CVE-2022-1941

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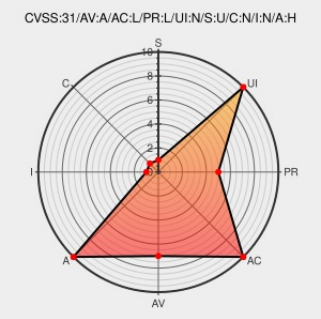
CVE-2022-1941

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



Certain versions of Protobuf-cpp from Google contain the following vulnerability:

A parsing vulnerability for the MessageSet type in the ProtocolBuffers versions prior to and including 3.16.1, 3.17.3, 3.18.2, 3.19.4, 3.20.1 and 3.21.5 for protobuf-cpp, and versions prior to and including 3.16.1, 3.17.3, 3.18.2, 3.19.4, 3.20.1 and 4.21.5 for protobuf-python can lead to out of memory failures. A specially crafted message with multiple key-value per elements creates parsing issues, and can lead to a Denial of Service against services receiving unsanitized input. We recommend upgrading to versions 3.18.3, 3.19.5, 3.20.2, 3.21.6 for protobuf-cpp and 3.18.3, 3.19.5, 3.20.2, 4.21.6 for protobuf-python. Versions for 3.16 and 3.17 are no longer updated.

CVE-2022-1941 has been assigned by security@google.com to track the vulnerability - currently rated as HIGH severity.

CVSS3 Score: 7.5 - HIGH

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

CVE References

Description	Tags	Link
oss-security - CVE-2022-1941: Protobuf C++, Python DoS	www.openwall.com text/html	MLIST [oss-security] 20220927 CVE-2022-1941: Protobuf C++, Python DoS
A potential Denial of Service issue in protobuf-cpp and protobuf-python · Advisory · protocolbuffers/protobuf · GitHub	github.com text/html	CONFIRM github.com/protocolbuffers/protobuf/security/advisories/GHSA-8gq9-2x98-w8hf
Security Bulletins | Customer Care | Google Cloud	cloud.google.com text/html	CONFIRM cloud.google.com/support/bulletins#GCP-2022-019

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Related QID Numbers

752777 SUSE Enterprise Linux Security Update for protobuf (SUSE-SU-2022:3922-1)

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Google	Protobuf-cpp	All	All	All	All
Application	Google	Protobuf-python	All	All	All	All

cpe:2.3:a:google:protobuf-cpp:*:*:*:*:*:*:*:*:

cpe:2.3:a:google:protobuf-python:*:*:*:*:*:*:*:*:

Discovery Credit

CluterFuzz - https://google.github.io/clusterfuzz/

Social Mentions

Source	Title	Posted (UTC)
@CVEreport	CVE-2022-1941 : A parsing vulnerability for the MessageSet type in the ProtocolBuffers versions prior to and includ… twitter.com/i/web/status/1…	2022-09-22 14:55:29
@JohnJasonFallow	New vulnerability on the NVD: CVE-2022-1941 ift.tt/B1TYSw4	2022-09-22 16:16:49
@doogsineerg	New vulnerability on the NVD: CVE-2022-1941 ift.tt/p0LaS3g	2022-09-22 16:33:23
@workentin	New vulnerability on the NVD: CVE-2022-1941 ift.tt/4brMRkV	2022-09-22 16:40:11
@xanadulinux	CVE-2022-1941 ift.tt/bXoEQ8J	2022-09-22 16:52:31
@LinInfoSec	Python - CVE-2022-1941: cloud.google.com/support/bullet…	2022-09-22 17:01:13
/r/netcve	CVE-2022-1941	2022-09-22 15:38:21

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