

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:

- An attacker injects a malicious regex pattern into the HTML form via the `data-val-regex-pattern` attribute: `data-val-regex-pattern="(a+)+$"`
- When the form is submitted, jQuery Validation calls the `regex` method, passing this malicious pattern as `params`
- The code executes `new RegExp(params).exec(value)`, which constructs a RegExp from the untrusted pattern string
- The ReDoS-vulnerable regex causes catastrophic backtracking—for input like `aaaaaaaaaaaaaaaaab`, the regex engine burns CPU cycles exponentially, freezing the main thread
- 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.

Your code

Example code

Line 343

params

Line 343

params

Line 349

new RegExp(params)

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jQueryval.addMethod("__dummy__", function (value, element, params) {

return true;

});

jQueryval.addMethod("regex", function (value, element, params) {

var match;

if (this.optional(element)) {

return true;

}

match = new RegExp(params).exec(value);

return (match && (match.index === 0) && (match[0].length === value.length));

});

jQueryval.addMethod("nonalphamin", function (value, element,

nonalphamin) {

var match;

if (nonalphamin) {

match = value.match(/\W/g);

match = match && match.length >= nonalphamin;

}

return match;

});

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

RULE DETAILS

Medium severity

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