

## Security Advisory 2024-007

# Critical Vulnerabilities in GitLab

January 12, 2024 — v1.0

**TLP:CLEAR**

### History:

- 12/01/2024 — v1.0 – Initial publication

## Summary

On January 11, 2024, GitLab released a security advisory addressing several vulnerabilities, including critical ones that, if exploited, could lead to account takeover, or slack command execution.

It is recommended upgrading as soon as possible.

## Technical Details

- The vulnerability `CVE-2023-7028`, with a CVSS score of 10, allows user account password reset emails to be sent to unverified email addresses, leading to potential account takeovers.
- The vulnerability `CVE-2023-5356`, with a CVSS score of 9.6, allows a user to abuse Slack and Mattermost integrations to execute slash commands as another user.
- The vulnerability `CVE-2023-4812`, with a CVSS score of 7.6, would allow a user to bypass the required `CODEOWNERS` approval by adding changes to a previously approved merge request.

## Affected Products

- The vulnerability `CVE-2023-7028` affects GitLab Community Edition (CE) and Enterprise Edition (EE) versions:
  - 16.1 prior to 16.1.6;
  - 16.2 prior to 16.2.9;
  - 16.3 prior to 16.3.7;
  - 16.4 prior to 16.4.5;
  - 16.5 prior to 16.5.6;
  - 16.6 prior to 16.6.4;
  - 16.7 prior to 16.7.2.

*Within these versions, all authentication mechanisms are impacted. Additionally, users who have two-factor authentication enabled are vulnerable to password reset but not account takeover as their second authentication factor is required to login.*

- The vulnerability `CVE-2023-5356` affects GitLab Community Edition (CE) and Enterprise Edition (EE) versions:
  - from 8.13 prior to 16.5.6;
  - from 16.6 prior to 16.6.4;
  - from 16.7 prior to 16.7.2.
- The vulnerability `CVE-2023-4812` affects GitLab Community Edition (CE) and Enterprise Edition (EE) versions:
  - from 15.3 prior to 16.5.5;
  - from 16.6 prior to 16.6.4;
  - from 16.7 prior to 16.7.2.

## Recommendations

It is strongly recommended to upgrade all GitLab installations to one of the new versions immediately. The release also emphasises the importance of enabling Two-Factor Authentication (2FA) for additional security.

## Detection

At the moment, the editor did not detect any abuse of the vulnerability `CVE-2023-7028` on platforms managed by GitLab, including `GitLab.com` and GitLab Dedicated instances. Nevertheless, regarding the self-managed instances, customers can review their logs to check for possible attempts to exploit this vulnerability:

- Check “`gitlab-rails/production_json.log`” for HTTP requests to the `/users/password` path with `params.value.email` consisting of a JSON array with multiple email addresses.
- Check “`gitlab-rails/audit_json.log`” for entries with `meta.caller.id` of `PasswordsController#create` and `target_details` consisting of a JSON array with multiple email addresses.

## References

[1] <https://about.gitlab.com/releases/2024/01/11/critical-security-release-gitlab-16-7-2-released/>