CVE-2018-18764

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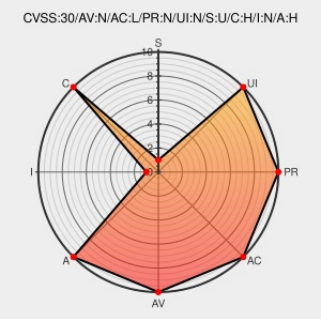

Certain versions of Mongoose from Cesanta contain the following vulnerability:

An exploitable arbitrary memory read vulnerability exists in the MQTT packet-parsing functionality of Cesanta Mongoose 6.13. It is a heap-based buffer over-read in a parse_mqtt getu16 call. A specially crafted MQTT SUBSCRIBE packet can cause an arbitrary out-of-bounds memory read potentially resulting in information disclosure and denial of service. An attacker needs to send a specially crafted MQTT packet over the network to trigger this vulnerability.

CVE-2018-18764 has been assigned by cve@mitre.org to track the vulnerability - currently rated as CRITICAL severity.

CVSS3 Score: 9.1 - CRITICAL

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

CVSS2 Score: 6.4 - MEDIUM

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

CVE References

Description	Tags	Link
ReCby/Myself/Cesanta	Exploit	MISC

PoCbyMyself/Cesanta Mongoose MQTT getu16 heap buffer overflow2.md at master · TiffanyBlue/PoCbyMyself · GitHub	Exploit Third Party Advisory github.com text/html	MISC github.com/TiffanyBlue/PoCbyMyself/blob/master/mongoose6.13/mqtt/Cesanta%20Mongoos
PoCbyMyself/Cesanta Mongoose MQTT getu16 heap buffer overflow1.md at master · TiffanyBlue/PoCbyMyself · GitHub	Exploit Third Party Advisory github.com text/html	MISC github.com/TiffanyBlue/PoCbyMyself/blob/master/mongoose6.13/mqtt/Cesanta%20Mongoos

There are currently no QIDs associated with this CVE

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Cesanta	Mongoose	6.13	All	All	All
Application	Cesanta	Mongoose	6.13	All	All	All

cpe:2.3:a:cesanta:mongoose:6.13:*:*:*:*:*:*:*:

cpe:2.3:a:cesanta:mongoose:6.13:*:*:*:*:*:*:*:

No vendor comments have been submitted for this CVE

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