

A Modern Approach to Application Security

The Synopsys difference

Synopsys provides integrated solutions that transform the way you build and deliver software, accelerating innovation while addressing business risk. With Synopsys, your developers can secure code as fast as they write it. Your development and DevSecOps teams can automate testing within development pipelines without compromising velocity. And your security teams can proactively manage risk and focus remediation efforts on what matters most to your organization. Our unmatched expertise helps you plan and execute any security initiative. Only Synopsys offers everything you need to build trust in your software.

Outcomes and considerations

- **Sales / competitive differentiation:** As today's organizations face the realities of security breaches such as the recent SolarWinds attack, more customers and businesses are realizing that they are only as secure as the businesses they are connected with. Some potential customers and partners may want to discuss application security processes before agreeing to do business. As more organizations adopt formal application security programs, the ability to secure software may become a competitive differentiator.
- **Compliance:** Many compliance regulations, such as PCI, HIPAA, and GDPR, include application security components. Additionally, a [2021 U.S. executive order](#) outlined a number of standards and requirements that will be adopted to protect federal agencies and their software infrastructure.
- **Risk of attack:** When determining goals for an AppSec program, it is important to remember that breaches exist not only because of vulnerabilities in code. Developers might create completely secure code only to see the application compromised because of how it interacts with other systems. Testing should be planned accordingly for apps at higher risk due to being public-facing or containing sensitive data .
- **Expertise:** All the models and strategies in the world won't matter if an organization doesn't have the expertise to put them into practice. A successful application security program requires the right talent and resources, along with the right solutions to run the program. Each functional team needs dedicated resources and business-specific metrics and KPIs. A successful application security program requires
 - Speed and accuracy, and comprehensive testing across the entire application portfolio
 - Access to the right application security talent that can perform high-fidelity, on-demand, manual testing
 - Strong integration with development processes and tools so that security vulnerabilities are fixed faster and prevented in the future

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The modern AppSec framework

Govern

Asset management and risk rating
Regulatory compliance
AppSec best practices and metrics

Identify

Attack surface mapping
Continuous and automated scanning
Point-in-time testing
Reducing false positives

Remediate

Synopsys professional services on-demand and premium support
Staff augmentation:
eLearning:

Prevent

Findings-based training
Threat modeling
Security frameworks and configuration standards
Program scaling

Putting it all together

A modern AppSec framework enables organizations to expand beyond identifying and remediating application security issues in siloes, and enables them to take a functional and holistic approach to their application security program. Organizations begin by identifying the limitations and goals of their current plan, and then assessing an inventory of their program based on the four components of the framework. For each component, Synopsys offers the right products and expertise to help organizations advance to the next step of the framework. From identifying to remediating, preventing to governing, organizations that adopt a modern AppSec framework can develop and deploy applications fast and succeed in today's rapidly changing marketplace.