



# CVE-2018-5389

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## Summary

<b>CVE</b>	CVE-2018-5389
<b>State</b>	PUBLIC
<b>Assigner</b>	cert@cert.org
<b>Source Priority</b>	CVE Program / NVD first with legacy fallback
<b>Published</b>	2018-09-06 21:29:00 UTC
<b>Updated</b>	2019-10-09 23:41:00 UTC
<b>Description</b>	The Internet Key Exchange v1 main mode is vulnerable to offline dictionary or brute force attacks. Reusing a key pair across

## Risk And Classification

**Problem Types:** CWE-521

## NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	ietf	<a href="#">Internet Key Exchange</a>	1.0	All	All	All
Application	ietf	<a href="#">Internet Key Exchange</a>	1.0	All	All	All

## References

Reference	Source	Link	Tags
Page not found - Cisco Blogs	MISC	<a href="https://blogs.cisco.com">blogs.cisco.com</a>	Third Party Advisor
VU#857035 - IKEv1 Main Mode vulnerable to brute force attacks	CERT-VN	<a href="http://www.kb.cert.org">www.kb.cert.org</a>	Third Party Advisor
Practical Dictionary Attack on IPsec IKE	MISC	<a href="http://web-in-security.blogspot.com">web-in-security.blogspot.com</a>	Exploit, Third Party
<a href="http://www.usenix.org/system/files/conference/usenixsecurity18/sec18-felsch.pdf">www.usenix.org/system/files/conference/usenixsecurity18/sec18-felsch.pdf</a>	MISC	<a href="http://www.usenix.org">www.usenix.org</a>	Third Party Advisor
CVE Program record	CVE.ORG	<a href="http://www.cve.org">www.cve.org</a>	canonical
NVD vulnerability detail	NVD	<a href="http://nvd.nist.gov">nvd.nist.gov</a>	canonical, analysis

## Vendor Comments And Credit

### Discovery Credit

**LEGACY:** Thanks to Martin Grothe, Joerg Schwenk, and Dennis Felsch of the Ruhr-University Bochum, and Adam Czubak and Marcin Szymanek of the University of Opole for reporting this vulnerability.

There are currently no legacy QID mappings associated with this CVE.

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