

AWS re:Invent

NOV. 28 – DEC. 2, 2022 | LAS VEGAS, NV

STG315-R

Configuring Amazon S3 security settings and access controls

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Agenda

- Amazon S3 security best practices
- What's new in Amazon S3 security
- Workshop overview and logistics
- Wrap-up/survey

Amazon S3 security best practices



Bucket



Default encryption: **SSE-KMS** with S3 Bucket Keys



Replicate your objects with **S3 Same-Region Replication (SRR)/S3 Cross-Region Replication (CRR)** for rogue actor protection



Enable **S3 Object Lock, S3 Versioning, and multi-factor authentication (MFA) delete** to protect data

Amazon S3 security best practices



Bucket (continued)



S3 Access Points for simplifying control for shared buckets



VPC endpoint: Enable and require, with bucket policies limiting access



Use bucket owner enforced with **IAM and bucket policies** to disable ACLs

Amazon S3 security best practices



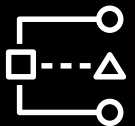
AWS account



Block Public Access for multiple S3 buckets



Monitor security settings with **AWS Config**



Audit security access with **IAM Access Analyzer**

Amazon S3 security best practices



AWS Organizations/multi-account



Service control policies (SCP) to enforce bucket policies



Preventative guardrails with **AWS Control Tower** to identify public buckets

What's new in Amazon S3 security

- **S3 Storage Lens** – Account-level visibility into your S3 encryption
- **S3 Batch Replication** – Self-service replication of existing S3 objects
- **AWS Backup for S3** – Meet compliance and secure your S3 buckets
- **S3 Object Ownership** – Bucket owner enforced on buckets to disable ACLs

Workshop overview

LAB EXERCISES

Security lab exercises

- Require HTTPS
- Require SSE-KMS encryption
- Restrict access to an Amazon S3 VPC endpoint
- Use AWS Config to detect a public bucket
- Use IAM Access Analyzer for S3

Security lab – S3 ACL exercises



- Block public ACLs using a bucket policy
- Configure Amazon S3 Block Public Access
- Disable S3 ACLs

Workshop logistics

Workshop logistics

AWS workshop instructions and access:

<https://bit.ly/2022-STG315-R>

 workshop studio 

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Step 1
[Enter event access code](#)

Step 2
Review and join

Review and join

Event details


Name	Start time	Duration	Level
Configuring Amazon S3 security settings and access controls	11/18/2022 10:51 AM	12 hours	-

Description
re:Invent STG315 - Configuring Amazon S3 security settings and access controls

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▼ AWS account access

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