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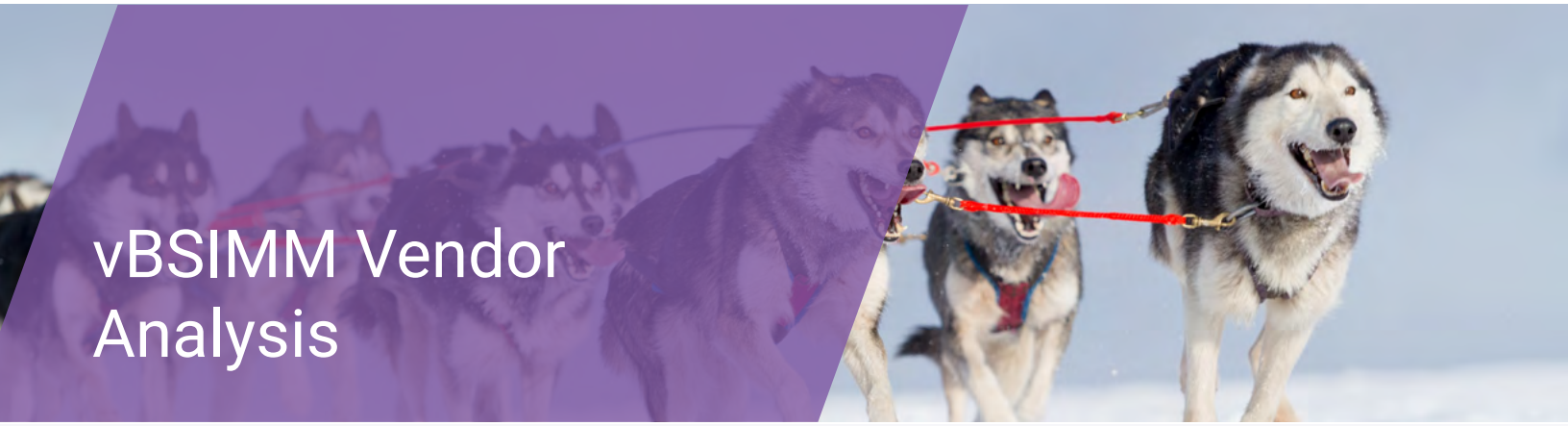

vBSIMM Vendor Analysis

Are your vendors as committed to security as you are?

If your organization relies heavily on third-party software, you're still responsible for making sure it meets compliance requirements and protects customer data. Our vendor analysis puts third-party applications under the same scrutiny as the applications you develop in-house, so you know the code you receive is secure. When your full supply chain is aligned along the same security protocols and practices, you'll decrease risk. Even better, you'll also reduce the time and resources it takes to launch secure software.

What is vBSIMM?

Vendor Building Security In Maturity Model (vBSIMM) is a metrics-oriented audit that empowers you to measure the software security capabilities within an organization's software development process.

Why do I need a vBSIMM?

The vBSIMM enables you to retroactively identify and manage the risk of third-party software. Security bugs often creep into software when developers inject "technical debt" into new builds by repurposing code originally developed for other applications or by a third party. The same is likely if they incorporate open source code or components from code libraries into their work. As a result of our vendor analysis, you'll be able to see which vendors you can trust and which need to improve their security posture to continue to be your partner.

How does a vBSIMM work?

1. Risk ranking

Our team starts by risk ranking the third-party applications, including custom development, commercial off-the-shelf (COTS), and open source. We review vendor documentation and interview your vendors to understand their understanding of software security.

Assess the risks inherent to using third-party software.

2. Security scoring

We'll assign each of your vendors a security score by looking at five of the 12 practices and 15 of the 113 activities from the Building Security in Maturity Model (BSIMM):

- Architecture analysis (3 activities)
- Code review (3 activities)
- Security testing (3 activities)
- Penetration testing (3 activities)
- Configuration management & vulnerability management (3 activities)

3. Software testing

Based on the risk of the application itself and findings from the vendor assessment, we then put their software to the test. We may use one or more of the following approaches: static analysis (SAST), penetration testing, or security control design analysis (SCDA).

> Only 20% of organizations evaluate the security of third parties with which they share data or network access.
>
> ~FS-ISAC

Sample vBSIMM questions

Do your vendors have a software security group or at least a designated person in charge of security?

Will they share a documented Secure Software Security Development Lifecycle (SSDL)?

Can they share artifacts that back up the activities described in the SSDL that demonstrate use (for example, results from an architecture risk analysis or a code review)?

How often do they perform security testing?

Who does their security testing? Is it internal or independent?

Will they submit applications to third-party review?

What is their documented process for fixing security defects?

What kind of timeline is involved in remediation and what kind of enforcement is in place?

The Synopsys Difference

Synopsys offers the most comprehensive solution for integrating security and quality into your SDLC and supply chain. Whether you're well-versed in software security or just starting out, we provide the tools you need to ensure the integrity of the applications that power your business. Our holistic approach to software security combines best-in-breed products, industry-leading experts, and a broad portfolio of managed and professional services that work together to improve the accuracy of findings, speed up the delivery of results, and provide solutions for addressing unique application security challenges. We don't stop when the test is over. Our experts also provide remediation guidance, program design services, and training that empower you to build and maintain secure software.

For more information go to www.synopsys.com/software.

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