

Redmine - Defect #21453

LDAP account creation fails when first name/last name contain non ASCII

2015-12-08 03:41 - Haihan Ji

Status:	Closed	Start date:	
Priority:	Normal	Due date:	
Assignee:	Jean-Philippe Lang	% Done:	0%
Category:	LDAP	Estimated time:	0.00 hour
Target version:	3.2.1	Affected version:	3.2.0
Resolution:	Fixed		

Description

Maybe, redmine can add an encoding property to AuthSource.

```
$ ruby bin/about
```

```
sh: svn: command not found
```

```
sh: darcs: command not found
```

```
sh: hg: command not found
```

```
sh: cvs: command not found
```

```
sh: bzt: command not found
```

```
sh: git: command not found
```

Environment:

Redmine version 3.2.0.stable

Ruby version 2.2.1-p85 (2015-02-26) [x86_64-linux]

Rails version 4.2.5

Environment production

Database adapter Mysql2

SCM:

Filesystem

Redmine plugins:

no plugin installed

LOG

Started GET "/auth_sources/autocomplete_for_new_user?term=xxxx" for 10.10.93.107 at 2015-12-08 10:12:17 +0800

Processing by AuthSourcesController#autocomplete_for_new_user as JSON

Parameters: {"term"=>"xxxx"}

SQL (1.7ms) UPDATE `tokens` SET `tokens`.`updated_on` = '2015-12-08 10:12:17' WHERE `tokens`.`user_id` = 1 AND `tokens`.`value` = '5e869f0905478838585d8022d4347ea0cf68ee9e' AND `tokens`.`action` = 'session'

(0.5ms) SELECT MAX(`settings`.`updated_on`) FROM `settings`

User Load (0.5ms) SELECT `users`.* FROM `users` WHERE `users`.`type` IN ('User', 'AnonymousUser') AND `users`.`status` = 1 AND `users`.`id` = 1 LIMIT 1

Current user: admin (id=1)

AuthSource Load (0.5ms) SELECT `auth_sources`.* FROM `auth_sources`

Completed 500 Internal Server Error in 176ms (ActiveRecord: 3.2ms)

Encoding::UndefinedConversionError ("xE5" from ASCII-8BIT to UTF-8):

app/controllers/auth_sources_controller.rb:79:in `autocomplete_for_new_user'

lib/redmine/sudo_mode.rb:63:in `sudo_mode'

Rendered

/usr/local/rvm/gems/ruby-2.2.1/gems/actionpack-4.2.5/lib/action_dispatch/middleware/templates/rescues/_source.erb (3.6ms)

Rendered

/usr/local/rvm/gems/ruby-2.2.1/gems/actionpack-4.2.5/lib/action_dispatch/middleware/templates/rescues/_trace.text.erb

(0.8ms)

Rendered

/usr/local/rvm/gems/ruby-2.2.1/gems/actionpack-4.2.5/lib/action_dispatch/middleware/templates/rescues/_request_and_response.text.erb

se.text.erb (0.9ms)

Rendered

/usr/local/rvm/gems/ruby-2.2.1/gems/actionpack-4.2.5/lib/action_dispatch/middleware/templates/rescues/diagnostics.text.erb

(67.2ms)

The lastname is chinese.

\$ rails c

2.2.1 :001 > AuthSource.search(:xxxx)

```
AuthSource Load (0.4ms) SELECT `auth_sources`.* FROM `auth_sources`
=> [{"dn=>"*****", :firstname=>"", :lastname=>"\xE5\xA7\xAC\xE6\xB5\xB7\xE6\xB6\xB5", :mail=>"*****",
:auth_source_id=>1, :login=>"xxxx"}]
```

2.2.1 :002 > AuthSource.search(:xxxx).to_json

```
AuthSource Load (0.4ms) SELECT `auth_sources`.* FROM `auth_sources`
Encoding::UndefinedConversionError: "\xE5" from ASCII-8BIT to UTF-8
from /usr/local/rvm/gems/ruby-2.2.1/gems/activerecord-4.2.5/lib/active_support/core_ext/object/json.rb:34:in `encode'
from /usr/local/rvm/gems/ruby-2.2.1/gems/activerecord-4.2.5/lib/active_support/core_ext/object/json.rb:34:in `to_json'
from /usr/local/rvm/gems/ruby-2.2.1/gems/activerecord-4.2.5/lib/active_support/core_ext/object/json.rb:34:in
`to_json_with_active_support_encoder'
from /usr/local/rvm/gems/ruby-2.2.1/gems/activerecord-4.2.5/lib/active_support/json/encoding.rb:57:in `to_json'
from /usr/local/rvm/gems/ruby-2.2.1/gems/json-1.8.3/lib/json/common.rb:223:in `generate'
from /usr/local/rvm/gems/ruby-2.2.1/gems/json-1.8.3/lib/json/common.rb:223:in `generate'
from /usr/local/rvm/gems/ruby-2.2.1/gems/activerecord-4.2.5/lib/active_support/json/encoding.rb:101:in `stringify'
from /usr/local/rvm/gems/ruby-2.2.1/gems/activerecord-4.2.5/lib/active_support/json/encoding.rb:35:in `encode'
from /usr/local/rvm/gems/ruby-2.2.1/gems/activerecord-4.2.5/lib/active_support/json/encoding.rb:22:in `encode'
from /usr/local/rvm/gems/ruby-2.2.1/gems/activerecord-4.2.5/lib/active_support/core_ext/object/json.rb:37:in
`to_json_with_active_support_encoder'
from (irb):32
from /usr/local/rvm/gems/ruby-2.2.1/gems/railties-4.2.5/lib/rails/commands/console.rb:110:in `start'
from /usr/local/rvm/gems/ruby-2.2.1/gems/railties-4.2.5/lib/rails/commands/console.rb:9:in `start'
from /usr/local/rvm/gems/ruby-2.2.1/gems/railties-4.2.5/lib/rails/commands/commands_tasks.rb:68:in `console'
from /usr/local/rvm/gems/ruby-2.2.1/gems/railties-4.2.5/lib/rails/commands/commands_tasks.rb:39:in `run_command!'
from /usr/local/rvm/gems/ruby-2.2.1/gems/railties-4.2.5/lib/rails/commands.rb:17:in `<top (required)>'
from bin/rails:4:in `require'
from bin/rails:4:in `<main>'2.2.1 :003 >
```

Related issues:

Related to Redmine - Feature # 12811: ASCII-8BIT to UTF-8 problems -update ne...	Closed
Duplicated by Redmine - Defect # 21458: LDAP account creation fails when firs...	Closed
Duplicated by Redmine - Defect # 21528: LDAP user autcreation doesn't work w...	Closed

Associated revisions

Revision 15024 - 2016-01-09 11:17 - Jean-Philippe Lang

LDAP account creation fails when first name/last name contain non ASCII (#21453).

Patch by Haihan Ji.

Revision 15025 - 2016-01-09 11:18 - Jean-Philippe Lang

Stringify the attribute value before #force_encoding (#21453).

Revision 15075 - 2016-01-21 05:41 - Jean-Philippe Lang

Merged r15024 and r15025 (#21453).

History

#1 - 2015-12-08 04:05 - Toshi MARUYAMA

- Related to Feature #12811: ASCII-8BIT to UTF-8 problems -update net-ldap with net-ldap-1 -v0.4.0 added

#2 - 2015-12-08 04:35 - Toshi MARUYAMA

- Subject changed from Encoding::UndefinedConversionError: "\xE5" from ASCII-8BIT to UTF-8 to LDAP: Encoding::UndefinedConversionError: "\xE5" from ASCII-8BIT to UTF-8

#3 - 2015-12-08 04:37 - Toshi MARUYAMA

- Affected version set to 3.2.0

Try this patch.

```
diff --git a/app/models/auth_source_ldap.rb b/app/models/auth_source_ldap.rb
--- a/app/models/auth_source_ldap.rb
+++ b/app/models/auth_source_ldap.rb
@@ -84,7 +84,7 @@ class AuthSourceLdap < AuthSource
   attr[:login] = AuthSourceLdap.get_attr(entry, self.attr_login)
   results << attrs
   end
- results
+ results.collect {|item| item.force_encoding('UTF-8')}
   rescue Net::LDAP::LdapError => e
     raise AuthSourceException.new(e.message)
   end
```

#4 - 2015-12-08 09:05 - Haihan Ji

Toshi MARUYAMA wrote:

```
| Try this patch.
| [...]
|
```

This patch is not work, the item is a Hash, without 'force_encoding' method.

I think AuthSourceLdap.get_attr is a good place.

```
def self.get_attr(entry, attr_name)
  if attr_name.blank?
    value = entry[attr_name].is_a?(Array) ? entry[attr_name].first : entry[attr_name]
```

```
value.force_encoding('UTF-8')
end
end
```

#5 - 2015-12-08 09:19 - yoshinobu yoshida

Toshi MARUYAMA wrote:

```
| Try this patch.
```

I was patched. But i got an other error.

```
[root@redmine32 models]# diff auth_source_ldap.rb auth_source_ldap.rb.org
94c94
< results.collect {|item| item.force_encoding('UTF-8')}
---
> results
```

BEFORE

```
[2015-12-09 01:01:44.417073][15262] Started GET "/redmine/auth_sources/autocomplete_for_new_user?term=*****" for 192.168.16.253
at 2015-12-09 01:01:44 +0900
[2015-12-09 01:01:44.417846][15262] Processing by AuthSourcesController#autocomplete_for_new_user as JSON
[2015-12-09 01:01:44.417899][15262] Parameters: {"term"=>"*****"}
[2015-12-09 01:01:44.422393][15262] Current user: admin (id=1)
[2015-12-09 01:01:44.479656][15262] Completed 500 Internal Server Error in 62ms (ActiveRecord: 2.6ms)

[2015-12-09 01:01:44.480361][15262] Encoding::UndefinedConversionError ("\xE7" from ASCII-8BIT to UTF-8):
[2015-12-09 01:01:44.480361][15262] app/controllers/auth_sources_controller.rb:79:in `autocomplete_for_new_user'
[2015-12-09 01:01:44.480361][15262] lib/redmine/sudo_mode.rb:63:in `sudo_mode'
```

AFTER

```
[2015-12-09 00:56:35.824736][14847] Started GET "/redmine/auth_sources/autocomple_for_new_user?term=*****" for 192.168.16.253
at 2015-12-09 00:56:35 +0900
[2015-12-09 00:56:35.825657][14847] Processing by AuthSourcesController#autocomplete_for_new_user as JSON
[2015-12-09 00:56:35.825702][14847] Parameters: {"term"=>"*****"}
[2015-12-09 00:56:35.830259][14847] Current user: admin (id=1)
[2015-12-09 00:56:35.879744][14847] Completed 500 Internal Server Error in 54ms (ActiveRecord: 2.7ms)

[2015-12-09 00:56:35.880394][14847] NoMethodError (undefined method `force_encoding' for #<Hash:0x007f2fdb8dd4e0>):
[2015-12-09 00:56:35.880394][14847] app/models/auth_source_ldap.rb:94:in `block in search'
[2015-12-09 00:56:35.880394][14847] app/models/auth_source_ldap.rb:94:in `collect'
[2015-12-09 00:56:35.880394][14847] app/models/auth_source_ldap.rb:94:in `search'
[2015-12-09 00:56:35.880394][14847] app/models/auth_source.rb:61:in `block in search'
[2015-12-09 00:56:35.880394][14847] app/models/auth_source.rb:58:in `search'
[2015-12-09 00:56:35.880394][14847] app/controllers/auth_sources_controller.rb:77:in `autocomplete_for_new_user'
```

Haihan Ji wrote:

*This patch is not work, the item is a Hash, without 'force_encoding' method.
I think AuthSourceLdap.get_attr is a good place.*

I fixed, Thanks.

#6 - 2015-12-08 14:42 - Toshi MARUYAMA

- Target version set to 3.2.1

#7 - 2015-12-08 14:44 - Toshi MARUYAMA

- Duplicated by Defect #21458: LDAP account creation fails when first name/last name contain umlaut added

#8 - 2015-12-08 14:47 - Toshi MARUYAMA

- Subject changed from LDAP: Encoding::UndefinedConversionError: "\xE5" from ASCII-8BIT to UTF-8 to LDAP account creation fails when first name/last name contain non ASCII

#9 - 2015-12-09 16:59 - Alexander Ryabinovskiy

I confirm this bug, redmine 3.2.0 with net-ldap-0.12.1. If I rollback on net-ldap-0.3.1 - all is ok.

The LDAP server response is identical in both cases.

Haihan Ji wrote:

I think AuthSourceLdap.get_attr is a good place.

Yes, this works, thank you!

UPD:

Maybe more general solution exists? Maybe we need to use other version of net-ldap gem, or fix this gem?

I see the same error in Redmine Ldap Sync plugin:

ActionView::Template::Error (incompatible character encodings: UTF-8 and ASCII-8BIT):

```
1: <% @test.users_at_ldap.each do |(login, data)| -%>
2: <%= "#{([:label_user]) \#{login}\"" %>: <%= data == :not_found ?
3:   " #{([:label_not_found])\n" :
4:   "\n#{user_fields_list data[:fields], data[:groups]}" %>
5: <% end -%>
6: <% @test.groups_at_ldap.each do |(name, data)| -%>
7: <%= "#{([:label_group]) \#{name}\"" %>: <%= data == :not_found ?
```

lib/redmine/sudo_mode.rb:63:in `sudo_mode'

UPD2:

btw, here is the 4-years old issue related to this problem, in net-ldap github:

<https://github.com/ruby-ldap/ruby-net-ldap/issues/4>

It will be good, if someone can help to fix this net-ldap bug?

#10 - 2015-12-15 16:34 - Toshi MARUYAMA

- Duplicated by Defect #21528: LDAP user autocreation doesn't work with attributes with Cyrillic added

#11 - 2016-01-05 11:27 - Aleksandr Yarkov

Haihan Ji wrote:

```
| I think AuthSourceLdap.get_attr is a good place.  
| [...]
```

This Fix don't work to me until i convert result to a string.

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

#12 - 2016-01-09 11:19 - Jean-Philippe Lang

- Status changed from New to Resolved

- Assignee set to Jean-Philippe Lang

- Resolution set to Fixed

I've applied the fix from Haihan Ji and the comment above, thanks.

#13 - 2016-01-11 13:05 - Johan Eidenvall

Edit after comment 15: Oops, I missed r15025 somehow... Sorry for taking up your time.

I needed national chars in the First/Last Name fields from LDAP, so I cherry-picked the changes in r15024 (which is the change that Haihan Ji suggested above).

However this does not play nice with cases when a field is unavailable from the LDAP server.

We don't have the email property set for all LDAP accounts in the AD, but it is set for some of the users so I wanted to use the property when available.

Before this patch: if the email property was set accounts are auto-created without any further questions, and without the email set the user is asked for it when auto-creating his account.

Now, after the patch, if the email property is not set I get the following error message in the log during account auto-creation:

```
Error during authentication: undefined method `force_encoding' for nil:NilClass
```

I changed the code to only call the force_encoding method if value is non-nil:

```
def self.get_attr(entry, attr_name)  
  if !attr_name.blank?
```

```
value = entry[attr_name].is_a?(Array) ? entry[attr_name].first : entry[attr_name]
value.force_encoding('UTF-8') unless value.nil?
end
end
```

~~(This is the first line of Ruby I've written and I am not sure I did it right... But i think it solves the problem by not calling force_encoding if value is nil.)~~

#14 - 2016-01-12 01:31 - Toshi MARUYAMA

- Status changed from Resolved to New

#15 - 2016-01-12 07:58 - Jean-Philippe Lang

- Status changed from New to Resolved

You need to apply r15025 as well to prevent this error.

#16 - 2016-01-21 05:42 - Jean-Philippe Lang

- Status changed from Resolved to Closed

Merged in 3.2-stable.