CVE-2018-18920

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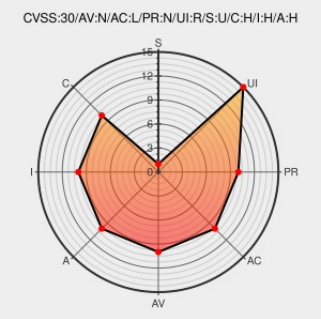
CVE-2018-18920

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



Certain versions of Py-evm from Ethereum contain the following vulnerability:

Py-EVM v0.2.0-alpha.33 allows attackers to make a vm.execute_bytecode call that triggers computation._stack.values with '"stack": [100, 100, 0]' where b'\x' was expected, resulting in an execution failure because of an invalid opcode. This is reportedly related to "smart contracts can be executed indefinitely without gas being paid."

CVE-2018-18920 has been assigned by cve@mitre.org to track the vulnerability - currently rated as HIGH severity.

CVSS3 Score: 8.8 - HIGH

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

CVSS2 Score: 6.8 - MEDIUM

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

CVE References

Description	Tags	Link
JavaScript is not available.	Third Party Advisory nitter.domain.glass	MISC twitter.com/NettaLab/status/1060889400102383617

	text/html	
vbuterin comments on Netta labs claim to have found a vulnerability in EVM, what are your thoughts?	Third Party Advisory www.reddit.com text/html	MISC www.reddit.com/r/ethereum/comments/9vkk2g/netta_labs_claim_to_have_found_a_vulner
Invalid values like 100, 0 occurs in Stack during the execution. · Issue #1448 · ethereum/py-evm · GitHub	Exploit Third Party Advisory github.com text/html	MISC github.com/ethereum/py-evm/issues/1448
Alex.eth na Twitterze: "@VitalikButerin just commented on this via reddit: https://t.co/EoKMDdykzq… "	Third Party Advisory nitter.domain.glass text/html	MISC twitter.com/AlexanderFisher/status/1060923428641878019

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Related QID Numbers

980839 Python (pip) Security Update for py-evm (GHSA-vqgp-4jgj-5j64)

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Ethereum	Py-evm	0.2.0	alpha.33	All	All
Application	Ethereum	Py-evm	0.2.0	alpha.33	All	All

cpe:2.3:a:ethereum:py-evm:0.2.0:alpha.33:*:*:*:*:*:*:

cpe:2.3:a:ethereum:py-evm:0.2.0:alpha.33:*:*:*:*:*:*:

No vendor comments have been submitted for this CVE

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