CVE-2020-15104

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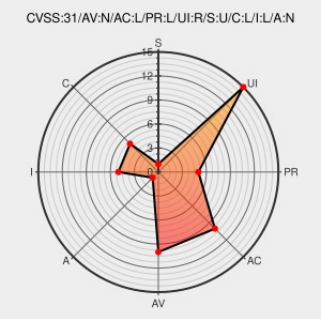
CVE-2020-15104 - advisory for GHSA-w5f5-6qhq-hhrg

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



Certain versions of Envoy from Envoyproxy contain the following vulnerability:

In Envoy before versions 1.12.6, 1.13.4, 1.14.4, and 1.15.0 when validating TLS certificates, Envoy would incorrectly allow a wildcard DNS Subject Alternative Name apply to multiple subdomains. For example, with a SAN of *.example.com, Envoy would incorrectly allow nested.subdomain.example.com, when it should only allow subdomain.example.com. This defect applies to both validating a client TLS certificate in mTLS, and validating a server TLS certificate for upstream connections. This vulnerability is only applicable to situations where an untrusted entity can obtain a signed wildcard TLS certificate for a domain of which you only intend to trust a subdomain of. For example, if you intend to trust api.mysubdomain.example.com, and an untrusted actor can obtain a signed TLS certificate for *.example.com or *.com. Configurations are vulnerable if they use verify_subject_alt_name in any Envoy version, or if they use match_subject_alt_names in version 1.14 or later. This issue has been fixed in Envoy versions 1.12.6, 1.13.4, 1.14.4, 1.15.0.

CVE-2020-15104 has been assigned by security-advisories@github.com to track the vulnerability - currently rated as MEDIUM severity.

Affected Vendor/Software: **envoyproxy** - **envoy** version **< 1.12.6**

Affected Vendor/Software: **envoyproxy** - **envoy** version **>= 1.13.0, < 1.13.4**

Affected Vendor/Software: **envoyproxy** - **envoy** version **>= 1.14.0, < 1.14.4**

CVSS3 Score: 5.4 - MEDIUM

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

UNCHANGED | LOW | LOW | NONE

CVSS2 Score: 5.5 - MEDIUM

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

CVE References

Description	Tags	Link
TLS cert wildcard · Advisory · envoyproxy/envoy · GitHub	Third Party Advisory github.com text/html	CONFIRM github.com/envoyproxy/envoy/security/advisories/GHSA-w5f5-6qhq-hhrg

There are currently no QIDs associated with this CVE

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Envoyproxy	Envoy	All	All	All	All
Application	Envoyproxy	Envoy	All	All	All	All

cpe:2.3:a:envoyproxy:envoy:*:*:*:*:*:*:*:*:

cpe:2.3:a:envoyproxy:envoy:*:*:*:*:*:*:*:*:

No vendor comments have been submitted for this CVE

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