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# LDAP Authentication Troubleshooting via foreman-rake - LdapFluff::Generic::UnauthenticatedException: Could not bind to ActiveDirectory user in Red Hat Satellite 6.

👍 SOLUTION VERIFIED - Updated August 25 2019 at 5:35 AM - English ▼

## Environment

- Red Hat Satellite 6.x

## Issue

- Usually, it is necessary to execute steps to confirm if Red Hat Satellite is correctly configured or just to enable the Authentication feature to the customer. On this document, we will present some commands to:
  - Test the connectivity between Red Hat Satellite and External Authentication Source
  - Test valid users and all information about them
  - Test valid groups and all information about this

## Resolution

- The resolution will vary according to the issue. Please raise Red Hat Support Case

## Root Cause

- It is necessary to analyze all LDAP Authentication configuration just to define the main reason.

# Diagnostic Steps

- Below are some commands just to check/test/debug our LDAP Authentication Source

- Accessing *foreman rake console*

```
[root@satellite ~]# foreman-rake console
/opt/theforeman/tfm/root/usr/share/gems/gems/foreman_theme_satellite-
0.1.41/app/models/concerns/satellite_packages.rb:4: warning: already initialized
constant Katello::Ping::PACKAGES
/opt/theforeman/tfm/root/usr/share/gems/gems/katello-
3.0.0.105/app/models/katello/ping.rb:7: warning: previous definition of PACKAGES was
here /usr/share/foreman/lib/tasks/console.rake:4: warning: already initialized
constant ARGV Loading production environment (Rails 4.1.5) irb(main):001:0>
```

- Command to see all Sources created on Red Hat Satellite Server. Please take a note about the AuthSourceLdap id.

```
irb(main):001:0> AuthSourceLdap.all => #<ActiveRecord::Relation [#<AuthSourceLdap id:
3, type: "AuthSourceLdap", name: "w2k8", host: "10.12.211.58", port: 389, account:
"administrator@domain", account_password: "encrypted-
Y0Jud1FBM084Nk1TenEyV3gwRXZEZ2pCNHpGaFgy...", base_dn: "dc=domain,dc=example",
attr_login: "sAMAccountName", attr_firstname: "givenName", attr_lastname: "sn",
attr_mail: "mail", onthefly_register: true, tls: false, created_at: "2017-03-27
18:47:25", updated_at: "2017-03-27 19:11:56", ldap_filter: "", attr_photo:
"jpegPhoto", server_type: "active_directory", groups_base: "", usergroup_sync:
true>]> irb(main):002:0>
```

- Attributing the query output to source\_now  
*source\_now = AuthSourceLdap.find\_by\_id()*

```
irb(main):002:0> source_now = AuthSourceLdap.find_by_id(3) => #<AuthSourceLdap id: 3,
type: "AuthSourceLdap", name: "w2k8", host: "10.12.211.58", port: 389, account:
"administrator@domain", account_password: "encrypted-
Y0Jud1FBM084Nk1TenEyV3gwRXZEZ2pCNHpGaFgy...", base_dn: "dc=domain,dc=example",
attr_login: "sAMAccountName", attr_firstname: "givenName", attr_lastname: "sn",
attr_mail: "mail", onthefly_register: true, tls: false, created_at: "2017-03-27
18:47:25", updated_at: "2017-03-27 19:11:56", ldap_filter: "", attr_photo:
"jpegPhoto", server_type: "active_directory", groups_base: "", usergroup_sync: true>
irb(main):003:0>
```

- Creating the connection

```

irb(main):003:0> conn = source_now.ldap_con Successfully decrypted field for
AuthSourceLdap w2k8 => #<LdapFluff:0x000000096c9608 @ldap=#
<LdapFluff::ActiveDirectory:0x000000096c34b0 @ldap=#<Net::LDAP:0x000000096c3460
@host="10.12.211.58", @port=389, @hosts=nil, @verbose=false, @auth=
{:method=>:anonymous}, @base="dc=domain,dc=example", @force_no_page=false,
@encryption=nil, @connect_timeout=nil,
@instrumentation_service=ActiveSupport::Notifications, @open_connection=nil>,
@bind_user="administrator@domain", @bind_pass="Redhat1!", @anon=false,
@attr_login="sAMAccountName", @base="dc=domain,dc=example",
@group_base="dc=domain,dc=example", @member_service=#
<LdapFluff::ActiveDirectory::MemberService:0x000000096c3438
@attr_login="sAMAccountName", @ldap=#<Net::LDAP:0x000000096c3460
@host="10.12.211.58", @port=389, @hosts=nil, @verbose=false, @auth=
{:method=>:anonymous}, @base="dc=domain,dc=example", @force_no_page=false,
@encryption=nil, @connect_timeout=nil,
@instrumentation_service=ActiveSupport::Notifications, @open_connection=nil>,
@base="dc=domain,dc=example", @group_base="dc=domain,dc=example">>,
@instrumentation_service=ActiveSupport::Notifications> irb(main):004:0>

```

- Testing if this is one valid user on AD *conn.valid\_user?("")*

```

irb(main):004:0> conn.valid_user?('waldirio') => true irb(main):005:0>

```

- Retrieving information from the AD user *conn.find\_user("")*

```

irb(main):011:0> conn.find_user('waldirio') => [#<Net::LDAP::Entry:0x00000008f55660
@myhash={:dn=>["CN=Waldirio Pinheiro,CN=Users,DC=domain,DC=example"], :objectclass=>
["top", "person", "organizationalPerson", "user"], :cn=>["Waldirio Pinheiro"], :sn=>
["Pinheiro"], :givenname=>["Waldirio"], :distinguishedname=>["CN=Waldirio
Pinheiro,CN=Users,DC=domain,DC=example"], :instancetype=>["4"], :whencreated=>
["20170328011139.0Z"], :whenchanged=>["20170328021241.0Z"], :displayname=>["Waldirio
Pinheiro"], :usncreated=>["12727"], :usnchanged=>["12750"], :name=>["Waldirio
Pinheiro"], :objectguid=>["\x9B6\xa\xEE\x1Fv\xE0G\xA0`\x11R\x84\xA8\xEE\xB0"],
:useraccountcontrol=>["66048"], :badpwdcount=>["0"], :codepage=>["0"], :countrycode=>
["0"], :badpasswordtime=>["131351408863120239"], :lastlogoff=>["0"], :lastlogon=>
["131351408965768419"], :pwdlastset=>["131351370995145728"], :primarygroupid=>
["513"], :objectsid=>
["\x01\x05\x00\x00\x00\x00\x05\x15\x00\x00\x00\x9B\x8CB!n\xDDX\xD1\xB2\xF5\x8C\xE
F0\x04\x00\x00"], :accountexpires=>["9223372036854775807"], :logoncount=>["0"],
:samaccountname=>["waldirio"], :samaccounttype=>["805306368"], :userprincipalname=>
["waldirio@domain.example"], :objectcategory=>
["CN=Person,CN=Schema,CN=Configuration,DC=domain,DC=example"],
:dscorepropagationdata=>["16010101000000.0Z"], :lastlogontimestamp=>
["131351407246645400"], :mail=>["waldirio@redhat.com"]}]> irb(main):012:0>

```

- Testing if this is one valid group on AD *conn.valid\_group?("")*

```

irb(main):021:0> conn.valid_group?('Satellite') => true irb(main):022:0>

```

- Retrieving information from the AD group `conn.find_group("")`

```
irb(main):022:0> conn.find_group('Satellite') => [#<Net::LDAP::Entry:0x00000007139c08
@myhash={:dn=>["CN=Satellite,CN=Users,DC=domain,DC=example"], :objectclass=>["top",
"group"], :cn=>["Satellite"], :member=>["CN=Pedro Teixeira
Pinheiro,CN=Users,DC=domain,DC=example", "CN=Waldirio
Pinheiro,CN=Users,DC=domain,DC=example"], :distinguishedname=>
["CN=Satellite,CN=Users,DC=domain,DC=example"], :instancetype=>["4"], :whencreated=>
["20170330195625.0Z"], :whenchanged=>["20170330200155.0Z"], :usncreated=>["13041"],
:usnchanged=>["13055"], :name=>["Satellite"], :objectguid=>
["\xDE\xF9\xCC#\x8D\x820I\x96\xD84Q\x8F\xA8\xD6\xB5"], :objectsid=>
["\x01\x05\x00\x00\x00\x00\x05\x15\x00\x00\x00\x00\x9B\x8CB!n\xDDX\xD1\xB2\xF5\x8C\xE
FQ\x04\x00\x00"], :samaccountname=>["Satellite"], :samaccounttype=>["268435456"],
:grouptype=>["-2147483646"], :objectcategory=>
["CN=Group,CN=Schema,CN=Configuration,DC=domain,DC=example"],
:dscorepropagationdata=>["16010101000000.0Z"]}]} irb(main):023:0>
```

- List all members of one specific AD group `conn.user_list("")`

```
irb(main):015:0> conn.user_list('Satellite') => ["pedro", "waldirio"]
irb(main):016:0>
```

- In case of failure

- There isn't the user *waldiriofake*

```
irb(main):017:0> conn.valid_user?('waldiriofake') => false
```

- If Red Hat Satellite try to retrieve the same user for any reason, we will face the issue according below

```

irb(main):018:0> conn.find_user('waldiriofake')
LdapFluff::ActiveDirectory::MemberService::UIDNotFoundException:
LdapFluff::ActiveDirectory::MemberService::UIDNotFoundException from
/opt/theforeman/tfm/root/usr/share/gems/gems/ldap_fluff-
0.4.5/lib/ldap_fluff/generic_member_service.rb:20:in `find_user' from
/opt/theforeman/tfm/root/usr/share/gems/gems/ldap_fluff-
0.4.5/lib/ldap_fluff/ldap_fluff.rb:77:in `block in find_user' from
/opt/theforeman/tfm/root/usr/share/gems/gems/ldap_fluff-
0.4.5/lib/ldap_fluff/ldap_fluff.rb:94:in `block in instrument' from /opt/rh/rh-
ror41/root/usr/share/gems/gems/activesupport-
4.1.5/lib/active_support/notifications.rb:159:in `block in instrument' from
/opt/rh/rh-ror41/root/usr/share/gems/gems/activesupport-
4.1.5/lib/active_support/notifications/instrumenter.rb:20:in `instrument' from
/opt/rh/rh-ror41/root/usr/share/gems/gems/activesupport-
4.1.5/lib/active_support/notifications.rb:159:in `instrument' from
/opt/theforeman/tfm/root/usr/share/gems/gems/ldap_fluff-
0.4.5/lib/ldap_fluff/ldap_fluff.rb:93:in `instrument' from
/opt/theforeman/tfm/root/usr/share/gems/gems/ldap_fluff-
0.4.5/lib/ldap_fluff/ldap_fluff.rb:76:in `find_user' from (irb):18 from /opt/rh/rh-
ror41/root/usr/share/gems/gems/railties-4.1.5/lib/rails/commands/console.rb:90:in
`start' from /opt/rh/rh-ror41/root/usr/share/gems/gems/railties-
4.1.5/lib/rails/commands/console.rb:9:in `start' from
/usr/share/foreman/lib/tasks/console.rake:6:in `block in <top (required)>' from
/opt/rh/rh-ruby22/root/usr/share/gems/gems/rake-10.4.2/lib/rake/task.rb:240:in `call'
from /opt/rh/rh-ruby22/root/usr/share/gems/gems/rake-10.4.2/lib/rake/task.rb:240:in
`block in execute' from /opt/rh/rh-ruby22/root/usr/share/gems/gems/rake-
10.4.2/lib/rake/task.rb:235:in `each' from /opt/rh/rh-
ruby22/root/usr/share/gems/gems/rake-10.4.2/lib/rake/task.rb:235:in `execute' from
/opt/rh/rh-ruby22/root/usr/share/gems/gems/rake-10.4.2/lib/rake/task.rb:179:in `block
in invoke_with_call_chain' from /opt/rh/rh-
ruby22/root/usr/share/ruby/monitor.rb:211:in `mon_synchronize' from /opt/rh/rh-
ruby22/root/usr/share/gems/gems/rake-10.4.2/lib/rake/task.rb:172:in
`invoke_with_call_chain' from /opt/rh/rh-ruby22/root/usr/share/gems/gems/rake-
10.4.2/lib/rake/task.rb:165:in `invoke' from /opt/rh/rh-
ruby22/root/usr/share/gems/gems/rake-10.4.2/lib/rake/application.rb:150:in
`invoke_task' from /opt/rh/rh-ruby22/root/usr/share/gems/gems/rake-
10.4.2/lib/rake/application.rb:106:in `block (2 levels) in top_level' from
/opt/rh/rh-ruby22/root/usr/share/gems/gems/rake-10.4.2/lib/rake/application.rb:106:in
`each' from /opt/rh/rh-ruby22/root/usr/share/gems/gems/rake-
10.4.2/lib/rake/application.rb:106:in `block in top_level' from /opt/rh/rh-
ruby22/root/usr/share/gems/gems/rake-10.4.2/lib/rake/application.rb:115:in
`run_with_threads' from /opt/rh/rh-ruby22/root/usr/share/gems/gems/rake-
10.4.2/lib/rake/application.rb:100:in `top_level' from /opt/rh/rh-
ruby22/root/usr/share/gems/gems/rake-10.4.2/lib/rake/application.rb:78:in `block in
run' from /opt/rh/rh-ruby22/root/usr/share/gems/gems/rake-
10.4.2/lib/rake/application.rb:176:in `standard_exception_handling' from /opt/rh/rh-
ruby22/root/usr/share/gems/gems/rake-10.4.2/lib/rake/application.rb:75:in `run' from
/opt/rh/rh-ruby22/root/usr/bin/rake:33:in `' irb(main):019:0>

```