



# CVE-2021-23421

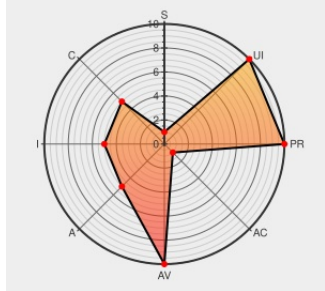
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## CVE-2021-23421

[Source: Mitre](#)[Source: NIST](#)[CVE.ORG](#)[Print: PDF](#)

JS:S:31/AV:N/AC:H/PR:N/UI:N/S:U/C:L/I:L/A:L/E:U/RL:U/R



Certain versions of [Merge-change](#) from [Merge-change Project](#) contain the following vulnerability:

All versions of package merge-change are vulnerable to Prototype Pollution via the utils.set function.

CVE-2021-23421 has been assigned by report@snyk.io to track the vulnerability - currently rated as **CRITICAL** severity.

CVSS3 Score: **9.8 - CRITICAL**

| Attack Vector    | Attack Complexity      | Privileges Required | User Interaction    |
|------------------|------------------------|---------------------|---------------------|
| <b>NETWORK</b>   | <b>LOW</b>             | <b>NONE</b>         | <b>NONE</b>         |
| Scope            | Confidentiality Impact | Integrity Impact    | Availability Impact |
| <b>UNCHANGED</b> | <b>HIGH</b>            | <b>HIGH</b>         | <b>HIGH</b>         |

CVSS2 Score: **7.5 - HIGH**

| Access Vector          | Access Complexity | Authentication      |
|------------------------|-------------------|---------------------|
| <b>NETWORK</b>         | <b>LOW</b>        | <b>NONE</b>         |
| Confidentiality Impact | Integrity Impact  | Availability Impact |
| <b>PARTIAL</b>         | <b>PARTIAL</b>    | <b>PARTIAL</b>      |

## CVE References

| Description                                                       | Tags                                                    | Link                                                                                                                         |
|-------------------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Prototype Pollution in merge-change   Snyk                        | <a href="#">snyk.io</a><br><a href="#">text/html</a>    | <a href="#">MISC snyk.io/vuln/SNYK-JS-MERGECHANGE-1310985</a>                                                                |
| merge-change/utils.js at 9901f145e06158f284f52de42e6ba5b0f702fb65 | <a href="#">github.com</a><br><a href="#">text/html</a> | <a href="#">MISC github.com/VladimirShestakov/merge-change/blob/9901f145e06158f284f52de42e6ba5b0f702fb65/utils.js%23L89-</a> |

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## Related QID Numbers

981309 Nodejs (npm) Security Update for merge-change (GHSA-f9cv-665r-275h)

## Known Affected Configurations (CPE V2.3)

| Type                                                           | Vendor                               | Product                      | Version | Update | Edition | Language |
|----------------------------------------------------------------|--------------------------------------|------------------------------|---------|--------|---------|----------|
| Application                                                    | <a href="#">Merge-change Project</a> | <a href="#">Merge-change</a> | All     | All    | All     | All      |
| cpe:2.3:a:merge-change_project:merge-change:*:*:*:*:node.js:*: |                                      |                              |         |        |         |          |

## Discovery Credit

Dung Le

## Social Mentions

| Source                                                                                        | Title                                                                                                                                                                                                          | Posted (UTC)        |
|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
|  @CVEreport | CVE-2021-23421 : All versions of package merge-change are vulnerable to Prototype Pollution via the utils.set funct... <a href="https://twitter.com/i/web/status/1461111111">twitter.com/i/web/status/1...</a> | 2021-08-11 17:38:18 |

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