

Redmine - Feature #4221

Force passwords to contain specified character classes

2009-11-16 10:08 - jim joseph

Status:	Closed	Start date:	2009-11-16
Priority:	Normal	Due date:	
Assignee:	Go MAEDA	% Done:	0%
Category:	Accounts / authentication	Estimated time:	0.00 hour
Target version:	4.1.0		
Resolution:	Fixed		
Description			
<p>I would like to enforce strong password for users in redmine. As if now redmine will accept any four letter password. Is there a way that applicaton checks how strong a password is when a new user register in it.</p> <p>Can we implement any password generator with redmine?</p>			
Related issues:			
Related to Redmine - Feature # 3872: New user password - better functionality		Closed	2009-09-15
Related to Redmine - Feature # 3155: Password policy and secure logon procedure		New	2009-04-10
Related to Redmine - Defect # 37449: Passing a wrong parameter to `with_setti...		Closed	
Duplicated by Redmine - Feature # 25054: Enforcing Strong Password in Redmine		Closed	

Associated revisions

Revision 18411 - 2019-08-29 03:35 - Go MAEDA

Force passwords to contain specified character classes (#4221).

Patch by Takenori TAKAKI.

Revision 18412 - 2019-08-29 04:15 - Go MAEDA

Update locales (#4221).

Revision 18413 - 2019-08-29 09:15 - Go MAEDA

Update locales (#4221).

Revision 18414 - 2019-08-29 10:46 - Go MAEDA

Send security notifications when password_required_char_classes setting is changed (#4221).

History

#1 - 2009-11-16 19:37 - Jean-Philippe Lang

As of r2678, you can specify the minimum password length in settings.

But a minimum password strength setting could be also added (eg. Fair, Strong, Very strong) using kind of password strength meter.

#2 - 2009-11-19 20:35 - Jean-Philippe Lang

- Category set to Accounts / authentication

#3 - 2009-11-20 14:17 - Henrik Ammer

Jean-Philippe Lang wrote:

| *But a minimum password strength setting could be also added (eg. Fair, Strong, Very strong) using kind of password strength meter.*

I would love to see this!

#4 - 2013-07-18 11:28 - Samuel Suther

*1

#5 - 2013-08-01 19:52 - @ go2null

| *Can we implement any password generator with redmine?*

- Implemented in [v2.4.0](#) - Feature #3872 *New user password - better functionality*

#6 - 2013-08-02 04:18 - Toshi MARUYAMA

- Related to Feature #3872: *New user password - better functionality added*

#7 - 2014-03-04 08:21 - Simon O

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The new feature implemented in 2.4.0+ referring to Feature #3872 includes a secured password generator.

However, if users may change their password at first login, they may pick "aaaaaaaa" which is far away from being secure. Thus, I also recommend to add a kind of password security check as suggested by jim joseph.

Please reopen ticket.

Thanks a lot!

#8 - 2016-01-01 13:01 - Aleksandar Pavic

+1

There are some recent efforts as I can see.

https://github.com/simonswine/redmine_password_tool

https://github.com/go2null/redmine_account_policy

But this should be a core system feature, it is a must for enterprise use.

#9 - 2017-02-12 15:14 - Toshi MARUYAMA

- Duplicated by Feature #25054: *Enforcing Strong Password in Redmine added*

#10 - 2019-04-24 04:19 - Go MAEDA

- Related to Feature #3155: Password policy and secure logon procedure added

#11 - 2019-08-02 09:19 - Takenori TAKAKI

- File `enforce-password-char-types.patch` added

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If we can enforce password strength, Redmine will be used in environments where some security policy is required.

I post a patch, as I implemented the following features:

- Enable to setting password strength in admin settings
- Enable to selecting the enforce character types (Uppercase, Lowercase, Digits, Special characters).
- Validation for each enforce character types

#12 - 2019-08-07 05:15 - Go MAEDA

- Priority changed from High to Normal

- Target version set to Candidate for next major release

#13 - 2019-08-07 05:53 - Go MAEDA

I think the validation in attachment:`enforce-password-char-types.patch` should cover all ASCII special characters, such as '(', ')', '+', '-', and '_'. The following code does that.

```
diff --git a/app/models/setting.rb b/app/models/setting.rb
index b18f8ed89..4171fa04e 100644
--- a/app/models/setting.rb
+++ b/app/models/setting.rb
@@ -19,6 +19,13 @@
class Setting < ActiveRecord::Base

+ PASSWORD_REQUIRED_CHARACTER_CLASSES = {
+ 'uppercase' => /[A-Z]/,
+ 'lowercase' => /[a-z]/,
+ 'digits' => /[0-9]/,
+ 'special_characters' => /[[[:ascii:]]&&[:graph:]]&&[:^alnum:]]/
+ }
+
DATE_FORMATS = [
  '%Y-%m-%d',
  '%d/%m/%Y',
```

#14 - 2019-08-27 09:38 - Takenori TAKAKI

- File `enforce-password-char-types-v2.patch` added

Thank you Mr. Maeda.

I change a patch and post it again.

- Changed definition of 'special_characters' to the code proposed by Mr. Maeda
- Changed regular expression in validation of special characters. => Almost all special characters within the ASCII range can be used.
- Shortened constant and label names.
- On password generation, contain special characters only when special characters are required.
- Added display of usable characters such as "Change Password" Form.

#15 - 2019-08-27 11:49 - Go MAEDA

- Target version changed from Candidate for next major release to 4.1.0

LGTM. Setting the target version to 4.1.0.

#16 - 2019-08-28 05:58 - Go MAEDA

- File *setting-required-character-classes-for-passwords@2x.png* added

This is the screenshot of attachment:enforce-password-char-types-v2.patch. Admins can force users to include specified character classes (uppercase, lowercase, digits, or special Characters) in their password. This feature must be welcomed by many admins.

setting-required-character-classes-for-passwords@2x.png

#17 - 2019-08-29 03:35 - Go MAEDA

- Subject changed from *Enforcing Strong Password for Users to Force passwords to contain specified character classes*
- Status changed from *New to Closed*
- Assignee set to *Go MAEDA*
- Resolution set to *Fixed*

Committed the patch. Thank you for improving Redmine.

#19 - 2022-07-16 07:34 - Go MAEDA

- Related to Defect #37449: *Passing a wrong parameter to `with_settings` in UserTest::test_random_password_include_required_characters* added

Files

enforce-password-char-types.patch	7.98 KB	2019-08-02	Takenori TAKAKI
enforce-password-char-types-v2.patch	11 KB	2019-08-27	Takenori TAKAKI
setting-required-character-classes-for-passwords@2x.png	48.4 KB	2019-08-28	Go MAEDA