CVE-2019-10269

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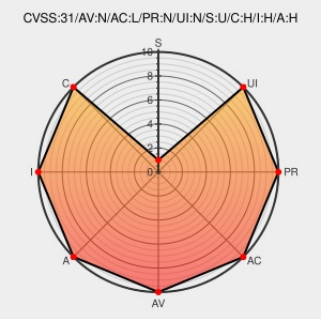

Certain versions of Burrow-wheeler Aligner from Burrow-wheeler Aligner Project contain the following vulnerability:

BWA (aka Burrow-Wheeler Aligner) before 2019-01-23 has a stack-based buffer overflow in the bns_restore function in bntseq.c via a long sequence name in a .alt file.

CVE-2019-10269 has been assigned by cve@mitre.org to track the vulnerability - currently rated as CRITICAL severity.

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: 10 - HIGH

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

CVE References

Description	Tags	Link
USN-4087-1: BWA vulnerability | Ubuntu security notices | Ubuntu	usn.ubuntu.com text/html	UBUNTU USN-4087-1
Buffer overflow while storing .alt file using bwa mem by zachbthomas · Pull Request #232 · lh3/bwa · GitHub	Patch Third Party Advisory	MISC github.com/lh3/bwa/pull/232

	github.com text/html	
Taking local control of genomics machines through BWA | Genomic Cybersecurity	Exploit Third Party Advisory coreymhudson.github.io text/html	MISC coreymhudson.github.io/bwa_vulnerabilties/

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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	Burrow-wheeler Aligner Project	Burrow-wheeler Aligner	All	All	All	All
Application	Burrow-wheeler Aligner Project	Burrow-wheeler Aligner	All	All	All	All
Operating System	Canonical	Ubuntu Linux	18.04	All	All	All
Operating System	Canonical	Ubuntu Linux	19.04	All	All	All

cpe:2.3:a:burrow-wheeler_aligner_project:burrow-wheeler_aligner:*:*:*:*:*:*:*:*:

cpe:2.3:a:burrow-wheeler_aligner_project:burrow-wheeler_aligner:*:*:*:*:*:*:*:*:

cpe:2.3:o:canonical:ubuntu_linux:18.04:*:*:*:lts:*:*:*:

cpe:2.3:o:canonical:ubuntu_linux:19.04:*:*:*:*:*:*:*:

No vendor comments have been submitted for this CVE

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