CVE-2018-12436

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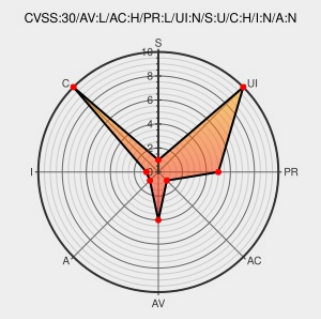

Certain versions of Wolfssl from Wolfssl contain the following vulnerability:

wolfcrypt/src/ecc.c in wolfSSL before 3.15.1.patch allows a memory-cache side-channel attack on ECDSA signatures, aka the Return Of the Hidden Number Problem or ROHNP. To discover an ECDSA key, the attacker needs access to either the local machine or a different virtual machine on the same physical host.

CVE-2018-12436 has been assigned by cve@mitre.org to track the vulnerability - currently rated as MEDIUM severity.

CVSS3 Score: 4.7 - MEDIUM

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

CVSS2 Score: 1.9 - LOW

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

CVE References

Description	Tags	Link
Change ECDSA signing to use blinding. · wolfSSL/wolfssl@9b9568d · GitHub	Patch Third Party Advisory github.com	MISC github.com/wolfSSL/wolfssl/commit/9b9568d500f31f964af26ba8d01e542e1f27e5ca

GitHub	text/html	
wolfSSL and ROHNP - wolfSSL	Vendor Advisory www.wolfssl.com text/html	MISC www.wolfssl.com/wolfssh-and-rohnp/
No Description Provided	Third Party Advisory www.nccgroup.trust text/html	MISC www.nccgroup.trust/us/our-research/technical-advisory-return-of-the-hidden-number-problem/

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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	Wolfssl	Wolfssl	All	All	All	All
Application	Wolfssl	Wolfssl	All	All	All	All

cpe:2.3:a:wolfssl:wolfssl:*:*:*:*:*:*:*:*:

cpe:2.3:a:wolfssl:wolfssl:*:*:*:*:*:*:*:*:

No vendor comments have been submitted for this CVE

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