

Applicability: Vulnerability Scanning within the RingCentral Security Development Lifecycle

Why:

Customers want to understand how RingCentral performs vulnerability scanning as part of the Security Development Lifecycle (SDL).

What:

RingCentral develops products and services with security requirements based on guidelines from [OWASP](#) and standards from [NIST](#). These guidelines and standards help ensure the confidentiality, integrity, and availability of information and information systems.

Vulnerability scanning is the use of automated tools to analyze code for known vulnerabilities.

How:

RingCentral employs various types of vulnerability scanning during the security development lifecycle:

- **Static Application Security Testing (SAST).** Performed on the RingCentral codebase to reveal unsecure coding patterns. Also called Static Code Analysis (SCA).
- **Open-Source Software Vulnerability Scan.** Performed specifically on open-source and third-party software inclusions on the RingCentral codebase to find outdated or vulnerable libraries.
- **Open-Source Software License Verification.** Performed specifically on open-source and third-party software inclusions on the RingCentral codebase to find license issues.
- **API Vulnerability Scan.** Performed specifically on API endpoints that are deployed in the staging environment for both on premise and cloud-based endpoints, to find unsecure coding patterns.
- **Container Vulnerability Scan.** Performed specifically on image files of Docker containers to find unsecure coding patterns.
- **Mobile Application Scan.** Performed on mobile application code, to find unsecure coding patterns.
- **Dynamic Application Security Testing (DAST).** Performed on the RingCentral codebase in a running state to reveal unsecure coding patterns.

When:

For efficiency, vulnerability scanning is usually performed on code after applying secure design and threat modeling.

Completing SDL as a whole provides the best assurance of developing secure products than any one of its discrete activities such as vulnerability scanning.