# CVE Detail – CVE-2018-18445

In the Linux kernel 4.14.x, 4.15.x, 4.16.x, 4.17.x, and 4.18.x before 4.18.13, faulty computation of numeric bounds in the BPF verifier permits out-of-bounds memory accesses because adjust\_scalar\_min\_max\_vals in kernel/bpf/verifier.c mishandles 32-bit right shifts.

## Threat-Mapped Scoring

Score: 0.0

Priority: Unclassified

## EPSS

EPSS Score: N/A

Percentile: 0.13128

## CVSS Scoring

CVSS v3.1 Score: 7.8

Severity: HIGH

## Mapped CWE(s)

* CWE-125: Out-of-bounds Read

## CAPEC(s)

* CAPEC-540: Overread Buffers

## Affected Products

* cpe:2.3:o:linux:linux\_kernel:\*:\*:\*:\*:\*:\*:\*:\*
* cpe:2.3:o:linux:linux\_kernel:\*:\*:\*:\*:\*:\*:\*:\*
* cpe:2.3:o:canonical:ubuntu\_linux:14.04:\*:\*:\*:lts:\*:\*:\*
* cpe:2.3:o:canonical:ubuntu\_linux:16.04:\*:\*:\*:lts:\*:\*:\*
* cpe:2.3:o:canonical:ubuntu\_linux:18.04:\*:\*:\*:lts:\*:\*:\*
* cpe:2.3:o:canonical:ubuntu\_linux:18.10:\*:\*:\*:\*:\*:\*:\*
* cpe:2.3:o:redhat:enterprise\_linux\_desktop:7.0:\*:\*:\*:\*:\*:\*:\*
* cpe:2.3:o:redhat:enterprise\_linux\_server:7.0:\*:\*:\*:\*:\*:\*:\*
* cpe:2.3:o:redhat:enterprise\_linux\_server:7.6:\*:\*:\*:\*:\*:\*:\*
* cpe:2.3:o:redhat:enterprise\_linux\_server\_aus:7.6:\*:\*:\*:\*:\*:\*:\*
* cpe:2.3:o:redhat:enterprise\_linux\_server\_eus:7.6:\*:\*:\*:\*:\*:\*:\*
* cpe:2.3:o:redhat:enterprise\_linux\_server\_tus:7.6:\*:\*:\*:\*:\*:\*:\*
* cpe:2.3:o:redhat:enterprise\_linux\_workstation:7.0:\*:\*:\*:\*:\*:\*:\*