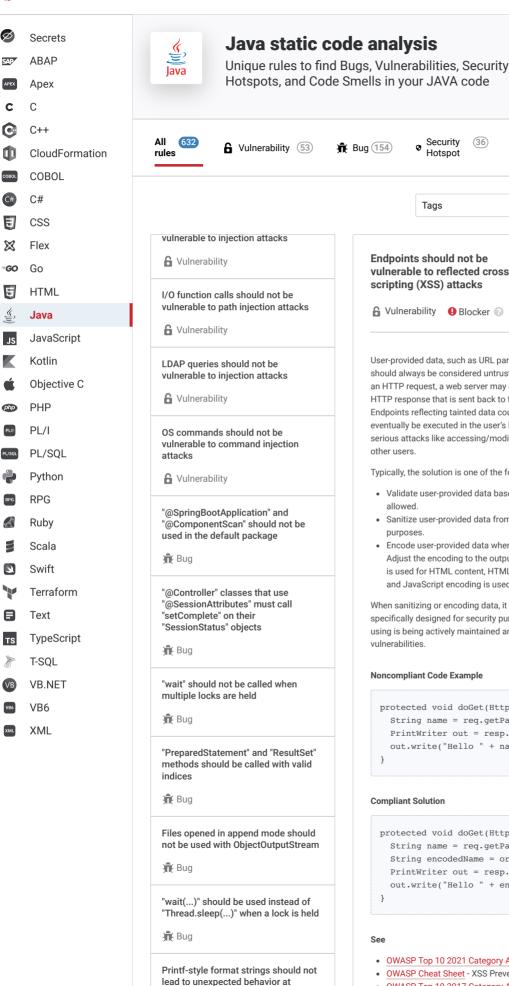


Products ~

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Endpoints should not be vulnerable to reflected cross-site scripting (XSS) attacks injection cwe sans-top25 owasp User-provided data, such as URL parameters, POST data payloads, or cookies, should always be considered untrusted and tainted. Furthermore, when processing other users

Security

Hotspot

Tags

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an HTTP request, a web server may copy user-provided data into the body of the HTTP response that is sent back to the user. This behavior is called a "reflection". Endpoints reflecting tainted data could allow attackers to inject code that would eventually be executed in the user's browser. This could enable a wide range of serious attacks like accessing/modifying sensitive information or impersonating

⊗ Code

Smell

(389)

Search by name.

Typically, the solution is one of the following:

- · Validate user-provided data based on a whitelist and reject input that is not
- Sanitize user-provided data from any characters that can be used for malicious purposes
- Encode user-provided data when it is reflected back in the HTTP response. Adjust the encoding to the output context so that, for example, HTML encoding is used for HTML content, HTML attribute encoding is used for attribute values, and JavaScript encoding is used for server-generated JavaScript.

When sanitizing or encoding data, it is recommended to only use libraries specifically designed for security purposes. Also, make sure that the library you are using is being actively maintained and is kept up-to-date with the latest discovered vulnerabilities

Noncompliant Code Example

```
protected void doGet(HttpServletRequest req, HttpServletResp
 String name = req.getParameter("name");
 PrintWriter out = resp.getWriter();
 out.write("Hello " + name); // Noncompliant
```

Compliant Solution

```
protected void doGet(HttpServletReguest reg, HttpServletResp
  String name = req.getParameter("name");
  String encodedName = org.owasp.encoder.Encode.forHtml(name
  PrintWriter out = resp.getWriter();
  out.write("Hello " + encodedName);
}
```

- OWASP Top 10 2021 Category A3 Injection
- **OWASP Cheat Sheet** XSS Prevention Cheat Sheet
- OWASP Top 10 2017 Category A7 Cross-Site Scripting (XSS)
- MITRE, CWE-79 Improper Neutralization of Input During Web Page Generation ('Cross-site Scripting')

Analyze your code

O Quick Fix

runtime

Bug

Methods "wait(...)", "notify()" and "notifyAll()" should not be called on Thread instances

Methods should not call same-class methods with incompatible "@Transactional" values

Bug

Recursion should not be infinite

Bug

Loops should not be infinite

• SANS Top 25 - Insecure Interaction Between Components

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