PT Application Inspector 4

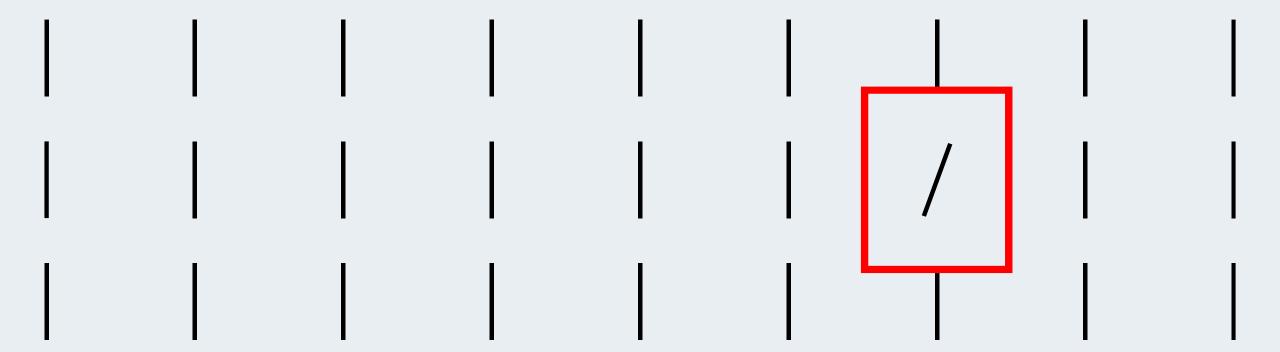


Universal tool for locating vulnerabilities in applications



The importance of analyzing source code







Web attacks are the cause of most data leaks

In 98% of cases

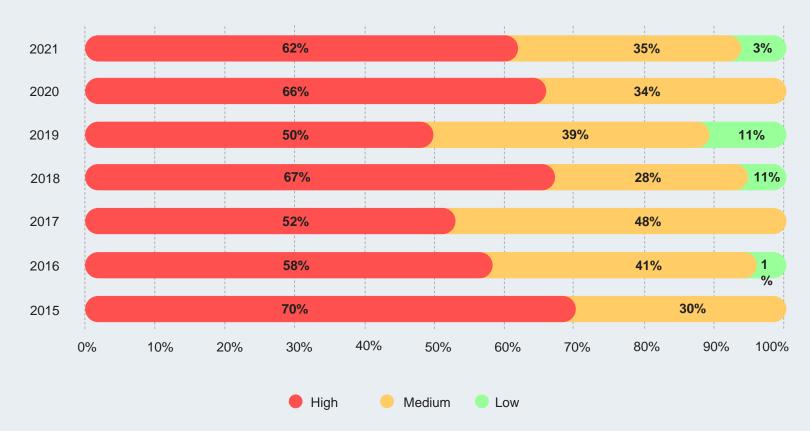
attackers are able to attack users

91% of web applications

leak important data

72% of vulnerabilities

were associated with errors in web application code



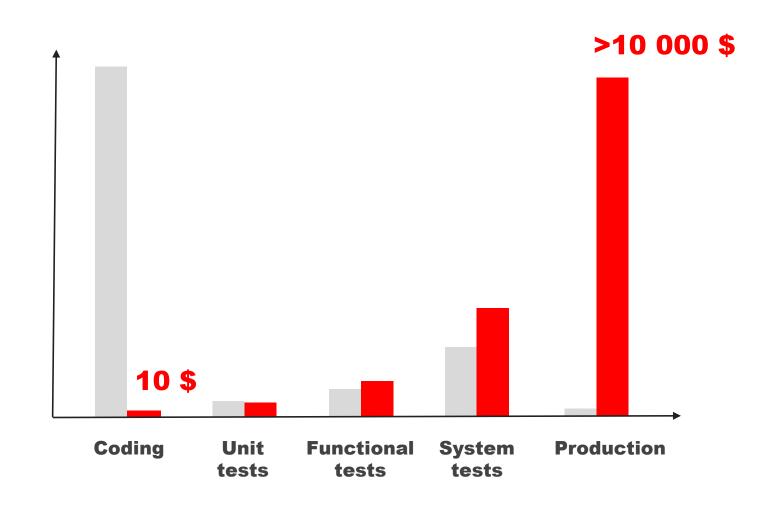
^{*} Web application vulnerabilities and threats in 2021–2022.

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Economics

The cost of a bug and why you need shift-left

Applied Software Measurement, Capers Jones





How to find a vulnerability

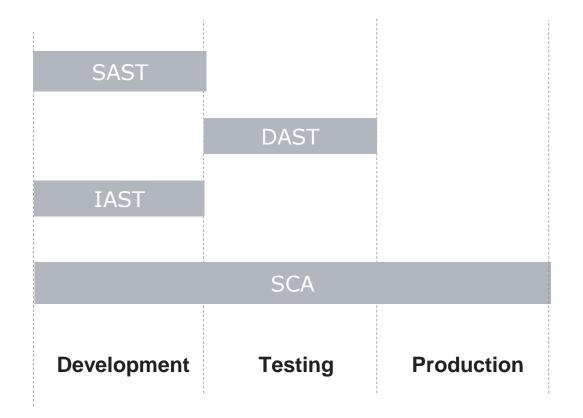
```
user.bid = basket.id // keep track of original basket for challenge
                 insecurity.authenticatedUsers.put(token, user)
solution check
res.json({c authentication: { token, bid: basket.id, umail: user.data.email } })
return (req, res, next) => {
    verifyPreLoginChallenges(req)
     models.sequelize.query('SELECT * FROM Users WHERE
    email = '${req.body.email | ''}'
    AND password = '${insecurity.hash(req.body.password
||''')}',
         { model: models.User, plain: true }).then((authenticatedUser) => {
         let user = utils.queryResultToJson(authenticatedUser)
         const rememberedEmail = insecurity.userEmailFrom(req)
         if (rememberedEmail && req.body.oauth) {
         models.User.findOne(
         { where:
         { email: rememberedEmail } }).then(rememberedUser => {
         user = utils.queryResultToJson(rememberedUser)
         utils.solveIf(challenges.loginCisoChallenge, () => {
```

Manual analysis

can be used for small code fragments, but is not fit for the conditions of modern industrial development



Application security testing tools



Static application security testing (SAST) locates vulnerabilities in the source code

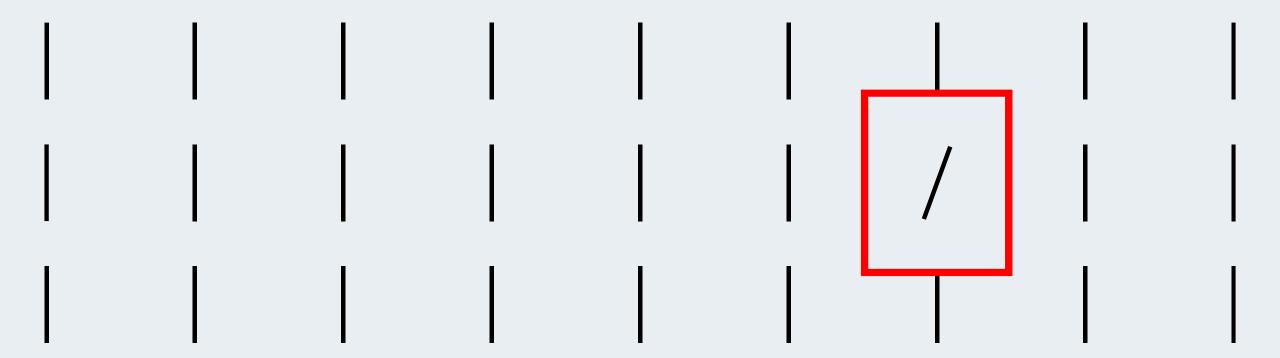
Dynamic application security testing (DAST) checks the running application

Interactive application security testing (IAST) provides instrumentation of code and searches for vulnerabilities as it runs

Software composition analysis (SCA) detects vulnerabilities in 3rd party code

Application Inspector





Positive Technologies

ptsecurity.com



PT Application Inspector features



Thoroughly identifies and prioritizes vulnerabilities

PT Application Inspector not only detects vulnerabilities, but also identifies the conditions that allow their exploitation. This is accomplished using a combination of detection mechanisms, and by the expertise of the team at Positive Technologies



Easy to use

Analysis can be started without configuring the application or obtaining access to the environment. Simply indicate the folder that contains the source code



Integrates into existing Development lifecycle

PT Application Inspector carefully integrates itself into existing software development lifecycle using plugins for connection to application set-up and delivery systems.

This makes it possible to ensure safe code development



Benefits



Expertise: From praxis to product

Specialists from the application security analysis division make regular updates to the product's knowledge base, adding information about particular vulnerabilities discovered in real applications.



Flexible scaling

The power and speed of analysis conducted by PT Al can be horizontally scaled as needed. The solution's architecture maximally streamlines this process and minimizes time and effort required.



A minimum of false positives

PT Application Inspector identifies the exploit conditions for located vulnerabilities and conducts a triage to prioritize their elimination. This helps developers concentrate on the most important problems and lowers expenses incurred by having experts check results manually.

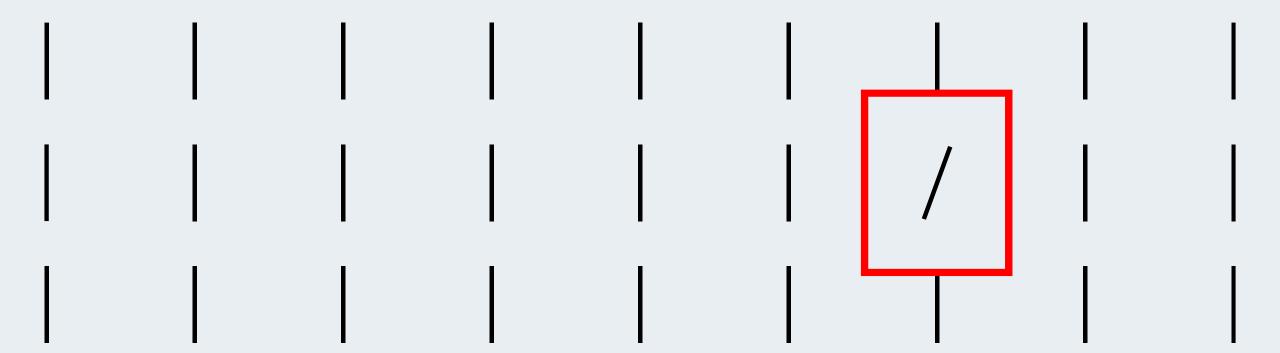


Rapid vulnerability elimination

Specialized virtual patches for use in PT Application Firewall can be created based on the results of PT Al analyses. This helps prevent vulnerability exploits in applications.

Use cases

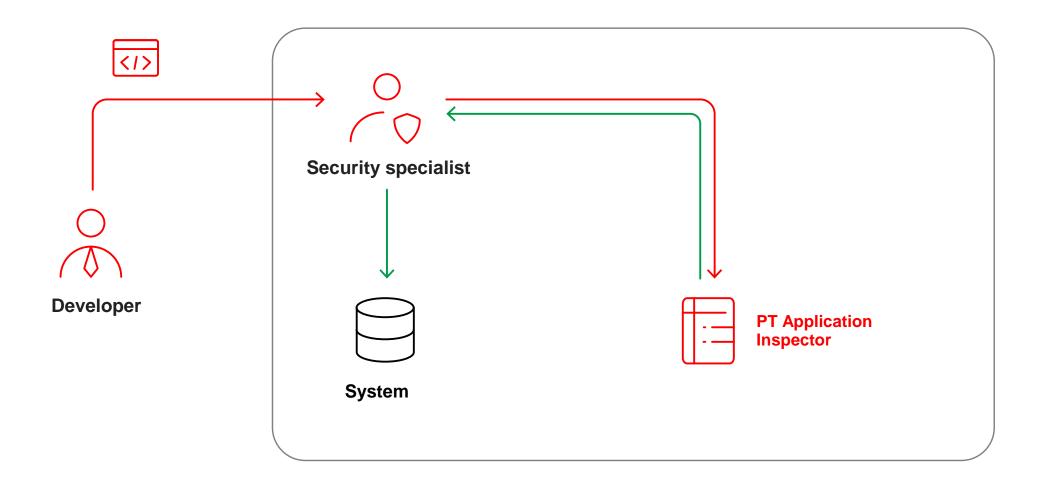




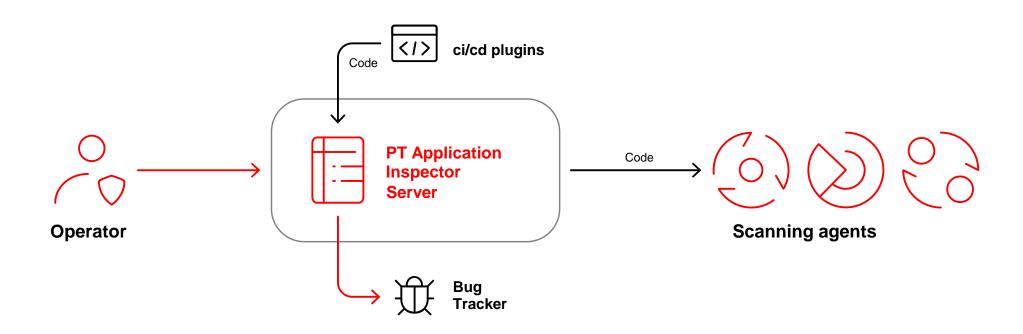
Positive Technologies

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Basic. Code acceptance



Integration into the development lifecycle



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Characteristics

A convenient tool for searching for application vulnerabilities

Languages:

Java, PHP, C#, VB.NET, JavaScript, Python, Kotlin, Go, C/C++, Objective-C, Swift, SQL (T-SQL, PL/SQL, MySQL) + TypeScript

Development environment:

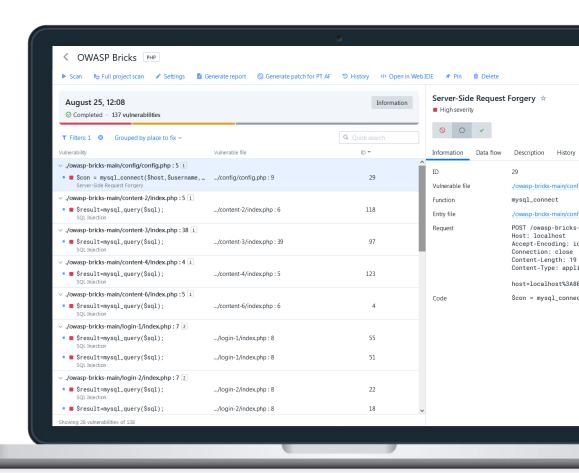
Jenkins, TeamCity, GitLab CI, Azure

IDE Integrations:

JetBrains, Visual Studio Code

Deployment:

Linux + Docker + SSO





Licensing

By number of progamming languages

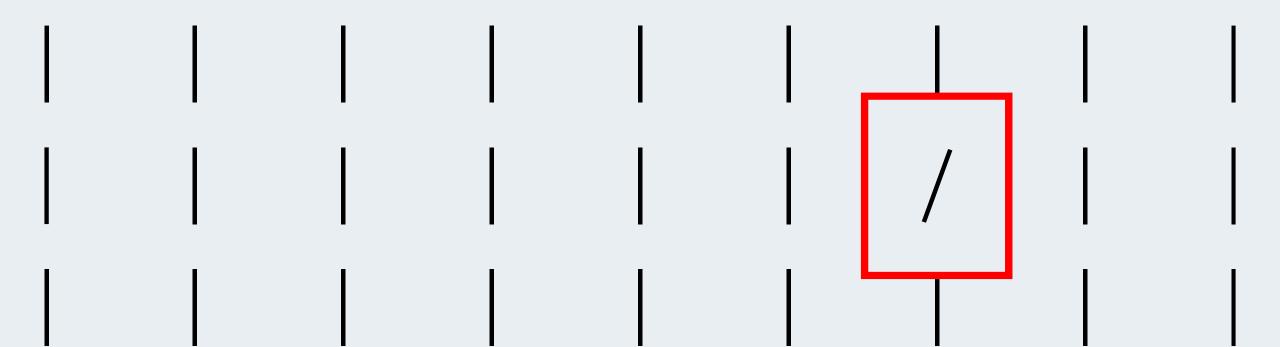
By number of scanning agents

No restrictions:

- on the number of project
- on lines of code
- on the number of users

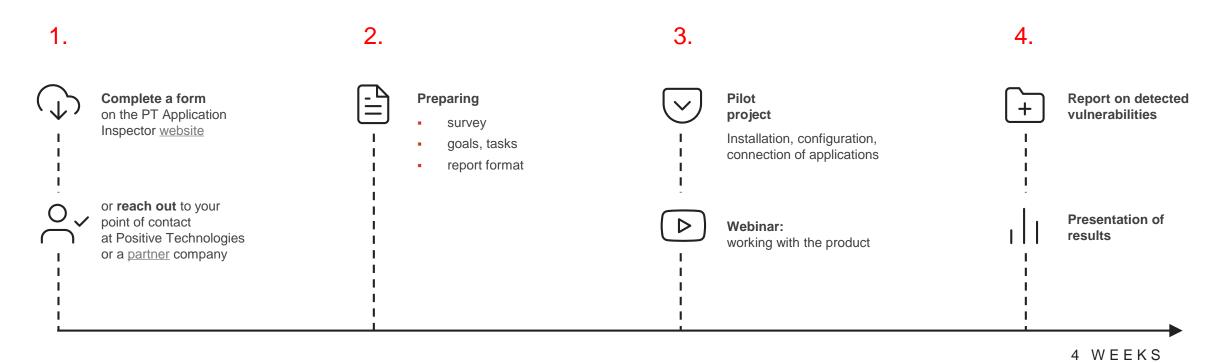
How to get started with PT Application Inspector







How to conduct a pilot test



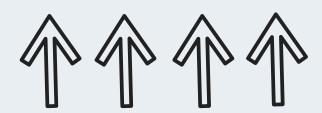
Plugins: IntelliJ Platform IDE Plugins: Visual Studio Code

Code for assessing the quality of work SAST









Open source



