مجلس الأمن السيبراني
CYBER SECURITY COUNCIL
United Arab Emirates

Multiple High-Severity Vulnerabilities in BIND 9

Tracking #:432317508

Date:21-07-2025

TLP: WHITE

EXECUTIVE SUMMARY:

The UAE Cyber Security Council has observed the Internet Systems Consortium (ISC) has disclosed multiple high-severity vulnerabilities in BIND 9, a core component of global DNS infrastructure.

TECHNICAL DETAILS:

The Internet Systems Consortium (ISC) has disclosed **multiple high-severity vulnerabilities** in BIND 9, a core component of global DNS infrastructure. These vulnerabilities—**CVE-2025-40776** and **CVE-2025-40777**—could allow remote attackers to **poison DNS caches** or cause **service outages** in affected DNS resolvers.

Though no exploitation has been reported, the vulnerabilities pose serious operational risks and demand immediate patching or configuration changes.

Technical Details:

1. **CVE-2025-40776 – ECS Birthday Attack Cache Poisoning**

- **Severity:** High
- **CVSS Score:** 8.6
- **Affected Versions:**
  - BIND Subscription Edition (BIND-S) from **9.11.3-S1 to 9.20.10-S1**
- **Impact:** Remote attackers may bypass cache protections and poison DNS resolver responses using spoofed queries.
- **Mitigation:** Disable ECS or upgrade to patched versions.

2. **CVE-2025-40777 – Assertion Failure in Stale Answer Configuration**

- **Severity:** High
- **CVSS Score:** 7.5
- **Affected Versions:**
  - BIND 9.20.0 → 9.20.10
  - BIND 9.21.0 → 9.21.9
- **Impact:** Specific configurations (e.g., serve-stale-enable yes with stale-answer-client-timeout 0) may cause the DNS daemon to crash when handling certain CNAME chains.
- **Mitigation:** Adjust configuration or upgrade to a fixed release.

RECOMMENDATIONS:

The UAE Cyber Security Council recommends to upgrade to the latest secure versions of BIND. If immediate upgrade is not feasible, apply the recommended temporary workarounds to reduce exposure until patching can be completed.

Kindly circulate this information to your subsidiaries and partners as well as share with us any relevant information and findings.

The UAE Cyber Security Council extends its appreciation for the continued collaboration.

REFERENCES:

- https://kb.isc.org/docs/cve-2025-40777
- https://kb.isc.org/docs/cve-2025-40776