

**SYNOPSYS**<sup>®</sup>

Webinar

# DevSecOps Explained



Online  
STATISTIC

4675,6843986908  
5466588,684858  
2355,684365808

23575,6679  
0987,68454570-08

44565,684078098098  
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ANALYSIS OF THE SOURCE FILE

10,085 10,547 13,078 16,0267



# What is DevSecOps?



# Gartner definitions

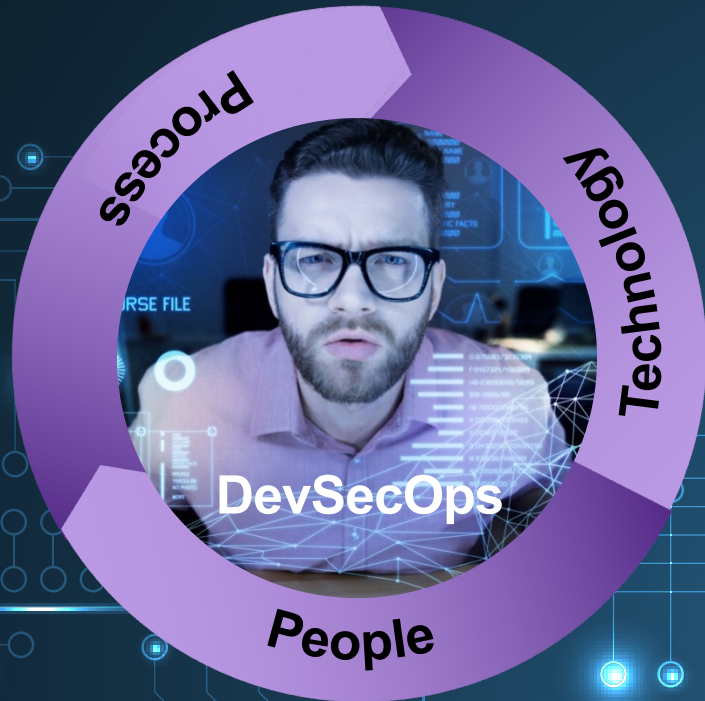
**DevOps**—a change in IT culture focusing on rapid IT service delivery through the adoption of agile, lean practices in the context of a system-oriented approach.

**DevSecOps**—information security architects integrating security at multiple points into DevOps workflows in a collaborative way that is largely transparent to developers, and preserving the teamwork, agility, and speed of DevOps and agile development environments.

Security activities must be an integral part of DevSecOps, and DevOps teams must own security in the same way they own development and operations.



# DevSecOps: A shift in culture



## CALMS

**C**ollaboration, **C**ontinuous feedback

**A**utomation sets up a converged software supply chain that is both reliable and repeatable

**L**ean, **L**earning from broken integrations, unacceptable metrics, and critical security issues

**M**easurement

**S**haring goes hand-in-hand with the basic definition of DevSecOps

# The DevSecOps market problem

- Lack of awareness
- Organizational silos
- Complexity of modern applications
- Resource constraints
- Cultural change across organization



# Why DevSecOps is important



-  Security
-  Cost-effective
-  Faster time-to-market
-  Compliance
-  Improved collaboration

# Steps involved



Planning



Development

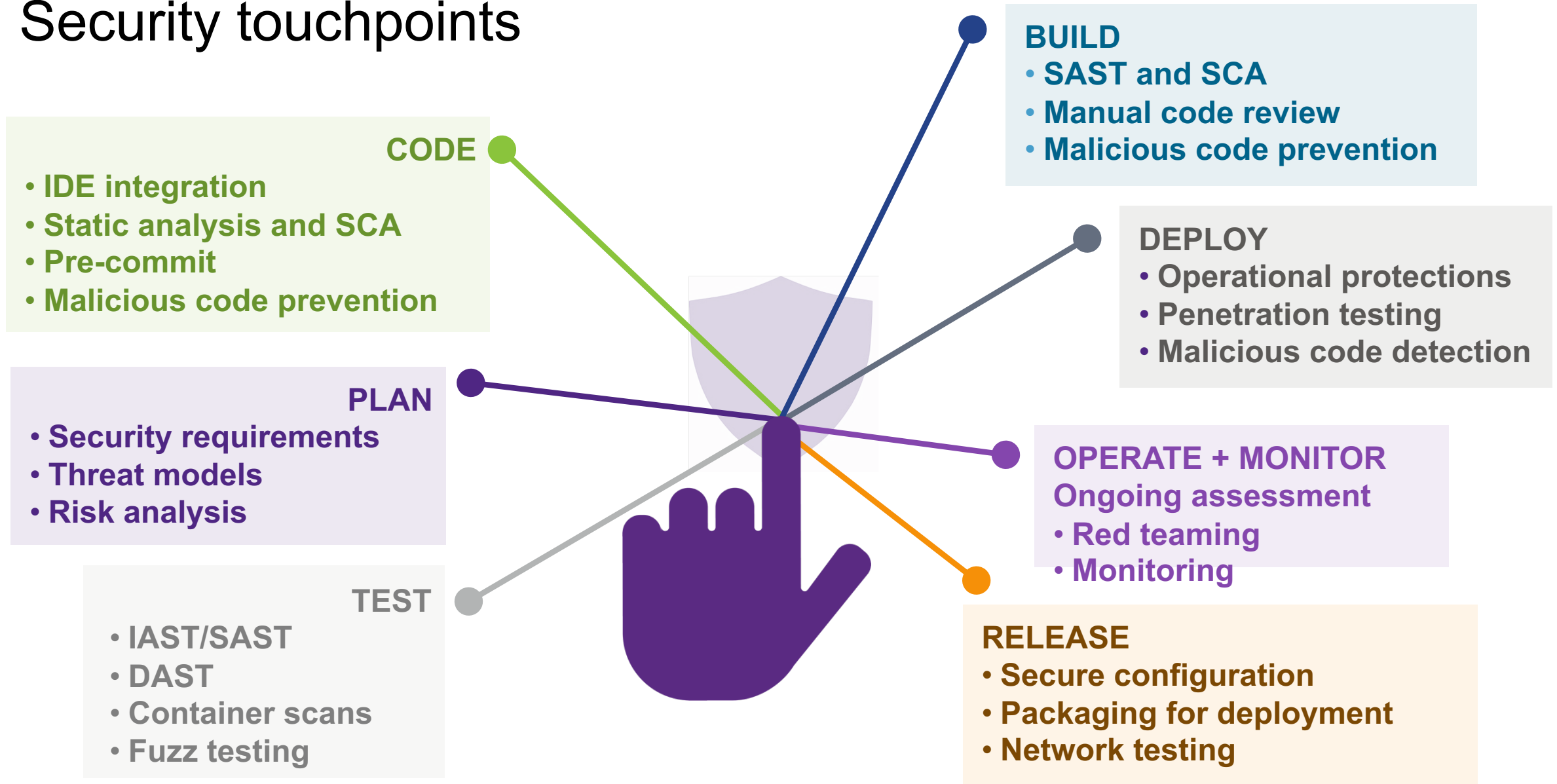


Continuous integration and  
Continuous deployment (CI/CD)



Operations and maintenance

# Security touchpoints





# Recommended best practices



Start with a clear plan



Emphasize collaboration



Prioritize automation



Integrate security at every stage



Make security a shared responsibility



Monitor and assess risks continuously



Stay up-to-date



Foster a culture of security

# Key takeaways

- Adopting DevSecOps means shifting organization's culture towards **CALMS**
  - Culture, Automation, Lean, Learning, Measurement, and Sharing
- Achieving successful DevSecOps is dependent on all three pillars
  - **people, process, and technology**
- Stakeholder enablement and **continuous collaboration** are key factors in building the people pillar of DevSecOps
- **Automation of tools and processes**, along with appropriate security checkpoints in CI/CD pipeline, mark the way forward for successful DevSecOps
- **Process pillar** of DevSecOps focuses on using technology to implement workflows such as breaking builds, approving artifacts, or conducting out-of-band activities
- **Defect management and metrics** dashboards can be used as a communication mechanism for all stakeholders to view project status and make go/no-go decisions



# Questions?



# Thank You

