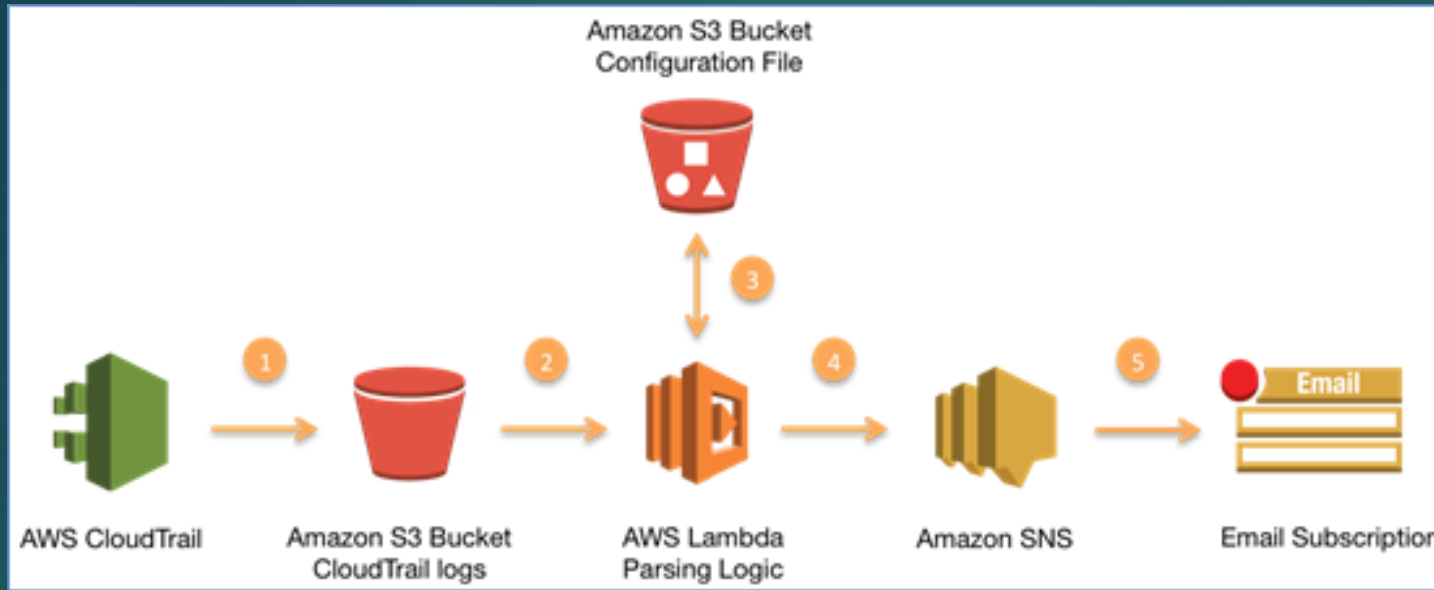
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# Using CloudTrail and Lambda together

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- CloudTrail generates a log entry for every API call made on your account. CloudTrail aggregates the log entries in JSON text files, zips the files, and copies them to the Amazon S3 bucket configured to receive CloudTrail log files.
- The log parsing logic is deployed as a Lambda function. The Lambda function is triggered when CloudTrail copies a new file to your S3 bucket.
- The Lambda function uses a configuration file that contains a list of specific API keywords that, when detected, will trigger a notification. The configuration file is stored in an S3 bucket.
- Whenever relevant keywords are detected in the CloudTrail logs, the Lambda function posts a notification to an SNS topic.
- SNS dispatches the notification to every topic subscriber via email, Amazon SQS, SMS, HTTP call, or mobile push.

# Using CloudWatch and CloudTrail together

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<https://aws.amazon.com/blogs/security/how-to-receive-notifications-when-your-aws-accounts-root-access-keys-are-used/>

# DEMO & LAB



# THANK YOU