



CVE-2020-26263

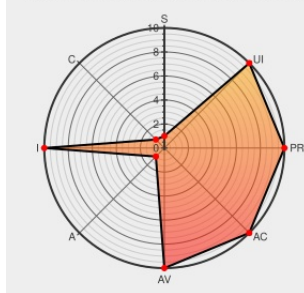
Published on: 12/21/2020 12:00:00 AM UTC

Last Modified on: 03/23/2021 11:23:56 PM UTC

CVE-2020-26263 - advisory for GHSA-wvcv-832q-fjg7

[Source: Mitre](#)[Source: NIST](#)[CVE.ORG](#)[Print: PDF](#)

CVSS:31/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:H/A:N



Certain versions of [Tlsite-ng](#) from [Tlsite-ng Project](#) contain the following vulnerability:

tlsite-ng is an open source python library that implements SSL and TLS cryptographic protocols. In tlsite-ng before versions 0.7.6 and 0.8.0-alpha39, the code that performs decryption and padding check in RSA PKCS#1 v1.5 decryption is data dependant. In particular, the code has multiple ways in which it leaks information about the

decrypted ciphertext. It aborts as soon as the plaintext doesn't start with 0x00, 0x02. All TLS servers that enable RSA key exchange as well as applications that use the RSA decryption API directly are vulnerable. This is patched in versions 0.7.6 and 0.8.0-alpha39. Note: the patches depend on Python processing the individual bytes in side-channel free manner, this is known to not the case (see reference). As such, users that require side-channel resistance are recommended to use different TLS implementations, as stated in the security policy of tlsite-ng.

CVE-2020-26263 has been assigned by [security-advisories@github.com](#) to track the vulnerability - currently rated as **HIGH** severity.

Affected Vendor/Software: [tlsfuzzer](#) - [tlsite-ng](#) version < 0.7.6

Affected Vendor/Software: [tlsfuzzer](#) - [tlsite-ng](#) version >= 0.8.0-alpha1, < 0.8.0-alpha39

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	HIGH	NONE	NONE

CVSS2 Score: **5 - MEDIUM**

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

CVE References

Description	Tags	Link
tlslite-ng · PyPI	Product Third Party Advisory pypi.org text/html	 MISC pypi.org/project/tlslite-ng/
Bleichenbacher fixes [0.7] by tomato42 · Pull Request #439 · tlsfuzzer/tlslite-ng · GitHub	Patch Third Party Advisory github.com text/html	 MISC github.com/tlsfuzzer/tlslite-ng/pull/439
Attempt side-channel free RSA decryption by tomato42 · Pull Request #438 · tlsfuzzer/tlslite-ng · GitHub	Patch Third Party Advisory github.com text/html	 MISC github.com/tlsfuzzer/tlslite-ng/pull/438
“Constant time” compare in Python securitypitfalls	Exploit Third Party Advisory securitypitfalls.wordpress.com text/html	 MISC securitypitfalls.wordpress.com/2018/08/03/constant-time-compare-in-python/
Merge pull request #439 from tlsfuzzer/bleichenbacher-fixes-0.7 · tlsfuzzer/tlslite-ng@c28d6d3 · GitHub	Patch Third Party Advisory github.com text/html	 MISC github.com/tlsfuzzer/tlslite-ng/commit/c28d6d387bba59d8bd5cb3ba15edc42edf54b368
Bleichenbacher timing side-channel oracle in PKCS#1 v1.5 decryption · Advisory · tlsfuzzer/tlslite-ng · GitHub	Exploit Patch Third Party Advisory github.com text/html	 CONFIRM github.com/tlsfuzzer/tlslite-ng/security/advisories/GHSA-wvcv-832q-fjg7

By selecting these links, you may be leaving CVEreport webspace. We have provided these links to other websites because they may have information that would be of interest to you. No inferences should be drawn on account of other sites being referenced, or not, from this page. There may be other websites that are more appropriate for your purpose. CVEreport does not necessarily endorse the views expressed, or concur with the facts presented on these sites. Further, CVEreport does not endorse any commercial products that may be mentioned on these sites. Please address comments about any linked pages to comment@cve.report.

Related QID Numbers

[983233](#) Python (pip) Security Update for tlslite-ng (GHSA-wvcv-832q-fjg7)

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Tlslite-ng Project	Tlslite-ng	All	All	All	All
Application	Tlslite-ng Project	Tlslite-ng	0.8.0	alpha1	All	All
Application	Tlslite-ng Project	Tlslite-ng	0.8.0	alpha10	All	All
Application	Tlslite-ng Project	Tlslite-ng	0.8.0	alpha11	All	All

[illegible]

[illegible]

Application	Tlslite-ng Project	Tlslite-ng	0.8.0	alpha7	All	All
Application	Tlslite-ng Project	Tlslite-ng	0.8.0	alpha8	All	All
Application	Tlslite-ng Project	Tlslite-ng	0.8.0	alpha9	All	All
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No vendor comments have been submitted for this CVE

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