

**detect-non-literal-regexp**[Open](#)[Analyzed](#)

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[Ignore...](#)[Fix](#)

sims-nosql-api/wwwroot/lib/.../jquery.validate.unobtrusive.js:349

**Assistant thinks this is likely a false positive**

This finding is in a third-party jQuery validation library (jquery.validate.unobtrusive.js) located in wwwroot/lib. The 'params' argument comes from validation attributes defined by developers, not direct user input. Additionally, this is client-side validation where ReDoS would only affect the user's own browser, not the server or other users, making it a low security risk.

[Agree and Ignore](#) or [Disagree](#)**Finding description****Rule description**

The `regex` validation method constructs a RegExp directly from the `params` argument, which comes from user-provided HTML attributes. An attacker can craft a malicious regex pattern in the `data-val-regex-pattern` HTML attribute to trigger a ReDoS (Regular Expression Denial-of-Service) attack.

Here's how an attacker would exploit this:

1. An attacker injects a malicious regex pattern into the HTML form via the `data-val-regex-pattern` attribute: `data-val-regex-pattern="(a+)+$"`
2. When the form is submitted, jQuery Validation calls the `regex` method, passing this malicious pattern as `params`
3. The code executes `new RegExp(params).exec(value)`, which constructs a RegExp from the untrusted pattern string
4. The ReDoS-vulnerable regex causes catastrophic backtracking—for input like `aaaaaaaaaaaaaaaaaab`, the regex engine burns CPU cycles exponentially, freezing the main thread
5. The browser becomes unresponsive, degrading user experience or enabling a denial-of-service attack against your application

The root cause is that `params` is treated as a trusted, hardcoded string when it's actually attacker-controlled data from HTML attributes.

**RULE DETAILS****M** Medium severity**LL** Low confidence**Monitor****Denial-of-Service (DoS)****CWE-1333****detect-non-literal-regexp****FINDING DETAILS**

⌚ 3 days ago

📂 is241307/simsfh\_ws25\_SAST  
managed-scan

▶ main

→ 5cef085 ↴

by puywei

**Your code****Example code**

./.../jquery.validate.unobtrusive.js

sims-nosql-api/.../jquery.validate.unobtrusive.js:343

[+ vendored code](#)Line 343 [source](#)

params

Line 343

params

Line 349 [Sink](#)

new RegExp(params)

```

338
339
340
341
342
• 343 $jQval.addMethod("__dummy__", function (value, element, params) {
344     return true;
345 });
346
347
348
• 349 $jQval.addMethod("regex", function (value, element, params) {
350     var match;
351     if (this.optional(element)) {
352         return true;
353     }
354
355     match = new RegExp(params).exec(value);
356     return (match && (match.index === 0) && (match[0].length ===
357     value.length));
358 });
359
360
361

```

**Assistant suggested fix****Rule fix**

Semgrep Assistant analyzed this finding, but doesn't recommend a fix because it's likely a false positive.

**Activity**[New note](#)