



CVE-2021-42765

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[Source: Mitre](#)[Source: NIST](#)[CVE.ORG](#)[Print: PDF](#) 

Certain versions of [Proof-of-stake Ethereum](#) from [Proof-of-stake Ethereum Project](#) contain the following vulnerability:

The Proof-of-Stake (PoS) Ethereum consensus protocol through 2021-10-19 allows an adversary to leverage network delay to cause a denial of service (indefinite stalling of consensus decisions).

CVE-2021-42765 has been assigned by [M](#) cve@mitre.org to track the vulnerability - currently rated as **HIGH** severity.

CVSS3 Score: **7.5 - HIGH**

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

CVSS2 Score: **5 - MEDIUM**

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

CVE References

Description	Tags	Link
[2110.10086] Three Attacks on Proof-of-Stake Ethereum	arxiv.org text/xml	X MISC arxiv.org/abs/2110.10086

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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
Application	Proof-of-stake Ethereum Project	Proof-of-stake Ethereum	All	All	All	All
cpe:2.3:a:proof-of-stake_ethereum_project:proof-of-stake_ethereum:****:*:*:*:						

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
 @CVEreport	CVE-2021-42765 : The Proof-of-Stake PoS Ethereum consensus protocol through 2021-10-19 allows an adversary to lev... twitter.com/i/web/status/1...	2021-10-20 20:06:01
 @1337in	The Proof-of-Stake (PoS) Ethereum consensus protocol through 2021-10-19 > DoS. CVE-2021-42764 CVE-2021-42765 CVE-2021-42766	2021-10-22 08:13:01

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