



CVE-2016-5427

- MITRE
- NVD
- CVE.ORG
- JSON API
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Summary

CVE	CVE-2016-5427
State	PUBLISHED
Assigner	redhat
Source Priority	CVE Program / NVD first with legacy fallback
Published	2016-09-21 14:25:15 UTC
Updated	2026-05-06 22:30:45 UTC
Description	PowerDNS (aka pdns) Authoritative Server before 3.4.10 does not properly handle a . (dot) inside labels, which allows remote attackers to cause a denial of service (crash) via crafted DNS queries.

Risk And Classification

Primary CVSS: v3.0 7.5 HIGH from nvd@nist.gov

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

EPSS: 0.855470000 probability, percentile 0.993750000 (date 2026-05-06)

Problem Types: CWE-399 | n/a

Version	Source	Type	Score	Severity	Vector
3.0	nvd@nist.gov	Primary	7.5	HIGH	CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H
2.0	nvd@nist.gov	Primary	5		AV:N/AC:L/Au:N/C:N/I:N/A:P

CVSS v3.0 Breakdown

Attack Vector

Network

Attack Complexity

Low

Privileges Required

None

User Interaction

None

Scope

Unchanged

Confidentiality

None

Integrity

None

None

Availability

High

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

CVSS v2.0 Breakdown

Access Vector

Network

Access Complexity

Low

Authentication

None

Confidentiality

None

Integrity

None

Availability

Partial

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

NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Powerdns	Authoritative	All	All	All	All

Vendor Declared Affected Products

Source	Vendor	Product	Version	Platforms
CNA	Na	N/a	affected n/a	Not specified

References

Reference
Advisory 2016-01
PowerDNS Authoritative Server Query Processing Flaws Let Remote Users Consume Excessive Resources on the Target Backend System -
PowerDNS Multiple Denial of Service Vulnerabilities
Debian -- Security Information -- DSA-3664-1 pdns
oss-security - PowerDNS Security Advisory 2016-01: Crafted queries can cause unexpected backend load
Reject qname's wirelength > 255, `chopOff()` handle dot inside labels · PowerDNS/pdns@881b5b0 · GitHub
CVE Program record
NVD vulnerability detail

No vendor comments have been submitted for this CVE.

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

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