

# CVE-2026-1519: Excessive NSEC3 iterations cause high CPU load during insecure delegation validation

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**CVE:** [CVE-2026-1519](#)

**Title:** Excessive NSEC3 iterations cause high CPU load during insecure delegation validation

**Document version:** 2.0

**Posting date:** 25 March 2026

**Program impacted:** [BIND 9](#)

**Versions affected:**

BIND

- 9.11.0 -> 9.16.50
- 9.18.0 -> 9.18.46
- 9.20.0 -> 9.20.20
- 9.21.0 -> 9.21.19

BIND Supported Preview Edition

- 9.11.3-S1 -> 9.16.50-S1
- 9.18.11-S1 -> 9.18.46-S1
- 9.20.9-S1 -> 9.20.20-S1

(Versions prior to 9.11.0 were not assessed.)

**Severity:** High

**Exploitable:** Remotely

**Description:**

If a BIND resolver is performing DNSSEC validation and encounters a maliciously crafted zone, the resolver may consume excessive CPU. Authoritative-only servers are generally unaffected, although there are circumstances where authoritative servers may make recursive queries (see: <https://kb.isc.org/docs/why-does-my-authoritative-server-make-recursive-queries>).

### Impact:

If this issue is encountered, the resolver may experience excessive CPU consumption and a sharp decrease in the number of queries per second that it can handle.

- Authoritative services are believed to be unaffected by this vulnerability but it is important to read: <https://kb.isc.org/docs/why-does-my-authoritative-server-make-recursive-queries>
- Resolvers are affected by this vulnerability.

**CVSS Score:** 7.5

**CVSS Vector:** CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H

For more information on the Common Vulnerability Scoring System and to obtain your specific environmental score please visit: <https://nvd.nist.gov/vuln-metrics/cvss/v3-calculator?vector=AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H&version=3.1>.

### Workarounds:

This is not recommended, but disabling DNSSEC ( `dnssec-validation no;` ) prevents exploitation of this issue.

### Active exploits:

We are not aware of any active exploits.

### Solution:

Upgrade to the patched release most closely related to your current version of BIND 9:

- 9.18.47
- 9.20.21
- 9.21.20

BIND Supported Preview Edition is a special feature preview branch of BIND provided to eligible ISC support customers.

- 9.18.47-S1
- 9.20.21-S1

## Acknowledgments:

ISC would like to thank Samy Medjahed/Ap4sh for bringing this vulnerability to our attention.

## Document revision history:

- 1.0 Early Notification, 18 March 2026
- 2.0 Public disclosure, 25 March 2026

## Related documents:

See our [BIND 9 Security Vulnerability Matrix](#) for a complete listing of security vulnerabilities and versions affected.

**Do you still have questions?** Questions regarding this advisory should be mailed to [bind-security@isc.org](mailto:bind-security@isc.org) or posted as confidential GitLab issues at [https://gitlab.isc.org/isc-projects/bind9/-/issues/new?issue\[confidential\]=true](https://gitlab.isc.org/isc-projects/bind9/-/issues/new?issue[confidential]=true).

## Note:

ISC patches only currently supported versions. When possible we indicate EOL versions affected. For current information on which versions are actively supported, please see <https://www.isc.org/download/>.

## ISC Security Vulnerability Disclosure Policy:

Details of our current security advisory policy and practice can be found in the ISC Software Defect and Security Vulnerability Disclosure Policy at <https://kb.isc.org/docs/aa-00861>.

The Knowledgebase article <https://kb.isc.org/docs/cve-2026-1519> is the complete and official security advisory document.

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