



What is S3 Event Notification? Give an example of how you've used it as DevOps Engineer.

As a **DevOps Engineer**, I see **S3 Event Notification** as a powerful automation trigger in AWS that lets you **react to changes in an S3 bucket**. It enables automatic actions whenever specific events occur—like when an object is uploaded, deleted, or restored.

You can configure S3 to send notifications to:

- **SNS topics:** Sends a message to many subscribers at once (like a group SMS).
- **SQS queues:** Holds messages in a queue so other services can process them later, one at a time.
- **AWS Lambda functions:** Runs your code automatically in response to an event, without needing a server.

This helps eliminate polling and manual intervention, making systems more event-driven and scalable.

Example of How I've Used It

In one of my projects, we had a CI/CD pipeline where teams uploaded build artifacts (like `.zip` or `.tar.gz`) to a specific **S3 bucket** after the build phase.

My DevOps Workflow:

1. **Trigger:**
When a new artifact was uploaded to `build-artifacts/` in the S3 bucket.
2. **Action:**
S3 triggered a **Lambda function**, which:
 - Verified the checksum and artifact metadata,

- Tagged the artifact with build info (e.g., build ID, timestamp),
- Triggered a downstream deployment job via **Step Functions** or **CodePipeline**.

3. Outcome:

The deployment process was now fully automated—no manual steps, no polling, and real-time artifact handling. It improved delivery speed and reduced human error.

Why It Matters in DevOps:

- **Automation:** React to infrastructure changes instantly
- **Observability:** Log and audit file changes automatically
- **CI/CD Integration:** Trigger builds, tests, or deployments on file uploads
- **Cost-Effective:** No need for a continuously running server to check S3

What is the purpose of Amazon S3 Event Notifications?

- A. To monitor EC2 instance logs
- B. To notify users when billing thresholds are crossed
- C. To trigger actions automatically when specific S3 bucket events occur
- D. To replicate data between S3 buckets in different regions

Answer:  C

Which of the following services can be integrated directly with S3 Event Notifications?

- A. AWS RDS
- B. AWS Lambda
- C. Amazon SQS
- D. Amazon SNS

Answer:  B, C, and D

(Note: Multiple correct options — Lambda, SQS, SNS)

You want to automatically trigger image resizing when a user uploads a .jpg file to an S3 bucket. What should you use?

- A. AWS Auto Scaling
- B. CloudFront

C. S3 Event Notification + Lambda

D. Route 53

Answer:  C