The number of ways to misuse a system is infinite; your resources to test for security issues are not. By efficiently reducing the endless pile of misuse cases to those that matter most, our Fuzz Testing solution uncovers hidden unknown vulnerabilities, helping organizations improve software security and robustness.

Prevent exploitations with resilient software
With over 15 years of experience identifying high-profile vulnerabilities, our Fuzz Testing solution not only uncovers dangerous unknown vulnerabilities but also provides expert remediation advice to help organizations future-proof the software they rely on.

1. A proven method for uncovering weaknesses
Fuzzing is a method of software testing that uncovers failure modes and unknown vulnerabilities by deliberately sending malformed inputs to a target. To simulate real-life scenarios, Synopsys Fuzz Testing employs dynamic black box testing, a common technique used by hackers that requires no source code. Protect your software against hackers and hostile environments with Synopsys Fuzz Testing.

2. An intelligent fuzzer that understands your software
The power of Synopsys Fuzz Testing lies in the tool’s deep understanding of network protocols, file formats, and applications. Using its full knowledge of the input type and messaging sequence, the Synopsys Fuzz Testing solution tests intelligently and systematically to yield optimal results. Synopsys Fuzz Testing offers an extensive library of protocol-specific attack patterns that automatically mutate into new variations to uncover difficult-to-find failure modes and unknown vulnerabilities.

3. The widest protocol coverage in the industry
Synopsys Fuzz Testing offers advanced test suites for 250+ standard network protocols, file formats, and other interfaces. Test suites are continuously added, improved, and supported by a dedicated team of engineers, so you don’t have to bear the burden of manual test creation.

If our library of test suites doesn’t cover your uncommon, custom, or proprietary protocols, file formats, and interfaces, use the Synopsys Fuzz Testing Software Development Kit to develop your own test suites. Simply plug it into the Synopsys Fuzz Testing framework and fuzz away.
4. Expert guidance and clear paths to remediation

Once a failure is detected, the Synopsys Fuzz Testing solution supplies detailed documentation to help organizations identify and fix issues. Replay test recordings or review logs of message exchanges to analyze or reproduce failures. We’re serious about your confidentiality; we’ve encrypted remediation packages to facilitate safe disclosure within an organization or between organizations.

5. Advanced fuzz testing made easy for anyone

Not a security expert? Synopsys Fuzz Testing’s out-of-the-box functionalities make advanced fuzz testing easy for anyone. The intuitive interface and pre-built test suites were developed so that once you know how to use one test suite, you know how to use them all.

We have the expertise, tools, and services you need

Synopsys offers the most comprehensive solution for building security and quality into your software development life cycle and supply chain. Many of our customers that implement Synopsys Fuzz Testing also use the following:

- **Fuzz Testing SDK**: Enjoy full SDK capabilities, including access to our fuzzing and modeling engine, protocol model generation with PCAP import, built-in injectors for TCP/IP, HTTP, TLS, UDP, WebSocket, and files, and much more.
- **Software Composition Analysis**: Scan for both known and unknown vulnerabilities by complementing Fuzz Testing with Software Composition Analysis, allowing for total vulnerability management.

The Synopsys difference

Synopsys offers the most comprehensive solution for building integrity—security and quality—into your SDLC and supply chain. We’ve united leading testing technologies, automated analysis, and experts to create a robust portfolio of products and services. This portfolio enables companies to develop customized programs for detecting and remediating defects and vulnerabilities early in the development process, minimizing risk and maximizing productivity. Synopsys, a recognized leader in application security testing, is uniquely positioned to adapt and apply best practices to new technologies and trends such as IoT, DevOps, CI/CD, and the Cloud. We don’t stop when the test is over. We offer onboarding and deployment assistance, targeted remediation guidance, and a variety of training solutions that empower you to optimize your investment. Whether you’re just starting your journey or well on your way, our platform will help ensure the integrity of the applications that power your business.

For more information go to [www.synopsys.com/software](http://www.synopsys.com/software)