

A man in a light-colored suit jacket and a fedora hat is walking away from the camera on a dark, geometric floor. The floor is composed of large, dark grey tiles with light-colored grout lines. The background is dark and moody, suggesting an indoor setting with dramatic lighting. The overall tone is professional and serious.

State of Software Security 2023

# At A Glance

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In the State of Software Security 2023, we used hard data to establish what factors go into flaw introduction, faster remediation, and lower security debt.

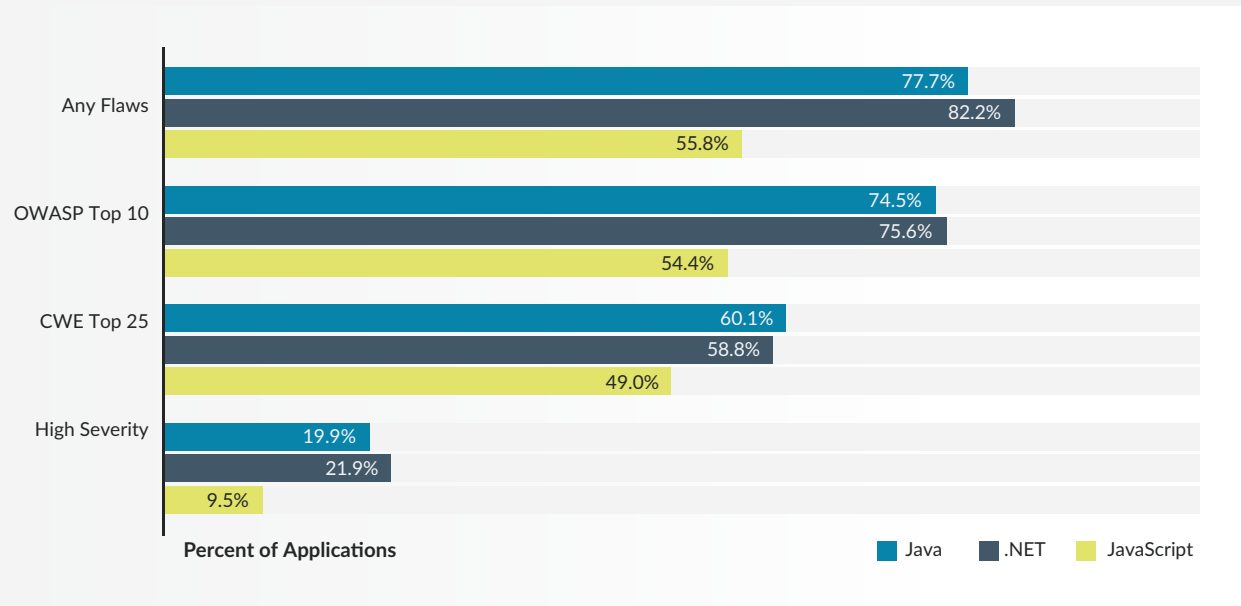
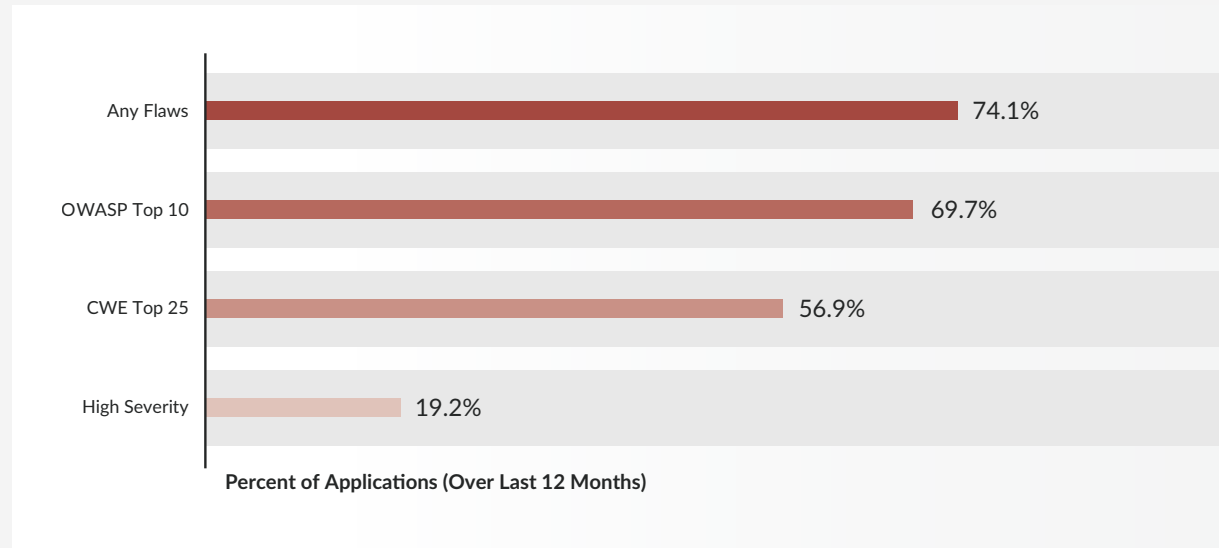
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## Flaw Prevalence

Over 74% of applications have at least one security flaw found in the last scan over the last 12 months.

These include over 69% have at least one OWASP Top 10 flaw, and over 56% have at least one CWE Top 25 flaw.



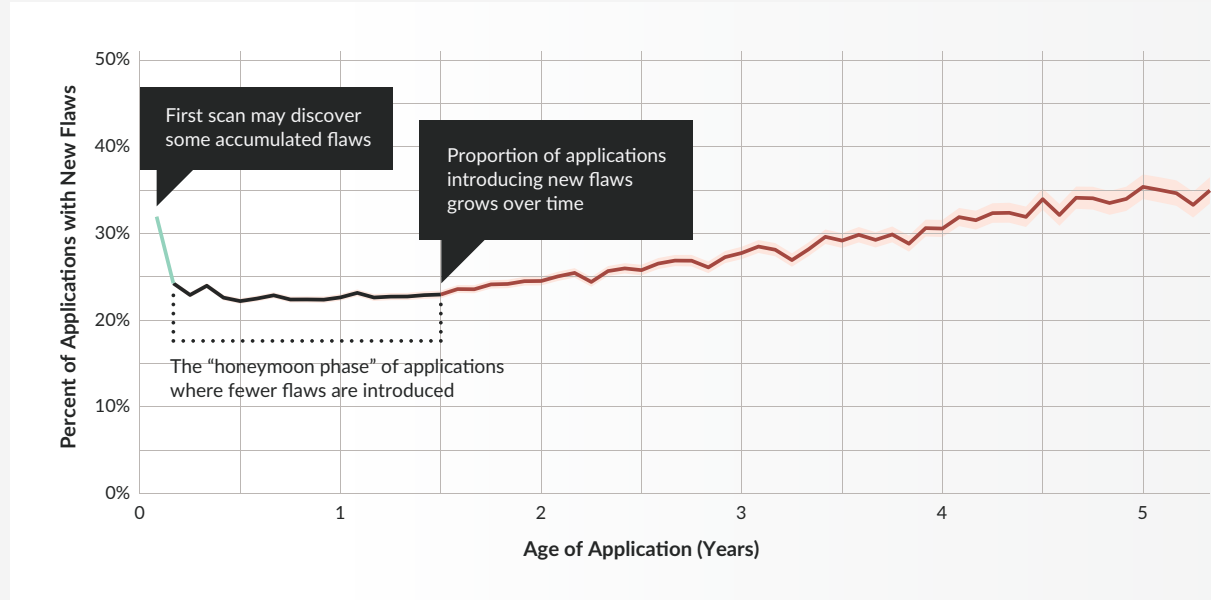
## Flaw Prevalence by Language

JavaScript generally has fewer flaws with just over half of applications with any flaws reported, while about four out of five Java and .NET applications have any flaws.

## Flaw Introduction by Age of Applications

While over 30% of applications show flaws at the first scan, this number drops to approximately 22% shortly after before rising to 30% again at four years.

The number of applications with new flaws then increases further to approximately 35% of applications over four and a half years old.



### Scan Frequency



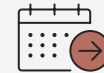
Scans Last Month

0.4%

Reduction in the **probability** that that new flaws will be introduced into applications \*

1.6%

Reduction in the **number** of flaws introduced when flaws are introduced into the application



Every Month Since Last Scan

1.3%

Increase in the **probability** that that new flaws will be introduced into applications \*

5.1%

Increase in the **number** of flaws introduced when flaws are introduced into the application

\*From a base of 27% in any given month.

## Application Size by Age of Applications

Applications grow in size by about 40% year on year irrespective of their original size.

### Developer Education



Completion of 10 Security Labs Trainings

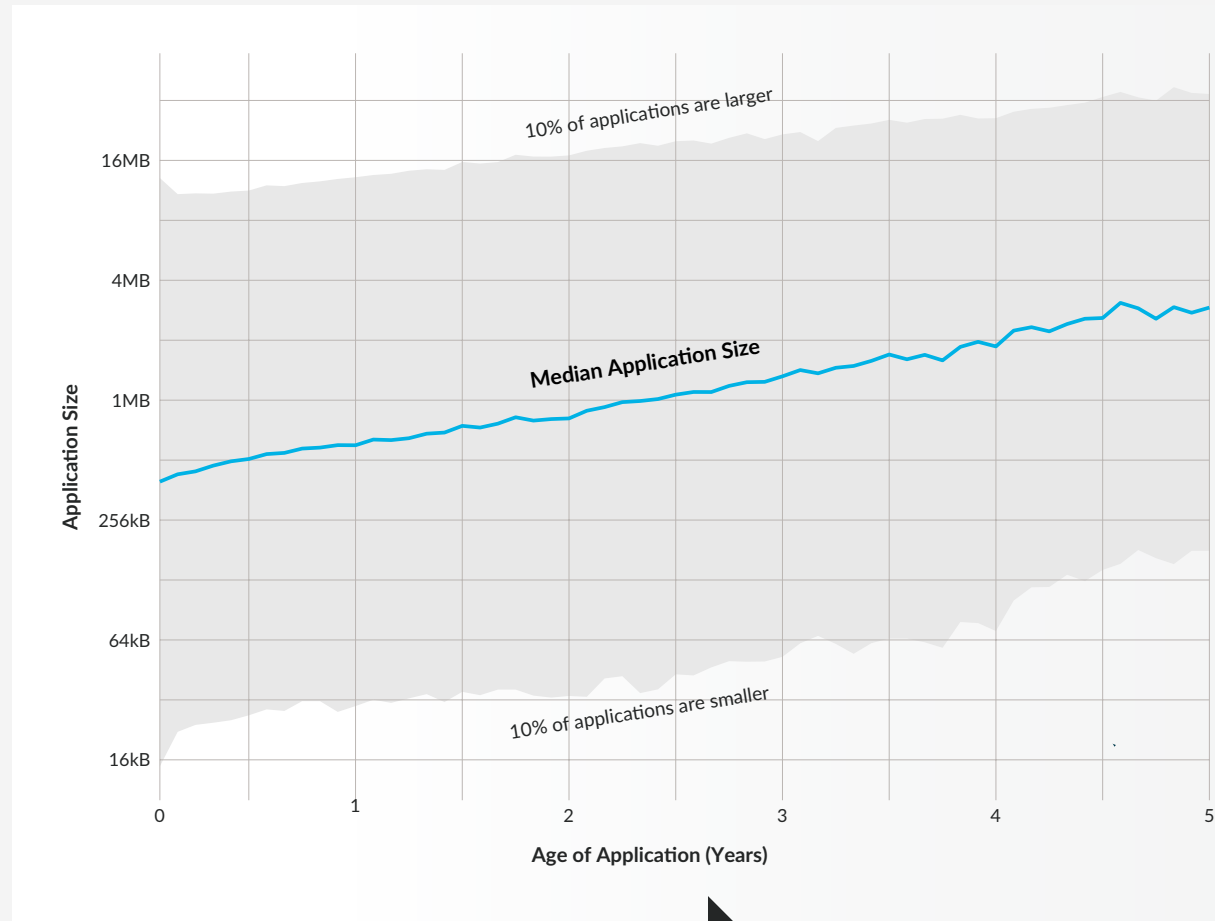
# 1.8%

Reduction in the **probability** that that new flaws will be introduced into applications \*

# 12.1%

Reduction in the **number** of flaws introduced when flaws are introduced into the application

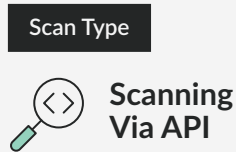
\*From a base of 27% in any given month.



Age of application is the number of years on the Veracode Platform

## Top Flaws by Scan Type

The top flaws vary markedly by scan type. While this is not news, it does highlight the importance of using a variety of scan types to ensure finding hard-to-identify flaws that may only be detectable by one type of scan.



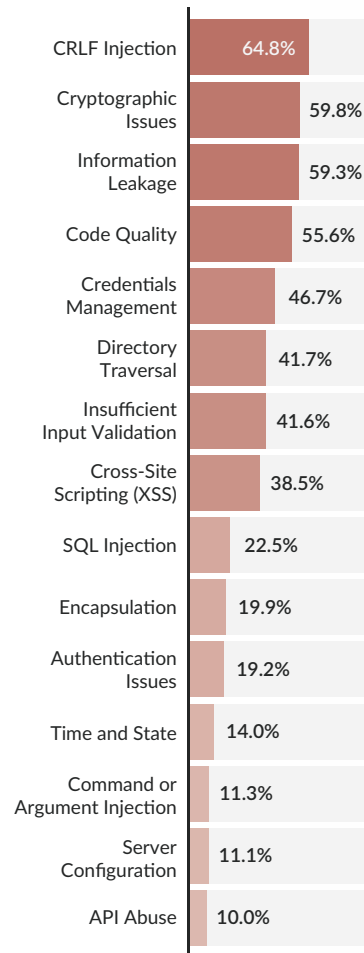
2.0

Reduction in the **probability** that that new flaws will be introduced into applications \*

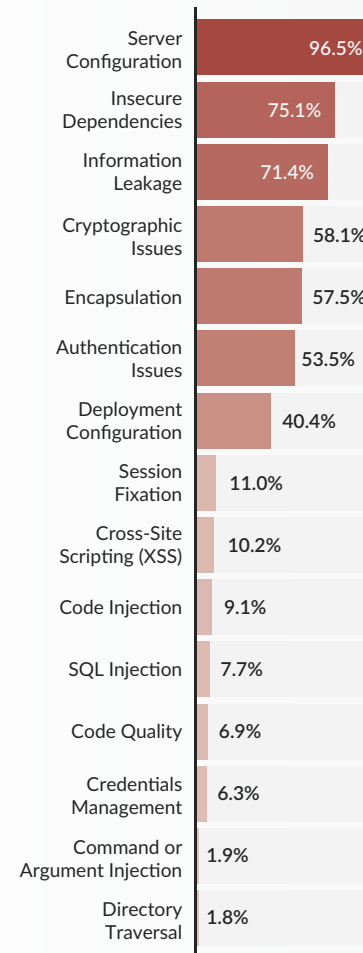
17.9

Reduction in the **number** of flaws introduced when flaws are introduced into the application

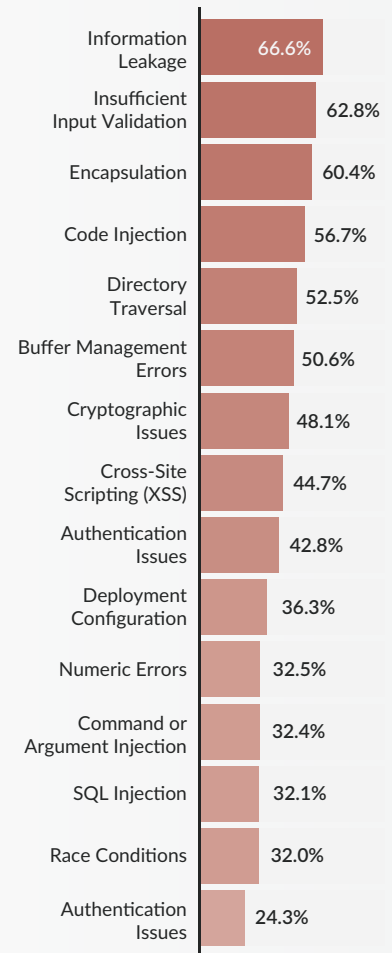
### Static Analysis



### Dynamic Analysis



### SCA Analysis



Percent of Applications


\*From a base of 27% in any given month.

## Next Steps

Continue your journey to improving your application security program for 2023 and beyond. Reach out to our team or schedule a demo with one of our experts.

Contact Our Team

Schedule a Demo



Veracode is a leading AppSec partner for creating secure software, reducing the risk of security breach, and increasing security and development teams' productivity. As a result, companies using Veracode can move their business, and the world, forward. With its combination of process automation, integrations, speed, and responsiveness, Veracode helps companies get accurate and reliable results to focus their efforts on fixing, not just finding, potential vulnerabilities.

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