

## Redmine - Defect #35135

### FrozenError when new LDAP users try to login

2021-04-20 18:30 - Diego Maniero

<b>Status:</b>	Closed	<b>Start date:</b>	
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Go MAEDA	<b>% Done:</b>	0%
<b>Category:</b>	Accounts / authentication	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	4.2.1	<b>Affected version:</b>	4.2.0
<b>Resolution:</b>	Fixed		
<b>Description</b>			
<p>Using the official docker image I recently updated from 4.0.3 to 4.2.0, no plugins installed (anymore). Database is on mysql:5.7</p> <p>Since then new accounts and some existing users (2 out of 30) authenticating using LDAP started having issues logging in. Internal accounts work fine. LDAP authentication works fine for everyone else.</p> <pre>@I, [2021-04-20T15:46:52.874309 #1] INFO -- : Completed 500 Internal Server Error in 22ms (Active Record: 3.1ms), F, [2021-04-20T15:46:52.875489 #1] FATAL -- : , F, [2021-04-20T15:46:52.875538 #1] FATAL -- : FrozenError (can't modify frozen String: ""), F, [2021-04-20T15:46:52.875567 #1] FATAL -- : , F, [2021-04-20T15:46:52.875601 #1] FATAL -- : app/models/auth_source_ldap.rb:250:in `force_encoding',       app/models/auth_source_ldap.rb:250:in `get_attr',       app/models/auth_source_ldap.rb:199:in `get_user_attributes_from_ldap_entry',       app/models/auth_source_ldap.rb:236:in `block in get_user_dn',       app/models/auth_source_ldap.rb:232:in `get_user_dn',       app/models/auth_source_ldap.rb:59:in `block in authenticate',       app/models/auth_source_ldap.rb:144:in `block in with_timeout',       app/models/auth_source_ldap.rb:143:in `with_timeout',       app/models/auth_source_ldap.rb:58:in `authenticate',       app/models/user.rb:344:in `check_password?',       app/models/user.rb:244:in `try_to_login!',       app/controllers/account_controller.rb:311:in `password_authentication',       app/controllers/account_controller.rb:306:in `authenticate_user',       app/controllers/account_controller.rb:40:in `login',       lib/redmine/sudo_mode.rb:61:in `sudo_mode',@</pre>			
<b>Related issues:</b>			
Related to Redmine - Feature #31500: Ruby 2.7 support		Closed	

#### Associated revisions

##### Revision 20966 - 2021-04-23 05:02 - Go MAEDA

Ruby 2.7: FrozenError when new LDAP users try to login (#35135).

Patch by Pavel Rosický.

##### Revision 20967 - 2021-04-23 05:05 - Go MAEDA

Merged r20966 from trunk to 4.2-stable (#35135).

#### History

##### #1 - 2021-04-20 20:46 - Marius BĂLTEANU

- Description updated

- Status changed from New to Confirmed

- Target version set to 4.1.3

The following change should fix this issue:

```
diff --git a/app/models/auth_source_ldap.rb b/app/models/auth_source_ldap.rb
index 623359531..fd5f89582 100644
--- a/app/models/auth_source_ldap.rb
+++ b/app/models/auth_source_ldap.rb
@@ -247,7 +247,7 @@ class AuthSourceLdap < AuthSource
  def get_attr(entry, attr_name)
    if !attr_name.blank?
      value = entry[attr_name].is_a?(Array) ? entry[attr_name].first : entry[attr_name]
-     value.to_s.force_encoding('UTF-8')
+     value.dup.to_s.force_encoding('UTF-8')
    end
  end
end
```

## #2 - 2021-04-20 21:20 - Pavel Rosický

<https://stackoverflow.com/questions/63496532/nil-to-s-produces-a-frozen-string>

## #3 - 2021-04-21 01:37 - Go MAEDA

- Related to Feature #31500: Ruby 2.7 support added

## #4 - 2021-04-21 02:36 - Go MAEDA

According to [#35135#note-2](#), the error occurs when Ruby version is 2.7 or higher. If so, I don't think it's necessary to backport this fix to 4.1-stable that does not support Ruby 2.7.

## #5 - 2021-04-21 07:43 - Go MAEDA

- File 35135-test.diff added

Go MAEDA wrote:

According to [#35135#note-2](#), the error occurs when Ruby version is 2.7 or higher. If so, I don't think it's necessary to backport this fix to 4.1-stable that does not support Ruby 2.7.

Sorry, I withdraw my previous comment. The fix should also be backported to 4.1-stable. Even when using Ruby 2.5, auth\_source\_ldap\_test.rb updated by [35135-test.diff](#) causes FrozenError.

```
Error:
AuthSourceLdapTest#test_get_attr:
FrozenError: can't modify frozen String
  app/models/auth_source_ldap.rb:250:in `force_encoding'
  app/models/auth_source_ldap.rb:250:in `get_attr'
  test/unit/auth_source_ldap_test.rb:93:in `test_get_attr'
```

```
rails test test/unit/auth_source_ldap_test.rb:85
```

## #6 - 2021-04-21 13:05 - Pavel Rosický

Even when using Ruby 2.5, auth\_source\_ldap\_test.rb updated by 35135-test.diff causes FrozenError

attr strings in your test scenario are frozen due to # frozen\_string\_literal: true pragma. In reality, it should affect Ruby 2.7+ only and only if the attribute doesn't exist AuthSourceLdap.get\_attr(attr, 'invalid\_attr\_name') which leads to a case nil.to\_s which is frozen on Ruby 2.7, but not on previous versions.

looking at the Marius patch, I think it doesn't fix the error because

```
nil.dup.to_s.frozen? is still true
```

we should duplicate the string after the conversion

```
value.to_s.dup.force_encoding('UTF-8')
```

or even better like this

```
(+value.to_s).force_encoding('UTF-8')
```

**#7 - 2021-04-23 00:44 - Marius BĂLTEANU**

Pavel Rosický wrote:

looking at the Marius patch, I think it doesn't fix the error because  
[...]

You're right, thanks for pointing this out.

Lets fix this by using any of the fixes proposed by Pavel.

**#8 - 2021-04-23 05:05 - Go MAEDA**

- *Subject changed from FrozenError when new ldap users try to login. to FrozenError when new LDAP users try to login*
- *Status changed from Confirmed to Closed*
- *Assignee set to Go MAEDA*
- *Target version changed from 4.1.3 to 4.2.1*
- *Resolution set to Fixed*

Committed the fix. Thank you all for your contribution.

**Files**

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35135-test.diff	756 Bytes	2021-04-21	Go MAEDA
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