### Unauthorized access to private project security dashboard

HackerOne report #853355 by vaib25vicky on 2020-04-19, assigned to @dcouture:

User with guest permissions can't view security dashboard of the private project. However, this is not applied when user permission changes from maintainer to guest.

As a result, if user was previously a maintainer in the project he/she can add the project to their security dashboard and when their access levels decreases to guest, they can still view new security value abilities result found in the project through their security dashboard. New security issues found in the project are reflecting back to the guest user security dashboard.

#### Steps to reproduce

- User A create a private project and add user 8 with maintainer access
  User 8 will add the project in his security dashboard.
  User 8 will add the project in his security dashboard.
  User 8 reduced the user 8 access level to guest. Now, user 8 can't view any old and new security issues in the project directly
  User 8 access the project new as well as old security issues through his security dashboard and also the specific new files where the issues lies
  Done

### Impact

The impact of this vulnerability is actually very high. A malicious user can take advantage of the security issues found and can use it to exploit the owne application. More info will also disclose newly added files, dependencies and new internal structure of the project/application to the unauthorized user

### What is the current bug behavior?

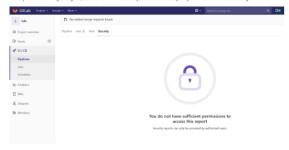
Unauthorized user (guest) can view security dashboard of the private project

### What is the expected correct behavior?

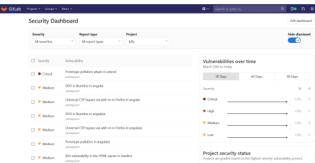
Project should be removed from the user security dashboard when his/her permission changes to lower.

### Relevant logs and/or screenshots

When permission changes to guest, user can't view the security dashboard directly, they are treated with this message.



But user can access the private project security issues through his own security dashboard.



### Output of checks

NOTE: I'm using one of the example project provided by Gitlab named "yarn-vulnerabilities" for security testing. If you want to quickly validate my report, please consider using it. https://gitlab.com/gitlab-examples/security/yarn-vulnerabilities" for security.

### Impact

Unauthorized access to private project security dashboard which allows a malicious user to exploit the owner application and also disclose application newly added files/dependencies and internal structure.

### Attachments

Warning: Attachments received through HackerOne, please exercise caution!

- sec1.pnq
   sec2.pnq

⚠ Drag your designs here or click to upload.



## Activity



# https://gitlab.com/gitlab-examples/security/yarn-vulnerabilities Create an empty private project and add user B as maintainer Create an empty private project and add user 8 as maintainer User 8 and project to its profile scurity dashboard Change the permission of user 8 to guest. Now, user 8 can't view security dashboard of the project Upload \_gttlab-ct.yal and package\_5 you of 'yarn-vulneabilities' to your project. Pipeline will ma automatically, after it is finish it will peopl t critical. Breadium and 8 low security issues Login to user 8 account, go to your security dashboard, you'll see all new vulnerabilities found in the project is reflected back to you. (quest user) Author Reporter GitLab SecurityBot @gitlab-securitybot - 2 years ago HackerOne comment by dcouture Doesn't look critical GitLab SecurityBot @gitlab-securitybot · 2 years ago Author Reporter HackerOne comment by dcouture More simple rento stens 1. Fork https://gitlab.com/gitlab-examples/security/yarn-vulnerabilities as user A and make it private Trigger a pipeline so there are security scan results Invite user B as maintainer Add the project to your instance dashboard at <a href="https://qitlab.com/-/security/">https://qitlab.com/-/security/</a> 5. Change user B to guest 6. Notice user B cannot see the dashboard in the project anymore but they still see the results in their instance dashboard Interesting fact: if you remove the user from the project the dashboard disappears, but if you add them back as guest it will reappea Author Reporter GitLab SecurityBot @qitlab-securitybot - 2 years ago HackerOne comment by dcouture : Hi [@]vaib25vicky, Thank you for submitting this report. I could reproduce the issue and indeed the Use security dashboard permission should be restricted to users that are in the Developer role or above. However I would like you to elaborate on the impact. Keeping in mind that: This vulnerability can only be exploited by an ex-maintainer that turns against their old project Ins vunerability can only be explorate orly an ex-maintainer that turns against their oid project There is no way to target an arbitrary project The attacker doesn't have access to the code or the issues, only the name of the files and vulnerabilities The attacker already had access to the vulnerability list and code previously and really only the new issues will potentially be disclosed I believe the impact for this is very limited. If you disagree, can you please provide an attack scenario that would demonstrate the higher Author Reporter GitLab SecurityBot @qitlab-securitybot · 2 years ago HackerOne comment by vaib25vicky Attack Scenario: Project is in initial stage, admin added maintainers to help it grow Admin make some maintainers to lower access so that they can't access sensitive information One of the maintainer/attacker exploit this vulnerability, and access newly added security issues With the newly added security issues found in the project, attacker exploit the project/application I agreed to your points above, the reason I consider this critical because disclosing the security issues to unauthorized users make the application/project vulnerable to exploitation by the attacker. I think it is more crucial to not disclose security issues in the project to others than code or issues. But feel free to adjust the severity of the report to medium/high, if you feel otherwise. Dominic Couture @dcouture · 2 years ago Seems like fixing this bug would solve this issue I found while looking for duplicates GitLab SecurityBot added security-group-missing security-triage-appsec labels 2 years ago Dominic Couture @dcouture \(^2\) ears ago Hello \(^2\) eserbailtab and \(^2\) ererderguoon | A reporter has found a permission issue in the instance dashboard where users can see a projet dashboard even with insufficient rights after being "demoted" to guest. Dominic Couture added group dynamic analysis (group secure) priority 3) seventy 3) scoped labels and automatically removed (group 4) priority 4) seventy 3) scoped labels and automatically removed (group 4) priority 4) seventy 3) scoped labels and automatically removed (group 4) priority 4) seventy 3) scoped labels and automatically removed (group 4) priority 4) seventy 3) scoped labels and automatically removed (group 4) priority 4) seventy 3) scoped labels and automatically removed (group 4) priority 4) seventy 3) scoped labels and automatically removed (group 4) priority 4) seventy 3) scoped labels and automatically removed (group 4) priority 4) seventy 3) scoped labels and automatically removed (group 4) priority 4) seventy 3) scoped labels and automatically removed (group 4) priority 4) seventy 3) scoped labels and automatically removed (group 4) scoped labels and automatically removed (group 4) scoped labels 2) seventy 4) scoped labels 2) seventy 4) scoped labels 2) scoped labels 3) scoped labels 4) scoped labels 5) scoped labels 4) scoped labels 5) scoped labels 4) scoped labels 5) scoped labels 5) scoped labels 5) scoped labels 6) scoped labels 7) scoped Seth Berger added security dashboard label 2 years ago Matt Wilson changed milestone to %13.1 2 years ago Matt Wilson added group threat insights) to bug denote protect scoped labels and automatically removed group dynamic analysis group secure labels 2 years ago GitLab SecurityBot removed security-group-missing security-triage-appsec labels 2 years ago GitLab SecurityBot changed due date to July 19, 2020 2 years ago GitLab Bot added Accepting merge requests label 2 years ago Wayne Haber added workflow scheduling scoped label 2 years ago Seth Berger marked this issue as related to #38383 2 years ago Seth Berger mentioned in issue #215570 (closed) 2 years ago Lindsay Kerr @lkerr · 2 years ago Smine: can you please take a look at this issue from a refinement perspective? Let me know if there is any the same work required? what the weight would be for the thinking work required? I can reproduce the issue locally but only for the old dashboard. FCV dashboard does not have this problent (Product the illustratus card shows the project though). But regardless of this information, we should fix project authorizations method we have in InstanceSecurityOashboard model. The fix seems trivial; just scope the query to ignore guest permission levels. I've also tried to add a project with guest role via manage dashboard page and found out that the search results had the project but couldn't add the project to my dashboard. There is no frontend work required to fix this issue. I'm adding backend-weight 3 Please register or sign in to reply Dindsay Kerr added (workflow refinement) scoped label and automatically removed (workflow scheduling) label 2 years ago 8 Lindsay Kerr assigned to @minac 2 years ago GitLab Bot eremoved Accepting merge requests label 2 years ago Mehmet Emin INAC added backend-weight 3 scoped label 2 years ago Mehmet Emin INAC added workflow scheduling scoped label and removed workflow refinement backend-weight 3 labels 2 years ago

