## OS COMMAND INJECTION IN LARAVEL FRAMEWORK

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Title
OS Command Injection In Laravel Framework
Advisory ID
NBS-2021-0004
 Product
 Laravel Framework
Vulnerable Version
< 5.8.17
 Fixed Version
5.8.17
CVE ID
CVE-2020-19316
 Homepage
 https://www.laravel.com/
 Discovery Date
 Ramadhan Amizudin | NetbyteSEC
 Product description:
 "Laravel is a web application framework with expressive, elegant syntax. We've already laid the foundation
 — freeing you to create without sweating the small things."
 Vulnerability description:
OS Command Injection found in Filesystem Symlink API (CVE-2020-19316) When passing crafted user input into the Storage::linkl) will trigger the vulnerability. Exploiting this issue may allow attacker to execute OS Command with running application privilege. This vulnerability affect
 laravel installation on the Windows operating system only.
Proof Of Concept:
For version 5.7.16
File: src/Illuminate/Filesystem/Filesystem.php
 Line: 257
    public function link($target, $link)
     if (! windows_os()) { // [1]
      return symlink($target, $link);
     }
$mode = $this->isDirectory($target) ? 'j' : 'H';
exec("mklink /{$mode} \"{$link\}" \"{$target}\""; // [2]
OS checking done at [1], if the current OS is not windows the execution will continue.
 Finally the variable reach [2] code path, which take variable into exec function without any escape.
 Because the Filesystem API is mapped into Storage facade, we can demonstrate the vulnerability by using this vulnerable code in the
   Storage::link($request->input('target_folder'), $request->input('link_name'));
```

The vulnerability is patched on version 5.8.17 and above. Please update your laravel to the latest version

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2019-05-10 | Contact Laravel Security, (Taylor Otwell) via taylor[at]laravel.com
2019-05-14 | Laravel Version 5.8.17 released
2019-05-14 | Applied for CVE
2021-12-13 | CVE-2020-19316 Assigned
 2021-12-16 | Advisory Published
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