CVE-2019-3557

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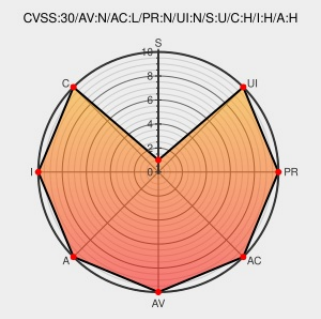

Certain versions of Hhvm from Facebook contain the following vulnerability:

The implementations of streams for bz2 and php://output improperly implemented their readImpl functions, returning -1 consistently. This behavior caused some stream functions, such as stream_get_line, to trigger an out-of-bounds read when operating on such malformed streams. The implementations were updated to return valid values consistently. This affects all supported versions of HHVM (3.30 and 3.27.4 and below).

CVE-2019-3557 has been assigned by cve-assign@fb.com to track the vulnerability - currently rated as CRITICAL severity.

Affected Vendor/Software: **Facebook** - **HHVM** version **!=> 3.30.1**

Affected Vendor/Software: **Facebook** - **HHVM** version **>= 3.30.0**

Affected Vendor/Software: **Facebook** - **HHVM** version **!=> 3.27.5**

Affected Vendor/Software: **Facebook** - **HHVM** version **< 3.27.5**

CVSS3 Score: 9.8 - CRITICAL

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

CVSS2 Score: 7.5 - HIGH

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

PARTIAL	PARTIAL	PARTIAL

CVE References

Description	Tags	Link
HHVM 3.30.2 and 3.27.6 | HHVM	Vendor Advisory hhvm.com text/html	MISC hhvm.com/blog/2019/01/14/hhvm-3.30.2.html
CVE-2019-3557: Fix OOB read in readRecord on BZ2Files/OutputFiles · facebook/hhvm@6e4dd9e · GitHub	Patch Third Party Advisory github.com text/html	MISC github.com/facebook/hhvm/commit/6e4dd9ec3f14b48170fc45dc9d13a3261765f994

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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	Facebook	Hhvm	All	All	All	All
Application	Facebook	Hhvm	All	All	All	All

cpe:2.3:a:facebook:hhvm:*:*:*:*:*:*:*:*:

cpe:2.3:a:facebook:hhvm:*:*:*:*:*:*:*:*:

No vendor comments have been submitted for this CVE

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