## **snyk** Vulnerability DB

Snyk Vulnerability Database > npm > curlrequest

### **Arbitrary File Read**

Affecting curlrequest package, versions \*



INTRODUCED: 7 MAY 2020	CVE-2020-7646 @ CWE-2	2  FIRST ADDED BY SNYK	Share v
How to fix?			
There is no fixed version	on for curlrequest.		

#### Overview

curlrequest is a curlrequest is a node wrapper for the command line curl(1).

Affected versions of this package are vulnerable to Arbitrary File Read. It is possible to read any file by populating the file parameter with user input.

#### PoC

```
var curl = require("curlrequest");
let userPayload = "/etc/passwd"; curl.request({ file: userPayload }, function (err, stdout, meta) { console.log("%s %s", meta.cmd, meta.args.join(" ")); });
```

#### Details

A Directory Traversal attack (also known as path traversal) aims to access files and directories that are stored outside the intended folder. By manipulating files with "dot-dot-slash (.../)" sequences and its variations, or by using absolute file paths, it may be possible to access arbitrary files and directories stored on file system, including application source code, configuration, and other critical system files.

Directory Traversal vulnerabilities can be generally divided into two types:

 Information Disclosure: Allows the attacker to gain information about the folder structure or read the contents of sensitive files on the system.

st is a module for serving static files on web pages, and contains a vulnerability of this type. In our example, we will serve files from the public route.

If an attacker requests the following URL from our server, it will in turn leak the sensitive private key of the root user.

curl http://localhost:8080/public/%2e%2e/%2e%2e/%2e%2e/%2e%2e/root/.ssh/id\_rsa

Note %2e is the URL encoded version of . (dot).

Writing arbitrary files: Allows the attacker to create or replace existing files. This type of vulnerability is also known as Zip-Slip

One way to achieve this is by using a malicious zip archive that holds path traversal filenames. When each filename in the zip archive gets concatenated to the target extraction folder, without validation, the final path ends up outside of the target folder. If an executable or a configuration file is overwritten with a file containing malicious code, the problem can turn into an arbitrary code execution issue quite easily.

The following is an example of a zip archive with one benign file and one malicious file. Extracting the malicious file will result in traversing out of the target folder, ending up in /root/.ssh/ overwriting the  $authorized\_keys$  file:

2018-04-15 22:04:29 ..... 19 19 good.txt 2018-04-15 22:04:42 ..... 20 20 ../../../root/.ssh/authorized\_keys

### References

Vulnerable Code

PRODUCT
Snyk Open Source
Snyk Code
Snyk Container
Snyk Infrastructure as Code
Test with Github
Test with CLI

Snyk CVSS		
Exploit Maturity	Proof of concept	0
Attack Complexity	Low	0
Privileges Required	HIGH	0
Scope	Changed	0
Confidentiality	HIGH	0
See more		
> NVD	9.8 CRITICA	AL
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