



# CVE-2016-8438

[MITRE](#)[NVD](#)[CVE.ORG](#)[JSON API](#)[Print: PDF !\[\]\(003082e50e3009141f59bd5df831749f\_img.jpg\)](#)

## Summary

<b>CVE</b>	CVE-2016-8438
<b>State</b>	PUBLISHED
<b>Assigner</b>	google_android
<b>Source Priority</b>	CVE Program / NVD first with legacy fallback
<b>Published</b>	2017-01-12 20:59:00 UTC
<b>Updated</b>	2026-05-06 22:30:45 UTC
<b>Description</b>	Integer overflow leading to a TOCTOU condition in hypervisor PIL. An integer overflow exposes a race condition that may b

## Risk And Classification

**Primary CVSS:** v3.0 9.8 CRITICAL from nvd@nist.gov

[CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H](#)

**EPSS:** 0.007770000 probability, percentile 0.737360000 (date 2026-05-07)

**Problem Types:** CWE-190 | Integer Overflow

Version	Source	Type	Score	Severity	Vector
3.0	nvd@nist.gov	Primary	9.8	CRITICAL	<a href="#">CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H</a>
2.0	nvd@nist.gov	Primary	10		<a href="#">AV:N/AC:L/Au:N/C:C/I:C/A:C</a>

## CVSS v3.0 Breakdown

Attack Vector

**Network**

Attack Complexity

**Low**

Privileges Required

**None**

User Interaction

**None**

Scope

**Unchanged**

Confidentiality

**High**

Integrity

**High**

High

Availability

High

CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H

### CVSS v2.0 Breakdown

Access Vector

Network

Access Complexity

Low

Authentication

None

Confidentiality

Complete

Integrity

Complete

Availability

Complete

AV:N/AC:L/Au:N/C:C/I:C/A:C

### NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Operating System	Linux	Linux Kernel	3.18	All	All	All

### Vendor Declared Affected Products

Source	Vendor	Product	Version	Platforms
CNA	Google Inc.	Android	affected Kernel-3.18	Not specified

### References

Reference	Source	Link
Android Security Bulletin—January 2017   Android Open Source Project	af854a3a-2127-422b-91ae-364da2661108	<a href="#">source.a</a>
Google Android Qualcomm components Multiple Unspecified Security Vulnerabilities	af854a3a-2127-422b-91ae-364da2661108	<a href="#">www.sec</a>
CVE Program record	CVE.ORG	<a href="#">www.cve</a>
NVD vulnerability detail	NVD	<a href="#">nvd.nist.g</a>

No vendor comments have been submitted for this CVE.

There are currently no legacy QID mappings associated with this CVE.

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