



CVE-2020-15350

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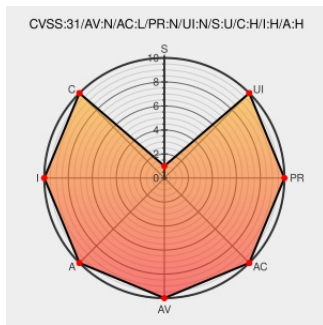
CVE-2020-15350

[Source: Mitre](#)

[Source: NIST](#)

[CVE.ORG](#)

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Certain versions of [Riot](#) from [Riot-os](#) contain the following vulnerability:

RIOT 2020.04 has a buffer overflow in the base64 decoder. The decoding function `base64_decode()` uses an output buffer estimation function to compute the required buffer capacity and validate against the provided buffer size. The `base64_estimate_decode_size()` function calculates the expected decoded size with an arithmetic round-off error and does not take into account possible padding bytes. Due to this underestimation, it may be possible to craft base64 input that causes a buffer overflow.

CVE-2020-15350 has been assigned by [M](#) cve@mitre.org to track the vulnerability - currently rated as **CRITICAL** severity.

CVSS3 Score: **9.8 - CRITICAL**

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

CVSS2 Score: **7.5 - HIGH**

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

CVE References

Description	Tags	Link
base64_decoder.md - Google Drive	Mailing List Patch	MISC drive.google.com/file/d/1jMCAi8uawV1-

Third Party Advisory

web.archive.org

text/html

Inactive Link Not Archived

an5uCghIxT2TEdxCE1Lk/view?usp=sharing

sys/base64: Fix, unit test cleanup, and benchmark by maribu · Pull Request #14400 · RIOT-OS/RIOT · GitHub

Patch

Third Party Advisory

github.com

text/html

MISC github.com/RIOT-OS/RIOT/pull/14400

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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
Operating System	Riot-os	Riot	2020.04	All	All	All
Operating System	Riot-os	Riot	2020.04	All	All	All
cpe:2.3:o:riot-os:riot:2020.04:*****:						
cpe:2.3:o:riot-os:riot:2020.04:*****:						

No vendor comments have been submitted for this CVE

← Previous ID

Next ID →

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