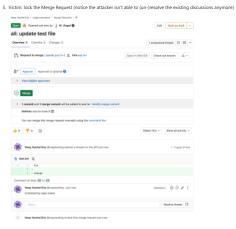


3. Attacker: submit a Merge Request

## GraphQL mutations allow Merge Request creator to bypass locked status

HackerOne report #1063420 by jimeno on 2020-12-21, assigned to @dcouture: Report | Attachments | How To Reproduce Report I'd like to report an Improper Access Control issue where attacker is able to perform state changing actions such as (un-)resolving discussion threads in Merge Requests after the repository owner locks the MR. The mutation used in this example is discussionToggleResolve. 1. Victim: create a public repository and add a dummy file to it 2. Attacker: fork the project and add a change to it

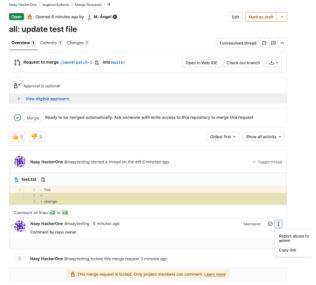
4. Any: add a comment so a discussion thread is generated





### Steps to reproduce

1. Attacker: notice you aren't able to post new comments or resolve the discussion thread via the user interface



2. Attacker: run the following GraphQL query to find the ID of the discussion thread. Please, replace the repo and owner where needed

```
project(fullPath: "naaytesting/bugbountydemo") {
 mergeRequests {
edges {
node {
id
        title
        discussions {
```

3. Attacker: note the discussion ID. In my case it is gid://gitlab/DiffDiscussion/da18f8200f0934b43fd1d1f62d5ea1a8dec2e1a8 . Notice its resolvable attribute is set to true while the UI shows the MR is compl

4. Run the following GraphQL query replacing the ID with yours. mutation test { discussionToggleResolve(input: {id: 8#34;gid://gitlab/DiffDiscussion/da18f8200f0934b43fd1d1f62d5ea1a8dec2e1a88#34;, errors  $\blacktriangleleft$ 5. Victim: refresh the MR and notice the attacker was able to perform activities against it and the discussion is resolved now. > Yew eligible approvers ✓ Merge > 1 commit and 1 merge commit will be added to naster. Modify merge com Deletes source branch 🕙 👍 o 🦞 o 💿 Oldest first v Show all activity v Neay Macker One (finany testing started a thread on the diff 11 minutes ago Besolved by M. Angel 1 minute ago Assy HackerOne (Insaytesting locked this merge request 10 minutes ago M. Angel @jmen0 resolved all threads 1 minute ago ⊕ This merge request is locked. Only project members can Reference: nasytesting/bugbo... () Attacker is able to do state-changing actions against a locked MR. In this particular case, (un-)resolve discussion threads. Examples

GitLab.com users can perform state-changing actions in their Merge Requests after the repository owners have locked them.

What is the current bug behavior?

Attacker is able to do state-changing actions against a locked MR. In this particular case, (un-)resolve discussion threads.

What is the expected correct behavior?

Attacker isn't able to do state-changing actions after the repo owner locks their MR.

Relevant logs and/or screenshots

Please, refer to each section.

Output of checks

This bug happens on GitLab.com

Attacker is able to do state-changing actions against a locked MR. In this particular case, (un-)resolve discussion threads.

If this is the expected behavior, please let me know and I'll be happy to self-close this report as N/A.

## Attachments

Warning: Attachments received through HackerOne, please exercise caution!

- attacker opens locked mr.png
   attacker activity in pr after locking.png
   setup final status.png

# How To Reproduce

Please add reproducibility information to this section:



## Activity

GitLab SecurityBot changed due date to March 22, 2021 1 year ago

GitLab SecurityBot added HackerOne security labels 1 year ago

GitLab SecurityBot added (Weakness CWE-284) (priority, 3) (severity, 3) scoped labels 1 year ago



GitLab SecurityBot @gitlab-securitybot · 1 year ago

Some minor notes I forgot:

Official documentation on how to start a discussion thread: <a href="https://docs.gitlab.com/ee/">https://docs.gitlab.com/ee/</a>
 Official documentation on what a locked discussion is and how to lock/unlock it:

Author Reporter

Here is a screenshot of the status of the MR viewed from the attacker (jimen()) profile **before** the repo owner (victim, naaytesting) locks the MR. As you can see, it's possible to resolve the discussion thread. It isn't possible to do it after the owner locks the MR.

