

You're required to maintain compliance logs for 1 year. How would you configure CloudTrail to support this?

Answer:

Here's what I'd do:

- 1. Create a new CloudTrail trail (or edit existing)
- 2. Enable multi-region logging for full coverage
- 3. Send logs to an S3 bucket
- 4. In the S3 bucket:
 - o Enable Object Lock (Governance mode) if immutability is required
 - Set S3 lifecycle policy to retain logs for 1 year
- 5. (Optional) Send logs to **CloudWatch Logs** for real-time monitoring and alerts **Tip:** For compliance, also enable log file validation to ensure logs are tamper-proof.

Real-world note:

In my last role, our security team required us to retain CloudTrail logs for **13 months** to meet ISO 27001 and SOC2 audit standards. We automated the lifecycle config using Terraform.

What is Object Lock?

Object Lock is an Amazon S3 feature that allows you to **store objects using a write-once-read-many (WORM) model**. This means once data is written, it **cannot be modified or deleted** for a defined retention period.

What is Governance Mode?

There are two Object Lock modes:

- Governance mode Even though the data is locked, certain users with special permissions (like s3:BypassGovernanceRetention) can override or delete the object.
- **Compliance mode** Nobody, not even the root user, can delete or change the object during the retention period.

What is the key difference between **Object Lock Governance mode** and **Compliance mode**?

- A. Governance mode allows some privileged users to override retention; Compliance mode blocks all modifications, even from root
- B. Governance mode stores logs longer; Compliance mode deletes logs after 1 year
- C. Governance mode applies only to CloudTrail; Compliance mode applies only to S3
- D. Governance mode supports real-time monitoring; Compliance mode does not
- Correct Answer: A

Your company's auditor requires logs to be immutable for 1 year. Which S3 feature should you enable?

- A. Versioning
- B. Object Lock
- C. Lifecycle Policies
- D. Server-Side Encryption
- Correct Answer: B

Why is it recommended to enable multi-region logging for CloudTrail?

- A. It reduces the cost of storing logs
- B. It ensures you capture events from all AWS regions for compliance
- C. It allows logs to be compressed before storage
- D. It automatically enforces Object Lock
- Correct Answer: B