☐ rubysec / ruby-advisory-db Public Jump to bottom New issue Add advisory for bindata #476 Labels kuahyeow commented on Jun 1, 2021 • edited 🕶 Potential DoS (combined with constantized - see https://blog.presidentbeef.com/blog/2020/09/14/another-reason-to-avoid-constantize-in-rails/ for background) which was fixed in dmendel/bindata@ d99f050 as part of bindata 2.4.10 No CVE yet reedloden commented on Jun 1, 2021 Member @kuahyeow are you associated with the bindata project? If so, you can request a CVE via the GitHub Security Advisory process. Otherwise, I can ask GitHub to assign a CVE. Author @reedloden No, I am not associated with the bindata project. (For transparency, I am part of the GitLab team that found and reported this issue to the bindata mantainer - see also https://about.gitlab.com/releases/2021/06/01/security-release-gitlab-13-12-2-released/#update-bindata-dependency) and the substitution of the suOtherwise, I can ask GitHub to assign a CVE. Yes, that will be good, thanks! Contributor rschultheis commented on Jun 16, 2021 • edited -Hello, I am with the GitHub Security Lab team. We are evaluating this to see if assigning a CVE makes sense CC @reedloden . Can someone articulate the security impact more clearly? The linked blog article discusses the use of constantize creates a memory leak, but in the linked commit there is not any code change involving constantize Is the "Potential DoS" simply due to the previous implementation being inneficient? CC @kuahyeow could we get just a bit more details? postmodern added the need clarification label on Jun 16, 2021 Author kuahyeow commented on Jun 21, 2021 Hello @rschultheis, thanks for reaching out. I think since this is public information, I can expand on the details. The issue is that it was extremely slow for certain classes in BinData to be created. For example BinData::Bit100000 , BinData::Bit100001 . BinData::Bit100002 . BinData::Bit<N> So this, in combination with <user_input>.constantize means we have a (slow) CPU-based DoS. Note this is not an issue with BinData gem by itself - attacker needs to find a place where user input is used with constantize in the application. Does this make sense ? rschultheis commented on Jun 23, 2021 Contributor @kuahyeow yes that makes sense thanks. I've gone ahead and submited CVE-2021-32823 for this advisory with a CVSS of CVSS:3.1/AV:N/AC:H/PR:N/UI:N/S:U/C:N/I:N/A:L / low. We have also published GHSA-hj56-84jw-67h6 for this. rschultheis mentioned this issue on Jun 23, 2021 add CVE-2021-32823 for bindata #483 Merged
 Me rschultheis commented on Jun 23, 2021 Contributor

reedloden commented on Jun 23, 2021

This has been added. Thanks, all!

Also I made this PR to add this advisory to this repo: #483

(1 1)

Closed		
Assignees		
No one assigned		
Labels		
need clarification		
Projects		
None yet		
Milestone		
No milestone		
Development		
No branches or pull requests		
4 participants		

Update Bindata Dependency Due To Security Issue nov/json-jwt#94