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OWASP SAMM

Software Assurance Maturity Model

Agenda

- Introduction
- OWASP SAMM
 - Introduction
 - Methodology
 - Prepare
 - Assess
 - Set the Target
 - Implement
 - Rollout
- Q&A





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INTRODUCTION

Mathias Conradt



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Principal Solutions Engineer, **Snyk**



OWASP

OWASP Member

20+ years in **project business**

Software engineering and consulting
(PRINCE2, ITIL, Scrum certified)

5+ years in **application security**

(Identity & Access Management, DevSecOps)



Open Source and Open Knowledge Advocate



<https://www.linkedin.com/in/mathiasconradt/>

Snyk Developer Security Platform

with unmatched speed, accuracy, coverage, and ease of use



Snyk AppRisk



Snyk Code



Snyk Open Source



Snyk Container



Snyk Infra.
As Code



DeepCode AI Engine

Code
/ IDE



CI/CD



Collaborate



Cloud



24/7/365 **Customer Success & Professional Services** to drive adoption



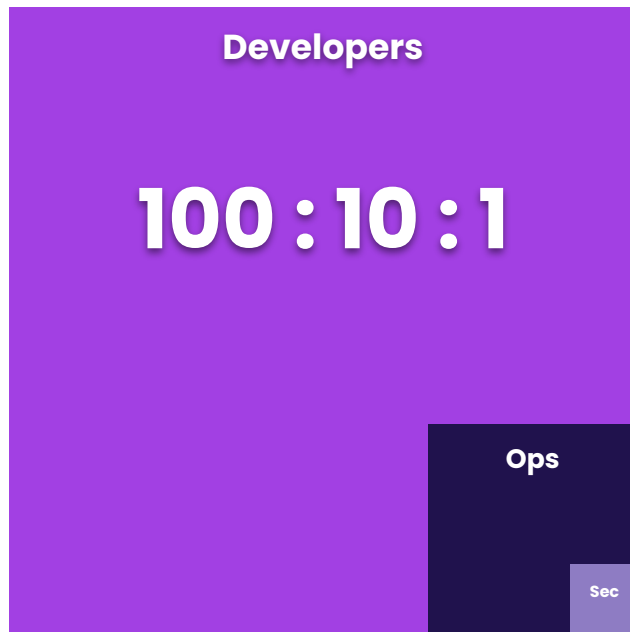
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The only way to scale security is to empower developers

"The ratio of engineers in Development, Operations, and Infosec in a typical technology organization is 100:10:1.

When Infosec is that outnumbered, without automation and integrating information security into the daily work of Dev and Ops, Infosec can only do compliance checking, which is the opposite of security engineering - and besides, it also makes everyone hate us."

- Gene Kim
Co-Author of The DevOps Handbook



DevSecOps is the way!

Motivation

It's always about People, Processes, Technology (Tools)

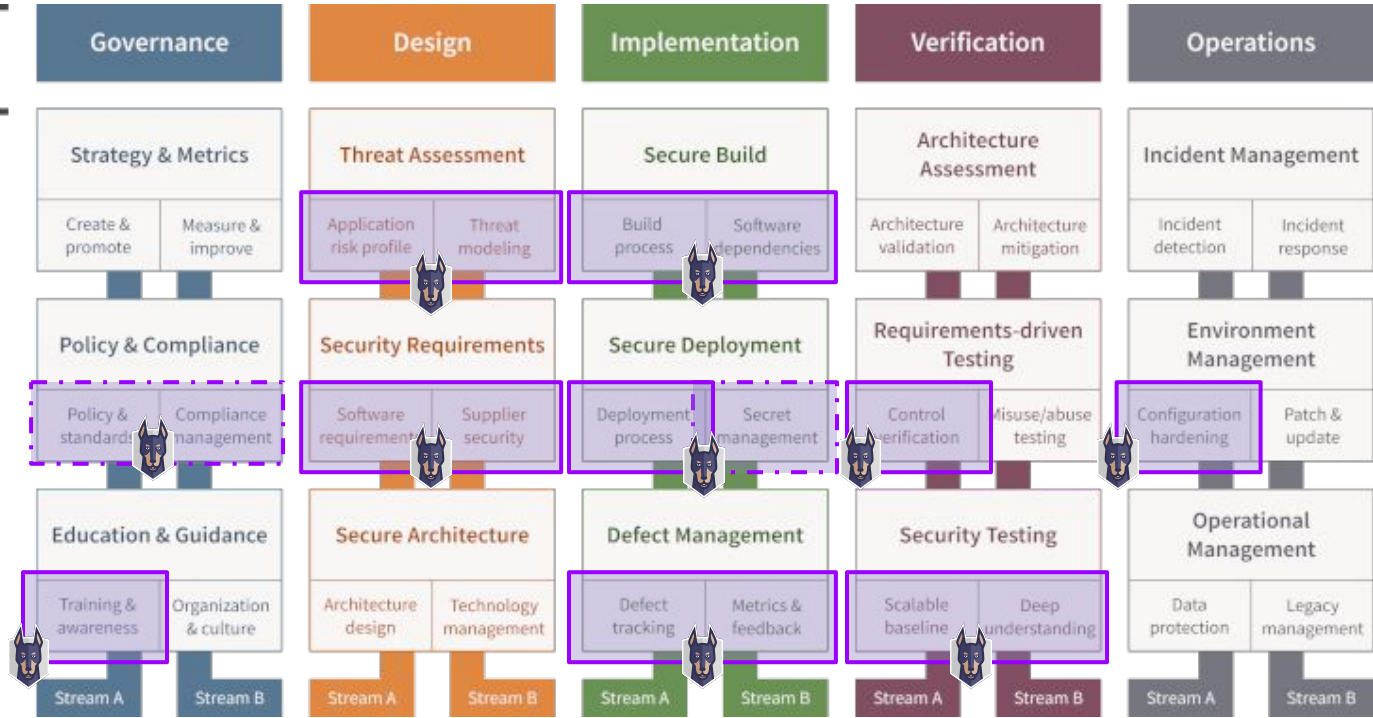
- Snyk aims to be a **Trusted Advisor** to its customers when it comes to DevSecOps and Application Security Programs.
- **Win-Win**: Maturing DevSecOps will benefit both sides.

Supporting organizations that have **mature DevOps** processes in place but are just **starting** out with **DevSecOps** (and without any framework or model in place).



Business functions

Security practices



Security Framework & Maturity Model Landscape



NIST CSF
2.0



DSOMM



SAFECode



BSIMM



ASVS

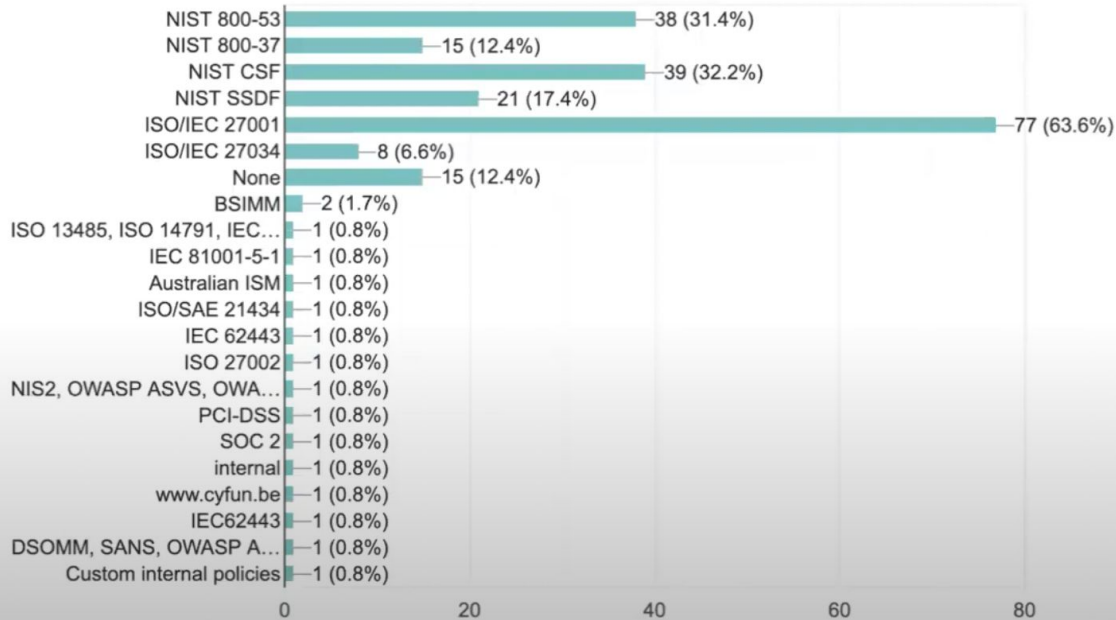
COBIT®

An ISACA Framework



What standards or maturity models are you using in conjunction with SAMM?

121 responses



Why a Framework?

- Follow a structured approach
- “You can’t manage what you can’t measure”
- Not reinventing the wheel
- Learn from others, field-proven best-practices



Selection Criterias

- **Measurable**
Defined maturity levels across security practices
- **Actionable**
Clear pathways for improving maturity levels
- **Versatile**
Technology, process, and organization agnostic
- **Open**
Established non-proprietary with a large community



OWASP SAMM



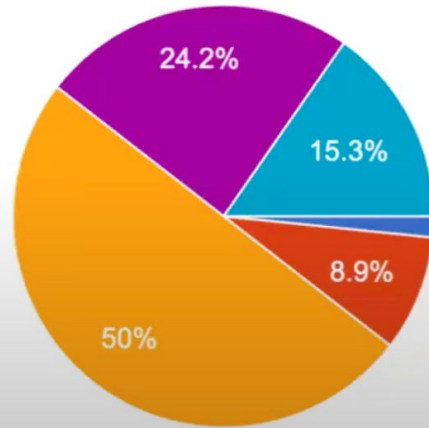
- OWASP Software Assurance Maturity Model (SAMM)
- OpenSAMM 1.0 (2009), OWASP SAMM 1.1 (2016)+
- Focus on Application Security
- Flagship project at OWASP
- Prescriptive in Nature (as opposed to descriptive / BSIMM)

*The mission of OWASP Software Assurance Maturity Model (SAMM) is to be the prime maturity model for software assurance that provides an effective and **measurable** way for all types of organizations to analyze and **improve** their software security posture. OWASP SAMM supports the complete software lifecycle, including development and acquisition, and is **technology and process agnostic**. It is intentionally built to be evolvable and risk-driven in nature.*



In what geographic area are you primarily located?

124 responses



- Africa
- Asia-Pacific
- Europe
- Latin America
- North America
- Latin America



Why would you use SAMM?

- To have a “holistic” and structured approach to application security
- [As a CISO] to have your story resonate at the level of management
- [As a Developer] to get rid of “it’s a developer’s problem” mentality, which it’s not!
- [As a Project Manager] to get to a shift-left approach to increase efficiency and predictability of software delivery
- [As a Client] to understand how your supplier is performing



The structure and setup of OWASP SAMM is made to support:

1. the **assessment** of the current software assurance posture,
2. the definition of the **strategy** (i.e. the target) that the organization should implement,
3. the formulation of an implementation **roadmap** of how to get there, and
4. prescriptive advice on how to **implement** particular activities.



OWASP SAMM Project Cycle



PREPARE

ASSESS

SET THE TARGET

DEFINE THE PLAN

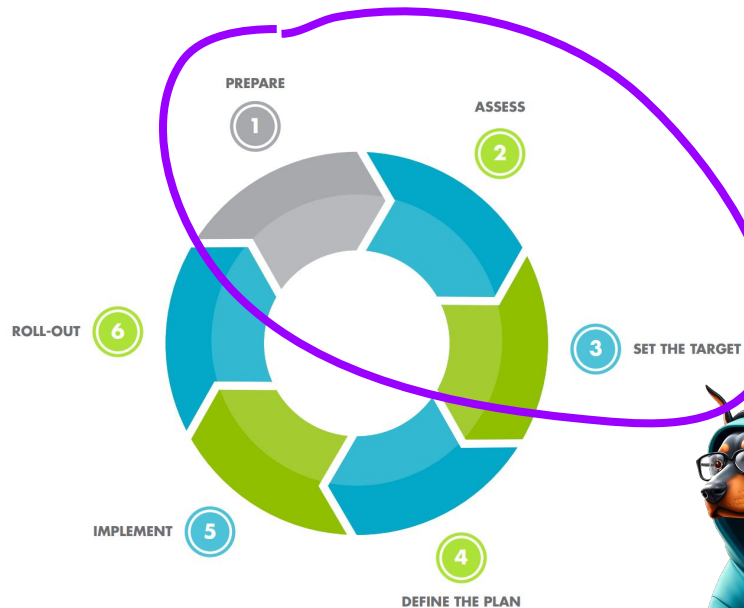
IMPLEMENT

ROLL OUT

A Typical Kick-Off.

- Establishing **Assessment Scope**
- **Methodology**
- Assessing **Governance**
- Assessing **Design**
- Assessing **Implementation**
- Assessing **Verification**
- Assessing **Operations**
- Setting **Improvement Targets**

Usually 1-3 day session.



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PREPARE





Purpose Ensure a proper start of the project

Activities

Define the scope	Set the target of the effort: the entire enterprise, a particular application or project, a particular team.
Identify stakeholders	Ensure that important stakeholders are identified and well aligned to support the project.
Spread the word	Ensure that important stakeholders are identified and well aligned to support the project.

Resources

Consider involving at least	<ul style="list-style-type: none"> • Executive Sponsor • Security Team • Developers • Architects • Business Owners • QA Testers • Managers
SAMM project page - OWASP website	https://owasp.org/www-project-samm/
Blog post on determining scope	https://owaspsamm.org/blog/2023/05/24/determining-scope-when-implementing-samm/

Best practices

Pre-screen software development maturity to have realistic expectations
The smaller the scope, the easier the exercise



Considerations picking a Framework

- Do you agree on the framework?
- Do you agree on the model/content?
 - Does it need customization?
 - Customization vs. accepting low maturity acceptance
- Is Budget available and planned in?
 - Tool licenses, internal man hours, external consultants
- Educate all Stakeholders

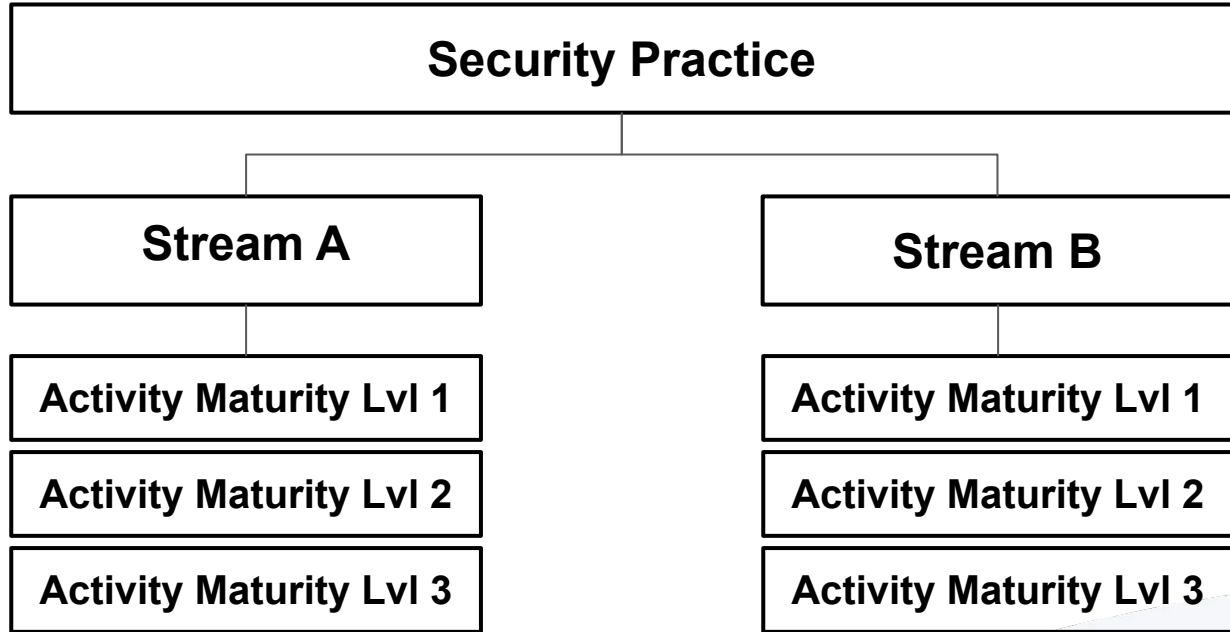


Resources

- Website:
<https://owaspsamm.org>
- Github:
<https://github.com/owaspsamm>
- Slack: OWASP - #project-samm
- Youtube:
 - <https://www.youtube.com/@owaspsamm>
 - <https://www.youtube.com/@codificcom>
- Fundamentals Course
 - <https://owaspsamm.thinkific.com/courses/samm>
 - https://www.youtube.com/playlist?list=PLBxrzm7KYaoESVEINboWn-_osqLIA5MLI
- Monthly Zoom Call

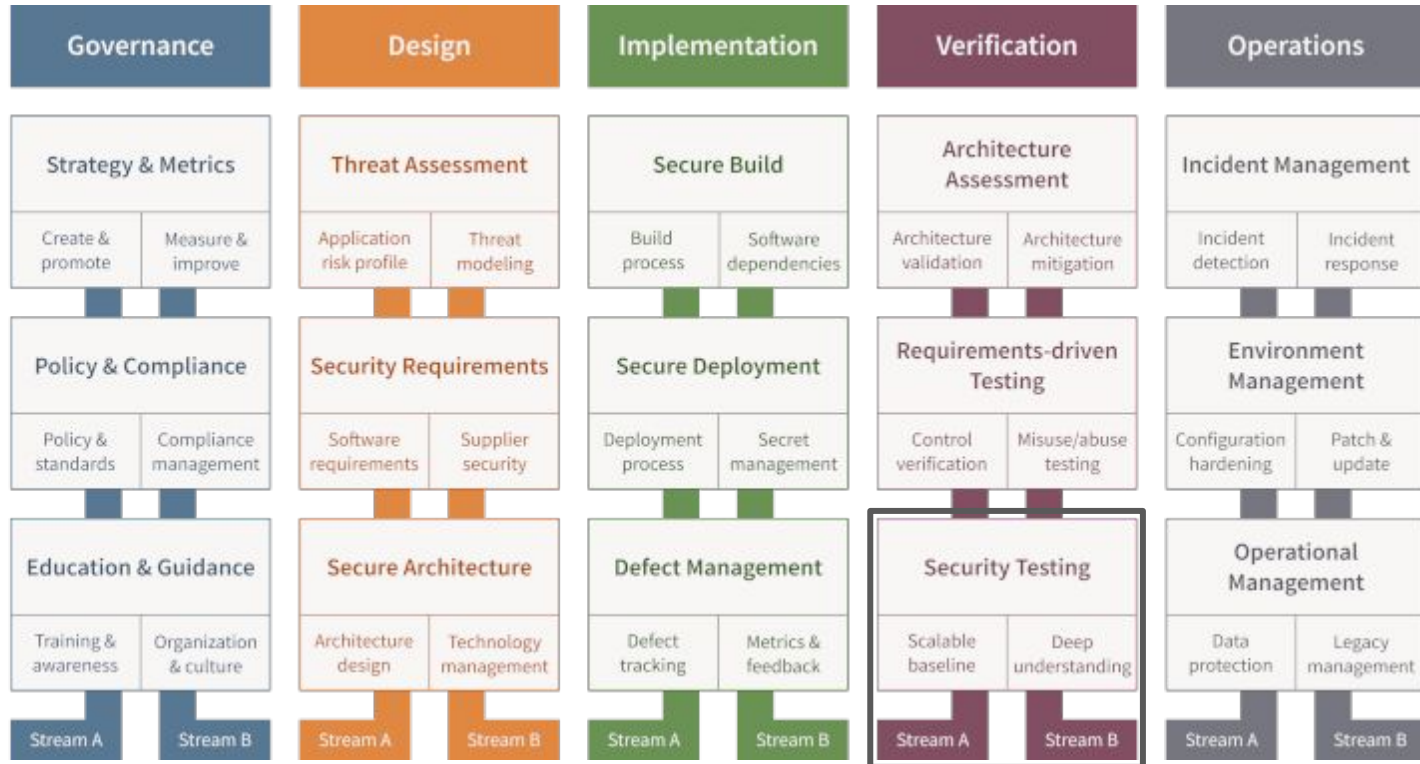


SAMM Model Structure



Business functions

Security practices



SECURITY TESTING

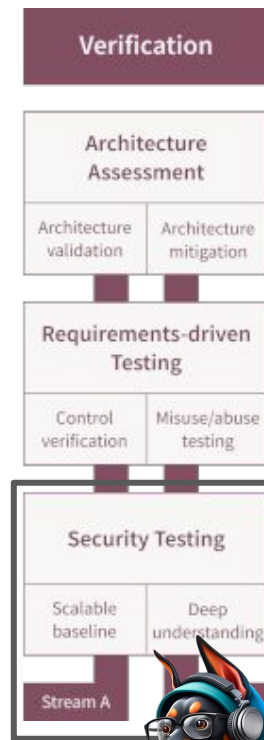
Model | Verification | Security Testing

The Security Testing (ST) practice leverages the fact that, while automated security testing is fast and scales well to numerous applications, in-depth testing based on good knowledge of an application and its business logic is often only possible via slower, manual expert security testing. Each stream therefore has one approach at its core.

The first stream focuses on establishing a common security baseline to automatically detect so-called "low hanging fruit". Progressively customize the automated tests for each application and increase their frequency of execution to detect more bugs and regressions earlier, as close as possible to their inception. The more bugs the automated processes can detect, the more time experts have to use their knowledge and creativity to focus on more complex attack vectors and ensure in-depth application testing in the second stream. As manual review is slow and hard to scale, reviewers prioritize testing components based on their risk, recent relevant changes, or upcoming major releases. Organizations can also access external expertise by participating in bug bounty programs, for example.

Unlike the Requirements-driven testing practice which focuses on verifying that applications correctly implement their requirements, the goal of this practice is to uncover technical and business-logic weaknesses in application and make them visible to management and business stakeholders, irrespective of requirements.

Maturity level		Stream A Scalable Baseline	Stream B Deep Understanding
1	Perform security testing (both manual and tool based) to discover security defects.	Utilize automated security testing tools.	Perform manual security testing of high-risk components.
2	Make security testing during development more complete and efficient through automation complemented with regular manual security penetration tests.	Employ application-specific security testing automation.	Conduct manual penetration testing.
3	Embed security testing as part of the development and deployment processes.	Integrate automated security testing into the build and deploy process.	Integrate security testing into development process.



SCALABLE BASELINE

Model | Verification | Security Testing | Scalable Baseline

MATURITY LEVEL 1

MATURITY LEVEL 2

MATURITY LEVEL 3

Benefit

Detection of common easy-to-find vulnerabilities

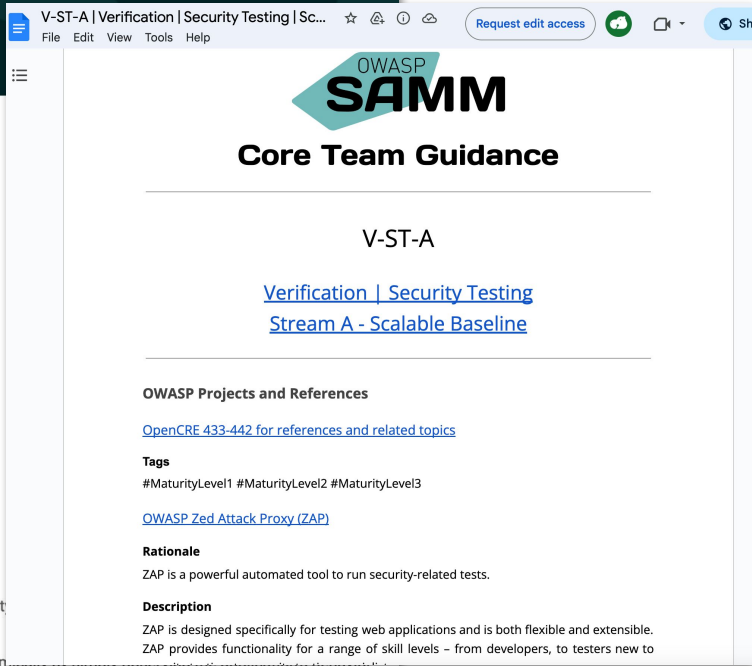
Activity

Use automated static and dynamic security test tools for software, resulting in more efficient security testing and higher quality security tests and extend code coverage.

Application security testing can be performed statically, by inspecting an application's source code without running it, or dynamically, by simply executing an application's code in response to various input conditions. The former approach is often referred to as Static Application Security Testing (SAST), the latter as Dynamic Application Security Testing (DAST). A hybrid approach, known as Interactive Application Security Testing (IAST), combines the strengths of both approaches (at the cost of additional overhead) by dynamically testing automatically instrumented applications, allowing accurate monitoring of the application's internal state in response to external input.

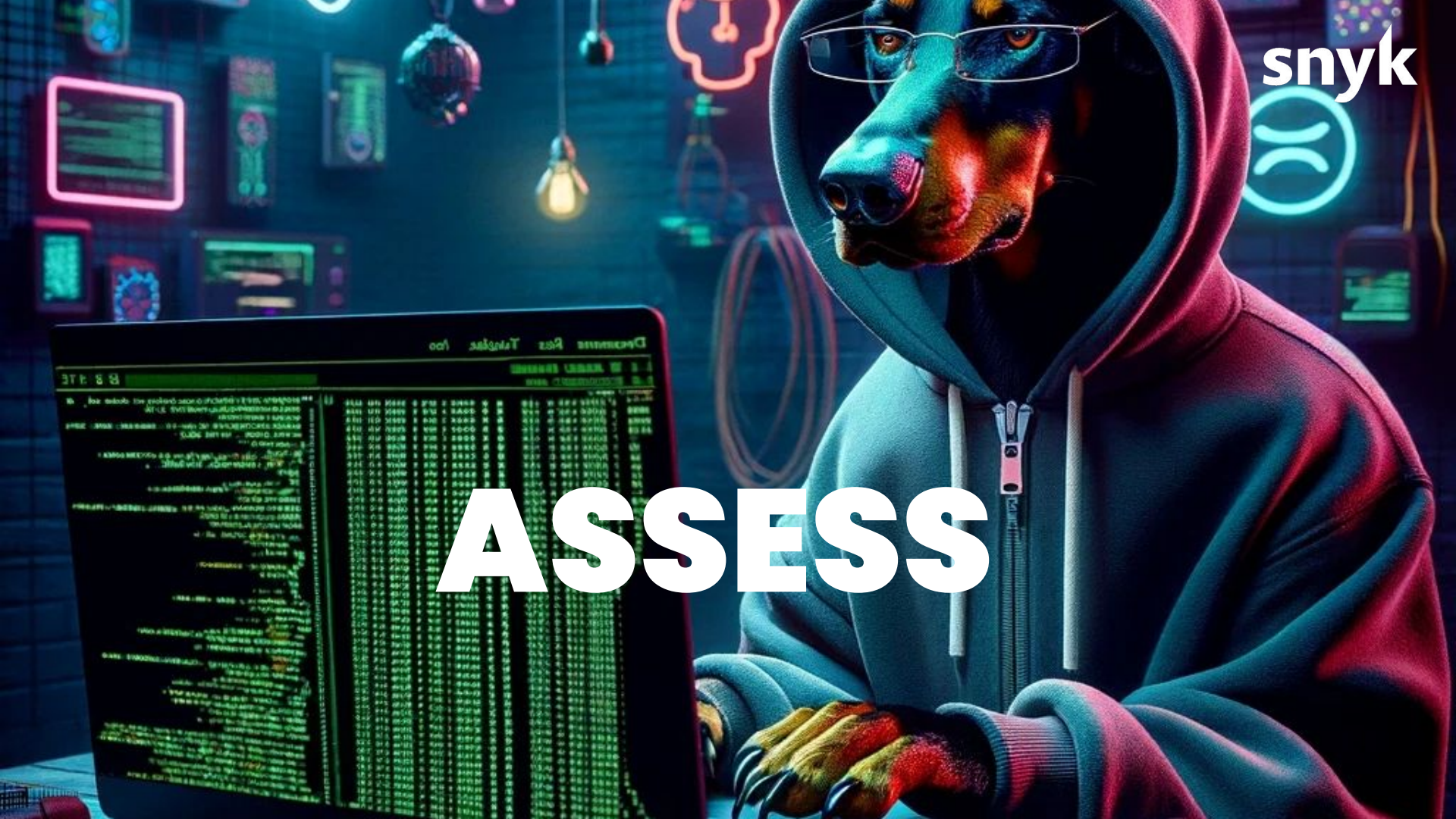
Many security vulnerabilities are very hard to detect without carefully inspecting the source code. While this is ideally performed by expert or peer review, it is a slow and expensive task. Although "noisier" and frequently less accurate than expert-led reviews, automated SAST tools are cheaper, much faster, and more consistent than humans. A number of commercial and free tools are able to efficiently detect sufficiently important bugs and vulnerabilities in large code bases.

Dynamic testing does not require application source code, making it ideal for cases where source code is not available. It also identifies concrete instances of vulnerabilities. Due to its "black-box" approach, without instrumentation, it is more likely to uncover shallow bugs. Dynamic testing tools need a large source of test data whose manual test generation is prohibitive. Many tools exist which generate suitable test data automatically, leading to more efficient security testing and higher quality results.



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ASSESS



PREPARE

ASSESS

SET THE TARGET

DEFINE THE PLAN

IMPLEMENT

ROLL OUT



Purpose Identify and understand the maturity of your chosen scope in each of the 15 software security practices

Activities

Evaluate current practices	Organize interviews with relevant stakeholders to understand the current state of practices within your organization. You could evaluate this yourself if you understand the organization sufficiently enough. SAMM provides lightweight and detailed assessments, where the latter is an evidence-based evaluation, use the detailed one only if you want to have absolute certainty about the scores.
Determine maturity level	Based on the outcome of the previous activity, determine for each security practice the maturity level according to the SAMM maturity scoring system. Activities are scored by a multiple choice system and are averaged out for the security practice area, then added together to determine the overall score.

Resources

SAMM tools	https://owasp samm.org/resources/assessment-tools
SAMM assessment page	https://owasp samm.org/assessment/ This resource will provide you with <ul style="list-style-type: none"> • Assessment questions • Maturity level calculation
SAMM assessment guide	https://owasp samm.org/assessment-guide/ This resource will provide you with <ul style="list-style-type: none"> • Guidelines for performing assessments • Best practices
SAMM interview questions example	https://docs.google.com/document/d/1rUsktgsGna65KJPCT91UiOxFRvKdFs0TjxCWN0aa5u4/edit?usp=sharing
OWASP Maturity Models	https://github.com/owasp/Maturity-Models



FAQ: Internal or External Assessments?

- Self-Assessment
- Internal Assessors but from different team, i.e. Compliance
- Internal Assessor with External Guidance (SAMM Expert)
- External Assessor

FAQ: Assessment Style?

- Open Ended Questions
- Survey-Style



Assessment completion: 10%

Scalable Baseline 0.00 / 1.00

Deep Understanding



Evaluation (Assigned to: Mathias C.)

Validation

Improvement

L1: Do you scan applications with automated security testing tools?

- You dynamically generate inputs for security tests using automated tools
You choose the security testing tools to fit the organization's architecture and technology stack, and balance depth and accuracy of inspection with usability of findings to the organization

No
Yes, some of them
Yes, at least half of them
Yes, most or all of them

0.50

L2: Do you customize the automated security tools to your applications and technology stacks?

- You tune and select tool features which match your application or technology stack
You minimize false positives by silencing or automatically filter irrelevant warnings or low probability findings
You minimize false negatives by leverage tool extensions or DSLs to customize tools for your application or organizational standards

No
Yes, some of them
Yes, at least half of them
Yes, most or all of them

0.50

L3: Do you integrate automated security testing into the build and deploy process?

- Management and business stakeholders track and review test results throughout the development cycle
You merge test results into a central dashboard and feed them into defect management

No
Yes, some of it
Yes, at least half of it
Yes, most or all of it

0.00

Documentation Timeline

https://sammy.codific.com/

Finalize evaluation and submit for validation



F11

SAMM Assessment Interview: For

Instructions

Interview an individual based on the questions below organized according to SAMM Business Functions and Security Practices. Select the best answer from the multiple choice drop down selections in the answer column. Document additional information such as how and why in the "Interview Notes" column. The formulas in hidden columns F-H will calculate the scores and update the Rating boxes and other worksheets as needed. Once the interview is complete, go to the "Scorecard" sheet and follow instructions.

Organization:	
Team/Application:	
Interview Date:	
Team Lead:	
Contributors:	

Governance

Stream	Level	Strategy & Metrics	Answer	Score 1	Score 2	Interview Notes	Rating
Create and Promote	1	Do you understand the enterprise-wide risk appetite for your applications ? You capture the risk appetite of your organization's executive leadership The organization's leadership vet and approve the set of risks You identify the main business and technical threats to your assets and data You document risks and store them in an accessible location	N Yes, it covers general risks	0.25	0.375		0.38
	2	Do you have a strategic plan for application security and use it to make decisions? The plan reflects the organization's business priorities and risk appetite The plan includes measurable milestones and a budget The plan is consistent with the organization's business drivers and risks The plan lays out a roadmap for strategic and tactical initiatives You have buy-in from stakeholders, including development teams	O	0	0.000		
	3	Do you regularly review and update the Strategic Plan for Application Security? You review and update the plan in response to significant changes in the business environment, the organization, or its risk appetite Plan update steps include reviewing the plan with all the stakeholders and updating the business drivers and strategies You adjust the plan and roadmap based on lessons learned from completed roadmap activities You publish progress information on roadmap activities, making sure they are available to all stakeholders	P	0	0.000		
Measure and Improve	1	Do you use a set of metrics to measure the effectiveness and efficiency of the application security program across applications? You document each metric, including a description of the sources, measurement coverage, and guidance on how to use it to explain application security trends Metrics include measures of efforts, results, and the environment measurement categories Most of the metrics are frequently measured, easy or inexpensive to gather, and expressed as a cardinal number or a percentage Application security and development teams publish metrics	Q Yes, for two metrics categories	0.5	0.250		0.25
	2	Did you define Key Performance Indicators (KPI) from available application security metrics? You defined KPIs after gathering enough information to establish realistic objectives	T	0	0.000		

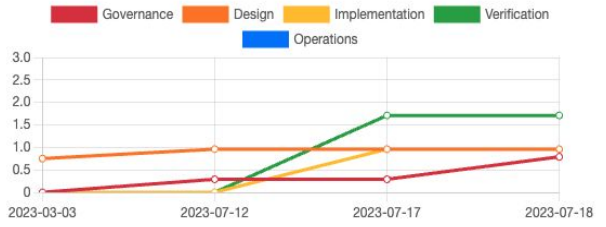
Off Full screen Off Unvalidated score

SAMM to NIST SSDF Mapping Generate Improvement Report Power BI export

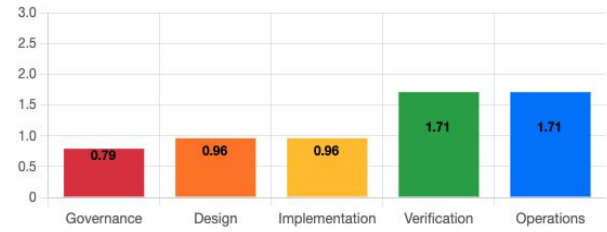
Overall Validated Score: 1.23

Compare roadmap Show improvement targets

Historic growth per business function



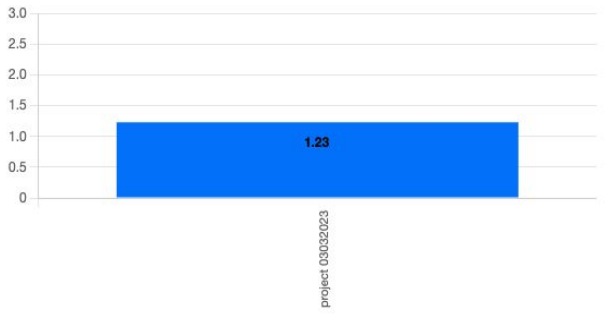
Scores per business function



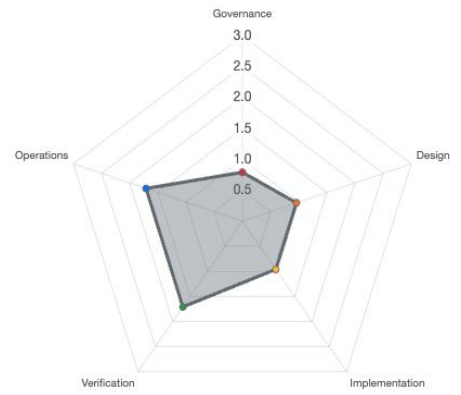
Scores per practice



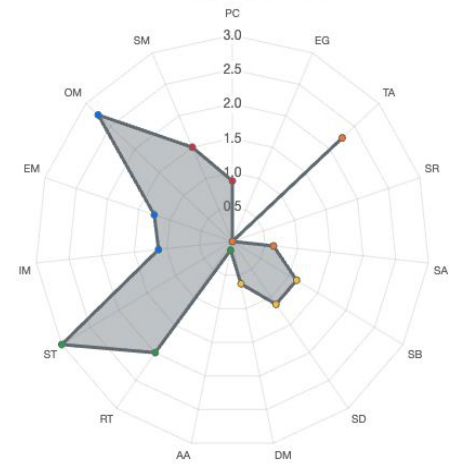
Comparison chart with other scopes



Scores per business function



Scores per practice



SAMM Benchmark

Open for data donations!



Dag Flahet · 1st

Co-Founder & CGO @Codific, Building a simple and safe...

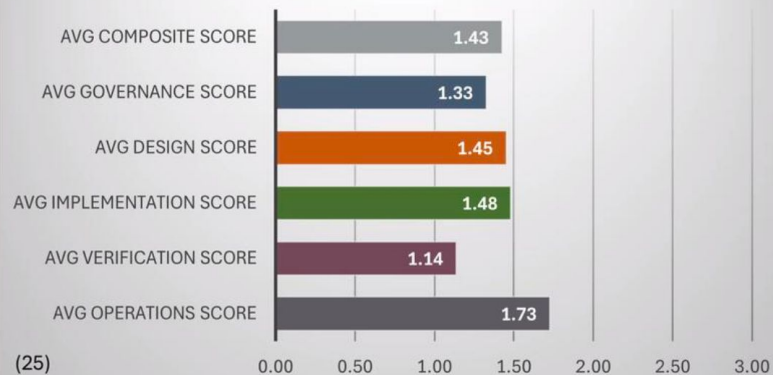
1w · 🌐

Today in the OWASP SAMM community call the first SAMM Benchmark data was shared by Brian Glas. Exciting times! So many people have been waiting for this! In case you missed it I took some notes, they are here: <https://lnkd.in/dZNxiz6t>

If you have some SAMM Assessments data you could share please do so, we want to get to 100 datasets soon (currently at 25).

Good job Brian and all of the OWASP SAMM team!

SAMM Benchmark June '24



OWASP SAMM Benchmark Data

codific.com



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SET THE TARGET

PREPARE

ASSESS

SET THE TARGET

DEFINE THE PLAN

IMPLEMENT

ROLL OUT



Purpose Develop a target score that you can use as a measuring stick to guide you to act on the most important activities for your situation

Activities

- Define the target
Set or update the target by identifying which activities your organization should implement ideally. Typically, this will include more lower-level than higher-level activities. Ensure that the total set of selected activities makes sense, and take into account dependencies between activities.
- Estimate overall impact
Estimate the impact of the chosen target on the organization. Try to express in budgetary arguments.

Resources

- SAMM roadmap chart
Worksheet (part of the SAMM Benchmark as a comparative source)
Leverage the Roadmap worksheet in the SAMM Toolbox to help calculate maturity score improvements based on future answers

Best practices

- Take into account the organization's risk profile
- Respect dependencies between activities
- As a rough measure, the overall impact of a software assurance effort is estimated at 5% to 10% of the total development cost



Recommendations from the Field

I would focus on making sure the team has **basic security training**. I would also focus on getting to maturity **level 2 for Secure Build** and **Secure Deploy** activities.

From there onwards I'd look into **security requirements** (ASVS) and requiring mandatory unit/integration tests for at least some of them. **Tooling** could also be interesting to look at or at least experiment with and to see which tools and tool categories you could add to your development processes.

Aram Hovsepyan, via [OWASP Slack channel](#)



Recommendations from the Field

Identify your **target maturity**, based on

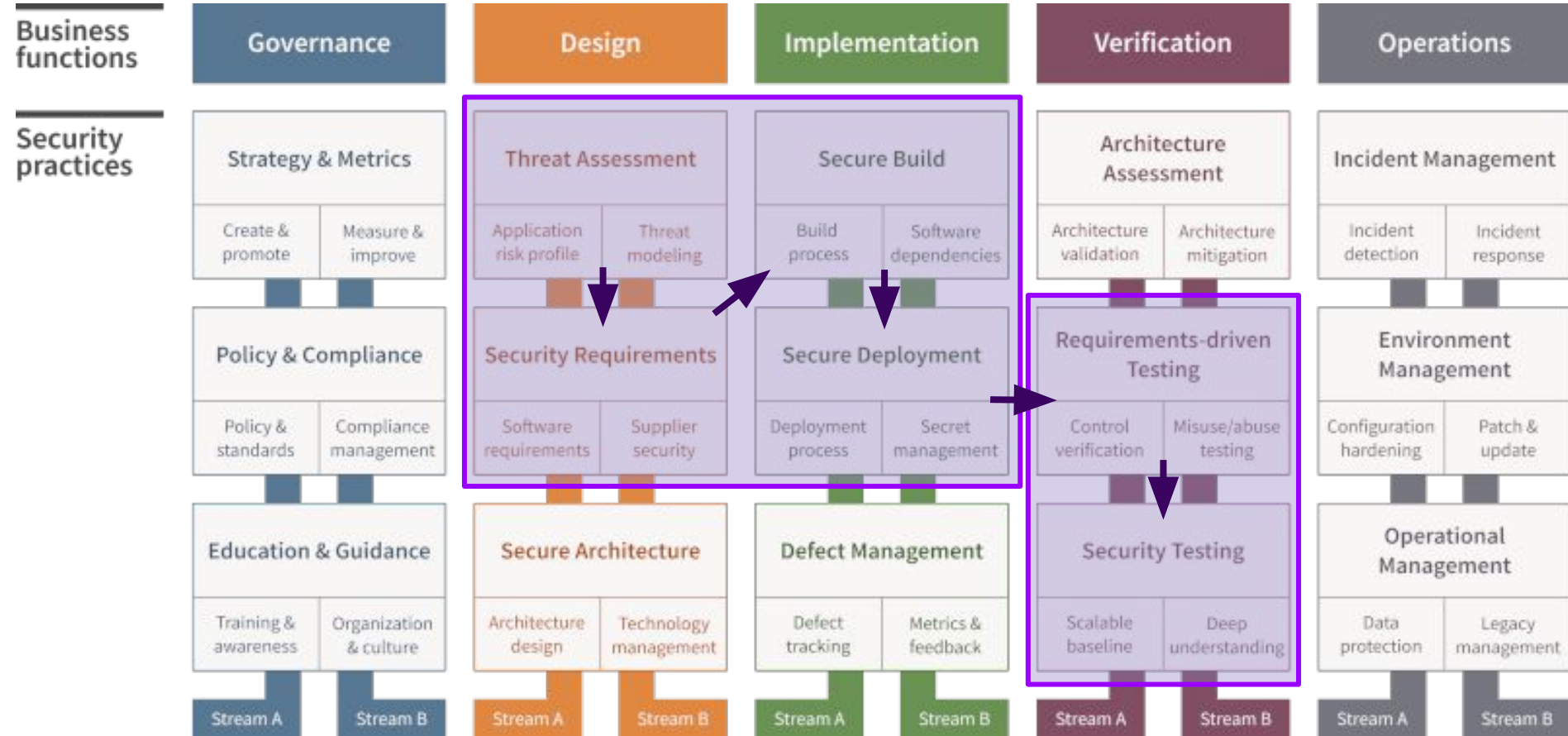
- your current capabilities
- teams involved
- tech-stack
- suppliers, etc.
- organization risk profile and appetite

Be realistic in your first target maturity and **time** horizon, based on available **budget** and willingness for **change**. There is no standard solution for this, as this is unique for every organization and its risk / compliance environment.

Seba, via [OWASP Slack channel](#)



Typical Developers' Touchpoints / "Critical Path"





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DEFINE THE PLAN

PREPARE

ASSESS

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ROLL OUT



Purpose Develop or update your plan to take your organization to the next level

Activities

Determine change schedule

Choose a realistic change strategy in terms of number and duration of phases. A typical roadmap consists of 4 to 6 phases for 3 to 12 months.

Develop/update the roadmap plan

Distribute the implementation of additional activities over the different roadmap phases, taking into account the effort required to implement them. Try to balance the implementation effort over the different periods, and take dependencies between activities into account.

Resources

Best practices

Identify activities that can be completed quickly and successfully early in the project

Start with awareness / training

Adapt to coming release cycles / key projects



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IMPLEMENT

PREPARE

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SET THE TARGET

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ROLL OUT



Purpose Work the plan

Activities

Implement activities

Implement all activities that are part of this period. Consider their impact on processes, people, knowledge, and tools. The SAMM model contains prescriptive advice on how to do this. OWASP projects may help to facilitate this.

Resources

Best practices

Treat legacy software separately. Do not mandate migration unless really important.

Avoid operational bottlenecks, particularly for the security team



FAQ: OWASP SAMM vs. OWASP DSOMM

Identification of the degree of the implementation



DSOMM

The [DSOMM framework](#) (DevSecOps Maturity Model) consists of four levels of DevSecOps maturity. Each level represents a distinct stage in the evolution of security integration, ranging from basic awareness and ad-hoc practices to advanced, fully integrated, and automated security processes. **These levels provide a roadmap for organizations to systematically enhance their security posture within the DevOps framework.**



Sample Target Groups

SAMM	DSOMM
“Standard”, OWASP Flagship Project	“Emerging”, OWASP Lab Project
High Level Overview	Low Level Overview
Management Topics like Compliance & Governance	Only DevSecOps Topics
Planning of High Level Targets	Planning of Concrete Targets
Works “Out of the Box”	Needs Customization



Recommendation from Timo Pagel

1. Assess and plan security strategy with SAMM
2. Adapt DSOMM

Source: <https://www.youtube.com/watch?v=MizENOyyIZI>



Browser tabs: OWASP SAMM - C, Strategic use of O, OWASP SAMM Fun, Notifications | Link, Rob van der Veer, SAMMY - the x, OWASP Devsecop, Use 'Requirement', cve meaning - Go, Open CRE

URL: sammy.codific.com/browse/297

Navigation: Dashboard, Assessment, Reporting, Manage

Left Sidebar: Governance (Strategy and Metrics, Policy and Compliance, Education and Guidance), Design, Implementation, Verification, Operations

Create and Promote

Measure and Improve

Maturity Level 1 | Maturity Level 2 | Maturity Level 3

Identify the organization's risk appetite

? Do you understand the enterprise-wide risk appetite for your applications?

- You capture the risk appetite of your organization's executive leadership
- The organization's leadership vet and approve the set of risks
- You identify the main business and technical threats to your assets and data
- You document risks and store them in an accessible location

No

Yes, it covers general risks

Yes, it covers organization-specific risks

Yes, it covers risks and opportunities

Description

OWASP Team guidance

This is the official guidance provided by the OWASP SAMM Team.

OpenCRE 635-851 for references and related topics

[OpenCRE 635-851 for references and related topics](#)

OWASP DSOMM

[OWASP DSOMM](#)

DSOMM is a complementary framework to SAMM focused on DevSecOps.

The DevSecOps Maturity Model (DSOMM) shows security measures which are applied when using DevOps strategies and how these can be prioritized. With the help of DevOps strategies security can



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ROLLOUT



PREPARE

ASSESS

SET THE TARGET

DEFINE THE PLAN

IMPLEMENT

ROLL OUT



Purpose Ensure that improvements are available and effectively used within the organization

Activities

Evangelize improvements

Make the steps and improvements visible for everyone involved by organizing trainings and communicating with management stakeholders.

Measure effectiveness

Measure the adoption and effectiveness of implemented improvements by analyzing usage and impact.

Resources

Best practices

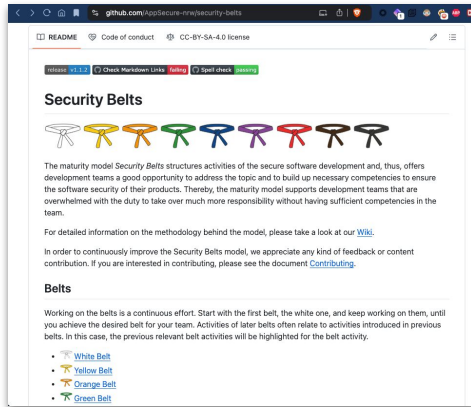
Categorize applications according to their impact on the organization. Focus on high-impact applications.

Use team champions to spread new activities throughout the organization.



Tipp: Security Champions Program

1. Gamification, Competition & Incentivation
2. CTF / Capture the Flag events
3. "Security Belts" approach



OWASP SAMM Project Cycle



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OpenCRE

Open Common Requirement Enumeration

<https://opencre.org>

Browser tabs: OWASP SAMM - C, Strategic use of O, OWASP SAMM Fun, Notifications | Link, Rob van der Veer, SAMMY - the x, OWASP Devsecop, Use 'Requirement', cve meaning - Go, Open CRE

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Create and Promote

Maturity Level 1 (Active) | Maturity Level 2 | Maturity Level 3

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Open Common Requirement Enumeration

The Open Source project “OpenCRE ” **links all security standards and guidelines together** at the level of requirements into one harmonized resource: threats, weaknesses, what to verify, how to program, how to test, which tool settings, in-depth discussion, training material. Everything organized.

<https://opencre.org>

Naming is probably derived from CWE and CVE, common in the industry.

CVE = Common Vulnerabilities and Exposures

CWE = Common Weakness Enumeration



Map Analysis

Base: <input type="text" value="SAMM"/>	Compare: <input type="text" value="DevSecOps Maturity Model (DSOMM)"/>	<input type="button" value="Copy link to analysis"/>
Standard : SAMM : D-SA-A : Architecture Design	<p>Standard : DevSecOps Maturity Model (DSOMM) : 3f63bdbc-c75f-4780-a941-e6ad42e894e1 : Process : Approval by reviewing any new version (Strong:1)</p> <p>Standard : DevSecOps Maturity Model (DSOMM) : 0a929c3e-ab9a-4206-8761-adf84b74622e : Design : Creation of advanced abuse stories (Strong:2)</p> <p>Standard : DevSecOps Maturity Model (DSOMM) : 47419324-e263-415b-815d-e7161b6b905e : Design : Conduction of simple threat modeling on technical level (Strong:2)</p> <p>Standard : DevSecOps Maturity Model (DSOMM) : 48f97f31-931c-46eb-9b3e-e2fec0cd0426 : Design : Conduction of simple threat modeling on business level (Strong:2)</p> <p>Standard : DevSecOps Maturity Model (DSOMM) : ae22dafd-bcd6-41ee-ba01-8b7fe6fc1ad9 : Design : Conduction of advanced threat modeling (Strong:2)</p> <p>Standard : DevSecOps Maturity Model (DSOMM) : bacf85b6-5bc0-405d-b5ba-a5d971467cc1 : Design : Creation of simple abuse stories (Strong:2)</p> <p>Standard : DevSecOps Maturity Model (DSOMM) : dd5ed7c1-bdbf-400f-b75f-6d3953a1a04e : Design : Creation of threat modeling processes and standards (Strong:2)</p> <p>Standard : DevSecOps Maturity Model (DSOMM) : f88d1b17-3d7d-4c3d-8139-ad44fc4942d4 : Education and Guidance : Regular security training of security champions (Strong:2)</p> <p><input type="button" value="Show average and weak links (933)"/></p>	
Standard : SAMM : D-SA-B : Technology Management	<p>Standard : DevSecOps Maturity Model (DSOMM) : 03643ca2-03c2-472b-8e19-956bf02fe9b7 : Application Hardening : App. Hardening Level 2 (75%) (Strong:2)</p> <p>Standard : DevSecOps Maturity Model (DSOMM) : 3f63bdbc-c75f-4780-a941-e6ad42e894e1 : Process : Approval by reviewing any new version (Strong:2)</p> <p>Standard : DevSecOps Maturity Model (DSOMM) : 4cae98c2-4163-44ed-bb88-3c67c569533a : Application Hardening : App. Hardening Level 3 (Strong:2)</p> <p>Standard : DevSecOps Maturity Model (DSOMM) : b597928e-54d6-48a5-a806-8003dcd56aab : Application Hardening : App. Hardening Level 1 (50%) (Strong:2)</p> <p>Standard : DevSecOps Maturity Model (DSOMM) : cf819225-30cb-4702-8e32-60225eedc33d : Application Hardening : App. Hardening Level 1 (Strong:2)</p> <p>Standard : DevSecOps Maturity Model (DSOMM) : e1f37abb-d848-4a3a-b3df-65e91a89dcb7 : Application Hardening : Contextualized Encoding (Strong:2)</p> <p>Standard : DevSecOps Maturity Model (DSOMM) : f0e01814-3b88-4bd0-a3a9-f91db001d20b-advanced : Infrastructure Hardening : WAF Advanced (Direct:0)</p> <p>Standard : DevSecOps Maturity Model (DSOMM) : f0e01814-3b88-4bd0-a3a9-f91db001d20b : Infrastructure Hardening : WAF baseline (Strong:2)</p> <p>Standard : DevSecOps Maturity Model (DSOMM) : f0e01814-3b88-4bd0-a3a9-f91db001d20b : Infrastructure Hardening : WAF medium (Strong:2)</p> <p>Standard : DevSecOps Maturity Model (DSOMM) : ffe86caf-2fec-4630-b514-2db83983984d : Application Hardening : App. Hardening Level 2 (Strong:2)</p> <p><input type="button" value="Show average and weak links (960)"/></p>	
Standard : SAMM : D-SR-A : Software Requirements	<p>Standard : DevSecOps Maturity Model (DSOMM) : 03643ca2-03c2-472b-8e19-956bf02fe9b7 : Application Hardening : App. Hardening Level 2 (75%) (Direct:0)</p> <p>Standard : DevSecOps Maturity Model (DSOMM) : 4cae98c2-4163-44ed-bb88-3c67c569533a : Application Hardening : App. Hardening Level 3 (Direct:0)</p> <p>Standard : DevSecOps Maturity Model (DSOMM) : b597928e-54d6-48a5-a806-8003dcd56aab : Application Hardening : App. Hardening Level 1 (50%) (Direct:0)</p> <p>Standard : DevSecOps Maturity Model (DSOMM) : cf819225-30cb-4702-8e32-60225eedc33d : Application Hardening : App. Hardening Level 1 (Direct:0)</p> <p>Standard : DevSecOps Maturity Model (DSOMM) : e1f37abb-d848-4a3a-b3df-65e91a89dcb7 : Application Hardening : Contextualized Encoding (Direct:0)</p>	

Generally: lower is better

Direct: Directly Linked

Strong: Closely connected likely to have majority overlap

Average: Connected likely to have partial overlap

Weak: Weakly connected likely to have small overlap





snyk

THANK YOU
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