### AWS CloudWatch Log Downloader and Scanner

**Author:** Daniel Chisasura

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### **Purpose:**

This script uses the AWS CLI to download CloudWatch logs from a specified log group and scans them locally for suspicious keywords (e.g., "Unauthorized", "Failed").

# Overview

This Bash script helps cloud administrators monitor AWS EC2 or other services by pulling logs from CloudWatch and scanning them for signs of unauthorized access or errors. It's a simple tool for entry-level cloud engineers to demonstrate automation and log analysis using AWS CLI.

## **%** Prerequisites

- AWS CLI: Must be installed on your system.
- **AWS Credentials**: Run aws configure to set up your Access Key ID, Secret Access Key, and default region.
- **IAM Permissions**: Ensure your IAM user or role has permissions like logs:GetLogEvents.

# Configuration

Before running, edit the following variables in the script:

```
1 LOG_GROUP_NAME="/aws/ec2/my-instance-logs" # Your CloudWatch log group
2 KEYWORD_TO_FIND="Unauthorized" # Keyword to search for
3 OUTPUT_FILE="downloaded_logs.txt" # Output file name
```

#### Note for macOS users:

Replace the Linux date command with:

### START\_TIME=\$(date -v-1d +%s000)

## How to Use

- 1. Make the script executable: chmod +x download\_and\_scan.sh
- 2. Run the script: ./download\_and\_scan.sh

### The script will:

- Download logs from the last 24 hours.
- Save them to downloaded\_logs.txt.
- Print any lines containing your specified keyword.

## Sample Output

Starting AWS CloudWatch log download...

Log Group: /aws/ec2/my-instance-logs

Log download complete. Saved to downloaded\_logs.txt

Scanning logs for keyword: 'Unauthorized'

ALERT: Suspicious keyword 'Unauthorized' found in logs.