



# **REPOSYNC AUTOMATION**

REPOSYNC AUTOMATION 1

# **Submitted by Excelsoft Technology**

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#### Overview

This document outlines the automation setup to monitor and alert changes (file uploads) in AWS S3 and Azure Blob Storage, thereby reducing manual intervention and improving visibility.

**Objective**: Eliminate manual checks and automate weekly reporting/alerts when new objects are created in designated paths or folders in storage buckets/containers.

# AWS - Approach 1: Event-Based Alerting

## a. Setup SNS & Subscription

- Create an **SNS Topic** (e.g., RepoSyncTopic).
- Add **Email Subscription** to notify users.
- Confirm the subscription via email.

# **b.** Configure SNS Access Policy

Grant permission for S3 to publish to the SNS topic:



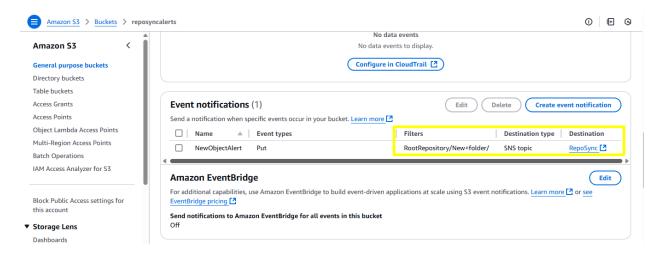
SNSAccessPolicy.jso

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#### c. Setup Event Alerts in S3

- Go to S3 Bucket → Properties → Event Notifications
- Create a new event notification:
  - o Event name: NewObjectAlert.
  - Event types: PUT (Object Created).
  - o Prefix: Set to desired folder path (e.g., FolderName/).
  - Destination: SNS Topic

• Please find the attached screenshot for reference.



Destination – Name of the SNS topic.

#### d. Alerts Sample Screenshot



REPOSYNC AUTOMATION

4

#### AWS - Approach 2: Scheduled Sync & Report

# a. Setup RepoSync Job in Windows Server

- Scheduled task to create a change-tracker file (e.g., weekly change list).
- Output format: .txt in local directory.
- Refer to **CreateChange** folder in the zip file attached which contains the appropriate scripts to achieve this step.

#### b. RepoSync to S3 (Skip if already configured)

- Configure RepoSync to s3://your-bucket/reports/ using CLI.
- Use standard RepoSync.bat file for syncing repository.

#### c. Setup Task Scheduler with GetS3Objects.ps1

- PowerShell script lists objects from S3 folder.
- Formats HTML email & sends it via SMTP.
- Configure to run weekly via Task Scheduler.
- Refer to **S3** folder in the zip file attached which contains the appropriate scripts to achieve this step.

REPOSYNC AUTOMATION 5

## Azure – Scheduled Sync & Report

# a. Setup RepoSync Job in Windows Server

- Scheduled task to create a change-tracker file (e.g., weekly change list)
- Output format: .txt in local directory.
- Refer to **CreateChange** folder in the zip file attached which contains the appropriate scripts to achieve this step.

#### b. RepoSync to Azure Blob Container (Skip if already configured)

- Configure RepoSync to Azure blob.
- Use standard RepoSync.bat file for syncing repository.

#### c. Setup Task Scheduler with GetContainerObjects.ps1

- PowerShell script filters objects in given virtual directory path.
- Sends structured email report using SMTP in HTML format.
- Use Task Scheduler to run weekly.
- Refer to **Blob** folder in the zip file attached which contains the appropriate scripts to achieve this step.

REPOSYNC AUTOMATION 6