CVE-2019-19794

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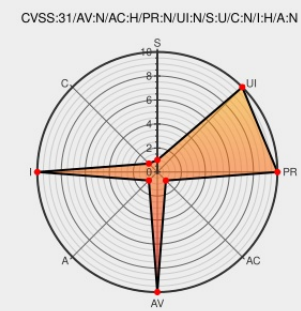
Source: Mitre | Source: NIST | CVE.ORG | Print: PDF



Certain versions of Miekg-dns from Miekg-dns Project contain the following vulnerability:

The miekg Go DNS package before 1.1.25, as used in CoreDNS before 1.6.6 and other products, improperly generates random numbers because math/rand is used. The TXID becomes predictable, leading to response forgeries.

CVE-2019-19794 has been assigned by cve@mitre.org to track the vulnerability - currently rated as MEDIUM severity.

CVSS3 Score: 5.9 - MEDIUM

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

CVSS2 Score: 4.3 - MEDIUM

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

CVE References

Description	Tags	Link
Use crypto/rand for random id generation. by jsha · Pull Request #1044 · miekg/dns · GitHub	Patch, Third Party Advisory, github.com, text/html	MISC github.com/miekg/dns/pull/1044

CoreDNS 1.6.6 Release Tracking · Issue #3519 · coredns/coredns · GitHub	Issue Tracking Third Party Advisory github.com text/html	MISC github.com/coredns/coredns/issues/3519
[security] Predictable TXID can lead to response forgeries · Issue #1043 · miekg/dns · GitHub	Exploit Issue Tracking Third Party Advisory github.com text/html	MISC github.com/miekg/dns/issues/1043
[Security] CVE-2019-19794 · Issue #3547 · coredns/coredns · GitHub	Third Party Advisory github.com text/html	CONFIRM github.com/coredns/coredns/issues/3547
Comparing v1.1.24...v1.1.25 · miekg/dns · GitHub	Release Notes Third Party Advisory github.com text/html	MISC github.com/miekg/dns/compare/v1.1.24...v1.1.25

Related QID Numbers

982542 Go (go) Security Update for github.com/miekg/dns (GHSA-44r7-7p62-q3fr)

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Miekg-dns Project	Miekg-dns	All	All	All	All
Application	Miekg-dns Project	Miekg-dns	All	All	All	All

cpe:2.3:a:miekg-dns_project:miekg-dns:*:*:*:*:*:*:*:*:

cpe:2.3:a:miekg-dns_project:miekg-dns:*:*:*:*:*:*:*:*:

No vendor comments have been submitted for this CVE

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