CVE-2018-18556

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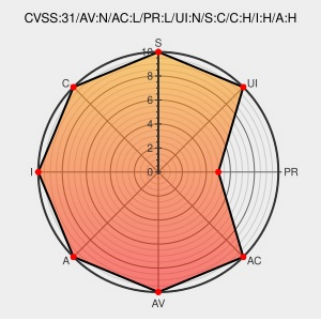

Certain versions of Vyos from Vyos contain the following vulnerability:

A privilege escalation issue was discovered in VyOS 1.1.8. The default configuration also allows operator users to execute the pppd binary with elevated (sudo) permissions. Certain input parameters are not properly validated. A malicious operator user can run the binary with elevated permissions and leverage its improper input validation condition to spawn an attacker-controlled shell with root privileges.

CVE-2018-18556 has been assigned by cve@mitre.org to track the vulnerability - currently rated as CRITICAL severity.

CVSS3 Score: 9.9 - CRITICAL

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

CVSS2 Score: 9 - HIGH

Access Vector	Access Complexity	Authentication
NETWORK	LOW	SINGLE
Confidentiality Impact	**Integrity Impact**	**Availability Impact**
COMPLETE	COMPLETE	COMPLETE

CVE References

Description	Tags	Link
VyOS restricted-shell Escape / Privilege Escalation ≈ Packet Storm	packetstormsecurity.com text/html	MISC packetstormsecurity.com/files/159234/VyOS-restricted-shell-Escape-Privilege-Escalation.html
CVE-2018-18556 – VyOS Privilege escalation via sudo	Exploit	MISC blog.mirch.io/2018/11/05/cve-2018-18556-

pppd for operator users – Rich Mirch	Exploit Third Party Advisory blog.mirch.io text/html	vyos-privilege-escalation-via-sudo-pppd-for-operator-users/
The "operator" level is proved insecure and will be removed in the next releases	Exploit Vendor Advisory blog.vyos.io text/html	CONFIRM blog.vyos.io/the-operator-level-is-proved-insecure-and-will-be-removed-in-the-next-releases

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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
Operating System	Vyos	Vyos	1.1.8	All	All	All
Operating System	Vyos	Vyos	1.1.8	All	All	All

cpe:2.3:o:vyos:vyos:1.1.8:*:*:*:*:*:*:*:

cpe:2.3:o:vyos:vyos:1.1.8:*:*:*:*:*:*:*:

No vendor comments have been submitted for this CVE

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