

Redmine - Feature #35001

Disable API authentication with username and password when two-factor authentication is enabled for the user

2021-04-02 05:18 - Go MAEDA

| | | | |
|--|---------------------------|------------------------|------------|
| Status: | Closed | Start date: | |
| Priority: | Normal | Due date: | |
| Assignee: | Marius BĂLTEANU | % Done: | 0% |
| Category: | Accounts / authentication | Estimated time: | 0.00 hour |
| Target version: | 5.0.0 | | |
| Resolution: | Fixed | | |
| Description <p>In Redmine 4.2, two-factor authentication has been introduced.</p> <p>When two-factor authentication is enabled, it becomes difficult for an attacker to log in to Redmine even if he knows the username and password.</p> <p>However, API authentication is not covered by two-factor authentication. Currently, there are three methods of API authentication:</p> <ol style="list-style-type: none">1. send the user's API key via X-Redmine-API-Key header2. basic authentication with the user's API key (username is the API key and password is a random string)3. basic authentication with user name and password <p>If you have two-factor authentication enabled, I think the third method will be problematic. This is because even though the web UI can prevent an attacker from logging in with an illegally obtained username and password, they can still use that username and password to access the data via the API.</p> <p>To address this risk, I suggest disabling basic authentication with username and password for users who have two-factor authentication enabled.</p> | | | |
| Related issues: | | | |
| Related to Redmine - Feature #1237: Add support for two-factor authentication | | Closed | 2008-05-14 |
| Related to Redmine - Defect #41220: API Access does not require second factor | | Closed | |

Associated revisions

Revision 21436 - 2022-02-24 20:10 - Marius BĂLTEANU

Disable API authentication with username and password when two-factor authentication is enabled for the user (#35001).

Patch by Go MAEDA.

Revision 21441 - 2022-02-25 08:57 - Marius BĂLTEANU

Update API test to use token based authentication when twofa is enabled for user (#35001).

History

#1 - 2021-04-02 05:26 - Go MAEDA

The following code is a sample implementation.

```
diff --git a/app/controllers/application_controller.rb b/app/controllers/application_controller.rb
index b5644e89d..ec64e74cf 100644
--- a/app/controllers/application_controller.rb
+++ b/app/controllers/application_controller.rb
@@ -129,7 +129,11 @@ class ApplicationController < ActionController::Base
   elsif /\ABasic/i.match?(request.authorization.to_s)
     # HTTP Basic, either username/password or API key/random
     authenticate_with_http_basic do |username, password|
-      user = User.try_to_login(username, password) || User.find_by_api_key(username)
+      user = User.try_to_login(username, password)
+      # Don't allow using username/password when two-factor auth is active
+      user = nil if user&.twofa_active?
+      user ||= User.find_by_api_key(username)
```

```
end
if user && user.must_change_password?
  render_error :message => 'You must change your password', :status => 403
end
```

#2 - 2021-06-22 20:07 - Marius BĂLTEANU
- Related to Feature #1237: Add support for two-factor authentication added

#3 - 2022-01-16 08:46 - Go MAEDA
- File 35001.patch added

Attaching a patch.

#4 - 2022-01-16 08:57 - Go MAEDA
- File deleted (35001.patch)

#5 - 2022-01-16 08:58 - Go MAEDA
- File 35001.patch added

#6 - 2022-02-03 08:08 - Go MAEDA
- Target version set to 5.0.0

Setting the target version to 5.0.0.

#7 - 2022-02-24 20:10 - Marius BĂLTEANU
- Status changed from New to Resolved
- Assignee set to Marius BĂLTEANU
- Resolution set to Fixed

Patch committed, thanks!

#8 - 2022-02-25 15:31 - Marius BĂLTEANU
- Status changed from Resolved to Closed

#9 - 2024-09-04 20:21 - Holger Just
- Related to Defect #41220: API Access does not require second factor added

| Files | | | |
|-------------|---------|------------|----------|
| 35001.patch | 1.88 KB | 2022-01-16 | Go MAEDA |