CVE-2020-8897

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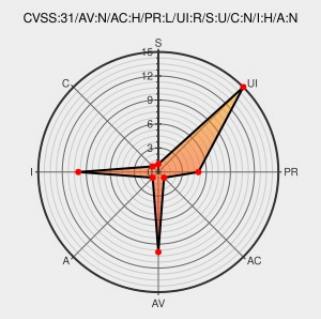
Source: Mitre | Source: NIST | CVE.ORG | Print: PDF



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

A weak robustness vulnerability exists in the AWS Encryption SDKs for Java, Python, C and Javalcript prior to versions 2.0.0. Due to the non-committing property of AES-GCM (and other AEAD ciphers such as AES-GCM-SIV or (X)ChaCha20Poly1305) used by the SDKs to encrypt messages, an attacker can craft a unique cyphertext which will decrypt to multiple different results, and becomes especially relevant in a multi-recipient setting. We recommend users update their SDK to 2.0.0 or later.

CVE-2020-8897 has been assigned by security@google.com to track the vulnerability - currently rated as HIGH severity.

Affected Vendor/Software: **Amazon** - **AWS SDK** version **< 2.0.0**

CVSS3 Score: 8.1 - HIGH

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

CVSS2 Score: 5.5 - MEDIUM

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

CVE References

Description	Tags	Link
Improved client-side encryption: Explicit KeyIds and key commitment | AWS Security Blog	Vendor Advisory aws.amazon.com text/html	CONFIRM aws.amazon.com/blogs/security/improved-client-side-encryption-explicit-keyids-and-key-commitment/
AWS: In-band protocol negotiation and robustness weaknesses in AWS KMS and Encryption SDKs · Advisory · google/security-research · GitHub	Exploit Mitigation Third Party Advisory github.com text/html	CONFIRM github.com/google/security-research/security/advisories/GHSA-wqgp-vphw-hphf

Related QID Numbers

980453 Python (pip) Security Update for aws-encryption-sdk (GHSA-wqgp-vphw-hphf)

980454 Java (maven) Security Update for com.amazonaws:aws-encryption-sdk-java (GHSA-wqgp-vphw-hphf)

Known Affected Configurations (CPE V2.3)

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

cpe:2.3:a:amazon:aws_encryption_sdk:*:*:*:*:*:*:*:*:

cpe:2.3:a:amazon:aws_encryption_sdk:*:*:*:*:*:*:*:*:

Discovery Credit

Thai Duong

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