

## Foreman - Bug #13749

### Getting avatar from openldap seems to be broken

02/17/2016 04:16 AM - Dirk Götz

<b>Status:</b>	Closed	
<b>Priority:</b>	Normal	
<b>Assignee:</b>	Daniel Lobato Garcia	
<b>Category:</b>	Authentication	
<b>Target version:</b>	1.18.0	
<b>Difficulty:</b>		<b>Fixed in Releases:</b>
<b>Triaged:</b>	No	<b>Found in Releases:</b> 1.15.0
<b>Bugzilla link:</b>	1573243	<b>Red Hat JIRA:</b>
<b>Pull request:</b>	<a href="https://github.com/theforeman/foreman/pull/5630">https://github.com/theforeman/foreman/pull/5630</a> , <a href="https://github.com/theforeman/foreman/pull/5717">https://github.com/theforeman/foreman/pull/5717</a>	

#### Description

I created a user with the following ldif:

```
dn: cn=dgoetz,ou=users,dc=localdomain
objectClass: inetOrgPerson
cn: dgoetz
sn: Goetz
description: Dirk Goetz
userPassword: {SSHA}SmI4N/QECJfMFprv9sMnTD7KZUq46Yw8
givenName: Dirk
mail: dgoetz@localdomain
uid: dgoetz
jpegPhoto:< file:///root/dgoetz.jpg
```

When I login with the user the avatar is downloaded and the file is created but is not a valid picture.

```
# file /var/lib/foreman/public/assets/avatars/6e15a0e85405ddd9f25abc3aee0b212ea2ca6bfb.jpg
/var/lib/foreman/public/assets/avatars/6e15a0e85405ddd9f25abc3aee0b212ea2ca6bfb.jpg: data
```

If I search the ldap I get:

```
# dgoetz, users, localdomain
dn: cn=dgoetz,ou=users,dc=localdomain
objectClass: inetOrgPerson
cn: dgoetz
sn: Goetz
description: Dirk Goetz
userPassword:: e1NTSEF9U21JNE4vUUVDSmZNRnBydjlzTW5URDdLW1VxNDZZdzg=
givenName: Dirk
mail: dgoetz@localdomain
uid: dgoetz
jpegPhoto:: /9j/4AAQSkZJRgABAQEBAxEBwFnAAD/4gxYSUNDX1BST0ZJTEUAAQEAAAxITGlubwIQAA
BtbnRyUkdCIEFhZWIhZgACAAkABgAxAAABhY3NwTVNGVAAAABJRUMgc1JHQgAAAAAAAAAAAAAAAAQA
A9tYAAQAAADTLUhQICAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAABFjchJ0AAABUAAAADNkZXNjAAABhAAAAGx3dHB0AAAB8AAAABRia3B0AAACBAAAABRyWFlaA
AACGAAAABRnWFlaAAACLAAAABRiWFlaAAACQAAAABRkbW5kAAACVAAAABHkbWRkAAACxAAAAIh2dW
VkaAADTAAAAIZ2aWV3AAAD1AAACRsdWlpAAAD+AAAABRTZWFzAAAEDAAAACR0ZWN0AAAEMAAAAAx
yVFJDAAAEPAAACAxnVFJDAAAEPAAACAxVFJDAAAEPAAACAx0ZXh0AAAAAENvcHlyaWdodCAoYykg
MTk5OCBIZXdzZXR0LVBhY2thcmQgQ292cGFueQAAZGVzYwAAAAAAAAAASc1JHQiBJRUM2MTk2Ni0yL
jEAAAAAAAAAAAAAAAAABJzUkdCIElFQzYxOTY2LTIuMQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAWFlaIAAAAAAAAAAPNRAAEAAAABFsxYVWogAAAAAAAAAAAA
AAAAAFhZWiAAAAAAAAABvogAAOPUAAAQWFlaIAAAAAAAAAAGKZAAC3hQAAGNpYWVogAAAAAAAAJKAA
AA+EAAC2z2Rlc2MAAAAAAAAAAFk1FQyBodHRwOi8vd3d3Lm1lYy5jaAAAAAAAAAAAAAAAAAFk1FQyBod
HRwOi8vd3d3Lm1lYy5jaAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
```



removing the to\_utf8 for testing showed the same result.

#### Related issues:

Has duplicate Foreman - Bug #15127: Photo attribute configured for LDAP sourc...

Duplicate

05/22/2016

#### Associated revisions

##### Revision 87194fab - 06/07/2018 03:53 PM - Daniel Lobato Garcia

Fixes #13749 - Handle Base64 and binary LDAP avatars

Before this change, we would always try to Base64.decode absolutely any avatar. This resulted in broken images, as sometimes the avatars are automatically turned into binary by net/ldap. In such cases, we want to save that directly, no decoding needed.

We also had a minor bug - when a user gets its LDAP avatar updated, the old one could not be deleted. This results in **broken** log in. The bug was quite minor, the variable where the file was supposed to be was simply undefined.

#### History

##### #1 - 04/22/2017 01:16 PM - John Beranek

I'm seeing this issue too, the avatars obtained from our Active Directory are not being saved correctly:

```
$ od -c /var/lib/foreman/public/assets/avatars/54cf8135e2114eb915bcbfaf162f324eeab26293.jpg
```

```
[18:14:38]
```

```
0000000 $ R 005 034 p 276 \b 257 ( 270 %
```

```
0000013
```

There is also another issue, as when the Foreman pages try to download the avatar image they get a 404:

```
foreman-ssl_access_ssl.log:10.4.4.48 - - [22/Apr/2017:18:12:44 +0100] "GET /images/avatars/54cf8135e2114eb915bcbfaf162f324eeab26293.jpg HTTP/1.1" 404 1564 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/57.0.2987.133 Safari/537.36"
```

This is with Foreman 1.14.3/Katello 3.3.1

##### #2 - 06/06/2017 06:33 AM - Thomas Steudten

- Priority changed from Low to Normal

Hi

foreman-1.15.0 contains the same bug. I tried a little bit to find out what happen.

My fix is this:

Edit in this file: /usr/share/foreman/app/models/auth\_sources/auth\_source\_ldap.rb like this:

```
def store_avatar/avatar)
#avatar = avatar.to_utf8
avatar_hash = Digest::SHA1.hexdigest(avatar)
avatar_file = "#{avatar_path}/#{avatar_hash}.jpg"
unless FileTest.exist? avatar_file
FileUtils.mkdir_p(avatar_path)
#File.open(avatar_file, 'wb') { |f| f.write(Base64.decode64(avatar)) }
File.open(avatar_file, 'wb') { |f| f.write(avatar) }
end
avatar_hash
end
```

Maybe you have to add one more symbolic-link here: /var/lib/foreman/public/images -> assets.

Keep sure, to set the owner and group to foreman:foreman.

Restart foreman and httpd and it will give you the avatar picture back.

```
file 4043ebc4b8943415326ff6d78f887c7a040ebb62.jpg
```

```
4043ebc4b8943415326ff6d78f887c7a040ebb62.jpg: JPEG image data, JFIF standard 1.01
```

Thomas

##### #3 - 11/26/2017 12:32 PM - Tomer Brisker

- Has duplicate Bug #15127: Photo attribute configured for LDAP source, image not displayed added

##### #4 - 02/12/2018 04:41 PM - Dirk Götz

I can confirm the mentioned fix works.

For the code change I could create a pull request, but I have no idea where the symlink has to be created or if it would be better to change the URL instead (where I could not find the origin of).

#### #5 - 03/26/2018 03:02 PM - Derek Wright

Did some testing on this and the issue appears to be that net/ldap will automatically convert the base64 data to binary representation (Net::BER::BerIdentifiedString). We can check the type by doing the following in app/models/auth\_sources/auth\_source\_ldap.rb(line 218):

```
avatar = avatar.instance_of?(Net::BER::BerIdentifiedString) ? avatar : avatar.to_utf8
```

Now, where I'm getting hung up is how we want to handle writing the data, I don't want to move the base64 decode up sooner in the logic as it will increase overhead on every login. There is also the possibility to maybe use MimeMagic and detect the current filetype and if its not image/jpeg, overwrite the file (this will also have a small performance penalty). Looking for some thoughts on how best to implement that part from the Devs.

app/models/auth\_sources/auth\_source\_ldap.rb(line 224):

```
File.open(avatar_file, 'wb') { |f| f.write(Base64.decode64(avatar)) }  
# This base64 will only need to be done if its NOT instance_of Net::BER::BerIdentifiedString
```

#### #6 - 04/30/2018 03:07 PM - Suraj Patil

- Bugzilla link set to 1573243

#### #7 - 05/31/2018 02:22 PM - The Foreman Bot

- Status changed from New to Ready For Testing
- Assignee set to Daniel Lobato Garcia
- Pull request <https://github.com/theforeman/foreman/pull/5630> added

#### #8 - 06/07/2018 03:54 PM - Tomer Brisker

- translation missing: en.field\_release set to 353

#### #9 - 06/07/2018 04:01 PM - Daniel Lobato Garcia

- Status changed from Ready For Testing to Closed
- % Done changed from 0 to 100

Applied in changeset [87194fab8d485084cbad7c407a6579d9618aac56](#).

#### #10 - 06/27/2018 06:04 AM - Ondřej Pražák

- Triaged set to No
- Pull request <https://github.com/theforeman/foreman/pull/5717> added

#### #11 - 06/27/2018 06:04 AM - Ondřej Pražák

- translation missing: en.field\_release changed from 353 to 330