

# Build Secure, High-Quality Apps Faster With Your Microsoft Tools on Azure Cloud

## The challenge

The modern world runs on software, and organizations are under immense pressure to develop and deploy new applications and features quickly to keep pace with demand. At the same time, security risk has shifted from the network to the application—with 84% of all cyber attacks occurring at the application layer.

Organizations of all sizes face similar challenges when it comes to software development and deployment:

- Deploying apps without security defects that put at risk not only user data but also the organization's brand
- Identifying software vulnerabilities and quality issues early, before they become harder and more expensive to fix
- Automating security testing in DevOps to maximize productivity without compromising business agility

To remove friction in the software development life cycle (SDLC), Synopsys has partnered with Microsoft to provide an end-to-end solution to streamline and secure application development and deployment.

## The solution

Synopsys and Microsoft are focused on helping customers build secure, high-quality software faster—on-premises, in the cloud, or in a hybrid environment. Synopsys combines market-leading application security tools with industry best practices and a world-class services team to help organizations modernize software development and delivery.

Today, the level of complexity that developers face when building software can be overwhelming. They have to manage programming languages, development frameworks, open source code, agile development practices and DevOps toolchains, and containers, all while dealing with the pressure to deliver software faster than ever before.

The partnership of Synopsys and Microsoft delivers a seamless toolset to build and deploy secure apps faster. The joint solution can be deployed on-premises or in Azure and be invoked from Azure DevOps or any CI/CD system. By tightly integrating Synopsys' suite of application security solutions with Visual Studio and Azure, you can secure all your application code—regardless of how it's built or will be deployed.

## Solutions



Microsoft  
Visual Studio



Microsoft  
Azure DevOps



Azure Container  
Registry & Kubernetes



Coverity Static  
Application  
Security Testing



Black Duck Software  
Composition Analysis



Seeker Interactive  
Application Security  
Testing

## Benefits

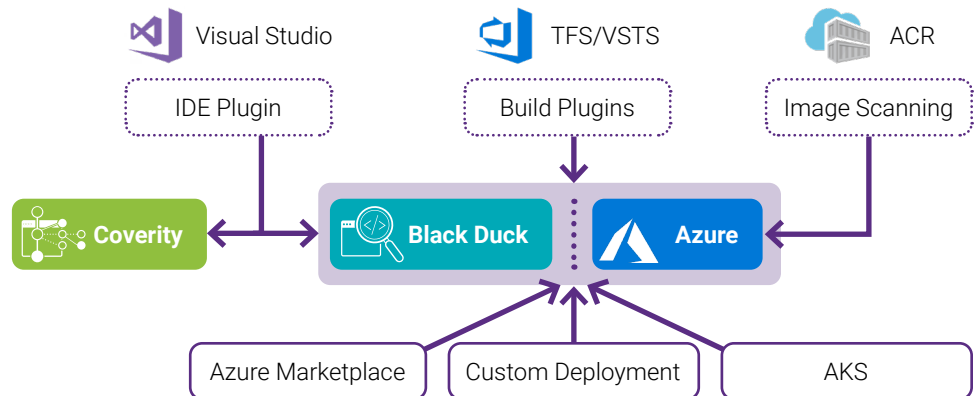
- Prevent software reliability and security issues early.
- Integrate security testing seamlessly into your CI/CD pipeline for streamlined deployment.
- Adopt open source into your applications with confidence..

## About Microsoft

Microsoft enables digital transformation for the era of an intelligent cloud and an intelligent edge. Its mission is to empower every person and every organization on the planet to achieve more.

## Synopsys and Microsoft Integration Architecture

With the integrated Synopsys and Microsoft solution, organizations can streamline and accelerate development within Microsoft platforms without sacrificing software quality or security.



The Synopsys and Microsoft partnership addresses all stages of the SDLC, from development to deployment:

- **IDE plugin.** IDE plugins for Microsoft Visual Studio find bugs and quality defects in code and identify security and license information for open source packages.
- **Build plugin.** Synopsys Detect Plugin for Azure DevOps (formerly Team Foundation Server or Visual Studio Team Services) helps integrate code analysis into the build and release pipelines.
- **Image scanning.** Synopsys scans images in the Azure Container Registry to ensure that applications and its dependencies are free from vulnerability and license risks before being deployed into production.

## The benefits

- Deploy secure software on time, within budget, and without bugs or defects.
- Avoid app reliability issues and other challenges that slow down development and deployment.
- Build application security testing into existing SDLC workflows.
- Work seamlessly with and within the Microsoft tools and platforms you're familiar with—no learning curves or rip-and-replace necessary.
- Adopt open source technology into your codebase with confidence.
- Reduce false positives with in-depth build-time scanning and agent-based QA scanning with verification.
- Prevent data breaches and other security incidents that expose your company and users to unnecessary risk.



Learn how Synopsys and Microsoft together help customers build secure, high-quality software faster at [synopsys.com/microsoft](https://www.synopsys.com/microsoft).

## The Synopsys difference

Synopsys helps development teams build secure, high-quality software, minimizing risks while maximizing speed and productivity. Synopsys, a recognized leader in application security, provides static analysis, software composition analysis, and dynamic analysis solutions that enable teams to quickly find and fix vulnerabilities and defects in proprietary code, open source components, and application behavior.

For more information about the Synopsys Software Integrity Group, visit us online at [www.synopsys.com/software](https://www.synopsys.com/software).

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