

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 (0.9ms)
  Rendered /usr/local/rvm/gems/ruby-2.2.1/gems/actionpack-4.2.5/lib/action_dispatch/middleware/templates/rescues/agnostics.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\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/activesupport-4.2.5/lib/active_support/core_ext/object/json.rb:34:in `encode'
  from /usr/local/rvm/gems/ruby-2.2.1/gems/activesupport-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/activesupport-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/activesupport-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/activesupport-4.2.5/lib/active_support/json/encoding.rb:101:in `stringify'
  from /usr/local/rvm/gems/ruby-2.2.1/gems/activesupport-4.2.5/lib/active_support/json/encoding.rb:35:in `encode'
  from /usr/local/rvm/gems/ruby-2.2.1/gems/activesupport-4.2.5/lib/active_support/json/encoding.rb:22:in `encode'
  from /usr/local/rvm/gems/ruby-2.2.1/gems/activesupport-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 `'
  from bin/rails:4:in `require'
  from bin/rails:4:in `'
2.2.1 :003 >
```

Related issues:

Related to Redmine - Feature #12811: ASCII-8BIT to UTF-8 problems -update net...	Closed
Has duplicate Redmine - Defect #21458: LDAP account creation fails when first...	Closed
Has duplicate Redmine - Defect #21528: LDAP user autocreation doesn't work wi...	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
     attrs[: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.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/autocomplete_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:0x007f2fdb8dd4
e0>):
[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_u
ser'
[2015-12-09 00:56:35.880394][14847]   lib/redmine/sudo_mode.rb:63:in `sudo_mode'
```

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

- Has duplicate 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: <%= "#{l(:label_user)} \#{login}\" %>: <%= data == :not_found ?
 3:   "#{l(: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: <%= "#{l(: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

- Has duplicate 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 changed 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.