

FORTIFY



# Eszközök és módszerek a biztonságos alkalmazásokért

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# We aren't saying Application Security is easy...

It's a (long) process

Varies by organization  
(size, dev style, culture,  
AppSec maturity, etc)

## Get Started with Seamless AppSec in One Day

We simplified the  
story

NOT easy (no silver  
bullet)

**...but you can start in a day and make significant progress**

# There is a major breach almost every week!

## World's Biggest Data Breaches & Hacks

Select losses greater than 30,000 records  
(updated Dec 5th 2018)



Colour YEAR DATA SENSITIVITY Filter

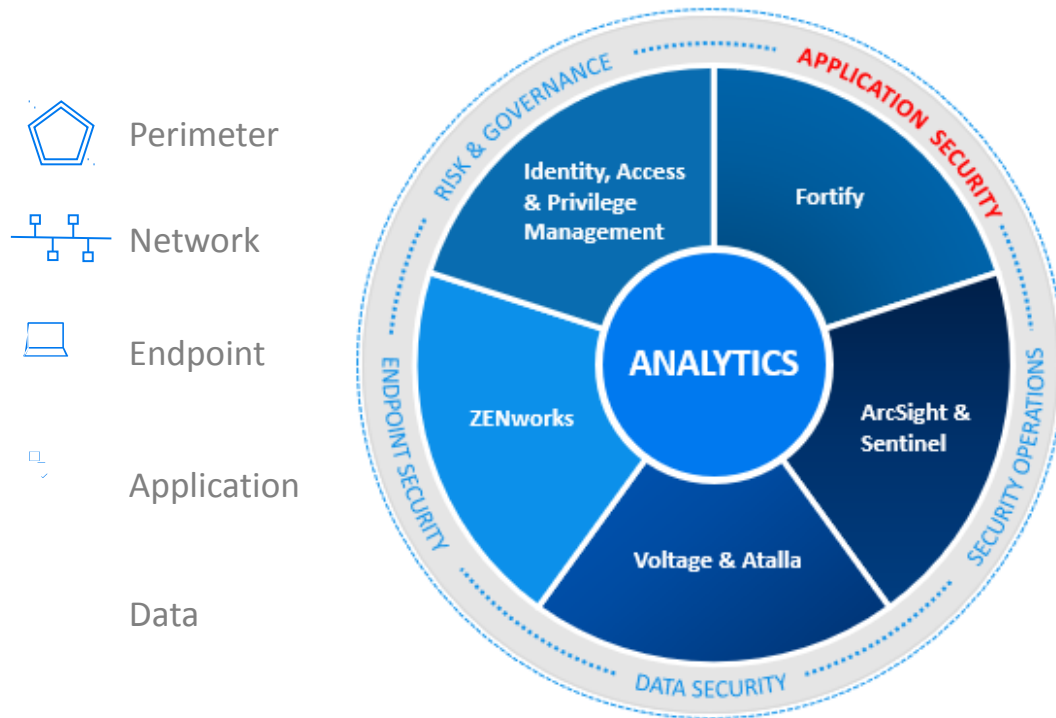
Search...



Source: <https://informationisbeautiful.net/visualizations/worlds-biggest-data-breaches-hacks/> Data for 2017-2018

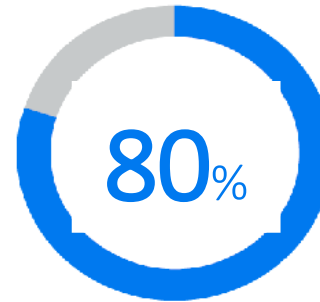
# Application security is more important than ever

The majority of security breaches today are from application vulnerabilities



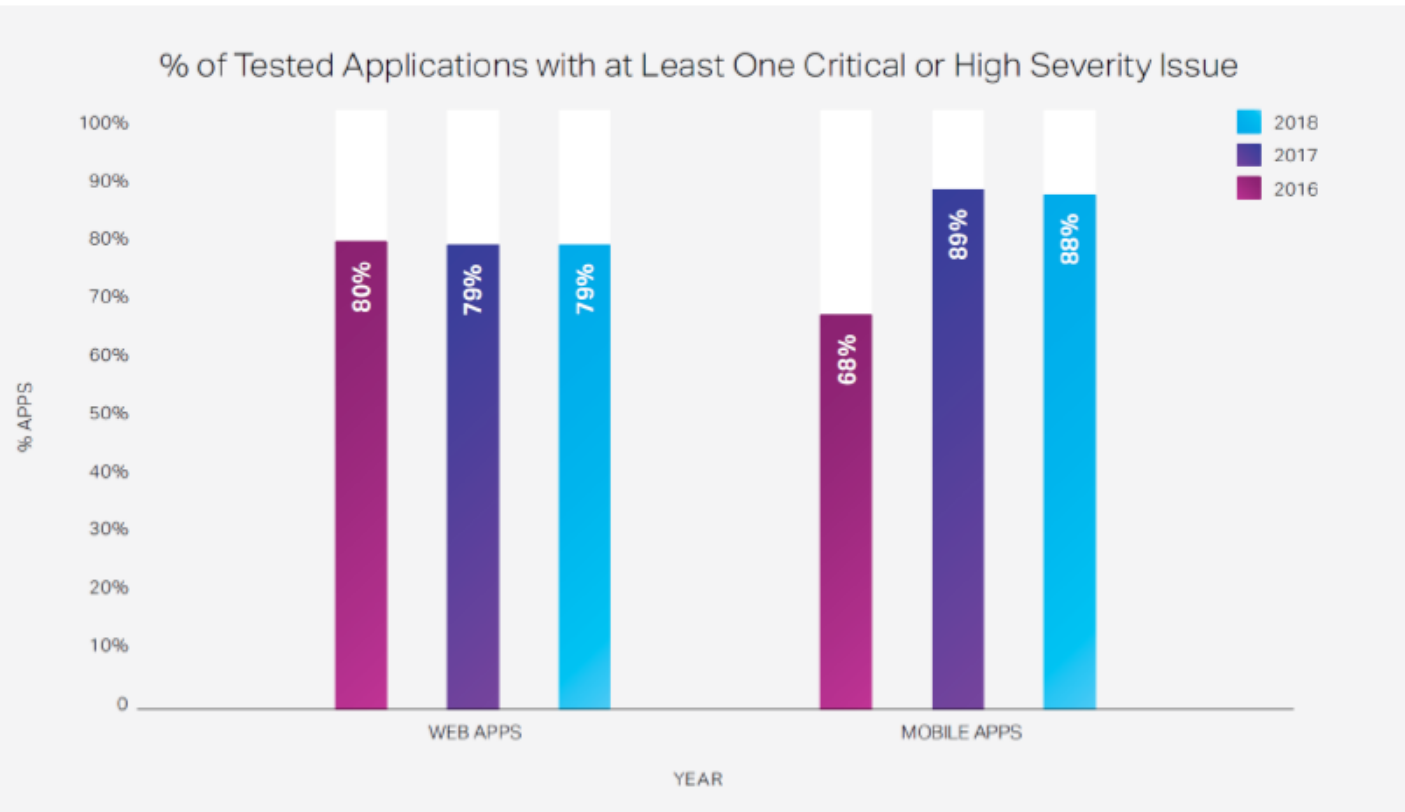
90%

Percentage of security incidents from exploits against defects in the design or code of software.<sup>1</sup>



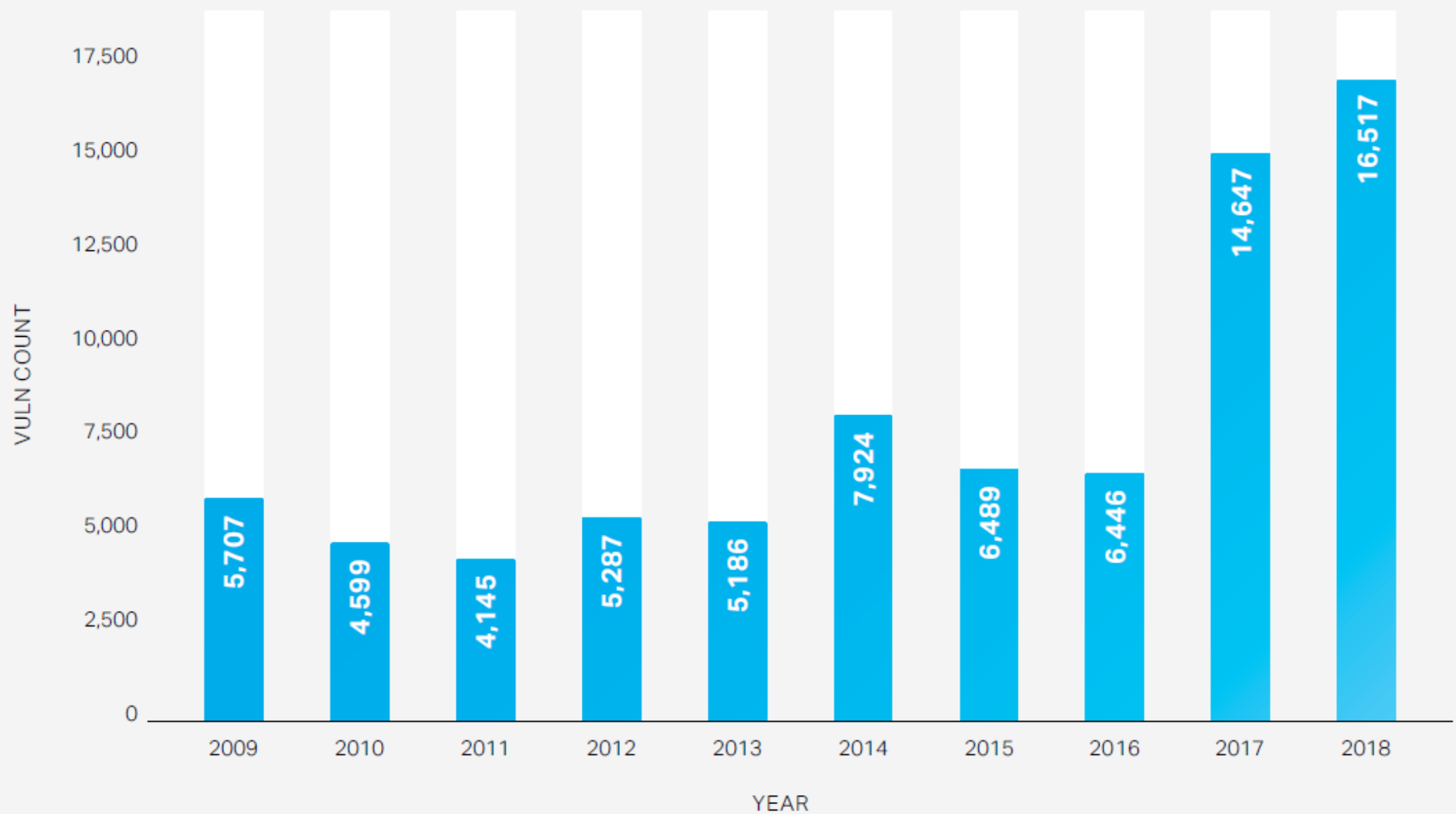
Percentage of applications containing at least one critical or high vulnerability.<sup>2</sup>

# Severe weaknesses prevalent in majority



Proactive approaches to application security consistently identify critical issues (known-unknowns).

## Vulnerability Reports to NVD, 2009 to 2018



Next we compared the top 10 vulnerability categories with critical or high severity only.

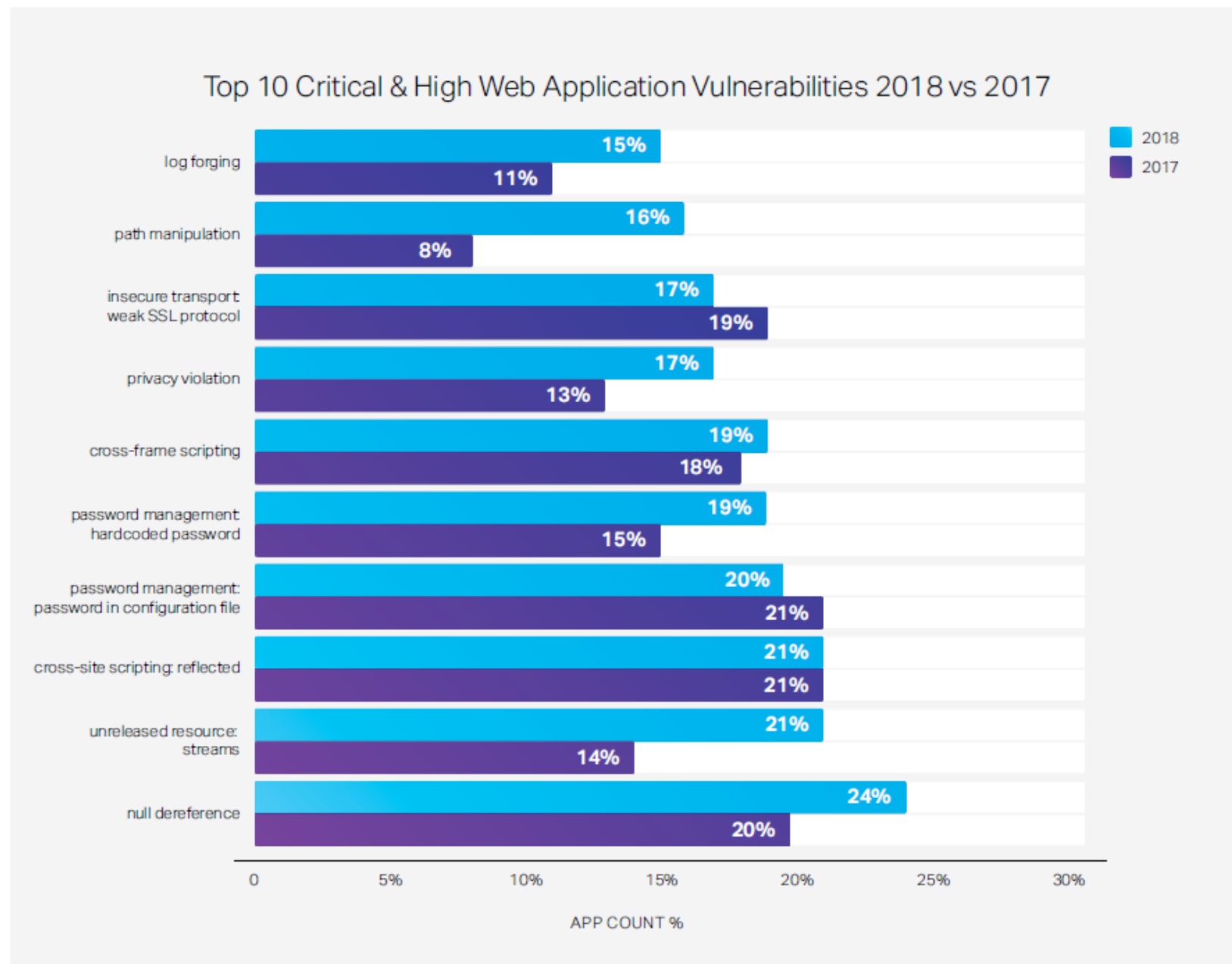
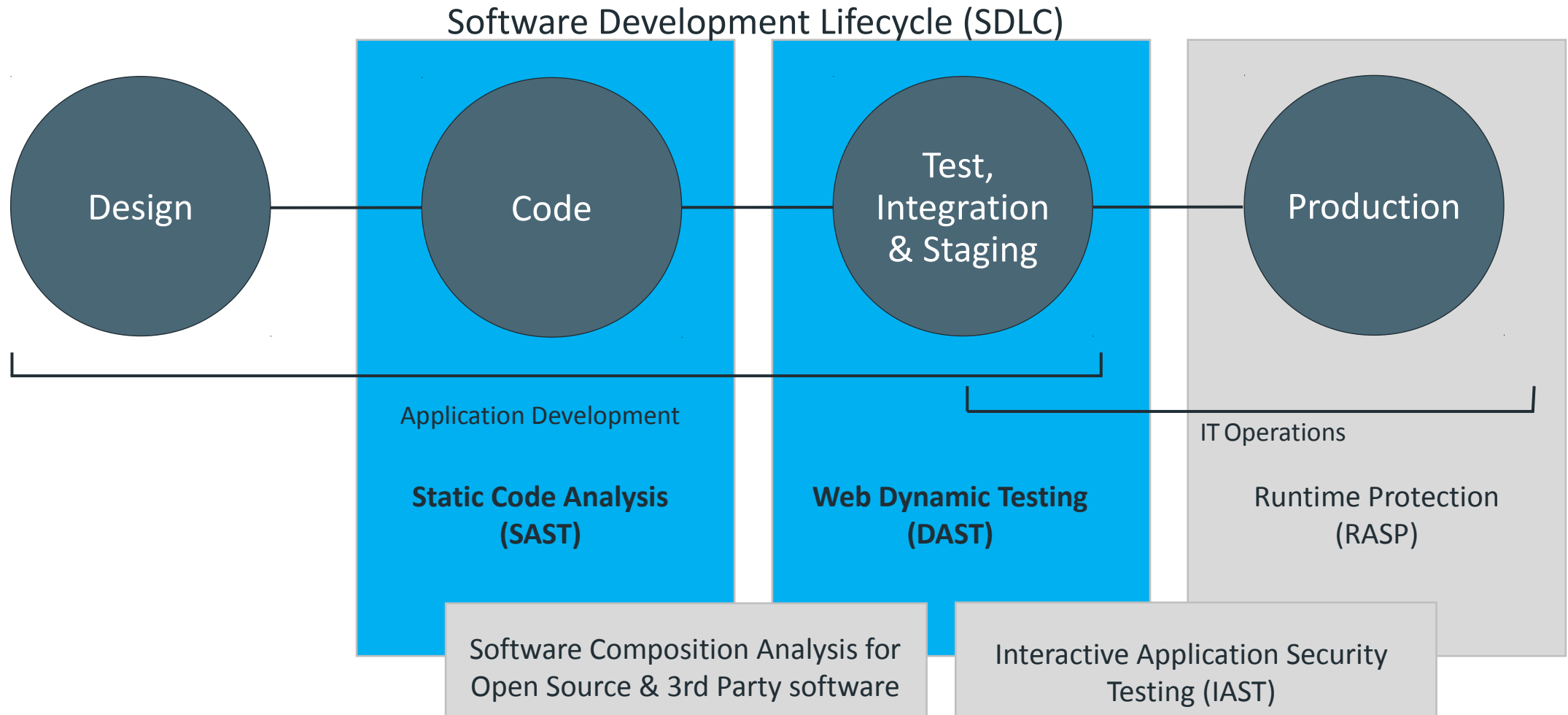


Figure 21. Critical and High issues in web applications 2018 vs 2017

# Build Security INTO the software lifecycle

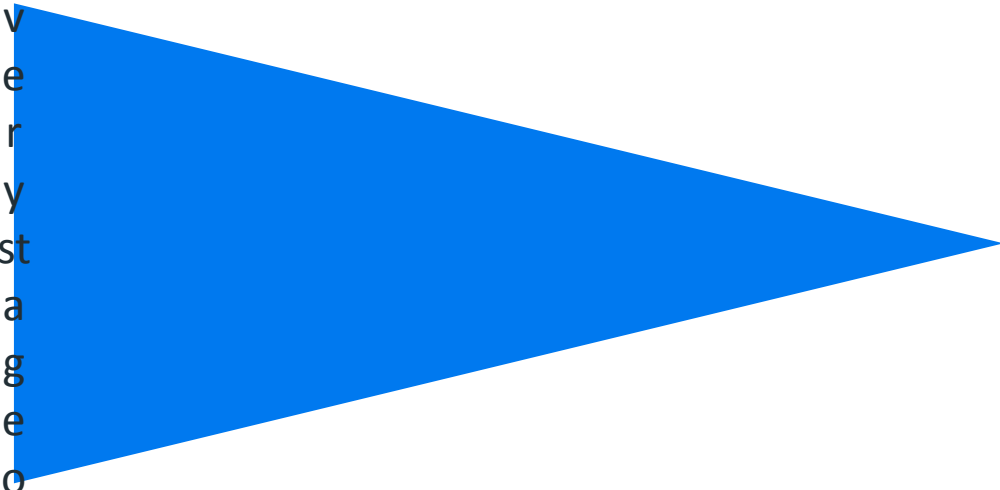




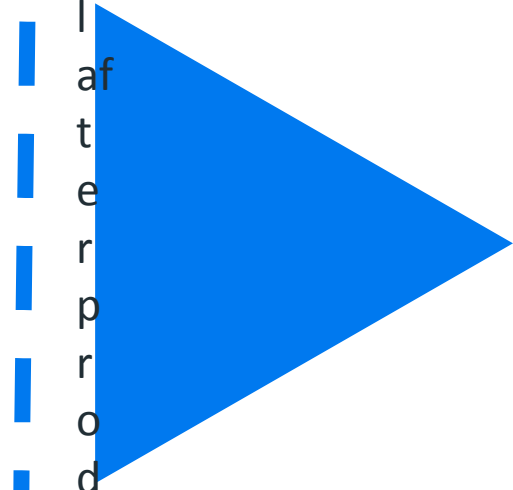
# “Shift Left” earlier in development lifecycle means faster & cheaper

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**\* But...35% test less than half of their apps**



# Getting Started in One Day

# What can you do today?

1. Follow an Established Maturity Model
2. Identifying Your Security Champions
3. Assessment Exercise
4. Define Your Initial Scope
5. Find the Right Tools to Fit These Requirements

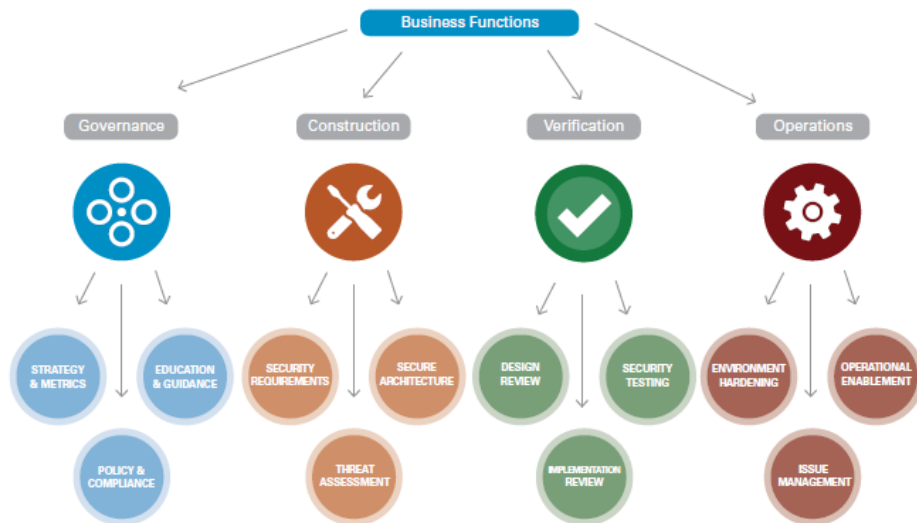




# 1. Maturity Model

# Start with a Security Maturity Model

OWASP SAMM (Software Assurance Maturity Model)



<https://owasp samm.org/>

BSIMM: (Building Security in Maturity Model)



CLOUD VS. HEALTHCARE SPIDER CHART



<https://www.bsimm.com/>



## 2. Security Champions

# What is a Security Champion?

## According to OWASP

“Security Champions are active members of a team that may help to make decisions about when to engage the Security Team”

# Why are Security Champions Important?

- Scaling Security Through Multiple Teams
- Engaging “Non-Security” Folks
- Establishing a Security Culture

# OWASP Security Champion Playbook

The Security Champions Playbook describes the main steps for fast establishment of a Security Champions program regardless of the **company size** and **maturity** of the existing security processes.







## 3. Security Assessment

# Types of Assessments

- Internal
- 3rd Party Vendor

# Preparing for an Assessment

- Create a core assessment team
- Review existing security policies
- Create a database of IT assets
- Understand threats and vulnerabilities
- Estimate the Impact
- Determine the likelihood
- Plan the controls



## 4. Define Your Initial Scope

# Define Your Initial Scope

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What Applications and Development Teams to Start with

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Whether to use SAST, DAST

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What Integrations are Crucial for your organization

---

As a Service, On-Premise, or Hybrid

---

Enabling Your Developers

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What does success look like for your organization?



## 5. Find the right tools

# Fortify provides Seamless Application Security

## Easy to Get Started

- Start in a day with Fortify on Demand with actionable results

## Easy to Use

- Real-time security in the IDE for developers with Security Assistant
- Robust integration ecosystem

## Fast

- Get scan results in minutes
- Adjust scans to achieve desired coverage for both SAST and DAST
- Apply machine learning to identify and prioritize the most relevant issues with Audit Assistant

## Accurate

- OWASP Benchmark: Fortify SCA true positive rate is 100%

## Scalable

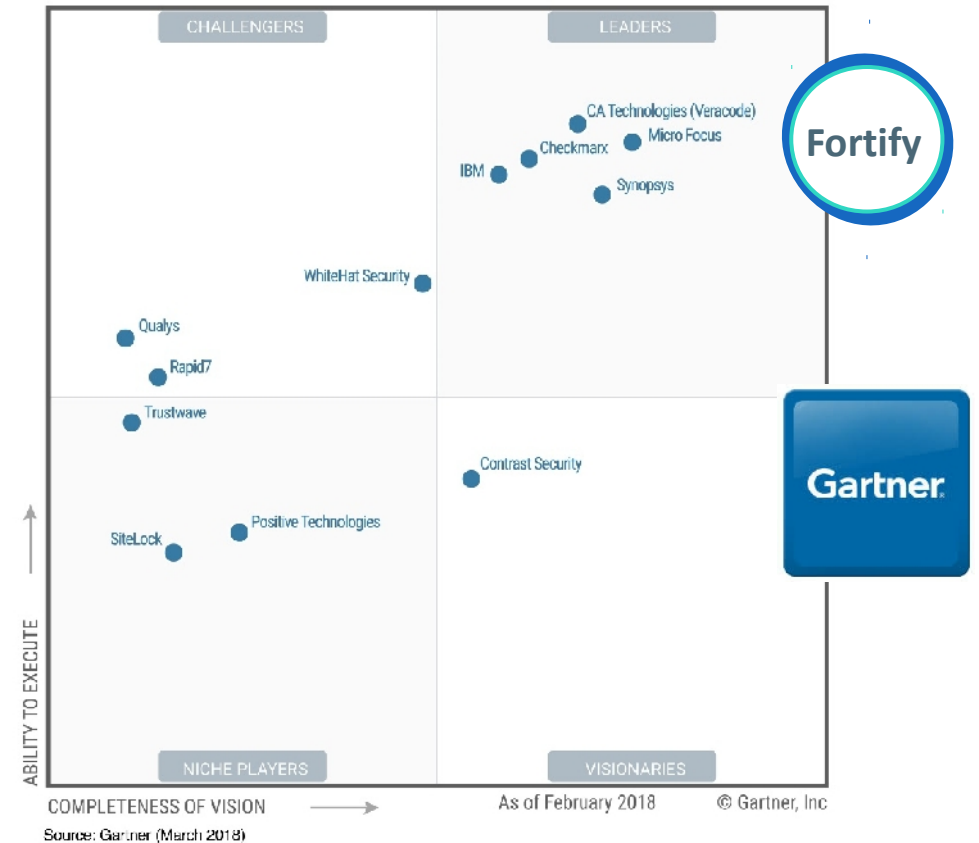
- SaaS, on-premise, or hybrid
- Flexible to grow

# Fortify is recognized for delivering value

- 10 out of 10 of the largest information technology companies
- 9 out of 10 of the largest banks
- 4 out of 5 of the largest pharmaceutical companies
- 3 out of 3 of the largest independent software vendors
- 5 out of 5 of the largest telecommunication companies

## 2018 Gartner Magic Quadrant for AST

Figure 1. Magic Quadrant for Application Security Testing





**Köszönöm a figyelmet**

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