Several simple remote code execution in pdf-image

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TIMELINE

nabriel-kimiaie submitted a report to Node.js third-party modules. A would like to report "A simple remote code execution" in "pdf-image".

Jan 23rd (3 years ago)

It allows "a remote attacker to execute arbitrary code when several functions of the PDFI mage class are called and the class loaded from user-input value".

Module

module name: pdf-image version: latest npm page: [https://www.npmjs.com/package/pdf-image

Module Description

 $Provides \, an \, interface \, to \, convert \, PDF's \, pages \, to \, png \, files \, in \, Node. \\ js \, by \, using \, Image Magick. \\$

Module Stats

[1] weekly downloads: 8,691

Vulnerability

Vulnerability Description

 $Hello there \verb|!| I understand this bug isn't eligible for a bounty. I am reporting it either way. I've found several code execution in the pdf-image class, I tested one of them. It is a first execution of the pdf-image class of$ $They are simple and of course come from the child_process. exec call with lack of escaping. It ested one of them.$

Steps To Reproduce:

var PDFImage = require("pdf-image").PDFImage;

var pdflmage = new PDFlmage(""; sleep 500 #""); pdflmage.getInfo();

You can take example on your command-exists npm class:

You can also exploit the vulnerability by submitting backticks (example payload: 1s; sleep 5 which will be executed even though you're double-quoting the input.

Patch

var isUsingWindows = process.platform == 'win32' var cleanInput = function(s) { if (/[^A-Za-z0-9_\/:=-]/.test(s)) { s = """+s.replace(/'/g,"'\"")+"""; s = s.replace(/^(?:")+/g, ") // unduplicate single-quote at the beginning $. replace (\norm{"}'', g, \norm{"}'''); // \ remove \ non-escaped \ single-quote \ if there \ are \ enclosed \ between \ 2 \ escaped$ return s; $if (is Using Windows) \{\\$ cleanInput = function(s) { $varisPathName = /[\]/.test(s);$ if (isPathName) { var dirname = '"' + path.dirname(s) + '"'; var basename = "" + path.basename(s) + ""; return dirname + ':' + basename; return ''" + s + ''";

Supporting Material/References:

https://github.com/mooz/node-pdf-image/blob/master/index.js#L27

- Linux / centOS
- v6.17.1
- 3 10 10
- N/A
- Own sample script

Select Y or N for the following statements:

- I contacted the maintainer to let them know: [Y/N] N
- I opened an issue in the related repository: [Y/N] N

Thanksl

Impact

TEIN WATHALDAN SIT,	
Thank you for your submission! We were able to validate your report, and have submitted it to the appropriate remediation team for review. They will let us know the final ruling on this report, and when/if a fix will be implemented. Please note that the status and severity are subject to change.	
Regards, @lugtag	
O= marcinhoppe Node is third-party modules staff closed the report and changed the status to • Resolved.	Feb 24th (3 years ago)
— marcinhoppe Node js third-party modules staff requested to disclose this report.	Feb 24th (3 years ago)
O= gabriel-kimiaie agreed to disclose this report.	Feb 24th (3 years ago)
— This report has been disclosed.	Feb 24th (3 years ago)

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