

Foreman - Bug #13749

Getting avatar from openldap seems to be broken

02/17/2016 04:16 AM - Dirk Götz

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

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:: e1NTSEF9U21JNE4vUUVD SmZN RnBydj1zTW5URDdLWlVxNDZzdzg=
givenName: Dirk
mail: dgoetz@localdomain
uid: dgoetz
jpegPhoto:: /9j/4AAQSkZJRgABAQEBZwFnAAD/4gxYSUNDX1BST0ZJTEUAQEEAAxITGlubwIQAA
BtbnRyUkdCIFhZWiaHzgACAAkABgAxAA B hY3NwTVNGVAAAABJRUMgc1JHQgAAAAAAAAAAAAAQA
A9tYAAQAAAADTLUhQICAAAAA AAAAAA AAAAAA AAAAAA AAAAAA AAAAAA AAAAAA AAAAAA AAAAAA
AAAAABFjchJ0AAABUAAAADNkZXNjAAABhAAAAGx3dHB0AAAB8AAAABRia3B0AACBAAAABRyWF1aA
AACGAAAABRnWF1aAAACLAAAABRiWF1aAACQAAAABRkbW5kAACVAAAABk bWRkAACxAAAAIh2dW
V kAAADTAAAIZ2aWV3AAD1AAAACRsdW1pAAAD+AAAABRTZWFzAAAEDAAA CR0ZWN oAAAEMAAAAAx
YVFJDAAAEPAAACAxnVFJDAAAEPAAACAx i VFJDAAAEPAAACAx0Zxh0AAAAAENvcH1yaWdodCAoYykg
MTk5OCBIZXdsZXRO1VBhY2thcmQgQ29tcGFueQAAZGVzYwAAAAAAAASc1JHQiBJRUM2MTk2Ni0yL
jeAAAAAAAAAAABJzUkdCIE1FQzYxOTY2LTi uMQAAAAAAA AAAAAA AAAAAA AAAAAA AAAAAA AAAAAA
AAAAA AAAAAA AAAAAA
AAAAA AAAAAA AAAAAA
AA+EAAC2z2R1c2MAAAAAAAAFk1FQyBodHRwOi8vd3d3Lm11Yy5jaAAAAAAAAAAAFk1FQyBod
HRwOi8vd3d3Lm11Yy5jaAAAAAAAAAAAFk1FQyBodHRwOi8vd3d3Lm11Yy5jaAAAAAAAAAAAFk1FQyBod
```

AAAABkZXNjAAAAAAAAAC5JRUMgNjE5NjYtMi4xIER1ZmF1bHQgUkdCIGNvbG91ciBzcGFjZSAtiHN
 SR0IAAAAAAAAAAAAC5JRUMgNjE5NjYtMi4xIER1ZmF1bHQgUkdCIGNvbG91ciBzcGFjZSAtiHN
 ROIAAAAAAAAAAAAAAAZGVzYwAAAAAAAAAsUmVmZXJlbn1IFZpZXdpbmCGQ29uZ
 G10aW9uIGluIE1FQzYxOTY2LTiMqAAAAAAAAAALFJ1ZmVyZW5jZSBWaWV3aW5nIENvbmRpG
 lvbiBpbIBJRUM2MTk2Ni0yLjeAAAAAAAAAAAAAAAHZpZXcAAAAAAABOk/gA
 UXy4AEM8UAAPtzAAEEwsAA1yeAAAAAVhZWiaAAAAAAEwJVgBQAAAAX/nbWVhcwAAAAAAABAAAA
 AAAAAAAo8AAAACc2lnIAAAABDU1QgY3VydgAAAAAAQAAAABQAKAA8AFAAZA
 B4AIwAoAC0AMgA3ADsAQABFAEoATwBUAFkAXgBjAGgAbQByAhcAfACBAIYAiwCQAJUAmgCfAKQAqQ
 CuALIAtwC8AMEAxgDLANAA1QDbAOAA5QDrAPAA9gD7AQEBBwENARMBGQEfasUBKwEyATgBPgFFAUw
 BUgFZAWABZwFuAXUBfAGDAYsBkgGaAaEBqQGxBkBwQHJAdEB2QHhAekB8gH6AgMCDAIUah0CJgIv
 A/jgCQQJLA1QCXQJnAnEcgeKEAo4CmAKiAqwgCtgLBAssC1QlgAusC9QMAawsDFgMhAy0DOANDA08DW
 gNmA3IDf9OKA5YDoggOuA7oDxwPTA+AD7AP5BAYEEwQgBC0EOwRIBFUEYwRxBH4EjASaBKgEtgTEBN
 ME4QTwBP4FDQuCBSsFOgVJBvgFZwV3BYF1gWmBbUFxQXVBefU9gYGBhYGJwY3BkgGWQZqBnsGjAa
 dBqg8GwAbRBuMG9QcHBxkHKw9B08HYQd0B4YHmQesB78H0gflB/gICwgfCDIIRghaCG4IggiWCKoI
 vggjSCoC1+wkQCSUJ0g1PCWQJeQmPCaQJugnPceUJ+woRCicKPQpUCmoKgQqYc4KxQrcCvMLCwsic
 zkLUQtPc4ALmAuwC8gL4Qv5DBIMKgxDDFwMdQyODKcmwAzZDPMNDQ0mDUANw10DY4NqQ3DDd4N+A
 4TDi4OSQ5kDn80mw62DtIO7g8JDyUPQQ9eD3oPlg+zD88P7BAJECYQQxBhEH4QmxC5ENcQ9RETE
 RTxFTeywRqhHJEegSBxImEkUSZBKEqMSwxLjewMTIxNDE2MTgxOkE8UT5RQGFCCUSRRqFisUrRTO
 FPAVEhU0FVYVeBwBFB0V4BYDFiYWSRZsFo8WshbWFv0XHrdBF2UXiReuF9IX9xbGEAYZRiKGK8Y1
 Rj6GSAZRR1rGZEZtxndGgQaKhpRGncanhrFGuwFBs7G2MbuhG9ocAhwqHF1cexyjHMwc9R0eHU
 cdcB2ZHcMd7B4WHkAeah6UHr4e6R8THz4faR+UH78f6iAVIEgbCCYIMQg8CEcIUGhdSGhIC4h+yI
 n1lUiGiKvIt0jCiM4I2YjlCPCI/AkHyRNJHwkqyTaJQk1OCVoJZclxyX3JicmVyaHJrcm6CcYJ0kn
 eierJ9woDSg/KHEooijUKQYp0ClrKZ0p0CoCKjUqaCqbKs8rAis2K2krnSvRLAUsOSxuLKIs1y0ML
 UETdi2rLeEuFi5MloIuty7uLyQvWi+RL8cv/jA1MGwwpDDbMRIxSjGCMbox8j1qMmMyzLUMw0zRj
 N/M7gz8TQRNGU0njTYNRM1TTWHNC11/TY3Nn12rjbpNyQ3YDecN9c4FDhQOIw4ydkFOUI5fzm8Ofk
 6Njp0OrI67zst02s7qjvoPcc8ZTykPOM9Ij1hPaE94D4gPm+A+oD7gPye/YT+iP+JAI0BkQKZA50Ep
 QWpBrEHuQjBcckK1QvdDokN9Q8BEA0RHRipEzkUSRVVFmkxeRiJGZ0arRvBHNud7R8BIBUhLSJFI1
 0kdSWNjQuhnwsjdfUrESwxLU0uaS+JMkxtyLpNAk1KTZNN3E41Tm50t08AT01Pk0/dUCdqvc7UQ
 ZRUFBgUeZSMVJ8UsdTE1NFu6pT91RCVI9U21UoVXXVw1YPV1xWqVb3V0RXk1fgWC9YfVjLWRpZaVm
 4WgdaV1qmWvBvRVuVW+VcNVyGNXzdj114XcleG15sXr1fd19hX7NgWBWXYKpg/GFPYajh9WJJYpxi
 8GNDY5dj62RAZJRk6WU9ZZJ152Y9zpJm6Gc9Z5Nn6Wg/aJzo7G1DaZpp8WpIap9q92tPa6dr/2xXb
 K9tCG1gbb1uEm5rbsRvHm94b9FwK3CGcOBxOnGvcfByS3KmcwFzXXO4dBR0cHTMdSh1hXXhdj52m3
 b4d1Z3s3gReG54zhkqeY1553pGeqV7Bhtje8J8IXyBf09QX2hfgF+Yn7CfyN/hh/1gEeAqIEKgWu
 BzYIwgpKC9INXg7qEHYSAhOOFR4Wrhg6GcobXhzuHn4gEiGmIzokziZmJ/opkisqlMIuWi/yMY4zK
 jTGNmI3/jmaOzo82j56QBpBukNaRP5GokhGSepLjk02TtpQglIqU9Jvf1cmWNJaf1wqXzdZfgmEyYu
 JkkmZCZ/JpmotWbQpuvnBycizz3nWsd0p5Anq6fHz+Ln/qgaaDYoUehtqImopajBqN2o+akVqTHpt
 ilqaYapou/adup+CoUqjEqTepqaoCqo+rAqt1q+msXKzQrUStuK4trqGvFq+LsACwdbDqsWCx1rJ
 LssKzOLOutCW0nLUTtYq2AbZ5tvC3aLfguFm40b1KucK607q1uy67p7whvJu9Fb2Pvgq+hL7/v3q/
 9cBwwOzBZ8Hjw1/C28NYw9TEUcTOxUvFyMZGxsPHQce/yD3IvMk6ybnKOMq3yzbLtsw1zLXNNc21z
 jb0ts83z7jQodC60TzRvtI/0sHTRNP1EnUy9V01dHWVdbY11zX4Nhk20jzbNnx2nba+9uA3AXcit
 0Q3ZbeHN6i3ynfr+A24L3hROHM41Pi2+Nj4+vkc+T85YTmDeaW5x/nqegy6LzpRunQ61vq5etw6/v
 shu0R7zzuKO6070DvzPB80XXcvH/8ozzGfOn9DT0wvQ9d72fb794r4Gfio+Tj5x/pX+uf7d/wH
 /Jj9KF26/kv+3P9t///2wBDAAMCAgMCAGMDAwMEAwMEBQgFBQQEBQoHBWYIDAoMDAsKCwsNDhIQD
 Q4RDgsLEBYQERMFUVDA8XGBYUGBIUFR/2wBDAQMEBAUEBQkFBQkUDQsNFBQUFBQFBQFB
 QUFBQFBQFBQFBQFBQFBQFBQFBQFBQFBQFBQFBQFBQFBQFBQFBQFBQFBQFBQFB
 QFB
 QFB
 AxAAAAEqTjFxUwq8mg+Feg1CwTYAYxGpIT//xAAFEABBAICAwAAAAAAAAAAQMEBgACBx1QE
 RT/2gAIAQEAQUCz600jTfsvgsm7RsSyujGwm8Dao21d4djKD+XZQ4hWbeOtbB+a6TNonrOuBDEkF
 J//8QAFBEBAAAAAAAAAAAAAAAQP/aAAGBAwEBPwEH/8QAFBEBAAAAAAAAAAAAAAAQP/
 aAAGBAgEBPwEH/8QAKRAAAGEDAgQFBQAAAAAAQIDAQRIEFEBITiMyUWFDUngBoF/aAAGB
 AQAGPwKjCmrKmt8URsw59yLvPcHGFjbHh+aEjP17OPq7jli4fu3RGVto/Ufz7CpzuNPNYhdYGtCcg
 fb+61xbCxhhPlwE+jF23pns3IkT1wyamT1KcvJmx/ugrUZ5PnbP0OydBx7V//xAAhEAEAAQMDBQ
 EAAAAAAAAAAQEBQAhMRBBUFWxgZHSf/aAAGBAQABPyGohA6ZiDipTNyfdYU2KYscHN6G0G0N5h9
 ukyGTQNn9D4mhWchwy7TPVzxRceSpMAi+7EsmvoAdEbu43OpTM7wOCzsAB4q8gs5xUqeski_jIf1f/
 2gAMAweAAgADAAAAEIBJBJIBP/EABQRAQAAAAAAAAAAAAAED/2gAIAQMBAT8QB//EABQRA
 QAAAAAAAAAAAAAAQEBQAhMRBBUFWxgZHSf/aAAGBAQABPyGohA6ZiDipTNyfdYU2KYscHN6G0G0N5h9
 H/2gAIAQEAAT8QzhIjdTpqqx61zgv7AdtHgPsd/j88mGSFisuhFBbtwlMaiEaB34tg7tFqKdMj7GM
 QmJH+EYqghXKyfriMZJ8dn1bYLCVxzagN3CCivsTgY6xhJuzNA6ZPgw1uKCor7nYY7QAKVPrs5/9k=

And if I copy the base64 string to a file, join the lines and decode it, I get a valid jpeg back.

```
# cat /tmp/base64 | base64 -d > /tmp/dgoetz.jpg
# file /tmp/dgoetz.jpg
/tmp/dgoetz.jpg: JPEG image data, JFIF standard 1.01
```

So something seems to be broken, but looking in the code I have no idea what. When I tried to remove the decoding and output the file in binary I already got some content not matching the base64 string and if output was not written binary I got an empty file. Also

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.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

- Triage 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