

Re: LDIFDE Error when trying to change passwords.

## Re: LDIFDE Error when trying to change passwords.

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*Source:*

[http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.active\\_directory/2006-10/msg00377](http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.active_directory/2006-10/msg00377)

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- *From:* "Joe Kaplan" <[joseph.e.kaplan@xxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:joseph.e.kaplan@xxxxxxxxxxxxxxxxxxxxxxxxxxxx)>
  - *Date:* Mon, 2 Oct 2006 12:21:18 -0500
- 

There are many options. If you want a .NET GUI tool for doing them one at a time, I'll send you the one I used to help prepare the postings. Email me offline.

If you are doing many of these things, then you might need to write some code to do it. .NET has great support for encodings and base64 (and I'm a .NET developer), so it would be my first choice, but there may be some scriptable components out there that do the same thing.

Joe K.

—  
Joe Kaplan—MS MVP Directory Services Programming  
Co-author of "The .NET Developer's Guide to Directory Services Programming"  
<http://www.directoryprogramming.net>  
—

"JBaxter" <[JBaxter@xxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:JBaxter@xxxxxxxxxxxxxxxxxxxxxxxxxxxx)> wrote in message  
<news:7B4CF94C-38C0-479E-89A5-BF242D9E1D37@xxxxxxxxxxxxxxxxxxxx>

Thanks, works like a charm now. Now the only question I have is there a tool for converting to Unicode then to base 64?

"Lee Flight" wrote:

Hi

if you stare hard at KB263991 you will see that you need  
unicodePwd::IgBwAGEAcwBzAHcAbwByAGQAIgA=

NOTE the "::" after unicodePWD

Lee Flight

"JBaxter" <[JBaxter@xxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:JBaxter@xxxxxxxxxxxxxxxxxxxxxxxxxxxx)> wrote in message

Re: LDIFDE Error when trying to change passwords.

Re: LDIFDE Error when trying to change passwords.

news:889FDCDA-B2DB-4EB9-8F2D-8AF964A08586@xxxxxxxxxxxxxxxxxxxx

Thanks for all of your help Joe, I am still receiving the same error with the -h switch, when you use that switch is there any way to tell if it is actually encrypting. here is my command line

```
c:\csv:ldifde -i -h -f changpass.ldif -j c:\csv
```

Here is the content of my ldif file

```
dn: CN=testuser,OU=testOU,DC=domain,DC=local
changetype: modify
replace: unicodePwd
unicodePwd:IgBwAGEAcwBzAHcAbwByAGQAIgA=
-
```

and here is the content of the error log:

Connecting to "DC.domain.local"

Logging in as current user using SSPI

Importing directory from file "changpass.ldif"

Loading entries

```
1: CN=testuser,OU=testOU,DC=Domain,DC=local
Entry DN: CN=testuer,OU=testOU,DC=Domain,DC=local
changetype: modify
Attribute 0)
unicodePwd:IgBwAGEAcwBzAHcAbwByAGQAIgA=
```

Add error on line 1: Unwilling To Perform

The server side error is "A device attached to the system is not functioning."

0 entries modified successfully.

An error has occurred in the program

"Joe Kaplan" wrote:

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Add the `-h` switch to that.

```
C:\CSV:ldifde -i -f -h chPwd.ldif -j c:\csv
```

The SASL bind (with `-b` and specific credentials) is only needed if you don't want to use the credentials of the logged on user. Since you probably logged on as DA, that will be fine. LDIF defaults to do a SASL bind with the current user's credentials if none are specified.

The `-h` adds the encryption. That should allow password mod operations on 2K3 DCs.

Joe K.

--

Joe Kaplan—MS MVP Directory Services Programming  
Co—author of "The .NET Developer's Guide to Directory Services Programming"  
<http://www.directoryprogramming.net>

--

"JBaxter"

<JBaxter@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

wrote in message

[news:EF4EF876-D0EA-4219-9101-F0B9ADEFBDC1@xxxxxxxxxxxxxxxxxxxx](mailto:news:EF4EF876-D0EA-4219-9101-F0B9ADEFBDC1@xxxxxxxxxxxxxxxxxxxx)

Which command would you like to see, I do not have an example of the SSAL command or the bind command as I am not sure how to use them. The command that I am using for the ldifde is standard and works as long as I do not try to change the password.

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```
C:\CSV:ldifde -i -f  
chPwd.ldif -j c:\csv
```

Importing users works fine,  
otherwise I get the error "a  
device  
attached  
to the system is not  
functioning"

"Joe Kaplan" wrote:

Can you  
show the  
command  
line you are  
trying to  
use? If you  
are  
running  
this from  
the DC  
(presumably  
logged in as  
the DA),  
you don't  
actually  
need  
to provide  
credentials.  
By default,  
LDIFDE  
will bind  
with the  
current  
credentials  
using SSPI.  
The -h  
argument is  
the key one,  
as that  
enables  
encryption.

As long as  
the clients  
and servers  
are 2003,  
the  
domain/forest

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mode  
should  
not matter  
here. The  
higher  
encryption  
strength of  
SSPI in  
Win2K3  
(and  
XP)  
is a function  
of the  
improvements  
made to  
SSPI at the  
OS layer  
and  
not  
a  
DC-specific  
thing. SSPI  
is a general  
mechanism  
for remotely  
authenticating  
clients  
using  
different  
protocols  
and  
establishing  
a secured  
network  
connection  
between  
them which  
is used by  
tons of  
other  
services in  
Windows,  
not just  
AD/LDAP.

One thing  
I'm not  
certain  
about is  
whether the  
encryption

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actually  
kicks  
in  
when the  
traffic  
doesn't  
leave the  
machine. I  
think it does  
in  
this  
case,  
but you  
want to be  
sure. You  
might  
consider  
running  
LDIF from  
a  
member  
server  
instead to  
be sure  
(logged in  
as DA or  
preferably  
called by  
using  
Runas;  
logging in  
as DA is  
generally  
not a good  
idea).

HTH,

Joe K.

--

Joe  
Kaplan-MS  
MVP  
Directory  
Services  
Programming  
Co-author  
of "The  
.NET  
Developer's

Re: LDIFDE Error when trying to change passwords.

Guide to  
Directory  
Services  
Programming"  
<http://www.directoryprogramming.net>

--  
"JBaxter"  
<JBaxter@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>  
wrote in  
message  
<news:48074FCA-F772-43E4-A87C-3FA1859742FD@xxxxxxxxxxx>

I  
have  
looked  
over  
the  
SSAL  
bind  
options  
but  
I  
cannot  
seem  
to  
figure  
it  
out,  
any  
chance  
you  
can  
give  
me  
an  
example  
of  
what  
the  
command  
is,  
I  
am  
doing  
the  
import  
directly  
from  
the  
server  
via

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a  
command  
prompt,  
the  
only  
reason  
I  
am  
trying  
the  
LDIFDE  
is  
that  
I  
cannot  
import  
the  
passwords  
with  
my  
CSVDE  
file.  
the  
Server  
all  
of  
my  
servers  
in  
this  
domain  
are  
2k3.  
Another  
question  
is  
do  
they  
have  
to  
be  
running  
in  
2k3  
mode  
or  
is  
2000  
native  
ok  
for

Re: LDIFDE Error when trying to change passwords.

mixed  
environs,  
or  
does  
it  
matter  
at  
all.

"Joe  
Kaplan"  
wrote:

Ok,  
there  
are  
a  
few  
things.  
I'm  
not  
sure  
exactly  
why  
you  
are  
getting  
the  
error  
you  
are  
getting,  
but  
your  
value  
is  
definitely  
wrong.

The  
value  
you  
have  
specified  
is  
this:  
"cGFzc3dvcmQ="

That  
is  
a

Re: LDIFDE Error when trying to change passwords.

base64  
encoded  
value  
of  
the  
ASCII  
(or  
possibly  
UTF8  
or  
1252)  
encoding  
of  
the  
string  
"password".  
You  
have  
then  
enclosed  
that  
in  
quotes.  
That  
is  
not  
correct.  
You  
need  
to  
take  
the  
password  
string,  
enclose  
it  
in  
quotes,  
convert  
the  
entire  
value  
to  
binary  
using  
UNICODE  
encoding,  
and  
base64  
that  
value.

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Using  
the  
same  
password  
value:

password

Enclose  
in  
quotes

"password"

Convert  
to  
binary  
using  
Unicode  
encoding  
(shown  
as  
hex  
pairs;  
notice  
the  
double  
bytes  
and  
the  
quote  
characters  
22-00?)

22-00-70-00-61-00-73-00-73-00-77-00-6F-00

Convert  
binary  
to  
Base64:

IgBwAGEAcwBzAHcAbwByAGQAIgA=

To  
get  
the  
encrypted  
channel,  
you  
can  
either

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use  
SSL  
like  
the  
article  
suggests,  
or  
if  
you  
have  
2K3  
DCs  
and  
your  
client  
is  
also  
XP  
or  
higher,  
you  
can  
use  
SSPI  
bind  
and  
the  
-h  
option  
with  
LDIF  
to  
encrypt  
the  
connection  
after  
bind.  
If  
you  
are  
supplying  
credentials  
on  
the  
commandline,  
you  
need  
to  
use  
the  
-b

Re: LDIFDE Error when trying to change passwords.

option.

If  
you  
are  
having  
trouble  
with  
the  
unicode  
or  
base64  
conversion,

you  
may  
need  
to  
get  
a  
better  
utility.

I  
have  
a  
little  
thing

I  
wrote  
in  
.NET  
that  
helps  
with  
this  
that

I  
could  
share  
offline  
if  
you  
need  
it.

Note  
also  
that  
your  
test  
password  
won't

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work  
if  
password  
complexity  
is  
enabled,  
so  
make  
sure  
you  
improve  
that  
if  
needed  
(Password1  
is  
the  
crappy  
choice  
for  
testing  
that  
gets  
used  
a  
lot  
:)).

Given  
the  
error  
you  
are  
getting,  
you  
might  
be  
having  
different  
problems  
with  
actually  
connecting  
to  
the  
directory.  
Typically,  
you'll  
get  
an  
"unwilling

Re: LDIFDE Error when trying to change passwords.

to  
process"  
error  
message  
from  
LDAP  
if  
it  
doesn't  
like  
the  
value  
you  
use  
or  
you  
don't  
have  
a  
secure  
connection.

HTH,

Joe  
K.

--

Joe  
Kaplan-MS  
MVP  
Directory  
Services  
Programming  
Co-author  
of  
"The  
.NET  
Developer's  
Guide  
to  
Directory  
Services  
Programming"  
<http://www.directoryprogramming.net>

--

"JBaxter"  
<JBaxter@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>  
wrote  
in  
message

Re: LDIFDE Error when trying to change passwords.

news:879F0511-1793-4C4C-AC7A-B98B41919C3

Thank  
you  
for  
the  
reply  
Joe,  
the  
question  
is  
why  
am  
I  
recieving  
the  
errir  
that  
I  
am

A  
device  
attached  
to  
the  
system  
is  
not  
functioning,

is  
it  
because  
I  
am  
not  
ussing  
SSL,  
here  
is  
the  
code  
that  
I  
am  
using

dn:  
CN=testuser,OU=example,DC=example,DC=  
changetype:

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```
modify
replace:
unicodePwd
unicodePwd:"cGFzc3dvcmQ="
-
```