



CVE-2018-18920

Published on: 11/11/2018 12:00:00 AM UTC

Last Modified on: 03/23/2021 11:24:53 PM UTC

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 [M](#) 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_vulnerability_in_evm_what_are_your_thoughts/

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

By selecting these links, you may be leaving CVEreport webspace. We have provided these links to other websites because they may have information that would be of interest to you. No inferences should be drawn on account of other sites being referenced, or not, from this page. There may be other websites that are more appropriate for your purpose. CVEreport does not necessarily endorse the views expressed, or concur with the facts presented on these sites. Further, CVEreport does not endorse any commercial products that may be mentioned on these sites. Please address comments about any linked pages to comment@cve.report.

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

[← Previous ID](#)

[Next ID →](#)

© [CVE.report](#) 2023   |

Use of this information constitutes acceptance for use in an AS IS condition. There are NO warranties, implied or otherwise, with regard to this information or its use. Any use of this information is at the user's risk. It is the responsibility of user to evaluate the accuracy, completeness or usefulness of any information, opinion, advice or other content. EACH USER WILL BE SOLELY RESPONSIBLE FOR ANY consequences of his or her direct or indirect use of this web site. ALL WARRANTIES OF ANY KIND ARE EXPRESSLY DISCLAIMED. This site will NOT BE LIABLE FOR ANY DIRECT, INDIRECT or any other kind of loss.

CVE, CWE, and OVAL are registered trademarks of [The MITRE Corporation](#) and the authoritative source of CVE content is [MITRE's CVE web site](#). This site includes MITRE data granted under the following [license](#).

CVE.report and Source URL Uptime Status [status.cve.report](#)