CyberRes

Application Security Key Trends 2021

Modern development is more dynamic than ever, with increased velocity and complexity. With the migration to APIs, microservices, and IaC, we are committed to shrinking the security tech stack while increasing capabilities.

Application security needs to be embedded earlier into the software development lifecycle and must produce less friction for development teams.

These trends fit into a modern development framework where security is developer-driven and focused on actionable results that enable digital innovation.

1.

AppSec tooling becomes embedded in the DevOps toolchain

Embedded security scanning discovers a fraction of the vulnerabilities that a more robust AppSec tool can find, but delivers convenience and cost savings while helping organizations check the compliance box.

2.

Container security is the battleground for securing the software supply chain

Security and risk management practitioners have to deal with container security issues related to vulnerabilities and compliance.

3.

Infrastructure as Code (IaC) security adoption grows

Making poor security decisions when utilizing IaC technologies will result in the rapid and automated deployment of an insecure production environment that is ripe for compliance violations and data breaches!

4.

Vulnerability management takes a step forward

Tools that aggregate information from multiple sources and present that risk in a rollup view have an advantage over tools that offer just one perspective about a single area of the software.

5.

SAST and DAST become truly integrated

True SAST and DAST integration means DAST validation of SAST findings and DAST tuning by SAST results.

6.

Cloud-native application security requires a continuous AppSec approach

This trend expands Infrastructure as Code (IaC) coverage to seamlessly detect not only configuration issues (with ARM, AWS CloudFormation, and other templates), but also identify more complex structural, control flow, and data flow issues beyond the capabilities of basic IaC scanners.

7.

API (Application Programming Interfaces) security remains a top challenge

API security can incorporate DAST scanning at both the component- and system-level APIs where HTTP is utilized.

8.

DAST with functional testing reduces the complexity of setup and configuration

Yet another AppSec acronym! Functional Application Security Testing (FAST) utilizes DAST with functional testing to create automated dynamic testing as part of the DevSecOps pipeline.

9.

Susceptibility Analysis focuses on exploitable open source vulnerabilities

Susceptibility Analysis means quickly identifying vulnerable components that are directly or indirectly being invoked and are thus exploitable.

10.

Hacker-Level Insight (HLI) moves DAST into a risk assessment posture

DAST scanning evolves classic vulnerability detection into a risk assessment tool that helps direct resources to the most critical gaps in application security.

Which of these trends interests you the most? What other AppSec innovations you are watching closely?

About CyberRes Fortify

CyberRes Fortify lets you build secure software fast with an application security platform that automates testing throughout the CI/CD pipeline to enable developers to quickly resolve issues, strengthening their cyber resilience.

Fortify static, dynamic, interactive, and runtime security testing technologies are available on premises or as a service, offering organizations the flexibility needed to build an end-to-end software security assurance program.

Fortify

Learn more about Fortify ›

CyberRes