CVE-2020-8912

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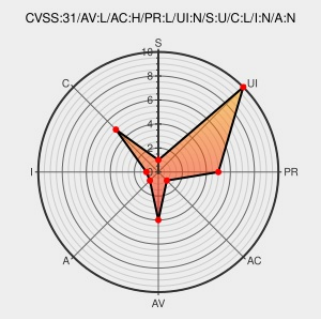
Source: Mitre | Source: NIST | CVE.ORG | Print: PDF



Certain versions of Aws S3 Crypto Sdk from Amazon contain the following vulnerability:

A vulnerability in the in-band key negotiation exists in the AWS S3 Crypto SDK for GoLang versions prior to V2. An attacker with write access to the targeted bucket can change the encryption algorithm of an object in the bucket, which can then allow them to change AES-GCM to AES-CTR. Using this in combination with a decryption oracle can reveal the authentication key used by AES-GCM as decrypting the GMAC tag leaves the authentication key recoverable as an algebraic equation. It is recommended to update your SDK to V2 or later, and re-encrypt your files.

CVE-2020-8912 has been assigned by security@google.com to track the vulnerability - currently rated as LOW severity.

Affected Vendor/Software: **Google LLC** - **AWS S3 Crypto SDK for GoLang** version **<= V1**

CVSS3 Score: 2.5 - LOW

Attack Vector	Attack Complexity	Privileges Required	User Interaction
LOCAL	HIGH	LOW	NONE
Scope	**Confidentiality Impact**	**Integrity Impact**	**Availability Impact**
UNCHANGED	LOW	NONE	NONE

CVSS2 Score: 2.1 - LOW

Access Vector	Access Complexity	Authentication
LOCAL	LOW	NONE
Confidentiality Impact	**Integrity Impact**	**Availability Impact**
PARTIAL	NONE	NONE

CVE References

CVE References

Description	Tags	Link
In-band key negotiation issue in AWS S3 Crypto SDK for golang · Advisory · google/security-research · GitHub	Exploit Third Party Advisory github.com text/html	CONFIRM github.com/google/security-research/security/advisories/GHSA-7f33-f4f5-xwgw
Updates to the Amazon S3 Encryption Client | AWS Developer Blog	Vendor Advisory aws.amazon.com text/html	CONFIRM aws.amazon.com/blogs/developer/updates-to-the-amazon-s3-encryption-client/?s=09

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There are currently no QIDs associated with this CVE

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Amazon	Aws S3 Crypto Sdk	All	All	All	All
Application	Amazon	Aws S3 Crypto Sdk	All	All	All	All

cpe:2.3:a:amazon:aws_s3_crypto_sdk:*:*:*:*:*:golang:*:*:

cpe:2.3:a:amazon:aws_s3_crypto_sdk:*:*:*:*:*:golang:*:*:

Discovery Credit

Sophie Schmieg

Social Mentions

Source	Title	Posted (UTC)
@tomtwinklestar	aws-sdk-go v1からv2への切り替えモニョモニョしている間にCVE-2020-8911,CVE-2020-8912が来てバタバタv2に切り替えた 取り敢えずヨシ！	2022-09-02 10:26:16

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