



# CVE-2021-28706

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## CVE-2021-28706

[Source: Mitre](#)

[Source: Nist](#)

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Certain versions of [Xen](#) from [Xen](#) contain the following vulnerability:

guests may exceed their designated memory limit When a guest is permitted to have close to 16TiB of memory, it may be able to issue hypercalls to increase its memory allocation beyond the administrator established limit. This is a result of a calculation done with 32-bit precision, which may overflow. It would then only be the overflowed (and hence small) number which gets compared against the established upper bound.

CVE-2021-28706 has been assigned by [security@xen.org](mailto:security@xen.org) to track the vulnerability

## CVE References

Description	Tags	Link
	<a href="#">xenbits.xenproject.org</a> <a href="#">text/plain</a>	<a href="https://xenbits.xenproject.org/xsa/advisory-385.txt">MISC xenbits.xenproject.org/xsa/advisory-385.txt</a>

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There are currently no QIDs associated with this CVE

## Known Affected Software

Vendor	Product	Version
<a href="#">Xen</a>	<a href="#">xen</a>	4.12.x
<a href="#">Xen</a>	<a href="#">xen</a>	?< 4.12
<a href="#">Xen</a>	<a href="#">xen</a>	>= 4.14.x
<a href="#">Xen</a>	<a href="#">xen</a>	!> 4.15.x
<a href="#">Xen</a>	<a href="#">xen</a>	xen-unstable
<a href="#">Xen</a>	<a href="#">xen</a>	4.13.x

## Social Mentions

Source	Title	Posted (UTC)
 @CVEreport	CVE-2021-28706 : guests may exceed their designated memory limit When a guest is permitted to have close to 16TiB... <a href="https://twitter.com/i/web/status/1...">twitter.com/i/web/status/1...</a>	2021-11-24 00:56:05
 @oss_security	Xen Security Advisory 385 v2 (CVE-2021-28706) - guests may exceed their designated memory limit: Posted by Xen . or... <a href="https://twitter.com/i/web/status/1...">twitter.com/i/web/status/1...</a>	2021-11-24 02:30:10

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